

NICKEL ROAD OPERATING

WELD COUNTY

SEC 11-T7N-R65W

ELDER 6X-HNB-09-07-65

OWB

PROPOSAL 1

Anticollision Report

23 May, 2022

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 10,000.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	5/23/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	17,024.63	PROPOSAL 1 (OWB)	MWD	OWSG MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 11-T7N-R65W						
ELDER 1X-HC-09-07-65 - OWB - PROPOSAL 1	1,853.21	1,920.77	102.36	87.80	7.030	CC, ES
ELDER 1X-HC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,672.75	2,583.70	2,026.06	4.633	SF
ELDER 1X-HNB-09-07-65 - OWB - PROPOSAL 1	100.00	100.00	82.46	81.49	85.434	CC
ELDER 1X-HNB-09-07-65 - OWB - PROPOSAL 1	200.00	198.21	83.53	80.73	29.838	ES
ELDER 1X-HNB-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,342.01	2,753.37	2,192.01	4.905	SF
ELDER 1X-HNC-09-07-65 - OWB - PROPOSAL 1	300.00	300.00	70.43	66.90	19.913	CC, ES
ELDER 1X-HNC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,346.97	2,427.86	1,867.56	4.333	SF
ELDER 1Y-HC-02-07-65 - OWB - PROPOSAL 1	2,308.83	2,286.91	285.80	272.12	20.883	CC, ES
ELDER 1Y-HC-02-07-65 - OWB - PROPOSAL 1	6,950.00	9,771.88	671.20	617.41	12.479	SF
ELDER 1Y-HNA-02-07-65 - OWB - PROPOSAL 1	900.00	900.00	44.14	37.12	6.290	CC, ES
ELDER 1Y-HNA-02-07-65 - OWB - PROPOSAL 1	1,083.35	1,083.22	48.83	40.79	6.074	SF
ELDER 2X-HC-09-07-65 - OWB - PROPOSAL 1	600.00	600.00	46.79	41.25	8.453	CC, ES
ELDER 2X-HC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,312.33	1,778.63	1,222.22	3.197	SF
ELDER 2X-HNA-09-07-65 - OWB - PROPOSAL 1	400.00	400.00	56.36	52.06	13.104	CC, ES
ELDER 2X-HNA-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,086.46	2,096.16	1,535.59	3.739	SF
ELDER 2X-HNB-09-07-65 - OWB - PROPOSAL 1	2,220.27	2,271.32	92.84	77.67	6.119	CC, ES
ELDER 2X-HNB-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,288.53	1,890.35	1,330.65	3.377	SF
ELDER 2Y-HC-02-07-65 - OWB - PROPOSAL 1	2,231.01	2,209.77	277.17	263.83	20.784	CC, ES
ELDER 2Y-HC-02-07-65 - OWB - PROPOSAL 1	2,600.00	2,547.68	297.26	281.46	18.805	SF
ELDER 2Y-HNB-02-07-65 - OWB - PROPOSAL 1	900.00	900.00	73.97	66.95	10.542	CC, ES
ELDER 2Y-HNB-02-07-65 - OWB - PROPOSAL 1	1,083.35	1,083.22	78.67	70.63	9.792	SF
ELDER 2Y-HNC-02-07-65 - OWB - PROPOSAL 1	2,049.18	2,028.60	271.50	258.96	21.654	CC, ES
ELDER 2Y-HNC-02-07-65 - OWB - PROPOSAL 1	2,500.00	2,442.16	301.02	285.46	19.340	SF
ELDER 3X-HC-09-07-65 - OWB - PROPOSAL 1	2,745.28	2,774.81	78.00	62.03	4.884	CC, ES
ELDER 3X-HC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,340.76	1,331.37	778.95	2.410	SF
ELDER 3X-HNB-09-07-65 - OWB - PROPOSAL 1	800.00	800.00	40.17	33.61	6.127	CC, ES
ELDER 3X-HNB-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,067.63	1,434.99	874.78	2.562	SF
ELDER 3X-HNC-09-07-65 - OWB - PROPOSAL 1	2,466.81	2,507.39	86.13	70.56	5.533	CC, ES
ELDER 3X-HNC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,298.77	1,605.92	1,047.72	2.877	SF
ELDER 3Y-HC-02-07-65 - OWB - PROPOSAL 1	900.00	900.00	88.27	81.25	12.580	CC, ES
ELDER 3Y-HC-02-07-65 - OWB - PROPOSAL 1	1,083.35	1,083.22	92.90	84.88	11.578	SF
ELDER 3Y-HNA-02-07-65 - OWB - PROPOSAL 1	900.00	899.00	103.81	96.80	14.800	CC, ES
ELDER 3Y-HNA-02-07-65 - OWB - PROPOSAL 1	1,600.00	1,597.82	136.67	126.50	13.438	SF
ELDER 3Y-HNC-02-07-65 - OWB - PROPOSAL 1	900.00	899.00	120.72	113.70	17.210	CC, ES
ELDER 3Y-HNC-02-07-65 - OWB - PROPOSAL 1	1,700.00	1,697.49	158.58	148.11	15.150	SF
ELDER 4X-HC-09-07-65 - OWB - PROPOSAL 1	3,525.86	3,536.53	59.32	41.49	3.327	CC, ES
ELDER 4X-HC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,255.26	768.24	228.96	1.425	Collision Avoidance Req., SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 11-T7N-R65W						
ELDER 4X-HNA-09-07-65 - OWB - PROPOSAL 1	900.00	900.00	38.40	31.38	5.472	CC, ES
ELDER 4X-HNA-09-07-65 - OWB - PROPOSAL 1	17,024.65	16,914.47	781.39	225.40	1.405	Collision Avoidance Req., SF
ELDER 4X-HNC-09-07-65 - OWB - PROPOSAL 1	900.00	900.00	34.62	27.60	4.934	CC, ES
ELDER 4X-HNC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,125.27	1,108.04	550.48	1.987	Collision Risk Procedures Re
ELDER 4Y-HC-02-07-65 - OWB - PROPOSAL 1	1,723.86	1,703.72	279.97	268.92	25.318	CC, ES
ELDER 4Y-HC-02-07-65 - OWB - PROPOSAL 1	2,200.00	2,142.51	311.23	296.97	21.831	SF
ELDER 4Y-HNC-02-07-65 - OWB - PROPOSAL 1	900.00	900.00	59.69	52.68	8.507	CC, ES
ELDER 4Y-HNC-02-07-65 - OWB - PROPOSAL 1	1,083.35	1,083.22	64.49	56.44	8.013	SF
ELDER 5X-HC-09-07-65 - OWB - PROPOSAL 1	933.86	933.86	48.85	41.69	6.826	CC
ELDER 5X-HC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,207.12	495.54	-19.00	0.963	No-Go Zone - Stop Drilling, E
ELDER 5X-HNC-09-07-65 - OWB - PROPOSAL 1	4,526.56	4,523.33	41.17	20.42	1.984	Collision Risk Procedures Re
ELDER 5X-HNC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,114.59	335.98	-199.01	0.628	No-Go Zone - Stop Drilling, E
ELDER 5Y-HC-02-07-65 - OWB - PROPOSAL 1	900.00	899.00	136.26	129.24	19.425	CC, ES
ELDER 5Y-HC-02-07-65 - OWB - PROPOSAL 1	1,400.00	1,395.99	159.02	149.80	17.248	SF
ELDER 5Y-HNA-02-07-65 - OWB - PROPOSAL 1	900.00	899.00	150.55	143.54	21.463	CC, ES
ELDER 5Y-HNA-02-07-65 - OWB - PROPOSAL 1	1,400.00	1,393.17	175.89	166.64	19.016	SF
ELDER 5Y-HNC-02-07-65 - OWB - PROPOSAL 1	1,458.50	1,442.94	231.84	221.95	23.449	CC
ELDER 5Y-HNC-02-07-65 - OWB - PROPOSAL 1	1,500.00	1,482.56	232.05	221.91	22.884	ES
ELDER 5Y-HNC-02-07-65 - OWB - PROPOSAL 1	1,900.00	1,853.61	263.18	249.99	19.953	SF
ELDER 6X-HC-09-07-65 - OWB - PROPOSAL 1	700.00	700.00	14.36	8.29	2.367	CC
ELDER 6X-HC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,261.24	471.70	-35.31	0.930	No-Go Zone - Stop Drilling, E
ELDER 6X-HNC-09-07-65 - OWB - PROPOSAL 1	1,585.45	1,584.93	51.93	41.84	5.148	CC
ELDER 6X-HNC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,140.80	272.86	-250.28	0.522	No-Go Zone - Stop Drilling, E
ELDER 6Y-HC-02-07-65 - OWB - PROPOSAL 1	1,349.96	1,329.97	292.27	282.86	31.055	CC
ELDER 6Y-HC-02-07-65 - OWB - PROPOSAL 1	1,400.00	1,377.30	292.55	282.85	30.139	ES
ELDER 6Y-HC-02-07-65 - OWB - PROPOSAL 1	1,900.00	1,833.13	337.38	323.94	25.104	SF
ELDER 6Y-HNB-02-07-65 - OWB - PROPOSAL 1	1,305.80	1,291.41	228.74	219.49	24.723	CC, ES
ELDER 6Y-HNB-02-07-65 - OWB - PROPOSAL 1	1,800.00	1,747.88	271.93	258.72	20.587	SF
ELDER 6Y-HNC-02-07-65 - OWB - PROPOSAL 1	1,190.44	1,171.47	289.26	280.49	32.978	CC
ELDER 6Y-HNC-02-07-65 - OWB - PROPOSAL 1	1,200.00	1,180.54	289.27	280.45	32.783	ES
ELDER 6Y-HNC-02-07-65 - OWB - PROPOSAL 1	1,800.00	1,725.15	348.72	335.24	25.857	SF
ELDER 7X-HC-09-07-65 - OWB - PROPOSAL 1	500.00	500.00	83.64	78.69	16.884	CC
ELDER 7X-HC-09-07-65 - OWB - PROPOSAL 1	700.00	699.65	83.96	77.98	14.040	ES
ELDER 7X-HC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,334.15	936.27	390.59	1.716	Collision Risk Procedures Re
ELDER 7X-HNA-09-07-65 - OWB - PROPOSAL 1	768.55	768.65	70.77	64.46	11.203	CC
ELDER 7X-HNA-09-07-65 - OWB - PROPOSAL 1	17,024.65	16,987.42	594.87	40.25	1.073	Collision Avoidance Req., ES
ELDER 7X-HNB-09-07-65 - OWB - PROPOSAL 1	632.69	632.94	12.50	6.89	2.227	CC, ES
ELDER 7X-HNB-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,158.82	990.97	430.05	1.767	Collision Risk Procedures Re
ELDER 7Y-HC-02-07-65 - OWB - PROPOSAL 1	600.00	598.00	221.03	215.50	39.977	CC
ELDER 7Y-HC-02-07-65 - OWB - PROPOSAL 1	1,200.00	1,185.19	222.17	213.20	24.785	ES
ELDER 7Y-HC-02-07-65 - OWB - PROPOSAL 1	1,600.00	1,553.73	259.30	246.87	20.855	SF
ELDER 7Y-HNA-02-07-65 - OWB - PROPOSAL 1	400.00	398.00	208.68	204.38	48.604	CC
ELDER 7Y-HNA-02-07-65 - OWB - PROPOSAL 1	600.00	597.34	208.95	203.49	38.278	ES
ELDER 7Y-HNA-02-07-65 - OWB - PROPOSAL 1	1,500.00	1,446.52	271.11	258.48	21.469	SF
ELDER 7Y-HNB-02-07-65 - OWB - PROPOSAL 1	500.00	498.00	275.96	271.02	55.781	CC
ELDER 7Y-HNB-02-07-65 - OWB - PROPOSAL 1	600.00	596.25	276.27	270.81	50.606	ES
ELDER 7Y-HNB-02-07-65 - OWB - PROPOSAL 1	1,600.00	1,531.48	340.08	327.32	26.649	SF
ELDER 8X-HC-09-07-65 - OWB - PROPOSAL 1	488.18	488.67	26.07	21.28	5.442	CC
ELDER 8X-HC-09-07-65 - OWB - PROPOSAL 1	500.00	500.42	26.10	21.23	5.355	ES
ELDER 8X-HC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,440.88	1,431.11	876.36	2.580	SF
ELDER 8X-HNB-09-07-65 - OWB - PROPOSAL 1	216.33	217.33	97.28	94.55	35.655	CC
ELDER 8X-HNB-09-07-65 - OWB - PROPOSAL 1	500.00	500.50	97.71	92.83	20.058	ES
ELDER 8X-HNB-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,202.63	1,245.99	685.74	2.224	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 11-T7N-R65W						
ELDER 8X-HNC-09-07-65 - OWB - PROPOSAL 1	0.00	1.00	111.10			
ELDER 8X-HNC-09-07-65 - OWB - PROPOSAL 1	300.00	300.33	111.63	108.16	32.207	ES
ELDER 8X-HNC-09-07-65 - OWB - PROPOSAL 1	17,024.65	17,374.43	1,576.62	1,017.91	2.822	SF
ELDER 8Y-HC-02-07-65 - OWB - PROPOSAL 1	300.00	298.00	262.76	259.23	74.490	CC
ELDER 8Y-HC-02-07-65 - OWB - PROPOSAL 1	400.00	396.90	262.96	258.75	62.433	ES
ELDER 8Y-HC-02-07-65 - OWB - PROPOSAL 1	1,500.00	1,422.95	352.55	339.61	27.258	SF
ELDER 8Y-HNB-02-07-65 - OWB - PROPOSAL 1	466.96	466.96	183.44	178.73	38.908	CC
ELDER 8Y-HNB-02-07-65 - OWB - PROPOSAL 1	500.00	499.68	183.50	178.55	37.139	ES
ELDER 8Y-HNB-02-07-65 - OWB - PROPOSAL 1	1,200.00	1,156.91	248.94	237.31	21.401	SF
ELDER 8Y-HNC-02-07-65 - OWB - PROPOSAL 1	443.42	442.71	196.36	191.84	43.481	CC
ELDER 8Y-HNC-02-07-65 - OWB - PROPOSAL 1	500.00	498.99	196.43	191.54	40.180	ES
ELDER 8Y-HNC-02-07-65 - OWB - PROPOSAL 1	1,300.00	1,252.43	262.04	250.09	21.934	SF
EXIST HZ ELDER 4Y-HNB-2-07-65 - OWB - FINAL SUR	0.00	6.78	417.26			
EXIST HZ ELDER 4Y-HNB-2-07-65 - OWB - FINAL SUR	300.00	302.55	419.60	416.18	122.859	ES
EXIST HZ ELDER 4Y-HNB-2-07-65 - OWB - FINAL SUR	6,850.00	9,622.04	2,234.02	2,169.05	34.385	SF
EXIST HZ ELDER 5X-HNB-09-07-65 - OWB - FINAL SUR	5,197.80	5,200.29	46.80	22.56	1.930	Collision Risk Procedures R
EXIST HZ ELDER 5X-HNB-09-07-65 - OWB - FINAL SUR	17,024.65	17,036.50	150.65	-344.36	0.304	No-Go Zone - Stop Drilling, f
EXIST HZ RUSCH 8X-HNB-04-07-65 - OWB - FINAL SU	1,650.49	1,709.82	102.58	90.29	8.345	CC, ES
EXIST HZ RUSCH 8X-HNB-04-07-65 - OWB - FINAL SU	17,024.65	18,028.44	3,764.03	3,203.28	6.712	SF

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-167.21	-492.93	-111.87	505.48				
100.00	100.00	97.00	97.00	0.48	0.47	-167.21	-492.93	-111.87	505.47	504.52	0.95	531.675	
200.00	200.00	197.00	197.00	1.28	1.26	-167.21	-492.93	-111.87	505.47	502.93	2.54	198.955	
300.00	300.00	316.84	316.81	1.77	2.42	-167.14	-490.55	-111.97	503.56	499.40	4.16	121.071	
400.00	400.00	436.89	436.62	2.15	3.76	-166.92	-483.15	-112.28	497.61	491.78	5.82	85.435	
500.00	500.00	556.10	555.19	2.48	4.77	-166.53	-470.85	-112.80	487.66	480.53	7.12	68.465	
600.00	600.00	674.09	671.93	2.77	5.64	-165.96	-453.83	-113.51	473.77	465.53	8.24	57.509	
700.00	700.00	790.49	786.31	3.03	6.43	-165.18	-432.35	-114.42	456.06	446.83	9.24	49.381	
800.00	800.00	904.93	897.84	3.28	7.16	-164.15	-406.72	-115.50	434.66	424.51	10.14	42.846	
900.00	900.00	1,017.13	1,006.09	3.51	7.83	-162.81	-377.29	-116.73	409.72	398.75	10.98	37.319	
1,000.00	999.98	1,126.26	1,110.20	3.78	8.48	-12.43	-344.62	-118.11	379.86	368.07	11.79	32.219	
1,083.35	1,083.22	1,214.09	1,193.04	4.28	8.98	-10.87	-315.47	-119.33	350.19	337.52	12.67	27.634	
1,100.00	1,099.84	1,231.28	1,209.15	4.29	9.08	-10.49	-309.47	-119.59	343.81	331.04	12.77	26.921	
1,200.00	1,199.64	1,332.62	1,303.35	4.47	9.58	-7.68	-272.13	-121.16	304.01	290.70	13.31	22.834	
1,300.00	1,299.43	1,423.52	1,387.11	4.70	9.88	-4.18	-236.87	-122.64	263.17	249.45	13.72	19.176	
1,400.00	1,399.23	1,513.41	1,469.94	4.95	10.19	0.48	-201.97	-124.11	223.45	209.32	14.13	15.819	
1,500.00	1,499.02	1,603.29	1,552.76	5.20	10.52	7.00	-167.08	-125.58	185.58	171.12	14.46	12.834	
1,600.00	1,598.82	1,693.18	1,635.58	5.47	10.86	16.40	-132.19	-127.05	150.97	136.33	14.64	10.312	
1,700.00	1,698.61	1,783.06	1,718.41	5.75	11.21	30.13	-97.30	-128.51	122.42	107.86	14.56	8.406	
1,800.00	1,798.41	1,872.95	1,801.23	6.04	11.57	49.08	-62.41	-129.98	104.98	90.58	14.40	7.290	
1,853.21	1,851.50	1,920.77	1,845.30	6.20	11.77	60.66	-43.85	-130.76	102.36	87.80	14.56	7.030	CC, ES
1,900.00	1,898.20	1,962.83	1,884.05	6.34	11.94	70.86	-27.52	-131.45	104.40	89.45	14.94	6.986	
2,000.00	1,998.00	2,052.72	1,966.88	6.64	12.32	90.12	7.37	-132.92	120.90	104.68	16.22	7.455	
2,100.00	2,097.79	2,142.60	2,049.70	6.94	12.70	104.18	42.26	-134.39	148.92	131.41	17.51	8.505	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program:		0-MWD								Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Reference Depth (usft)	Measured Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,200.00	2,197.59	2,232.49	2,132.52	7.26	13.09	113.81	77.16	-135.85	183.24	164.63	18.61	9.848	
2,300.00	2,297.38	2,322.37	2,215.35	7.57	13.48	120.47	112.05	-137.32	220.95	201.40	19.56	11.297	
2,400.00	2,397.18	2,412.25	2,298.17	7.89	13.88	125.24	146.94	-138.79	260.59	240.16	20.42	12.758	
2,500.00	2,496.97	2,502.14	2,380.99	8.22	14.29	128.77	181.83	-140.26	301.38	280.14	21.24	14.187	
2,600.00	2,596.77	2,592.02	2,463.82	8.54	14.70	131.47	216.72	-141.72	342.93	320.89	22.03	15.563	
2,700.00	2,696.57	2,681.91	2,546.64	8.87	15.11	133.60	251.61	-143.19	384.98	362.17	22.81	16.877	
2,800.00	2,796.36	2,771.79	2,629.46	9.21	15.53	135.31	286.50	-144.66	427.38	403.80	23.58	18.125	
2,900.00	2,896.16	2,861.68	2,712.29	9.54	15.95	136.71	321.39	-146.13	470.05	445.71	24.34	19.309	
3,000.00	2,995.95	2,951.56	2,795.11	9.87	16.37	137.89	356.28	-147.60	512.91	487.81	25.11	20.430	
3,100.00	3,095.75	3,041.45	2,877.93	10.21	16.80	138.88	391.18	-149.06	555.93	530.06	25.87	21.491	
3,200.00	3,195.54	3,131.33	2,960.76	10.55	17.23	139.74	426.07	-150.53	599.06	572.43	26.63	22.495	
3,300.00	3,295.34	3,221.22	3,043.58	10.89	17.67	140.47	460.96	-152.00	642.29	614.89	27.39	23.446	
3,400.00	3,395.13	3,311.10	3,126.40	11.23	18.16	141.12	495.85	-153.47	685.59	657.43	28.16	24.347	
3,500.00	3,494.93	3,400.99	3,209.23	11.58	18.74	141.69	530.74	-154.94	728.95	700.03	28.93	25.201	
3,600.00	3,594.72	3,490.87	3,292.05	11.92	19.33	142.19	565.63	-156.40	772.37	742.67	29.69	26.011	
3,700.00	3,694.52	3,580.76	3,374.87	12.26	19.92	142.65	600.52	-157.87	815.83	785.36	30.46	26.779	
3,800.00	3,794.31	3,670.64	3,457.70	12.61	20.51	143.05	635.41	-159.34	859.33	828.09	31.24	27.510	
3,900.00	3,894.11	3,760.53	3,540.52	12.96	21.10	143.42	670.30	-160.81	902.86	870.84	32.01	28.205	
4,000.00	3,993.90	3,850.41	3,623.34	13.30	21.69	143.75	705.20	-162.28	946.41	913.63	32.79	28.866	
4,100.00	4,093.70	3,940.29	3,706.17	13.65	22.29	144.06	740.09	-163.74	989.99	956.43	33.56	29.495	
4,200.00	4,193.49	4,030.18	3,788.99	14.00	22.88	144.34	774.98	-165.21	1,033.59	999.25	34.34	30.096	
4,300.00	4,293.29	4,120.06	3,871.81	14.35	23.47	144.59	809.87	-166.68	1,077.21	1,042.09	35.12	30.669	
4,400.00	4,393.08	4,209.95	3,954.64	14.70	24.06	144.83	844.76	-168.15	1,120.85	1,084.94	35.91	31.216	
4,500.00	4,492.88	4,299.83	4,037.46	15.05	24.65	145.05	879.65	-169.62	1,164.50	1,127.81	36.69	31.739	
4,600.00	4,592.68	4,389.72	4,120.28	15.40	25.25	145.25	914.54	-171.08	1,208.16	1,170.69	37.48	32.238	
4,700.00	4,692.47	4,479.60	4,203.11	15.75	25.84	145.44	949.43	-172.55	1,251.84	1,213.57	38.26	32.717	
4,800.00	4,792.27	4,569.49	4,285.93	16.10	26.43	145.62	984.33	-174.02	1,295.52	1,256.47	39.05	33.175	
4,900.00	4,892.06	4,659.37	4,368.75	16.45	27.02	145.78	1,019.22	-175.49	1,339.21	1,299.37	39.84	33.615	
5,000.00	4,991.86	4,749.26	4,451.58	16.81	27.62	145.94	1,054.11	-176.96	1,382.92	1,342.29	40.63	34.036	
5,100.00	5,091.65	4,839.14	4,534.40	17.16	28.21	146.08	1,089.00	-178.42	1,426.63	1,385.20	41.42	34.441	
5,200.00	5,191.45	4,929.03	4,617.22	17.51	28.80	146.22	1,123.89	-179.89	1,470.34	1,428.13	42.22	34.830	
5,300.00	5,291.24	5,018.91	4,700.05	17.87	29.40	146.34	1,158.78	-181.36	1,514.07	1,471.06	43.01	35.203	
5,400.00	5,391.04	5,108.80	4,782.87	18.22	29.99	146.47	1,193.67	-182.83	1,557.80	1,513.99	43.80	35.563	
5,500.00	5,490.83	5,198.68	4,865.69	18.57	30.59	146.58	1,228.56	-184.30	1,601.53	1,556.93	44.60	35.909	
5,600.00	5,590.63	5,288.56	4,948.52	18.93	31.18	146.69	1,263.45	-185.76	1,645.27	1,599.87	45.40	36.242	
5,700.00	5,690.42	5,378.45	5,031.34	19.28	31.77	146.79	1,298.35	-187.23	1,689.01	1,642.82	46.20	36.562	
5,800.00	5,790.22	5,468.33	5,114.16	19.64	32.37	146.89	1,333.24	-188.70	1,732.76	1,685.77	46.99	36.872	
5,900.00	5,890.01	5,558.22	5,196.99	19.99	32.96	146.98	1,368.13	-190.17	1,776.51	1,728.72	47.79	37.170	
6,000.00	5,989.81	5,648.10	5,279.81	20.35	33.56	147.07	1,403.02	-191.64	1,820.27	1,771.67	48.60	37.458	
6,100.00	6,089.60	5,737.99	5,362.63	20.70	34.15	147.15	1,437.91	-193.10	1,864.03	1,814.63	49.40	37.736	
6,200.00	6,189.40	5,827.87	5,445.46	21.06	34.75	147.23	1,472.80	-194.57	1,907.79	1,857.59	50.20	38.004	
6,300.00	6,289.19	5,917.76	5,528.28	21.41	35.34	147.31	1,507.69	-196.04	1,951.55	1,900.55	51.00	38.264	
6,400.00	6,388.99	6,007.64	5,611.10	21.77	35.93	147.38	1,542.58	-197.51	1,995.32	1,943.51	51.81	38.514	
6,498.43	6,487.22	6,096.12	5,692.63	22.12	36.52	147.45	1,576.93	-198.95	2,038.40	1,985.80	52.60	38.754	
6,500.00	6,488.79	6,097.53	5,693.93	22.12	36.53	145.30	1,577.48	-198.98	2,039.09	1,986.48	52.61	38.758	
6,550.00	6,538.54	6,142.40	5,735.27	22.32	36.83	109.53	1,594.89	-199.71	2,060.85	2,007.83	53.03	38.865	
6,600.00	6,587.76	6,186.89	5,776.27	22.59	37.12	97.84	1,612.17	-200.43	2,082.29	2,028.83	53.46	38.947	
6,650.00	6,636.08	6,230.68	5,816.62	22.84	37.41	91.69	1,629.16	-201.15	2,103.29	2,049.44	53.84	39.063	
6,700.00	6,683.13	6,273.42	5,856.00	23.07	37.69	87.60	1,645.75	-201.85	2,123.75	2,069.54	54.21	39.173	
6,750.00	6,728.55	6,314.80	5,894.13	23.29	37.97	84.54	1,661.81	-202.52	2,143.62	2,089.03	54.59	39.267	
6,800.00	6,771.99	6,354.49	5,930.70	23.51	38.23	82.11	1,677.22	-203.17	2,162.84	2,107.86	54.98	39.339	
6,850.00	6,813.13	6,392.19	5,965.44	23.72	38.48	80.09	1,691.86	-203.79	2,181.40	2,126.01	55.38	39.387	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
6,900.00	6,851.64	6,427.62	5,998.09	23.94	38.71	78.36	1,705.61	-204.37	2,199.27	2,143.46	55.81	39.407	
6,950.00	6,887.25	6,460.51	6,028.39	24.16	38.93	76.86	1,718.37	-204.90	2,216.45	2,160.19	56.26	39.397	
7,000.00	6,919.67	6,490.60	6,056.12	24.38	39.13	75.52	1,730.06	-205.39	2,232.95	2,176.21	56.74	39.354	
7,050.00	6,948.65	6,517.67	6,081.07	24.62	39.31	74.30	1,740.57	-205.84	2,248.77	2,191.52	57.26	39.276	
7,100.00	6,973.99	6,541.52	6,103.04	24.88	39.47	73.16	1,749.82	-206.23	2,263.93	2,206.12	57.81	39.164	
7,150.00	6,995.49	6,561.95	6,121.87	25.18	39.60	72.09	1,757.75	-206.56	2,278.42	2,220.03	58.39	39.018	
7,200.00	7,012.97	6,578.82	6,137.41	25.51	39.71	71.05	1,764.30	-206.84	2,292.24	2,233.23	59.02	38.841	
7,250.00	7,026.32	6,591.99	6,149.55	25.89	39.80	70.04	1,769.42	-207.05	2,305.38	2,245.72	59.67	38.637	
7,300.00	7,035.43	6,601.38	6,158.19	26.33	39.86	69.05	1,773.06	-207.20	2,317.82	2,257.48	60.34	38.412	
7,350.00	7,040.22	6,606.89	6,163.28	26.84	39.90	68.07	1,775.20	-207.29	2,329.51	2,268.48	61.03	38.170	
7,377.14	7,041.00	6,608.25	6,164.53	27.14	39.91	67.54	1,775.73	-207.32	2,335.53	2,274.13	61.39	38.041	
7,400.00	7,041.12	6,608.91	6,165.14	27.41	39.91	67.56	1,775.98	-207.33	2,340.60	2,278.90	61.70	37.933	
7,500.00	7,041.64	6,611.80	6,167.80	28.77	39.93	67.63	1,777.10	-207.37	2,365.27	2,302.16	63.11	37.479	
7,600.00	7,042.16	6,614.68	6,170.46	30.39	39.95	67.70	1,778.22	-207.42	2,393.86	2,329.28	64.58	37.070	
7,700.00	7,042.67	6,617.57	6,173.12	32.22	39.97	67.78	1,779.34	-207.47	2,426.24	2,360.16	66.08	36.719	
7,800.00	7,043.19	6,620.45	6,175.77	34.20	39.99	67.85	1,780.46	-207.52	2,462.25	2,394.67	67.58	36.435	
7,900.00	7,043.71	6,623.34	6,178.43	36.31	40.01	67.92	1,781.58	-207.56	2,501.74	2,432.67	69.07	36.220	
8,000.00	7,044.23	6,626.23	6,181.09	38.52	40.03	67.99	1,782.70	-207.61	2,544.54	2,474.01	70.53	36.076	
8,100.00	7,044.75	6,748.11	7,254.31	40.80	58.87	94.74	2,257.47	-1,419.72	2,573.04	2,481.36	91.68	28.065	
8,200.00	7,045.26	8,848.11	7,254.83	43.15	60.48	94.74	2,259.58	-1,519.70	2,573.16	2,477.36	95.80	26.860	
8,300.00	7,045.78	8,948.11	7,255.35	45.54	62.17	94.74	2,261.70	-1,619.67	2,573.28	2,473.24	100.04	25.723	
8,400.00	7,046.30	9,048.11	7,255.87	47.97	63.92	94.74	2,263.82	-1,719.65	2,573.40	2,469.01	104.39	24.653	
8,500.00	7,046.82	9,148.11	7,256.39	50.44	65.74	94.74	2,265.93	-1,819.62	2,573.52	2,464.69	108.83	23.647	
8,600.00	7,047.34	9,248.11	7,256.91	52.94	67.62	94.74	2,268.05	-1,919.60	2,573.64	2,460.28	113.35	22.704	
8,700.00	7,047.86	9,348.11	7,257.42	55.46	69.55	94.74	2,270.16	-2,019.58	2,573.76	2,455.80	117.96	21.819	
8,800.00	7,048.37	9,448.11	7,257.94	58.00	71.53	94.74	2,272.28	-2,119.55	2,573.88	2,451.25	122.63	20.990	
8,900.00	7,048.89	9,548.11	7,258.46	60.56	73.56	94.74	2,274.40	-2,219.53	2,574.00	2,446.64	127.35	20.211	
9,000.00	7,049.41	9,648.11	7,258.98	63.13	75.64	94.74	2,276.51	-2,319.51	2,574.11	2,441.98	132.14	19.480	
9,100.00	7,049.93	9,748.11	7,259.50	65.72	77.75	94.74	2,278.63	-2,419.48	2,574.23	2,437.26	136.97	18.794	
9,200.00	7,050.45	9,848.11	7,260.02	68.32	79.90	94.74	2,280.75	-2,519.46	2,574.35	2,432.51	141.85	18.149	
9,300.00	7,050.97	9,948.10	7,260.54	70.93	82.08	94.74	2,282.86	-2,619.43	2,574.47	2,427.71	146.76	17.542	
9,400.00	7,051.48	10,048.10	7,261.06	73.55	84.30	94.74	2,284.98	-2,719.41	2,574.59	2,422.88	151.71	16.970	
9,500.00	7,052.00	10,148.10	7,261.58	76.18	86.54	94.74	2,287.10	-2,819.39	2,574.71	2,418.01	156.70	16.431	
9,600.00	7,052.52	10,248.10	7,262.10	78.81	88.81	94.74	2,289.21	-2,919.36	2,574.83	2,413.12	161.71	15.922	
9,700.00	7,053.04	10,348.10	7,262.62	81.46	91.11	94.74	2,291.33	-3,019.34	2,574.95	2,408.20	166.75	15.442	
9,800.00	7,053.56	10,448.10	7,263.14	84.10	93.43	94.74	2,293.44	-3,119.31	2,575.07	2,403.25	171.82	14.987	
9,900.00	7,054.08	10,548.10	7,263.66	86.76	95.77	94.74	2,295.56	-3,219.29	2,575.19	2,398.28	176.91	14.557	
10,000.00	7,054.59	10,648.10	7,264.18	89.42	98.13	94.74	2,297.68	-3,319.27	2,575.31	2,393.29	182.02	14.149	
10,100.00	7,055.11	10,748.10	7,264.70	92.08	100.51	94.74	2,299.79	-3,419.24	2,575.43	2,388.28	187.15	13.761	
10,200.00	7,055.63	10,848.10	7,265.22	94.75	102.91	94.73	2,301.91	-3,519.22	2,575.55	2,383.25	192.30	13.394	
10,300.00	7,056.15	10,948.10	7,265.73	97.42	105.32	94.73	2,304.03	-3,619.20	2,575.67	2,378.21	197.46	13.044	
10,400.00	7,056.67	11,048.10	7,266.25	100.10	107.75	94.73	2,306.14	-3,719.17	2,575.79	2,373.15	202.64	12.711	
10,500.00	7,057.18	11,148.10	7,266.77	102.78	110.19	94.73	2,308.26	-3,819.15	2,575.91	2,368.07	207.83	12.394	
10,600.00	7,057.70	11,248.10	7,267.29	105.46	112.65	94.73	2,310.37	-3,919.12	2,576.02	2,362.99	213.04	12.092	
10,700.00	7,058.22	11,348.10	7,267.81	108.14	115.12	94.73	2,312.49	-4,019.10	2,576.14	2,357.89	218.25	11.803	
10,800.00	7,058.74	11,448.10	7,268.33	110.83	117.60	94.73	2,314.61	-4,119.08	2,576.26	2,352.78	223.48	11.528	
10,900.00	7,059.26	11,548.10	7,268.85	113.52	120.09	94.73	2,316.72	-4,219.05	2,576.38	2,347.66	228.72	11.264	
11,000.00	7,059.78	11,648.10	7,269.37	116.21	122.59	94.73	2,318.84	-4,319.03	2,576.50	2,342.53	233.97	11.012	
11,100.00	7,060.29	11,748.10	7,269.89	118.90	125.10	94.73	2,320.96	-4,419.01	2,576.62	2,337.39	239.23	10.770	
11,200.00	7,060.81	11,848.10	7,270.41	121.60	127.62	94.73	2,323.07	-4,518.98	2,576.74	2,332.24	244.50	10.539	
11,300.00	7,061.33	11,948.10	7,270.93	124.30	130.15	94.73	2,325.19	-4,618.96	2,576.86	2,327.09	249.78	10.317	
11,400.00	7,061.85	12,048.10	7,271.45	127.00	132.69	94.73	2,327.31	-4,718.93	2,576.98	2,321.92	255.06	10.103	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,500.00	7,062.37	12,148.10	7,271.97	129.70	135.24	94.73	2,329.42	-4,818.91	2,577.10	2,316.75	260.35	9.899	
11,600.00	7,062.89	12,248.10	7,272.49	132.40	137.79	94.73	2,331.54	-4,918.89	2,577.22	2,311.57	265.65	9.702	
11,700.00	7,063.40	12,348.10	7,273.01	135.10	140.35	94.73	2,333.65	-5,018.86	2,577.34	2,306.39	270.95	9.512	
11,800.00	7,063.92	12,448.10	7,273.52	137.81	142.91	94.73	2,335.77	-5,118.84	2,577.46	2,301.20	276.26	9.330	
11,900.00	7,064.44	12,548.10	7,274.04	140.51	145.49	94.73	2,337.89	-5,218.81	2,577.58	2,296.00	281.57	9.154	
12,000.00	7,064.96	12,648.10	7,274.56	143.22	148.07	94.73	2,340.00	-5,318.79	2,577.70	2,290.80	286.89	8.985	
12,100.00	7,065.48	12,748.10	7,275.08	145.93	150.65	94.73	2,342.12	-5,418.77	2,577.82	2,285.60	292.22	8.822	
12,200.00	7,066.00	12,848.10	7,275.60	148.64	153.24	94.73	2,344.24	-5,518.74	2,577.94	2,280.39	297.55	8.664	
12,300.00	7,066.51	12,948.10	7,276.12	151.35	155.83	94.73	2,346.35	-5,618.72	2,578.05	2,275.17	302.88	8.512	
12,400.00	7,067.03	13,048.10	7,276.64	154.06	158.43	94.73	2,348.47	-5,718.70	2,578.17	2,269.95	308.22	8.365	
12,500.00	7,067.55	13,148.10	7,277.16	156.77	161.04	94.73	2,350.58	-5,818.67	2,578.29	2,264.73	313.57	8.222	
12,600.00	7,068.07	13,248.10	7,277.68	159.49	163.64	94.73	2,352.70	-5,918.65	2,578.41	2,259.50	318.91	8.085	
12,700.00	7,068.59	13,348.10	7,278.20	162.20	166.26	94.73	2,354.82	-6,018.62	2,578.53	2,254.27	324.26	7.952	
12,800.00	7,069.11	13,448.10	7,278.72	164.92	168.87	94.73	2,356.93	-6,118.60	2,578.65	2,249.03	329.62	7.823	
12,900.00	7,069.62	13,548.10	7,279.24	167.63	171.49	94.73	2,359.05	-6,218.58	2,578.77	2,243.80	334.97	7.698	
13,000.00	7,070.14	13,648.10	7,279.76	170.35	174.11	94.73	2,361.17	-6,318.55	2,578.89	2,238.56	340.34	7.578	
13,100.00	7,070.66	13,748.10	7,280.28	173.07	176.74	94.73	2,363.28	-6,418.53	2,579.01	2,233.31	345.70	7.460	
13,200.00	7,071.18	13,848.10	7,280.80	175.78	179.37	94.73	2,365.40	-6,518.51	2,579.13	2,228.06	351.07	7.347	
13,300.00	7,071.70	13,948.10	7,281.32	178.50	182.00	94.73	2,367.52	-6,618.48	2,579.25	2,222.81	356.43	7.236	
13,400.00	7,072.21	14,048.10	7,281.83	181.22	184.64	94.73	2,369.63	-6,718.46	2,579.37	2,217.56	361.81	7.129	
13,500.00	7,072.73	14,148.10	7,282.35	183.94	187.28	94.73	2,371.75	-6,818.43	2,579.49	2,212.31	367.18	7.025	
13,600.00	7,073.25	14,248.10	7,282.87	186.66	189.92	94.73	2,373.86	-6,918.41	2,579.61	2,207.05	372.56	6.924	
13,700.00	7,073.77	14,348.10	7,283.39	189.38	192.57	94.73	2,375.98	-7,018.39	2,579.73	2,201.79	377.94	6.826	
13,800.00	7,074.29	14,448.10	7,283.91	192.10	195.21	94.73	2,378.10	-7,118.36	2,579.85	2,196.53	383.32	6.730	
13,900.00	7,074.81	14,548.10	7,284.43	194.82	197.86	94.73	2,380.21	-7,218.34	2,579.97	2,191.26	388.70	6.637	
14,000.00	7,075.32	14,648.10	7,284.95	197.54	200.52	94.73	2,382.33	-7,318.31	2,580.08	2,186.00	394.09	6.547	
14,100.00	7,075.84	14,748.10	7,285.47	200.27	203.17	94.73	2,384.45	-7,418.29	2,580.20	2,180.73	399.47	6.459	
14,200.00	7,076.36	14,848.10	7,285.99	202.99	205.83	94.73	2,386.56	-7,518.27	2,580.32	2,175.46	404.86	6.373	
14,300.00	7,076.88	14,948.10	7,286.51	205.71	208.48	94.73	2,388.68	-7,618.24	2,580.44	2,170.19	410.25	6.290	
14,400.00	7,077.40	15,048.10	7,287.03	208.44	211.15	94.73	2,390.79	-7,718.22	2,580.56	2,164.92	415.65	6.209	
14,500.00	7,077.92	15,148.10	7,287.55	211.16	213.81	94.73	2,392.91	-7,818.20	2,580.68	2,159.64	421.04	6.129	
14,600.00	7,078.43	15,248.10	7,288.07	213.88	216.47	94.73	2,395.03	-7,918.17	2,580.80	2,154.36	426.44	6.052	
14,700.00	7,078.95	15,348.10	7,288.59	216.61	219.14	94.73	2,397.14	-8,018.15	2,580.92	2,149.09	431.83	5.977	
14,800.00	7,079.47	15,448.10	7,289.11	219.33	221.81	94.73	2,399.26	-8,118.12	2,581.04	2,143.81	437.23	5.903	
14,900.00	7,079.99	15,548.10	7,289.62	222.06	224.48	94.73	2,401.38	-8,218.10	2,581.16	2,138.52	442.63	5.831	
15,000.00	7,080.51	15,648.10	7,290.14	224.78	227.15	94.73	2,403.49	-8,318.08	2,581.28	2,133.24	448.04	5.761	
15,100.00	7,081.03	15,748.10	7,290.66	227.51	229.82	94.73	2,405.61	-8,418.05	2,581.40	2,127.96	453.44	5.693	
15,200.00	7,081.54	15,848.10	7,291.18	230.24	232.49	94.73	2,407.73	-8,518.03	2,581.52	2,122.67	458.84	5.626	
15,300.00	7,082.06	15,948.10	7,291.70	232.96	235.17	94.73	2,409.84	-8,618.01	2,581.64	2,117.39	464.25	5.561	
15,400.00	7,082.58	16,048.10	7,292.22	235.69	237.85	94.72	2,411.96	-8,717.98	2,581.76	2,112.10	469.66	5.497	
15,500.00	7,083.10	16,148.10	7,292.74	238.41	240.52	94.72	2,414.07	-8,817.96	2,581.88	2,106.81	475.07	5.435	
15,600.00	7,083.62	16,248.10	7,293.26	241.14	243.20	94.72	2,416.19	-8,917.93	2,581.99	2,101.52	480.47	5.374	
15,700.00	7,084.13	16,348.10	7,293.78	243.87	245.89	94.72	2,418.31	-9,017.91	2,582.11	2,096.23	485.88	5.314	
15,800.00	7,084.65	16,448.10	7,294.30	246.60	248.57	94.72	2,420.42	-9,117.89	2,582.23	2,090.94	491.30	5.256	
15,900.00	7,085.17	16,548.10	7,294.82	249.32	251.25	94.72	2,422.54	-9,217.86	2,582.35	2,085.64	496.71	5.199	
16,000.00	7,085.69	16,648.10	7,295.34	252.05	253.94	94.72	2,424.66	-9,317.84	2,582.47	2,080.35	502.12	5.143	
16,100.00	7,086.21	16,748.10	7,295.86	254.78	256.62	94.72	2,426.77	-9,417.81	2,582.59	2,075.06	507.54	5.088	
16,200.00	7,086.73	16,848.10	7,296.38	257.51	259.31	94.72	2,428.89	-9,517.79	2,582.71	2,069.76	512.95	5.035	
16,300.00	7,087.24	16,948.10	7,296.90	260.24	262.00	94.72	2,431.00	-9,617.77	2,582.83	2,064.46	518.37	4.983	
16,400.00	7,087.76	17,048.10	7,297.41	262.97	264.69	94.72	2,433.12	-9,717.74	2,582.95	2,059.17	523.78	4.931	
16,500.00	7,088.28	17,148.10	7,297.93	265.69	267.38	94.72	2,435.24	-9,817.72	2,583.07	2,053.87	529.20	4.881	
16,600.00	7,088.80	17,248.10	7,298.45	268.42	270.07	94.72	2,437.35	-9,917.70	2,583.19	2,048.57	534.62	4.832	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program:		0-MWD						Rule Assigned:				Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,700.00	7,089.32	17,348.10	7,298.97	271.15	272.76	94.72	2,439.47	-10,017.67	2,583.31	2,043.27	540.04	4.784		
16,800.00	7,089.84	17,448.10	7,299.49	273.88	275.45	94.72	2,441.59	-10,117.65	2,583.43	2,037.97	545.46	4.736		
16,900.00	7,090.35	17,548.10	7,300.01	276.61	278.14	94.72	2,443.70	-10,217.62	2,583.55	2,032.67	550.88	4.690		
17,000.00	7,090.87	17,648.10	7,300.53	279.34	280.84	94.72	2,445.82	-10,317.60	2,583.67	2,027.36	556.30	4.644		
17,024.65	7,091.00	17,672.75	7,300.66	280.01	281.50	94.72	2,446.34	-10,342.24	2,583.70	2,026.06	557.64	4.633 SF		

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	44.46	58.85	57.76	82.46				
100.00	100.00	100.00	100.00	0.48	0.48	44.46	58.85	57.76	82.46	81.49	0.97	85.434	CC
200.00	200.00	198.21	198.19	1.28	1.81	43.55	60.52	57.54	83.53	80.73	2.80	29.838	ES
300.00	300.00	296.19	296.04	1.77	3.13	40.98	65.52	56.90	86.87	82.63	4.24	20.500	
400.00	400.00	393.71	393.20	2.15	4.08	37.13	73.78	55.85	92.78	87.34	5.44	17.060	
500.00	500.00	490.56	489.35	2.48	4.88	32.54	85.22	54.39	101.66	95.10	6.56	15.501	
600.00	600.00	586.51	584.18	2.77	5.59	27.78	99.73	52.53	113.83	106.20	7.63	14.925	
700.00	700.00	681.38	677.40	3.03	6.24	23.23	117.17	50.30	129.50	120.86	8.64	14.987	
800.00	800.00	774.97	768.74	3.28	6.85	19.16	137.36	47.72	148.74	139.15	9.59	15.505	
900.00	900.00	867.12	857.98	3.51	7.42	15.63	160.13	44.81	171.50	161.02	10.48	16.364	
1,000.00	999.98	957.27	944.53	3.78	7.97	161.49	185.14	41.61	199.28	187.95	11.33	17.585	
1,083.35	1,083.22	1,030.34	1,014.07	4.28	8.40	159.54	207.39	38.77	227.26	215.03	12.22	18.590	
1,100.00	1,099.84	1,044.71	1,027.68	4.29	8.48	159.24	211.97	38.19	233.31	220.98	12.33	18.926	
1,200.00	1,199.64	1,131.43	1,109.32	4.47	8.90	157.62	240.99	34.48	271.24	258.32	12.92	20.989	
1,300.00	1,299.43	1,223.34	1,195.55	4.70	9.20	156.28	272.51	30.45	310.14	296.67	13.47	23.026	
1,400.00	1,399.23	1,315.25	1,281.79	4.95	9.51	155.23	304.03	26.42	349.16	335.11	14.05	24.859	
1,500.00	1,499.02	1,407.15	1,368.03	5.20	9.85	154.39	335.55	22.39	388.25	373.61	14.64	26.516	
1,600.00	1,598.82	1,499.06	1,454.27	5.47	10.19	153.71	367.07	18.36	427.40	412.15	15.26	28.016	
1,700.00	1,698.61	1,590.97	1,540.51	5.75	10.55	153.14	398.60	14.33	466.60	450.71	15.89	29.372	
1,800.00	1,798.41	1,682.88	1,626.75	6.04	10.91	152.66	430.12	10.30	505.83	489.30	16.53	30.600	
1,900.00	1,898.20	1,774.78	1,712.99	6.34	11.28	152.25	461.64	6.27	545.08	527.89	17.19	31.714	
2,000.00	1,998.00	1,866.69	1,799.23	6.64	11.67	151.89	493.16	2.24	584.36	566.50	17.86	32.727	
2,100.00	2,097.79	1,958.60	1,885.47	6.94	12.05	151.58	524.68	-1.79	623.65	605.11	18.53	33.648	
2,200.00	2,197.59	2,050.51	1,971.71	7.26	12.45	151.30	556.21	-5.82	662.95	643.73	19.22	34.488	
2,300.00	2,297.38	2,142.42	2,057.94	7.57	12.85	151.06	587.73	-9.84	702.27	682.35	19.92	35.256	
2,400.00	2,397.18	2,234.32	2,144.18	7.89	13.26	150.84	619.25	-13.87	741.60	720.97	20.62	35.959	
2,500.00	2,496.97	2,326.23	2,230.42	8.22	13.67	150.65	650.77	-17.90	780.93	759.60	21.33	36.604	
2,600.00	2,596.77	2,418.14	2,316.66	8.54	14.08	150.47	682.29	-21.93	820.27	798.22	22.05	37.197	
2,700.00	2,696.57	2,510.05	2,402.90	8.87	14.50	150.31	713.82	-25.96	859.62	836.84	22.78	37.743	
2,800.00	2,796.36	2,601.95	2,489.14	9.21	14.93	150.16	745.34	-29.99	898.97	875.47	23.50	38.248	
2,900.00	2,896.16	2,693.86	2,575.38	9.54	15.35	150.03	776.86	-34.02	938.33	914.09	24.24	38.714	
3,000.00	2,995.95	2,785.77	2,661.62	9.87	15.78	149.90	808.38	-38.05	977.69	952.72	24.98	39.147	
3,100.00	3,095.75	2,877.68	2,747.86	10.21	16.22	149.79	839.90	-42.08	1,017.06	991.34	25.72	39.548	
3,200.00	3,195.54	2,969.59	2,834.10	10.55	16.65	149.68	871.43	-46.11	1,056.43	1,029.96	26.46	39.921	
3,300.00	3,295.34	3,061.49	2,920.33	10.89	17.09	149.58	902.95	-50.14	1,095.80	1,068.58	27.21	40.270	
3,400.00	3,395.13	3,153.40	3,006.57	11.23	17.53	149.49	934.47	-54.16	1,135.17	1,107.21	27.96	40.595	
3,500.00	3,494.93	3,245.31	3,092.81	11.58	17.98	149.41	965.99	-58.19	1,174.55	1,145.83	28.72	40.898	
3,600.00	3,594.72	3,337.22	3,179.05	11.92	18.42	149.33	997.51	-62.22	1,213.92	1,184.45	29.48	41.183	
3,700.00	3,694.52	3,429.12	3,265.29	12.26	18.87	149.25	1,029.04	-66.25	1,253.30	1,223.07	30.24	41.450	
3,800.00	3,794.31	3,521.03	3,351.53	12.61	19.32	149.18	1,060.56	-70.28	1,292.69	1,261.69	31.00	41.701	
3,900.00	3,894.11	3,612.94	3,437.77	12.96	19.77	149.12	1,092.08	-74.31	1,332.07	1,300.30	31.76	41.936	
4,000.00	3,993.90	3,704.85	3,524.01	13.30	20.22	149.05	1,123.60	-78.34	1,371.45	1,338.92	32.53	42.159	
4,100.00	4,093.70	3,796.76	3,610.25	13.65	20.67	148.99	1,155.12	-82.37	1,410.84	1,377.54	33.30	42.368	
4,200.00	4,193.49	3,888.66	3,696.49	14.00	21.13	148.94	1,186.65	-86.40	1,450.23	1,416.16	34.07	42.566	
4,300.00	4,293.29	3,980.57	3,782.72	14.35	21.59	148.89	1,218.17	-90.43	1,489.61	1,454.77	34.84	42.752	
4,400.00	4,393.08	4,072.48	3,868.96	14.70	22.05	148.84	1,249.69	-94.46	1,529.00	1,493.39	35.62	42.929	
4,500.00	4,492.88	4,164.39	3,955.20	15.05	22.52	148.79	1,281.21	-98.48	1,568.39	1,532.00	36.39	43.097	
4,600.00	4,592.68	4,256.29	4,041.44	15.40	23.01	148.74	1,312.73	-102.51	1,607.78	1,570.61	37.17	43.255	
4,700.00	4,692.47	4,348.20	4,127.68	15.75	23.53	148.70	1,344.26	-106.54	1,647.18	1,609.23	37.95	43.406	
4,800.00	4,792.27	4,440.11	4,213.92	16.10	24.06	148.66	1,375.78	-110.57	1,686.57	1,647.84	38.73	43.550	
4,900.00	4,892.06	4,532.02	4,300.16	16.45	24.60	148.62	1,407.30	-114.60	1,725.96	1,686.45	39.51	43.686	
5,000.00	4,991.86	4,623.93	4,386.40	16.81	25.14	148.58	1,438.82	-118.63	1,765.35	1,725.06	40.29	43.816	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,715.83	4,472.64	17.16	25.68	148.55	1,470.34	-122.66	1,804.75	1,763.68	41.07	43.939	
5,200.00	5,191.45	4,807.74	4,558.88	17.51	26.22	148.51	1,501.87	-126.69	1,844.14	1,802.29	41.86	44.057	
5,300.00	5,291.24	4,899.65	4,645.12	17.87	26.77	148.48	1,533.39	-130.72	1,883.54	1,840.90	42.64	44.169	
5,400.00	5,391.04	4,991.56	4,731.35	18.22	27.31	148.45	1,564.91	-134.75	1,922.94	1,879.51	43.43	44.277	
5,500.00	5,490.83	5,083.46	4,817.59	18.57	27.85	148.42	1,596.43	-138.78	1,962.33	1,918.11	44.22	44.379	
5,600.00	5,590.63	5,175.37	4,903.83	18.93	28.39	148.39	1,627.95	-142.80	2,001.73	1,956.72	45.01	44.477	
5,700.00	5,690.42	5,267.28	4,990.07	19.28	28.94	148.36	1,659.48	-146.83	2,041.13	1,995.33	45.79	44.571	
5,800.00	5,790.22	5,359.19	5,076.31	19.64	29.48	148.34	1,691.00	-150.86	2,080.52	2,033.94	46.58	44.661	
5,900.00	5,890.01	5,451.10	5,162.55	19.99	30.02	148.31	1,722.52	-154.89	2,119.92	2,072.55	47.38	44.747	
6,000.00	5,989.81	5,543.00	5,248.79	20.35	30.57	148.28	1,754.04	-158.92	2,159.32	2,111.15	48.17	44.829	
6,100.00	6,089.60	5,634.91	5,335.03	20.70	31.11	148.26	1,785.56	-162.95	2,198.72	2,149.76	48.96	44.909	
6,200.00	6,189.40	5,726.82	5,421.27	21.06	31.65	148.24	1,817.09	-166.98	2,238.12	2,188.36	49.75	44.984	
6,300.00	6,289.19	5,818.73	5,507.51	21.41	32.20	148.22	1,848.61	-171.01	2,277.52	2,226.97	50.55	45.057	
6,400.00	6,388.99	5,910.63	5,593.74	21.77	32.74	148.19	1,880.13	-175.04	2,316.92	2,265.58	51.34	45.127	
6,498.43	6,487.22	6,001.10	5,678.63	22.12	33.27	148.17	1,911.16	-179.00	2,355.70	2,303.58	52.12	45.194	
6,500.00	6,488.79	6,002.54	5,679.98	22.12	33.28	146.03	1,911.65	-179.07	2,356.32	2,304.18	52.14	45.196	
6,550.00	6,538.54	6,048.48	5,723.09	22.32	33.55	110.49	1,927.41	-181.08	2,375.92	2,323.37	52.55	45.216	
6,600.00	6,587.76	6,094.15	5,765.94	22.59	33.82	99.00	1,943.07	-183.08	2,395.25	2,342.27	52.98	45.211	
6,650.00	6,636.08	6,139.21	5,808.22	22.84	34.09	93.03	1,958.53	-185.06	2,414.19	2,360.84	53.35	45.251	
6,700.00	6,683.13	6,183.31	5,849.60	23.07	34.35	89.09	1,973.65	-186.99	2,432.66	2,378.94	53.71	45.289	
6,750.00	6,728.55	6,226.12	5,889.77	23.29	34.60	86.17	1,988.33	-188.87	2,450.58	2,396.50	54.08	45.312	
6,800.00	6,771.99	6,267.30	5,928.42	23.51	34.85	83.85	2,002.46	-190.67	2,467.91	2,413.44	54.46	45.314	
6,850.00	6,813.13	6,306.56	5,965.25	23.72	35.08	81.95	2,015.92	-192.39	2,484.61	2,429.75	54.86	45.292	
6,900.00	6,851.64	6,343.58	5,999.99	23.94	35.30	80.33	2,028.62	-194.02	2,500.68	2,445.41	55.27	45.241	
6,950.00	6,887.25	6,378.09	6,032.37	24.16	35.50	78.93	2,040.46	-195.53	2,516.11	2,460.39	55.72	45.158	
7,000.00	6,919.67	6,409.83	6,062.15	24.38	35.69	77.69	2,051.34	-196.92	2,530.89	2,474.70	56.19	45.040	
7,050.00	6,948.65	6,438.54	6,089.09	24.62	35.86	76.58	2,061.19	-198.18	2,545.05	2,488.35	56.70	44.885	
7,100.00	6,973.99	6,464.02	6,113.00	24.88	36.01	75.55	2,069.93	-199.30	2,558.58	2,501.33	57.25	44.692	
7,150.00	6,995.49	6,486.07	6,133.69	25.18	36.14	74.59	2,077.49	-200.26	2,571.49	2,513.66	57.84	44.462	
7,200.00	7,012.97	6,504.53	6,151.01	25.51	36.25	73.67	2,083.82	-201.07	2,583.80	2,525.34	58.46	44.198	
7,250.00	7,026.32	6,519.24	6,164.82	25.89	36.34	72.79	2,088.87	-201.72	2,595.48	2,536.36	59.12	43.905	
7,300.00	7,035.43	6,530.11	6,175.01	26.33	36.40	71.91	2,092.59	-202.19	2,606.52	2,546.72	59.80	43.589	
7,350.00	7,040.22	6,537.04	6,181.52	26.84	36.44	71.06	2,094.97	-202.50	2,616.90	2,556.40	60.50	43.258	
7,377.14	7,041.00	6,539.14	6,183.48	27.14	36.46	70.59	2,095.69	-202.59	2,622.24	2,561.37	60.87	43.078	
7,400.00	7,041.12	6,540.41	6,184.67	27.41	36.46	70.62	2,096.13	-202.65	2,626.74	2,565.56	61.19	42.930	
7,500.00	7,041.64	6,545.96	6,189.89	28.77	36.50	70.75	2,098.03	-202.89	2,648.68	2,586.04	62.64	42.285	
7,600.00	7,042.16	6,551.52	6,195.10	30.39	36.53	70.87	2,099.94	-203.13	2,674.16	2,609.99	64.16	41.677	
7,700.00	7,042.67	6,557.07	6,200.31	32.22	36.56	70.99	2,101.84	-203.38	2,703.09	2,637.36	65.73	41.124	
7,800.00	7,043.19	6,562.62	6,205.52	34.20	36.59	71.12	2,103.75	-203.62	2,735.36	2,668.05	67.32	40.635	
7,900.00	7,043.71	8,217.37	7,051.25	36.31	52.88	90.16	2,431.65	-1,217.06	2,742.44	2,657.86	84.58	32.424	
8,000.00	7,044.23	8,317.37	7,051.77	38.52	54.55	90.16	2,433.76	-1,317.03	2,742.56	2,654.04	88.52	30.982	
8,100.00	7,044.75	8,417.37	7,052.29	40.80	56.29	90.16	2,435.88	-1,417.01	2,742.68	2,650.08	92.61	29.616	
8,200.00	7,045.26	8,517.37	7,052.81	43.15	58.10	90.16	2,438.00	-1,516.98	2,742.80	2,645.98	96.83	28.327	
8,300.00	7,045.78	8,617.37	7,053.32	45.54	59.97	90.16	2,440.11	-1,616.96	2,742.92	2,641.76	101.16	27.115	
8,400.00	7,046.30	8,717.37	7,053.84	47.97	61.90	90.16	2,442.23	-1,716.94	2,743.04	2,637.45	105.59	25.977	
8,500.00	7,046.82	8,817.37	7,054.36	50.44	63.88	90.16	2,444.34	-1,816.91	2,743.16	2,633.05	110.12	24.911	
8,600.00	7,047.34	8,917.37	7,054.88	52.94	65.90	90.16	2,446.46	-1,916.89	2,743.28	2,628.56	114.72	23.913	
8,700.00	7,047.86	9,017.37	7,055.40	55.46	67.98	90.16	2,448.58	-2,016.86	2,743.40	2,624.01	119.39	22.978	
8,800.00	7,048.37	9,117.37	7,055.92	58.00	70.09	90.16	2,450.69	-2,116.84	2,743.52	2,619.39	124.13	22.102	
8,900.00	7,048.89	9,217.37	7,056.44	60.56	72.24	90.16	2,452.81	-2,216.82	2,743.64	2,614.72	128.92	21.281	
9,000.00	7,049.41	9,317.37	7,056.96	63.13	74.43	90.16	2,454.93	-2,316.79	2,743.76	2,610.00	133.77	20.512	
9,100.00	7,049.93	9,417.37	7,057.48	65.72	76.65	90.16	2,457.04	-2,416.77	2,743.88	2,605.23	138.65	19.789	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HNB-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,050.45	9,517.37	7,058.00	68.32	78.90	90.16	2,459.16	-2,516.75	2,744.00	2,600.42	143.58	19.111	
9,300.00	7,050.97	9,617.37	7,058.52	70.93	81.17	90.16	2,461.27	-2,616.72	2,744.12	2,595.57	148.55	18.473	
9,400.00	7,051.48	9,717.37	7,059.04	73.55	83.48	90.16	2,463.39	-2,716.70	2,744.24	2,590.69	153.55	17.872	
9,500.00	7,052.00	9,817.37	7,059.56	76.18	85.81	90.16	2,465.51	-2,816.67	2,744.36	2,585.78	158.58	17.306	
9,600.00	7,052.52	9,917.37	7,060.08	78.81	88.15	90.16	2,467.62	-2,916.65	2,744.48	2,580.84	163.64	16.772	
9,700.00	7,053.04	10,017.37	7,060.60	81.46	90.52	90.16	2,469.74	-3,016.63	2,744.60	2,575.88	168.72	16.267	
9,800.00	7,053.56	10,117.37	7,061.11	84.10	92.91	90.16	2,471.86	-3,116.60	2,744.72	2,570.89	173.83	15.790	
9,900.00	7,054.08	10,217.37	7,061.63	86.76	95.32	90.16	2,473.97	-3,216.58	2,744.84	2,565.88	178.96	15.338	
10,000.00	7,054.59	10,317.37	7,062.15	89.42	97.74	90.16	2,476.09	-3,316.56	2,744.96	2,560.85	184.11	14.910	
10,100.00	7,055.11	10,417.37	7,062.67	92.08	100.18	90.16	2,478.21	-3,416.53	2,745.08	2,555.81	189.27	14.503	
10,200.00	7,055.63	10,517.37	7,063.19	94.75	102.63	90.16	2,480.32	-3,516.51	2,745.20	2,550.75	194.45	14.117	
10,300.00	7,056.15	10,617.37	7,063.71	97.42	105.10	90.16	2,482.44	-3,616.48	2,745.32	2,545.67	199.65	13.751	
10,400.00	7,056.67	10,717.37	7,064.23	100.10	107.58	90.16	2,484.55	-3,716.46	2,745.44	2,540.57	204.86	13.401	
10,500.00	7,057.18	10,817.37	7,064.75	102.78	110.07	90.16	2,486.67	-3,816.44	2,745.56	2,535.47	210.09	13.069	
10,600.00	7,057.70	10,917.37	7,065.27	105.46	112.57	90.16	2,488.79	-3,916.41	2,745.68	2,530.35	215.33	12.751	
10,700.00	7,058.22	11,017.37	7,065.79	108.14	115.08	90.16	2,490.90	-4,016.39	2,745.80	2,525.22	220.57	12.448	
10,800.00	7,058.74	11,117.37	7,066.31	110.83	117.61	90.16	2,493.02	-4,116.36	2,745.92	2,520.08	225.83	12.159	
10,900.00	7,059.26	11,217.37	7,066.83	113.52	120.14	90.16	2,495.14	-4,216.34	2,746.04	2,514.93	231.10	11.882	
11,000.00	7,059.78	11,317.37	7,067.35	116.21	122.68	90.16	2,497.25	-4,316.32	2,746.16	2,509.78	236.38	11.617	
11,100.00	7,060.29	11,417.37	7,067.87	118.90	125.22	90.16	2,499.37	-4,416.29	2,746.28	2,504.61	241.67	11.364	
11,200.00	7,060.81	11,517.37	7,068.39	121.60	127.78	90.16	2,501.49	-4,516.27	2,746.40	2,499.43	246.96	11.121	
11,300.00	7,061.33	11,617.37	7,068.91	124.30	130.34	90.16	2,503.60	-4,616.25	2,746.52	2,494.25	252.27	10.887	
11,400.00	7,061.85	11,717.37	7,069.42	127.00	132.91	90.16	2,505.72	-4,716.22	2,746.64	2,489.06	257.58	10.663	
11,500.00	7,062.37	11,817.37	7,069.94	129.70	135.49	90.16	2,507.83	-4,816.20	2,746.76	2,483.86	262.89	10.448	
11,600.00	7,062.89	11,917.37	7,070.46	132.40	138.07	90.16	2,509.95	-4,916.17	2,746.88	2,478.66	268.22	10.241	
11,700.00	7,063.40	12,017.37	7,070.98	135.10	140.66	90.16	2,512.07	-5,016.15	2,747.00	2,473.45	273.55	10.042	
11,800.00	7,063.92	12,117.37	7,071.50	137.81	143.25	90.16	2,514.18	-5,116.13	2,747.11	2,468.23	278.88	9.851	
11,900.00	7,064.44	12,217.37	7,072.02	140.51	145.85	90.16	2,516.30	-5,216.10	2,747.23	2,463.01	284.22	9.666	
12,000.00	7,064.96	12,317.37	7,072.54	143.22	148.45	90.16	2,518.42	-5,316.08	2,747.35	2,457.79	289.56	9.488	
12,100.00	7,065.48	12,417.37	7,073.06	145.93	151.06	90.16	2,520.53	-5,416.05	2,747.47	2,452.56	294.91	9.316	
12,200.00	7,066.00	12,517.37	7,073.58	148.64	153.67	90.16	2,522.65	-5,516.03	2,747.59	2,447.33	300.27	9.150	
12,300.00	7,066.51	12,617.37	7,074.10	151.35	156.29	90.16	2,524.77	-5,616.01	2,747.71	2,442.09	305.63	8.990	
12,400.00	7,067.03	12,717.37	7,074.62	154.06	158.91	90.16	2,526.88	-5,715.98	2,747.83	2,436.84	310.99	8.836	
12,500.00	7,067.55	12,817.37	7,075.14	156.77	161.53	90.16	2,529.00	-5,815.96	2,747.95	2,431.60	316.36	8.686	
12,600.00	7,068.07	12,917.37	7,075.66	159.49	164.16	90.16	2,531.11	-5,915.94	2,748.07	2,426.35	321.73	8.542	
12,700.00	7,068.59	13,017.37	7,076.18	162.20	166.79	90.16	2,533.23	-6,015.91	2,748.19	2,421.09	327.10	8.402	
12,800.00	7,069.11	13,117.37	7,076.70	164.92	169.42	90.16	2,535.35	-6,115.89	2,748.31	2,415.84	332.48	8.266	
12,900.00	7,069.62	13,217.37	7,077.21	167.63	172.06	90.16	2,537.46	-6,215.86	2,748.43	2,410.58	337.85	8.135	
13,000.00	7,070.14	13,317.37	7,077.73	170.35	174.70	90.16	2,539.58	-6,315.84	2,748.55	2,405.31	343.24	8.008	
13,100.00	7,070.66	13,417.37	7,078.25	173.07	177.35	90.16	2,541.70	-6,415.82	2,748.67	2,400.05	348.62	7.884	
13,200.00	7,071.18	13,517.37	7,078.77	175.78	179.99	90.16	2,543.81	-6,515.79	2,748.79	2,394.78	354.01	7.765	
13,300.00	7,071.70	13,617.37	7,079.29	178.50	182.64	90.16	2,545.93	-6,615.77	2,748.91	2,389.51	359.40	7.649	
13,400.00	7,072.21	13,717.37	7,079.81	181.22	185.29	90.16	2,548.04	-6,715.75	2,749.03	2,384.23	364.80	7.536	
13,500.00	7,072.73	13,817.37	7,080.33	183.94	187.95	90.16	2,550.16	-6,815.72	2,749.15	2,378.96	370.19	7.426	
13,600.00	7,073.25	13,917.37	7,080.85	186.66	190.60	90.16	2,552.28	-6,915.70	2,749.27	2,373.68	375.59	7.320	
13,700.00	7,073.77	14,017.37	7,081.37	189.38	193.26	90.16	2,554.39	-7,015.67	2,749.39	2,368.40	380.99	7.216	
13,800.00	7,074.29	14,117.37	7,081.89	192.10	195.92	90.16	2,556.51	-7,115.65	2,749.51	2,363.12	386.39	7.116	
13,900.00	7,074.81	14,217.37	7,082.41	194.82	198.58	90.16	2,558.63	-7,215.63	2,749.63	2,357.83	391.80	7.018	
14,000.00	7,075.32	14,317.37	7,082.93	197.54	201.25	90.16	2,560.74	-7,315.60	2,749.75	2,352.54	397.20	6.923	
14,100.00	7,075.84	14,417.37	7,083.45	200.27	203.92	90.16	2,562.86	-7,415.58	2,749.87	2,347.26	402.61	6.830	
14,200.00	7,076.36	14,517.37	7,083.97	202.99	206.58	90.16	2,564.98	-7,515.55	2,749.99	2,341.97	408.02	6.740	
14,300.00	7,076.88	14,617.37	7,084.49	205.71	209.25	90.16	2,567.09	-7,615.53	2,750.11	2,336.67	413.43	6.652	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,400.00	7,077.40	14,717.37	7,085.01	208.44	211.93	90.16	2,569.21	-7,715.51	2,750.23	2,331.38	418.85	6.566	
14,500.00	7,077.92	14,817.37	7,085.52	211.16	214.60	90.16	2,571.32	-7,815.48	2,750.35	2,326.08	424.26	6.483	
14,600.00	7,078.43	14,917.37	7,086.04	213.88	217.27	90.16	2,573.44	-7,915.46	2,750.47	2,320.79	429.68	6.401	
14,700.00	7,078.95	15,017.37	7,086.56	216.61	219.95	90.16	2,575.56	-8,015.44	2,750.59	2,315.49	435.10	6.322	
14,800.00	7,079.47	15,117.37	7,087.08	219.33	222.63	90.16	2,577.67	-8,115.41	2,750.71	2,310.19	440.52	6.244	
14,900.00	7,079.99	15,217.37	7,087.60	222.06	225.31	90.16	2,579.79	-8,215.39	2,750.83	2,304.89	445.94	6.169	
15,000.00	7,080.51	15,317.37	7,088.12	224.78	227.99	90.16	2,581.91	-8,315.36	2,750.95	2,299.59	451.36	6.095	
15,100.00	7,081.03	15,417.37	7,088.64	227.51	230.67	90.16	2,584.02	-8,415.34	2,751.07	2,294.28	456.78	6.023	
15,200.00	7,081.54	15,517.37	7,089.16	230.24	233.36	90.16	2,586.14	-8,515.32	2,751.19	2,288.98	462.21	5.952	
15,300.00	7,082.06	15,617.37	7,089.68	232.96	236.04	90.16	2,588.26	-8,615.29	2,751.31	2,283.67	467.63	5.883	
15,400.00	7,082.58	15,717.37	7,090.20	235.69	238.73	90.16	2,590.37	-8,715.27	2,751.43	2,278.37	473.06	5.816	
15,500.00	7,083.10	15,817.37	7,090.72	238.41	241.41	90.16	2,592.49	-8,815.25	2,751.55	2,273.06	478.49	5.750	
15,600.00	7,083.62	15,917.37	7,091.24	241.14	244.10	90.16	2,594.60	-8,915.22	2,751.67	2,267.75	483.92	5.686	
15,700.00	7,084.13	16,017.37	7,091.76	243.87	246.79	90.16	2,596.72	-9,015.20	2,751.78	2,262.44	489.35	5.623	
15,800.00	7,084.65	16,117.37	7,092.28	246.60	249.48	90.16	2,598.84	-9,115.17	2,751.90	2,257.13	494.78	5.562	
15,900.00	7,085.17	16,217.37	7,092.80	249.32	252.17	90.16	2,600.95	-9,215.15	2,752.02	2,251.81	500.21	5.502	
16,000.00	7,085.69	16,317.37	7,093.31	252.05	254.86	90.16	2,603.07	-9,315.13	2,752.14	2,246.50	505.64	5.443	
16,100.00	7,086.21	16,417.37	7,093.83	254.78	257.56	90.16	2,605.19	-9,415.10	2,752.26	2,241.19	511.08	5.385	
16,200.00	7,086.73	16,517.37	7,094.35	257.51	260.25	90.16	2,607.30	-9,515.08	2,752.38	2,235.87	516.51	5.329	
16,300.00	7,087.24	16,617.37	7,094.87	260.24	262.95	90.16	2,609.42	-9,615.05	2,752.50	2,230.56	521.95	5.274	
16,400.00	7,087.76	16,717.37	7,095.39	262.97	265.64	90.16	2,611.53	-9,715.03	2,752.62	2,225.24	527.38	5.219	
16,500.00	7,088.28	16,817.37	7,095.91	265.69	268.34	90.16	2,613.65	-9,815.01	2,752.74	2,219.92	532.82	5.166	
16,600.00	7,088.80	16,917.37	7,096.43	268.42	271.04	90.16	2,615.77	-9,914.98	2,752.86	2,214.60	538.26	5.114	
16,700.00	7,089.32	17,017.37	7,096.95	271.15	273.73	90.16	2,617.88	-10,014.96	2,752.98	2,209.28	543.70	5.063	
16,800.00	7,089.84	17,117.37	7,097.47	273.88	276.43	90.16	2,620.00	-10,114.94	2,753.10	2,203.96	549.14	5.014	
16,900.00	7,090.35	17,217.37	7,097.99	276.61	279.13	90.16	2,622.12	-10,214.91	2,753.22	2,198.64	554.58	4.965	
17,000.00	7,090.87	17,317.37	7,098.51	279.34	281.83	90.16	2,624.23	-10,314.89	2,753.34	2,193.32	560.02	4.917	
17,024.65	7,091.00	17,342.01	7,098.64	280.01	282.50	90.16	2,624.75	-10,339.53	2,753.37	2,192.01	561.36	4.905 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HNC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	38.56	55.08	43.91	70.43				
100.00	100.00	100.00	100.00	0.48	0.48	38.56	55.08	43.91	70.43	69.47	0.97	72.975	
200.00	200.00	200.00	200.00	1.28	1.28	38.56	55.08	43.91	70.43	67.87	2.56	27.464	
300.00	300.00	300.00	300.00	1.77	1.77	38.56	55.08	43.91	70.43	66.90	3.54	19.913	CC, ES
400.00	400.00	398.30	398.28	2.15	2.52	37.58	56.75	43.67	71.63	67.13	4.50	15.932	
500.00	500.00	496.36	496.21	2.48	3.60	34.84	61.74	42.98	75.32	69.71	5.61	13.429	
600.00	600.00	593.97	593.46	2.77	4.45	30.86	70.00	41.82	81.81	75.16	6.65	12.306	
700.00	700.00	690.90	689.69	3.03	5.20	26.29	81.45	40.23	91.43	83.77	7.65	11.945	
800.00	800.00	786.93	784.59	3.28	5.87	21.71	95.96	38.20	104.43	95.81	8.63	12.107	
900.00	900.00	881.88	877.89	3.51	6.49	17.51	113.40	35.77	120.95	111.40	9.55	12.665	
1,000.00	999.98	975.22	968.99	3.78	7.08	162.79	133.52	32.97	142.61	132.16	10.45	13.652	
1,083.35	1,083.22	1,051.28	1,042.70	4.28	7.54	160.51	152.08	30.38	165.65	154.27	11.38	14.556	
1,100.00	1,099.84	1,066.27	1,057.16	4.29	7.63	160.16	155.97	29.84	170.74	159.25	11.49	14.862	
1,200.00	1,199.64	1,155.19	1,142.55	4.47	8.11	158.25	180.56	26.41	203.03	190.89	12.14	16.723	
1,300.00	1,299.43	1,246.66	1,229.72	4.70	8.44	156.66	207.98	22.59	237.69	224.98	12.70	18.710	
1,400.00	1,399.23	1,340.21	1,318.83	4.95	8.74	155.43	236.18	18.65	272.64	259.39	13.26	20.569	
1,500.00	1,499.02	1,433.76	1,407.95	5.20	9.05	154.48	264.38	14.72	307.69	293.85	13.83	22.241	
1,600.00	1,598.82	1,527.31	1,497.06	5.47	9.38	153.72	292.58	10.79	342.79	328.36	14.43	23.753	
1,700.00	1,698.61	1,620.86	1,586.17	5.75	9.73	153.10	320.78	6.86	377.94	362.89	15.05	25.119	
1,800.00	1,798.41	1,714.41	1,675.28	6.04	10.08	152.59	348.97	2.93	413.11	397.44	15.68	26.354	
1,900.00	1,898.20	1,807.96	1,764.39	6.34	10.44	152.16	377.17	-1.00	448.31	432.00	16.32	27.472	
2,000.00	1,998.00	1,901.51	1,853.51	6.64	10.82	151.79	405.37	-4.94	483.54	466.56	16.98	28.484	
2,100.00	2,097.79	1,995.06	1,942.62	6.94	11.20	151.47	433.57	-8.87	518.77	501.13	17.64	29.403	
2,200.00	2,197.59	2,088.61	2,031.73	7.26	11.59	151.19	461.77	-12.80	554.02	535.70	18.32	30.238	
2,300.00	2,297.38	2,182.16	2,120.84	7.57	11.98	150.95	489.97	-16.73	589.28	570.27	19.01	30.999	
2,400.00	2,397.18	2,275.71	2,209.96	7.89	12.38	150.73	518.17	-20.66	624.55	604.84	19.70	31.695	
2,500.00	2,496.97	2,369.26	2,299.07	8.22	12.79	150.54	546.37	-24.60	659.82	639.41	20.41	32.332	
2,600.00	2,596.77	2,462.81	2,388.18	8.54	13.20	150.36	574.57	-28.53	695.10	673.98	21.12	32.916	
2,700.00	2,696.57	2,556.36	2,477.29	8.87	13.62	150.21	602.77	-32.46	730.38	708.55	21.83	33.453	
2,800.00	2,796.36	2,649.91	2,566.40	9.21	14.04	150.06	630.97	-36.39	765.67	743.12	22.55	33.948	
2,900.00	2,896.16	2,743.46	2,655.52	9.54	14.46	149.93	659.17	-40.32	800.97	777.69	23.28	34.404	
3,000.00	2,995.95	2,837.01	2,744.63	9.87	14.89	149.81	687.37	-44.25	836.26	812.25	24.01	34.827	
3,100.00	3,095.75	2,930.56	2,833.74	10.21	15.32	149.70	715.57	-48.19	871.56	846.82	24.75	35.219	
3,200.00	3,195.54	3,024.11	2,922.85	10.55	15.75	149.60	743.77	-52.12	906.86	881.38	25.49	35.583	
3,300.00	3,295.34	3,117.66	3,011.96	10.89	16.19	149.51	771.96	-56.05	942.17	915.94	26.23	35.921	
3,400.00	3,395.13	3,211.21	3,101.08	11.23	16.63	149.42	800.16	-59.98	977.47	950.50	26.97	36.237	
3,500.00	3,494.93	3,304.76	3,190.19	11.58	17.07	149.34	828.36	-63.91	1,012.78	985.06	27.72	36.531	
3,600.00	3,594.72	3,398.31	3,279.30	11.92	17.51	149.26	856.56	-67.85	1,048.09	1,019.62	28.48	36.807	
3,700.00	3,694.52	3,491.86	3,368.41	12.26	17.96	149.19	884.76	-71.78	1,083.40	1,054.17	29.23	37.065	
3,800.00	3,794.31	3,585.41	3,457.52	12.61	18.40	149.13	912.96	-75.71	1,118.72	1,088.73	29.99	37.307	
3,900.00	3,894.11	3,678.96	3,546.64	12.96	18.85	149.07	941.16	-79.64	1,154.03	1,123.28	30.75	37.534	
4,000.00	3,993.90	3,772.51	3,635.75	13.30	19.30	149.01	969.36	-83.57	1,189.35	1,157.84	31.51	37.748	
4,100.00	4,093.70	3,866.06	3,724.86	13.65	19.75	148.95	997.56	-87.50	1,224.66	1,192.39	32.27	37.950	
4,200.00	4,193.49	3,959.61	3,813.97	14.00	20.21	148.90	1,025.76	-91.44	1,259.98	1,226.94	33.04	38.140	
4,300.00	4,293.29	4,053.16	3,903.08	14.35	20.66	148.85	1,053.96	-95.37	1,295.30	1,261.49	33.80	38.320	
4,400.00	4,393.08	4,146.71	3,992.20	14.70	21.12	148.81	1,082.16	-99.30	1,330.61	1,296.04	34.57	38.490	
4,500.00	4,492.88	4,240.26	4,081.31	15.05	21.57	148.76	1,110.36	-103.23	1,365.93	1,330.59	35.34	38.650	
4,600.00	4,592.68	4,333.81	4,170.42	15.40	22.03	148.72	1,138.56	-107.16	1,401.25	1,365.14	36.11	38.803	
4,700.00	4,692.47	4,427.36	4,259.53	15.75	22.49	148.68	1,166.76	-111.10	1,436.57	1,399.69	36.88	38.947	
4,800.00	4,792.27	4,520.91	4,348.64	16.10	22.95	148.64	1,194.95	-115.03	1,471.89	1,434.24	37.66	39.085	
4,900.00	4,892.06	4,614.46	4,437.76	16.45	23.41	148.61	1,223.15	-118.96	1,507.22	1,468.78	38.43	39.215	
5,000.00	4,991.86	4,708.01	4,526.87	16.81	23.87	148.57	1,251.35	-122.89	1,542.54	1,503.33	39.21	39.340	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,801.56	4,615.98	17.16	24.33	148.54	1,279.55	-126.82	1,577.86	1,537.87	39.99	39.458	
5,200.00	5,191.45	4,895.11	4,705.09	17.51	24.80	148.51	1,307.75	-130.75	1,613.18	1,572.42	40.77	39.571	
5,300.00	5,291.24	4,988.66	4,794.20	17.87	25.26	148.48	1,335.95	-134.69	1,648.51	1,606.96	41.55	39.678	
5,400.00	5,391.04	5,082.21	4,883.32	18.22	25.72	148.45	1,364.15	-138.62	1,683.83	1,641.50	42.33	39.781	
5,500.00	5,490.83	5,175.76	4,972.43	18.57	26.19	148.42	1,392.35	-142.55	1,719.16	1,676.05	43.11	39.879	
5,600.00	5,590.63	5,269.31	5,061.54	18.93	26.65	148.39	1,420.55	-146.48	1,754.48	1,710.59	43.89	39.973	
5,700.00	5,690.42	5,362.86	5,150.65	19.28	27.12	148.37	1,448.75	-150.41	1,789.80	1,745.13	44.67	40.063	
5,800.00	5,790.22	5,456.41	5,239.76	19.64	27.59	148.34	1,476.95	-154.35	1,825.13	1,779.67	45.46	40.149	
5,900.00	5,890.01	5,549.96	5,328.88	19.99	28.05	148.32	1,505.15	-158.28	1,860.46	1,814.21	46.24	40.232	
6,000.00	5,989.81	5,643.51	5,417.99	20.35	28.52	148.30	1,533.35	-162.21	1,895.78	1,848.75	47.03	40.311	
6,100.00	6,089.60	5,737.06	5,507.10	20.70	28.99	148.28	1,561.55	-166.14	1,931.11	1,883.29	47.82	40.386	
6,200.00	6,189.40	5,830.61	5,596.21	21.06	29.46	148.26	1,589.75	-170.07	1,966.43	1,917.83	48.60	40.459	
6,300.00	6,289.19	5,924.16	5,685.32	21.41	29.93	148.24	1,617.94	-174.01	2,001.76	1,952.37	49.39	40.529	
6,400.00	6,388.99	6,017.71	5,774.44	21.77	30.40	148.22	1,646.14	-177.94	2,037.09	1,986.91	50.18	40.596	
6,498.43	6,487.22	6,109.79	5,862.15	22.12	30.86	148.20	1,673.90	-181.81	2,071.86	2,020.90	50.96	40.660	
6,500.00	6,488.79	6,111.26	5,863.55	22.12	30.87	146.06	1,674.34	-181.87	2,072.41	2,021.45	50.97	40.662	
6,550.00	6,538.54	6,158.01	5,908.08	22.32	31.10	110.78	1,688.44	-183.83	2,089.98	2,038.61	51.37	40.681	
6,600.00	6,587.76	6,204.48	5,952.34	22.59	31.34	99.56	1,702.44	-185.79	2,107.30	2,055.49	51.81	40.675	
6,650.00	6,636.08	6,250.30	5,995.99	22.84	31.57	93.86	1,716.25	-187.71	2,124.26	2,072.08	52.18	40.710	
6,700.00	6,683.13	6,295.13	6,038.70	23.07	31.79	90.20	1,729.77	-189.60	2,140.81	2,088.26	52.54	40.743	
6,750.00	6,728.55	6,338.64	6,080.14	23.29	32.01	87.54	1,742.88	-191.43	2,156.89	2,103.98	52.91	40.763	
6,800.00	6,771.99	6,380.48	6,119.99	23.51	32.22	85.48	1,755.49	-193.18	2,172.50	2,119.21	53.29	40.764	
6,850.00	6,813.13	6,420.34	6,157.96	23.72	32.42	83.81	1,767.51	-194.86	2,187.62	2,133.93	53.69	40.744	
6,900.00	6,851.64	6,457.91	6,193.76	23.94	32.61	82.42	1,778.84	-196.44	2,202.28	2,148.16	54.11	40.699	
6,950.00	6,887.25	6,492.92	6,227.10	24.16	32.79	81.22	1,789.39	-197.91	2,216.48	2,161.92	54.56	40.628	
7,000.00	6,919.67	6,525.09	6,257.74	24.38	32.95	80.15	1,799.09	-199.26	2,230.26	2,175.23	55.03	40.528	
7,050.00	6,948.65	6,554.18	6,285.45	24.62	33.10	79.18	1,807.85	-200.48	2,243.65	2,188.11	55.54	40.399	
7,100.00	6,973.99	6,579.96	6,310.02	24.88	33.23	78.26	1,815.63	-201.57	2,256.67	2,200.59	56.08	40.241	
7,150.00	6,995.49	6,602.25	6,331.25	25.18	33.34	77.37	1,822.35	-202.50	2,269.36	2,212.71	56.66	40.055	
7,200.00	7,012.97	6,620.87	6,348.98	25.51	33.44	76.48	1,827.96	-203.29	2,281.73	2,224.46	57.27	39.844	
7,250.00	7,026.32	6,635.68	6,363.09	25.89	33.51	75.58	1,832.42	-203.91	2,293.77	2,235.87	57.90	39.614	
7,300.00	7,035.43	6,646.56	6,373.46	26.33	33.57	74.65	1,835.70	-204.37	2,305.49	2,246.93	58.56	39.369	
7,350.00	7,040.22	6,653.44	6,380.01	26.84	33.60	73.70	1,837.78	-204.66	2,316.84	2,257.61	59.23	39.118	
7,377.14	7,041.00	6,655.48	6,381.95	27.14	33.61	73.17	1,838.39	-204.74	2,322.83	2,263.25	59.58	38.984	
7,400.00	7,041.12	6,656.69	6,383.10	27.41	33.62	73.20	1,838.76	-204.79	2,327.94	2,268.05	59.89	38.873	
7,500.00	7,041.64	6,661.99	6,388.15	28.77	33.64	73.33	1,840.35	-205.02	2,352.74	2,291.49	61.25	38.410	
7,600.00	7,042.16	6,667.29	6,393.20	30.39	33.67	73.46	1,841.95	-205.24	2,381.48	2,318.81	62.67	38.001	
7,700.00	7,042.67	8,022.33	7,147.25	32.22	46.25	92.48	2,096.18	-1,022.70	2,413.19	2,337.92	75.27	32.062	
7,800.00	7,043.19	8,122.33	7,147.77	34.20	47.89	92.48	2,098.33	-1,122.67	2,413.34	2,334.46	78.88	30.594	
7,900.00	7,043.71	8,222.33	7,148.29	36.31	49.61	92.48	2,100.49	-1,222.65	2,413.50	2,330.81	82.69	29.186	
8,000.00	7,044.23	8,322.33	7,148.81	38.52	51.39	92.48	2,102.64	-1,322.63	2,413.66	2,326.98	86.68	27.847	
8,100.00	7,044.75	8,422.33	7,149.33	40.80	53.25	92.48	2,104.80	-1,422.60	2,413.82	2,323.01	90.81	26.582	
8,200.00	7,045.26	8,522.33	7,149.85	43.15	55.16	92.48	2,106.95	-1,522.58	2,413.97	2,318.90	95.07	25.392	
8,300.00	7,045.78	8,622.33	7,150.37	45.54	57.13	92.48	2,109.11	-1,622.55	2,414.13	2,314.69	99.44	24.277	
8,400.00	7,046.30	8,722.33	7,150.89	47.97	59.15	92.48	2,111.26	-1,722.53	2,414.29	2,310.37	103.92	23.233	
8,500.00	7,046.82	8,822.33	7,151.41	50.44	61.22	92.48	2,113.41	-1,822.50	2,414.44	2,305.97	108.48	22.257	
8,600.00	7,047.34	8,922.33	7,151.93	52.94	63.34	92.48	2,115.57	-1,922.48	2,414.60	2,301.48	113.12	21.346	
8,700.00	7,047.86	9,022.33	7,152.45	55.46	65.49	92.48	2,117.72	-2,022.45	2,414.76	2,296.93	117.83	20.494	
8,800.00	7,048.37	9,122.33	7,152.97	58.00	67.68	92.48	2,119.88	-2,122.43	2,414.92	2,292.32	122.60	19.698	
8,900.00	7,048.89	9,222.33	7,153.49	60.56	69.91	92.48	2,122.03	-2,222.40	2,415.07	2,287.65	127.42	18.954	
9,000.00	7,049.41	9,322.33	7,154.01	63.13	72.16	92.48	2,124.18	-2,322.38	2,415.23	2,282.94	132.29	18.257	
9,100.00	7,049.93	9,422.33	7,154.52	65.72	74.45	92.48	2,126.34	-2,422.35	2,415.39	2,278.18	137.21	17.603	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,050.45	9,522.33	7,155.04	68.32	76.76	92.48	2,128.49	-2,522.33	2,415.55	2,273.38	142.17	16.991	
9,300.00	7,050.97	9,622.33	7,155.56	70.93	79.10	92.48	2,130.65	-2,622.30	2,415.70	2,268.54	147.16	16.416	
9,400.00	7,051.48	9,722.33	7,156.08	73.55	81.46	92.48	2,132.80	-2,722.28	2,415.86	2,263.68	152.18	15.875	
9,500.00	7,052.00	9,822.33	7,156.60	76.18	83.85	92.48	2,134.95	-2,822.26	2,416.02	2,258.78	157.24	15.365	
9,600.00	7,052.52	9,922.33	7,157.12	78.81	86.25	92.48	2,137.11	-2,922.23	2,416.18	2,253.86	162.32	14.886	
9,700.00	7,053.04	10,022.33	7,157.64	81.46	88.67	92.48	2,139.26	-3,022.21	2,416.33	2,248.91	167.42	14.433	
9,800.00	7,053.56	10,122.33	7,158.16	84.10	91.11	92.48	2,141.42	-3,122.18	2,416.49	2,243.94	172.55	14.005	
9,900.00	7,054.08	10,222.33	7,158.68	86.76	93.56	92.48	2,143.57	-3,222.16	2,416.65	2,238.96	177.69	13.600	
10,000.00	7,054.59	10,322.33	7,159.20	89.42	96.02	92.48	2,145.73	-3,322.13	2,416.81	2,233.95	182.86	13.217	
10,100.00	7,055.11	10,422.33	7,159.72	92.08	98.50	92.48	2,147.88	-3,422.11	2,416.96	2,228.92	188.04	12.853	
10,200.00	7,055.63	10,522.33	7,160.24	94.75	101.00	92.48	2,150.03	-3,522.08	2,417.12	2,223.88	193.24	12.509	
10,300.00	7,056.15	10,622.33	7,160.76	97.42	103.50	92.48	2,152.19	-3,622.06	2,417.28	2,218.83	198.45	12.181	
10,400.00	7,056.67	10,722.33	7,161.28	100.10	106.02	92.48	2,154.34	-3,722.03	2,417.44	2,213.76	203.67	11.869	
10,500.00	7,057.18	10,822.33	7,161.80	102.78	108.54	92.48	2,156.50	-3,822.01	2,417.59	2,208.68	208.91	11.572	
10,600.00	7,057.70	10,922.33	7,162.32	105.46	111.08	92.48	2,158.65	-3,921.98	2,417.75	2,203.59	214.16	11.289	
10,700.00	7,058.22	11,022.33	7,162.83	108.14	113.62	92.48	2,160.80	-4,021.96	2,417.91	2,198.49	219.42	11.020	
10,800.00	7,058.74	11,122.33	7,163.35	110.83	116.18	92.48	2,162.96	-4,121.93	2,418.07	2,193.38	224.69	10.762	
10,900.00	7,059.26	11,222.33	7,163.87	113.52	118.74	92.48	2,165.11	-4,221.91	2,418.22	2,188.25	229.97	10.515	
11,000.00	7,059.78	11,322.33	7,164.39	116.21	121.30	92.48	2,167.27	-4,321.88	2,418.38	2,183.12	235.26	10.280	
11,100.00	7,060.29	11,422.33	7,164.91	118.90	123.88	92.48	2,169.42	-4,421.86	2,418.54	2,177.99	240.55	10.054	
11,200.00	7,060.81	11,522.33	7,165.43	121.60	126.46	92.48	2,171.57	-4,521.84	2,418.70	2,172.84	245.86	9.838	
11,300.00	7,061.33	11,622.33	7,165.95	124.30	129.05	92.48	2,173.73	-4,621.81	2,418.85	2,167.69	251.17	9.630	
11,400.00	7,061.85	11,722.33	7,166.47	127.00	131.64	92.48	2,175.88	-4,721.79	2,419.01	2,162.53	256.48	9.431	
11,500.00	7,062.37	11,822.33	7,166.99	129.70	134.24	92.48	2,178.04	-4,821.76	2,419.17	2,157.36	261.81	9.240	
11,600.00	7,062.89	11,922.33	7,167.51	132.40	136.85	92.48	2,180.19	-4,921.74	2,419.32	2,152.19	267.14	9.057	
11,700.00	7,063.40	12,022.33	7,168.03	135.10	139.45	92.48	2,182.34	-5,021.71	2,419.48	2,147.01	272.47	8.880	
11,800.00	7,063.92	12,122.33	7,168.55	137.81	142.07	92.48	2,184.50	-5,121.69	2,419.64	2,141.83	277.81	8.710	
11,900.00	7,064.44	12,222.33	7,169.07	140.51	144.69	92.48	2,186.65	-5,221.66	2,419.80	2,136.64	283.16	8.546	
12,000.00	7,064.96	12,322.33	7,169.59	143.22	147.31	92.48	2,188.81	-5,321.64	2,419.95	2,131.45	288.51	8.388	
12,100.00	7,065.48	12,422.33	7,170.11	145.93	149.94	92.48	2,190.96	-5,421.61	2,420.11	2,126.25	293.86	8.236	
12,200.00	7,066.00	12,522.33	7,170.62	148.64	152.57	92.48	2,193.12	-5,521.59	2,420.27	2,121.05	299.22	8.089	
12,300.00	7,066.51	12,622.33	7,171.14	151.35	155.20	92.48	2,195.27	-5,621.56	2,420.43	2,115.85	304.58	7.947	
12,400.00	7,067.03	12,722.33	7,171.66	154.06	157.84	92.48	2,197.42	-5,721.54	2,420.58	2,110.64	309.95	7.810	
12,500.00	7,067.55	12,822.33	7,172.18	156.77	160.48	92.48	2,199.58	-5,821.51	2,420.74	2,105.43	315.32	7.677	
12,600.00	7,068.07	12,922.33	7,172.70	159.49	163.12	92.48	2,201.73	-5,921.49	2,420.90	2,100.21	320.69	7.549	
12,700.00	7,068.59	13,022.33	7,173.22	162.20	165.77	92.48	2,203.89	-6,021.47	2,421.06	2,094.99	326.07	7.425	
12,800.00	7,069.11	13,122.33	7,173.74	164.92	168.42	92.48	2,206.04	-6,121.44	2,421.21	2,089.77	331.44	7.305	
12,900.00	7,069.62	13,222.33	7,174.26	167.63	171.07	92.48	2,208.19	-6,221.42	2,421.37	2,084.54	336.83	7.189	
13,000.00	7,070.14	13,322.33	7,174.78	170.35	173.73	92.48	2,210.35	-6,321.39	2,421.53	2,079.32	342.21	7.076	
13,100.00	7,070.66	13,422.33	7,175.30	173.07	176.38	92.48	2,212.50	-6,421.37	2,421.69	2,074.09	347.60	6.967	
13,200.00	7,071.18	13,522.33	7,175.82	175.78	179.04	92.48	2,214.66	-6,521.34	2,421.84	2,068.85	352.99	6.861	
13,300.00	7,071.70	13,622.33	7,176.34	178.50	181.71	92.48	2,216.81	-6,621.32	2,422.00	2,063.62	358.38	6.758	
13,400.00	7,072.21	13,722.33	7,176.86	181.22	184.37	92.48	2,218.96	-6,721.29	2,422.16	2,058.38	363.78	6.658	
13,500.00	7,072.73	13,822.33	7,177.38	183.94	187.04	92.48	2,221.12	-6,821.27	2,422.32	2,053.14	369.17	6.561	
13,600.00	7,073.25	13,922.33	7,177.90	186.66	189.70	92.48	2,223.27	-6,921.24	2,422.47	2,047.90	374.57	6.467	
13,700.00	7,073.77	14,022.33	7,178.41	189.38	192.37	92.48	2,225.43	-7,021.22	2,422.63	2,042.66	379.97	6.376	
13,800.00	7,074.29	14,122.33	7,178.93	192.10	195.05	92.48	2,227.58	-7,121.19	2,422.79	2,037.41	385.38	6.287	
13,900.00	7,074.81	14,222.33	7,179.45	194.82	197.72	92.48	2,229.74	-7,221.17	2,422.95	2,032.16	390.78	6.200	
14,000.00	7,075.32	14,322.33	7,179.97	197.54	200.40	92.48	2,231.89	-7,321.14	2,423.10	2,026.91	396.19	6.116	
14,100.00	7,075.84	14,422.33	7,180.49	200.27	203.07	92.48	2,234.04	-7,421.12	2,423.26	2,021.66	401.60	6.034	
14,200.00	7,076.36	14,522.33	7,181.01	202.99	205.75	92.48	2,236.20	-7,521.10	2,423.42	2,016.41	407.01	5.954	
14,300.00	7,076.88	14,622.33	7,181.53	205.71	208.43	92.48	2,238.35	-7,621.07	2,423.58	2,011.16	412.42	5.876	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,400.00	7,077.40	14,722.32	7,182.05	208.44	211.11	92.48	2,240.51	-7,721.05	2,423.73	2,005.90	417.83	5.801	
14,500.00	7,077.92	14,822.32	7,182.57	211.16	213.80	92.48	2,242.66	-7,821.02	2,423.89	2,000.64	423.25	5.727	
14,600.00	7,078.43	14,922.32	7,183.09	213.88	216.48	92.47	2,244.81	-7,921.00	2,424.05	1,995.38	428.66	5.655	
14,700.00	7,078.95	15,022.32	7,183.61	216.61	219.17	92.47	2,246.97	-8,020.97	2,424.20	1,990.12	434.08	5.585	
14,800.00	7,079.47	15,122.32	7,184.13	219.33	221.85	92.47	2,249.12	-8,120.95	2,424.36	1,984.86	439.50	5.516	
14,900.00	7,079.99	15,222.32	7,184.65	222.06	224.54	92.47	2,251.28	-8,220.92	2,424.52	1,979.60	444.92	5.449	
15,000.00	7,080.51	15,322.32	7,185.17	224.78	227.23	92.47	2,253.43	-8,320.90	2,424.68	1,974.34	450.34	5.384	
15,100.00	7,081.03	15,422.32	7,185.69	227.51	229.92	92.47	2,255.58	-8,420.87	2,424.83	1,969.07	455.76	5.320	
15,200.00	7,081.54	15,522.32	7,186.20	230.24	232.61	92.47	2,257.74	-8,520.85	2,424.99	1,963.80	461.19	5.258	
15,300.00	7,082.06	15,622.32	7,186.72	232.96	235.31	92.47	2,259.89	-8,620.82	2,425.15	1,958.54	466.61	5.197	
15,400.00	7,082.58	15,722.32	7,187.24	235.69	238.00	92.47	2,262.05	-8,720.80	2,425.31	1,953.27	472.04	5.138	
15,500.00	7,083.10	15,822.32	7,187.76	238.41	240.69	92.47	2,264.20	-8,820.77	2,425.46	1,948.00	477.47	5.080	
15,600.00	7,083.62	15,922.32	7,188.28	241.14	243.39	92.47	2,266.36	-8,920.75	2,425.62	1,942.73	482.89	5.023	
15,700.00	7,084.13	16,022.32	7,188.80	243.87	246.09	92.47	2,268.51	-9,020.73	2,425.78	1,937.46	488.32	4.968	
15,800.00	7,084.65	16,122.32	7,189.32	246.60	248.78	92.47	2,270.66	-9,120.70	2,425.94	1,932.19	493.75	4.913	
15,900.00	7,085.17	16,222.32	7,189.84	249.32	251.48	92.47	2,272.82	-9,220.68	2,426.09	1,926.91	499.18	4.860	
16,000.00	7,085.69	16,322.32	7,190.36	252.05	254.18	92.47	2,274.97	-9,320.65	2,426.25	1,921.64	504.61	4.808	
16,100.00	7,086.21	16,422.32	7,190.88	254.78	256.88	92.47	2,277.13	-9,420.63	2,426.41	1,916.36	510.05	4.757	
16,200.00	7,086.73	16,522.32	7,191.40	257.51	259.58	92.47	2,279.28	-9,520.60	2,426.57	1,911.09	515.48	4.707	
16,300.00	7,087.24	16,622.32	7,191.92	260.24	262.28	92.47	2,281.43	-9,620.58	2,426.72	1,905.81	520.91	4.659	
16,400.00	7,087.76	16,722.32	7,192.44	262.97	264.98	92.47	2,283.59	-9,720.55	2,426.88	1,900.53	526.35	4.611	
16,500.00	7,088.28	16,822.32	7,192.96	265.69	267.69	92.47	2,285.74	-9,820.53	2,427.04	1,895.26	531.78	4.564	
16,600.00	7,088.80	16,922.32	7,193.48	268.42	270.39	92.47	2,287.90	-9,920.50	2,427.20	1,889.98	537.22	4.518	
16,700.00	7,089.32	17,022.32	7,193.99	271.15	273.09	92.47	2,290.05	-10,020.48	2,427.35	1,884.70	542.65	4.473	
16,800.00	7,089.84	17,122.32	7,194.51	273.88	275.80	92.47	2,292.20	-10,120.45	2,427.51	1,879.42	548.09	4.429	
16,900.00	7,090.35	17,222.32	7,195.03	276.61	278.51	92.47	2,294.36	-10,220.43	2,427.67	1,874.14	553.53	4.386	
17,000.00	7,090.87	17,322.32	7,195.55	279.34	281.21	92.47	2,296.51	-10,320.40	2,427.83	1,868.86	558.97	4.343	
17,024.65	7,091.00	17,346.97	7,195.68	280.01	281.88	92.47	2,297.04	-10,345.05	2,427.86	1,867.56	560.31	4.333 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-162.16	-343.55	-110.54	360.90				
100.00	100.00	98.00	98.00	0.48	0.47	-162.16	-343.55	-110.54	360.89	359.94	0.96	377.685	
200.00	200.00	198.00	198.00	1.28	1.27	-162.16	-343.55	-110.54	360.89	358.34	2.55	141.603	
300.00	300.00	298.00	298.00	1.77	1.76	-162.16	-343.55	-110.54	360.89	357.36	3.53	102.310	
400.00	400.00	398.00	398.00	2.15	2.14	-162.16	-343.55	-110.54	360.89	356.60	4.29	84.057	
500.00	500.00	498.00	498.00	2.48	2.47	-162.16	-343.55	-110.54	360.89	355.94	4.95	72.948	
600.00	600.00	598.00	598.00	2.77	2.76	-162.16	-343.55	-110.54	360.89	355.36	5.53	65.273	
700.00	700.00	698.00	698.00	3.03	3.03	-162.16	-343.55	-110.54	360.89	354.83	6.06	59.559	
800.00	800.00	798.00	798.00	3.28	3.27	-162.16	-343.55	-110.54	360.89	354.34	6.55	55.089	
900.00	900.00	898.00	898.00	3.51	3.50	-162.16	-343.55	-110.54	360.89	353.88	7.01	51.467	
1,000.00	999.98	997.98	997.98	3.78	3.72	-13.39	-343.55	-110.54	359.19	351.71	7.49	47.970	
1,083.35	1,083.22	1,081.22	1,081.22	4.28	3.89	-13.56	-343.55	-110.54	355.19	347.04	8.14	43.626	
1,100.00	1,099.84	1,097.84	1,097.84	4.29	3.93	-13.60	-343.55	-110.54	354.15	345.96	8.19	43.252	
1,200.00	1,199.64	1,197.64	1,197.64	4.47	4.13	-13.85	-343.55	-110.54	347.94	339.37	8.57	40.615	
1,300.00	1,299.43	1,297.43	1,297.43	4.70	4.32	-14.10	-343.55	-110.54	341.73	332.75	8.98	38.042	
1,400.00	1,399.23	1,397.23	1,397.23	4.95	4.50	-14.37	-343.55	-110.54	335.53	326.12	9.41	35.669	
1,500.00	1,499.02	1,497.02	1,497.02	5.20	4.68	-14.64	-343.55	-110.54	329.34	319.50	9.84	33.479	
1,600.00	1,598.82	1,596.82	1,596.82	5.47	4.86	-14.93	-343.55	-110.54	323.15	312.88	10.27	31.458	
1,700.00	1,698.61	1,696.61	1,696.61	5.75	5.02	-15.23	-343.55	-110.54	316.98	306.26	10.71	29.590	
1,800.00	1,798.41	1,796.41	1,796.41	6.04	5.19	-15.54	-343.55	-110.54	310.81	299.65	11.15	27.863	
1,900.00	1,898.20	1,896.20	1,896.20	6.34	5.35	-15.86	-343.55	-110.54	304.65	293.05	11.60	26.263	
2,000.00	1,998.00	1,996.00	1,996.00	6.64	5.51	-16.20	-343.55	-110.54	298.50	286.46	12.05	24.779	
2,100.00	2,097.79	2,095.79	2,095.79	6.94	5.66	-16.55	-343.55	-110.54	292.37	279.87	12.49	23.400	
2,200.00	2,197.59	2,187.44	2,187.43	7.26	5.81	-16.98	-344.87	-110.37	287.59	274.66	12.93	22.237	
2,300.00	2,297.38	2,278.84	2,278.73	7.57	6.25	-17.64	-349.08	-109.82	285.81	272.19	13.62	20.982	
2,308.83	2,306.20	2,286.91	2,286.78	7.60	6.29	-17.70	-349.59	-109.75	285.80	272.12	13.69	20.883 CC, ES	
2,400.00	2,397.18	2,370.17	2,369.77	7.89	6.72	-18.50	-356.17	-108.88	287.07	272.74	14.34	20.023	
2,500.00	2,496.97	2,461.24	2,460.29	8.22	7.18	-19.54	-366.10	-107.58	291.42	276.37	15.04	19.375	
2,600.00	2,596.77	2,551.88	2,550.01	8.54	7.63	-20.72	-378.81	-105.91	298.88	283.15	15.73	18.998	
2,700.00	2,696.57	2,641.89	2,638.67	8.87	8.07	-21.99	-394.21	-103.89	309.50	293.09	16.41	18.857	
2,800.00	2,796.36	2,731.12	2,726.03	9.21	8.50	-23.30	-412.20	-101.53	323.28	306.20	17.08	18.928	
2,900.00	2,896.16	2,819.41	2,811.87	9.54	8.93	-24.60	-432.64	-98.84	340.22	322.49	17.73	19.187	
3,000.00	2,995.95	2,906.60	2,895.99	9.87	9.35	-25.88	-455.39	-95.86	360.28	341.92	18.37	19.615	
3,100.00	3,095.75	2,992.56	2,978.19	10.21	9.76	-27.09	-480.29	-92.59	383.43	364.45	18.99	20.195	
3,200.00	3,195.54	3,077.16	3,058.32	10.55	10.17	-28.22	-507.18	-89.06	409.60	390.01	19.59	20.910	
3,300.00	3,295.34	3,160.29	3,136.25	10.89	10.57	-29.27	-535.88	-85.29	438.71	418.54	20.17	21.746	
3,400.00	3,395.13	3,241.85	3,211.85	11.23	10.97	-30.22	-566.20	-81.31	470.69	449.94	20.74	22.692	
3,500.00	3,494.93	3,321.76	3,285.06	11.58	11.35	-31.08	-597.96	-77.14	505.43	484.13	21.29	23.736	
3,600.00	3,594.72	3,400.00	3,355.84	11.92	11.73	-31.85	-631.01	-72.80	542.84	521.01	21.83	24.867	
3,700.00	3,694.52	3,476.34	3,424.00	12.26	12.09	-32.54	-665.10	-68.32	582.83	560.48	22.35	26.079	
3,800.00	3,794.31	3,550.92	3,489.68	12.61	12.45	-33.15	-700.12	-63.72	625.29	602.44	22.85	27.360	
3,900.00	3,894.11	3,623.64	3,552.81	12.96	12.77	-33.70	-735.89	-59.03	670.14	646.82	23.32	28.738	
4,000.00	3,993.90	3,700.10	3,618.27	13.30	13.06	-34.22	-775.09	-53.88	717.15	693.38	23.77	30.167	
4,100.00	4,093.70	3,787.85	3,693.13	13.65	13.35	-34.76	-820.47	-47.92	764.72	740.36	24.36	31.388	
4,200.00	4,193.49	3,875.60	3,768.00	14.00	13.65	-35.23	-865.85	-41.96	812.34	787.36	24.98	32.525	
4,300.00	4,293.29	3,963.35	3,842.87	14.35	13.97	-35.64	-911.23	-36.00	859.99	834.39	25.60	33.592	
4,400.00	4,393.08	4,051.11	3,917.74	14.70	14.29	-36.02	-956.61	-30.05	907.68	881.44	26.24	34.593	
4,500.00	4,492.88	4,138.86	3,992.61	15.05	14.62	-36.36	-1,001.99	-24.09	955.39	928.50	26.89	35.532	
4,600.00	4,592.68	4,226.61	4,067.48	15.40	14.96	-36.66	-1,047.37	-18.13	1,003.13	975.58	27.55	36.415	
4,700.00	4,692.47	4,314.36	4,142.34	15.75	15.31	-36.94	-1,092.75	-12.17	1,050.88	1,022.67	28.22	37.242	
4,800.00	4,792.27	4,402.11	4,217.21	16.10	16.06	-37.19	-1,138.14	-6.21	1,098.66	1,069.76	28.90	38.022	
4,900.00	4,892.06	4,489.86	4,292.08	16.45	16.81	-37.43	-1,183.52	-0.25	1,146.45	1,116.86	29.58	38.755	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,577.61	4,366.95	16.81	17.57	-37.64	-1,228.90	5.71	1,194.25	1,163.97	30.28	39.444	
5,100.00	5,091.85	4,665.36	4,441.82	17.16	18.34	-37.84	-1,274.28	11.66	1,242.06	1,211.08	30.98	40.094	
5,200.00	5,191.45	4,753.11	4,516.68	17.51	19.10	-38.02	-1,319.66	17.62	1,289.89	1,258.20	31.69	40.708	
5,300.00	5,291.24	4,840.86	4,591.55	17.87	19.88	-38.19	-1,365.04	23.58	1,337.72	1,305.32	32.40	41.287	
5,400.00	5,391.04	4,928.61	4,666.42	18.22	20.65	-38.35	-1,410.42	29.54	1,385.56	1,352.44	33.12	41.834	
5,500.00	5,490.83	5,016.36	4,741.29	18.57	21.43	-38.50	-1,455.80	35.50	1,433.42	1,399.57	33.85	42.352	
5,600.00	5,590.63	5,104.11	4,816.16	18.93	22.22	-38.63	-1,501.18	41.46	1,481.27	1,446.70	34.58	42.841	
5,700.00	5,690.42	5,191.86	4,891.03	19.28	23.00	-38.76	-1,546.56	47.42	1,529.14	1,493.82	35.31	43.305	
5,800.00	5,790.22	5,280.54	4,966.42	19.64	23.78	-38.89	-1,591.94	53.38	1,577.02	1,542.70	36.04	43.771	
5,900.00	5,890.01	5,368.29	5,041.82	19.99	24.56	-39.02	-1,638.32	59.34	1,624.40	1,589.18	36.77	44.237	
6,000.00	5,989.81	5,456.04	5,117.21	20.35	25.34	-39.15	-1,684.70	65.30	1,670.78	1,634.56	37.50	44.703	
6,100.00	6,089.60	5,543.79	5,192.60	20.70	26.12	-39.28	-1,731.08	71.26	1,717.16	1,680.94	38.23	45.169	
6,200.00	6,189.40	5,631.54	5,268.00	21.06	26.90	-39.41	-1,777.46	77.22	1,763.54	1,726.32	38.96	45.635	
6,300.00	6,289.19	5,719.29	5,343.39	21.41	27.68	-39.54	-1,823.84	83.18	1,809.92	1,772.70	39.69	46.101	
6,400.00	6,388.99	5,807.04	5,418.78	21.77	28.46	-39.67	-1,870.22	89.14	1,856.30	1,818.08	40.42	46.567	
6,498.43	6,487.22	5,894.79	5,494.17	22.12	29.24	-39.80	-1,916.60	95.10	1,902.68	1,866.46	41.15	47.033	
6,500.00	6,488.79	5,982.54	5,569.56	22.12	29.24	-39.80	-1,916.60	95.10	1,902.68	1,866.46	41.15	47.033	
6,550.00	6,538.54	6,070.29	5,644.95	22.32	29.60	-39.85	-1,953.98	101.06	1,949.06	1,903.84	41.88	47.500	
6,600.00	6,587.76	6,158.04	5,720.34	22.59	30.00	-39.90	-1,991.36	107.02	1,994.44	1,947.22	42.61	47.966	
6,650.00	6,636.08	6,245.79	5,795.73	22.84	30.40	-39.95	-2,028.74	112.98	2,039.82	1,991.60	43.34	48.432	
6,700.00	6,683.13	6,333.54	5,871.12	23.07	30.80	-40.00	-2,066.12	118.94	2,086.20	2,036.98	44.07	48.898	
6,750.00	6,728.55	6,421.29	5,946.51	23.29	31.20	-40.05	-2,103.50	124.90	2,133.58	2,078.36	44.80	49.364	
6,800.00	6,771.99	6,509.04	6,021.90	23.51	31.60	-40.10	-2,140.88	130.86	2,180.96	2,124.74	45.53	49.830	
6,850.00	6,813.13	6,596.79	6,097.29	23.72	32.00	-40.15	-2,178.26	136.82	2,228.34	2,172.12	46.26	50.296	
6,870.58	6,829.31	6,684.54	6,172.68	23.81	32.40	-40.18	-2,205.64	142.78	2,275.72	2,219.50	46.99	50.762	
6,900.00	6,851.64	6,772.29	6,248.07	23.94	32.80	-40.21	-2,243.02	148.74	2,323.10	2,266.88	47.72	51.228	
6,950.00	6,887.25	6,860.04	6,323.46	24.16	33.20	-40.26	-2,280.40	154.70	2,370.48	2,314.26	48.45	51.694	
7,000.00	6,919.67	6,947.79	6,398.85	24.38	33.60	-40.31	-2,317.78	160.66	2,417.86	2,361.64	49.18	52.160	
7,050.00	6,948.85	7,035.54	6,474.24	24.62	34.00	-40.36	-2,355.16	166.62	2,465.24	2,409.02	49.91	52.626	
7,100.00	6,973.99	7,123.29	6,549.63	24.88	34.40	-40.41	-2,392.54	172.58	2,512.62	2,456.40	50.64	53.092	
7,150.00	6,995.49	7,211.04	6,625.02	25.18	34.80	-40.46	-2,429.92	178.54	2,560.00	2,503.78	51.37	53.558	
7,200.00	7,012.97	7,298.79	6,700.41	25.51	35.20	-40.51	-2,467.30	184.50	2,607.38	2,551.16	52.10	54.024	
7,250.00	7,026.32	7,386.54	6,775.80	25.89	35.60	-40.56	-2,504.68	190.46	2,654.76	2,598.54	52.83	54.490	
7,300.00	7,035.43	7,474.29	6,851.19	26.33	36.00	-40.61	-2,542.06	196.42	2,702.14	2,645.92	53.56	54.956	
7,350.00	7,040.22	7,562.04	6,926.58	26.84	36.40	-40.66	-2,579.44	202.38	2,749.52	2,693.30	54.29	55.422	
7,377.14	7,041.00	7,649.79	7,001.97	27.14	36.80	-40.71	-2,616.82	208.34	2,796.90	2,740.68	55.02	55.888	
7,400.00	7,041.12	7,737.54	7,077.36	27.41	37.20	-40.76	-2,654.20	214.30	2,844.28	2,788.06	55.75	56.354	
7,500.00	7,041.64	7,825.29	7,152.75	28.77	38.00	-40.81	-2,736.58	226.26	2,936.66	2,879.02	56.74	57.243	
7,600.00	7,042.16	7,913.04	7,228.14	30.39	38.80	-40.86	-2,818.96	238.22	3,029.04	2,970.98	57.73	58.132	
7,700.00	7,042.67	8,000.79	7,303.53	32.22	39.60	-40.91	-2,901.34	250.18	3,121.42	3,063.36	58.72	59.021	
7,800.00	7,043.19	8,088.54	7,378.92	34.20	40.40	-40.96	-2,983.72	262.14	3,213.80	3,155.74	59.71	59.910	
7,900.00	7,043.71	8,176.29	7,454.31	36.31	41.20	-41.01	-3,066.10	274.10	3,306.18	3,248.12	60.70	60.799	
8,000.00	7,044.23	8,264.04	7,529.70	38.52	42.00	-41.06	-3,148.48	286.06	3,398.56	3,340.50	61.69	61.688	
8,100.00	7,044.75	8,351.79	7,605.09	40.80	42.80	-41.11	-3,230.86	298.02	3,490.94	3,432.88	62.68	62.577	
8,200.00	7,045.26	8,439.54	7,680.48	43.15	43.60	-41.16	-3,313.24	310.00	3,583.32	3,525.26	63.67	63.466	
8,300.00	7,045.78	8,527.29	7,755.87	45.54	44.40	-41.21	-3,395.62	321.96	3,675.70	3,617.64	64.66	64.355	
8,400.00	7,046.30	8,615.04	7,831.26	47.97	45.20	-41.26	-3,477.99	333.92	3,768.08	3,709.92	65.65	65.244	
8,500.00	7,046.82	8,702.79	7,906.65	50.44	46.00	-41.31	-3,560.37	345.88	3,860.46	3,802.30	66.64	66.133	
8,600.00	7,047.34	8,790.54	7,982.04	52.94	46.80	-41.36	-3,642.75	357.84	3,952.84	3,894.68	67.63	67.022	
8,700.00	7,047.86	8,878.29	8,057.43	55.46	47.60	-41.41	-3,725.13	369.80	4,045.22	3,987.06	68.62	67.911	
8,800.00	7,048.37	8,966.04	8,132.82	58.00	48.40	-41.46	-3,807.51	381.76	4,137.60	4,079.44	69.61	68.800	
8,900.00	7,048.89	9,053.79	8,208.21	60.56	49.20	-41.51	-3,889.89	393.72	4,230.00	4,171.82	70.60	69.689	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1Y-HC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program:		0-MWD		Rule Assigned:								Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
9,000.00	7,049.41	9,828.04	7,244.77	63.13	38.98	159.05	-258.99	201.87	2,584.48	2,524.79	59.69	43.299	
9,100.00	7,049.93	9,831.21	7,244.78	65.72	39.01	158.30	-255.82	201.83	2,684.11	2,624.36	59.75	44.921	
9,200.00	7,050.45	9,834.38	7,244.80	68.32	39.04	157.57	-252.64	201.80	2,783.77	2,723.95	59.82	46.539	
9,300.00	7,050.97	9,837.55	7,244.82	70.93	39.07	156.83	-249.47	201.76	2,883.44	2,823.56	59.88	48.154	
9,400.00	7,051.48	9,840.73	7,244.83	73.55	39.09	156.11	-246.30	201.72	2,983.13	2,923.19	59.94	49.765	
9,500.00	7,052.00	9,843.90	7,244.85	76.18	39.12	155.40	-243.13	201.68	3,082.84	3,022.83	60.01	51.373	
9,600.00	7,052.52	9,847.07	7,244.87	78.81	39.15	154.69	-239.95	201.65	3,182.57	3,122.49	60.08	52.976	
9,700.00	7,053.04	9,850.24	7,244.88	81.46	39.18	153.99	-236.78	201.61	3,282.30	3,222.16	60.14	54.575	
9,800.00	7,053.56	9,853.42	7,244.90	84.10	39.21	153.30	-233.61	201.57	3,382.05	3,321.84	60.21	56.170	
9,900.00	7,054.08	9,856.59	7,244.92	86.76	39.23	152.62	-230.44	201.54	3,481.82	3,421.54	60.28	57.761	
10,000.00	7,054.59	9,859.76	7,244.93	89.42	39.26	151.95	-227.27	201.50	3,581.59	3,521.24	60.35	59.347	
10,100.00	7,055.11	9,862.93	7,244.95	92.08	39.29	151.28	-224.09	201.46	3,681.37	3,620.95	60.42	60.929	
10,200.00	7,055.63	9,866.11	7,244.96	94.75	39.32	150.62	-220.92	201.42	3,781.16	3,720.67	60.49	62.505	
10,300.00	7,056.15	9,869.28	7,244.98	97.42	39.35	149.98	-217.75	201.39	3,880.96	3,820.39	60.57	64.077	
10,400.00	7,056.67	9,872.45	7,245.00	100.10	39.38	149.34	-214.58	201.35	3,980.77	3,920.13	60.64	65.645	
10,500.00	7,057.18	9,875.62	7,245.01	102.78	39.40	148.71	-211.40	201.31	4,080.58	4,019.86	60.72	67.207	
10,600.00	7,057.70	9,878.80	7,245.03	105.46	39.43	148.08	-208.23	201.27	4,180.40	4,119.61	60.79	68.764	
10,700.00	7,058.22	9,881.97	7,245.05	108.14	39.46	147.47	-205.06	201.24	4,280.23	4,219.35	60.87	70.315	
10,800.00	7,058.74	9,885.14	7,245.06	110.83	39.49	146.86	-201.89	201.20	4,380.06	4,319.11	60.95	71.862	
10,900.00	7,059.26	9,888.31	7,245.08	113.52	39.52	146.26	-198.72	201.16	4,479.90	4,418.86	61.03	73.403	
11,000.00	7,059.78	9,891.49	7,245.10	116.21	39.54	145.68	-195.54	201.13	4,579.74	4,518.62	61.11	74.939	
11,100.00	7,060.29	9,894.66	7,245.11	118.90	39.57	145.09	-192.37	201.09	4,679.58	4,618.39	61.20	76.469	
11,200.00	7,060.81	9,897.83	7,245.13	121.60	39.60	144.52	-189.20	201.05	4,779.43	4,718.15	61.28	77.994	
11,300.00	7,061.33	9,901.00	7,245.14	124.30	39.63	143.96	-186.03	201.01	4,879.29	4,817.92	61.37	79.512	
11,400.00	7,061.85	9,904.18	7,245.16	127.00	39.66	143.40	-182.85	200.98	4,979.15	4,917.69	61.45	81.023	
11,500.00	7,062.37	9,907.35	7,245.18	129.70	39.69	142.85	-179.68	200.94	5,079.01	5,017.47	61.54	82.528	
11,600.00	7,062.89	9,910.52	7,245.19	132.40	39.72	142.31	-176.51	200.90	5,178.88	5,117.24	61.63	84.027	
11,700.00	7,063.40	9,913.69	7,245.21	135.10	39.75	141.78	-173.34	200.87	5,278.74	5,217.02	61.73	85.520	
11,800.00	7,063.92	9,916.87	7,245.23	137.81	39.78	141.25	-170.17	200.83	5,378.62	5,316.80	61.82	87.006	
11,900.00	7,064.44	9,920.04	7,245.24	140.51	39.81	140.73	-166.99	200.79	5,478.49	5,416.58	61.91	88.487	
12,000.00	7,064.96	9,923.21	7,245.26	143.22	39.84	140.23	-163.82	200.75	5,578.37	5,516.36	62.01	89.962	
12,100.00	7,065.48	9,926.38	7,245.28	145.93	39.87	139.72	-160.65	200.72	5,678.25	5,616.14	62.10	91.430	
12,200.00	7,066.00	9,929.56	7,245.29	148.64	39.90	139.23	-157.48	200.68	5,778.13	5,715.93	62.20	92.893	
12,300.00	7,066.51	9,932.73	7,245.31	151.35	39.93	138.74	-154.30	200.64	5,878.01	5,815.71	62.30	94.348	
12,400.00	7,067.03	9,935.90	7,245.33	154.06	39.96	138.26	-151.13	200.60	5,977.90	5,915.50	62.40	95.798	
12,500.00	7,067.55	9,939.07	7,245.34	156.77	39.99	137.79	-147.96	200.57	6,077.79	6,015.29	62.50	97.241	
12,600.00	7,068.07	9,942.25	7,245.36	159.49	40.02	137.32	-144.79	200.53	6,177.68	6,115.08	62.60	98.678	
12,700.00	7,068.59	9,945.42	7,245.37	162.20	40.05	136.86	-141.62	200.49	6,277.57	6,214.87	62.71	100.108	
12,800.00	7,069.11	9,948.59	7,245.39	164.92	40.08	136.41	-138.44	200.46	6,377.47	6,314.66	62.81	101.532	
12,900.00	7,069.62	9,951.76	7,245.41	167.63	40.11	135.96	-135.27	200.42	6,477.36	6,414.45	62.92	102.949	
13,000.00	7,070.14	9,954.94	7,245.42	170.35	40.14	135.53	-132.10	200.38	6,577.26	6,514.24	63.02	104.360	
13,100.00	7,070.66	9,958.11	7,245.44	173.07	40.17	135.09	-128.93	200.34	6,677.16	6,614.03	63.13	105.764	
13,200.00	7,071.18	9,961.28	7,245.46	175.78	40.20	134.67	-125.75	200.31	6,777.06	6,713.82	63.24	107.162	
13,300.00	7,071.70	9,964.45	7,245.47	178.50	40.23	134.25	-122.58	200.27	6,876.96	6,813.61	63.35	108.552	
13,400.00	7,072.21	9,967.63	7,245.49	181.22	40.26	133.83	-119.41	200.23	6,976.87	6,913.41	63.46	109.937	
13,500.00	7,072.73	9,970.80	7,245.51	183.94	40.29	133.43	-116.24	200.20	7,076.77	7,013.20	63.57	111.314	
13,600.00	7,073.25	9,973.97	7,245.52	186.66	40.32	133.03	-113.07	200.16	7,176.68	7,112.99	63.69	112.685	
13,700.00	7,073.77	9,977.14	7,245.54	189.38	40.35	132.63	-109.89	200.12	7,276.59	7,212.78	63.80	114.049	
13,800.00	7,074.29	9,980.32	7,245.55	192.10	40.38	132.24	-106.72	200.08	7,376.50	7,312.58	63.92	115.407	
13,900.00	7,074.81	9,983.49	7,245.57	194.82	40.41	131.86	-103.55	200.05	7,476.40	7,412.37	64.03	116.758	
14,000.00	7,075.32	9,986.66	7,245.59	197.54	40.44	131.48	-100.38	200.01	7,576.32	7,512.16	64.15	118.102	
14,100.00	7,075.84	9,989.83	7,245.60	200.27	40.47	131.11	-97.20	199.97	7,676.23	7,611.96	64.27	119.439	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1Y-HC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,200.00	7,076.36	9,993.01	7,245.62	202.99	40.50	130.74	-94.03	199.93	7,776.14	7,711.75	64.39	120.769	
14,300.00	7,076.88	9,996.18	7,245.64	205.71	40.53	130.38	-90.86	199.90	7,876.05	7,811.54	64.51	122.093	
14,400.00	7,077.40	9,999.35	7,245.65	208.44	40.56	130.03	-87.69	199.86	7,975.97	7,911.34	64.63	123.410	
14,500.00	7,077.92	10,002.52	7,245.67	211.16	40.59	129.68	-84.52	199.82	8,075.88	8,011.13	64.75	124.718	
14,600.00	7,078.43	10,005.70	7,245.69	213.88	40.62	129.33	-81.34	199.79	8,175.80	8,110.92	64.88	126.018	
14,700.00	7,078.95	10,008.87	7,245.70	216.61	40.65	128.99	-78.17	199.75	8,275.72	8,210.71	65.00	127.311	
14,800.00	7,079.47	10,012.04	7,245.72	219.33	40.68	128.66	-75.00	199.71	8,375.63	8,310.50	65.13	128.597	
14,900.00	7,079.99	10,015.21	7,245.74	222.06	40.72	128.32	-71.83	199.67	8,475.55	8,410.29	65.26	129.877	
15,000.00	7,080.51	10,018.39	7,245.75	224.78	40.75	128.00	-68.65	199.64	8,575.47	8,510.08	65.39	131.149	
15,100.00	7,081.03	10,021.56	7,245.77	227.51	40.78	127.68	-65.48	199.60	8,675.39	8,609.88	65.52	132.415	
15,200.00	7,081.54	10,024.73	7,245.78	230.24	40.81	127.36	-62.31	199.56	8,775.31	8,709.67	65.65	133.674	
15,300.00	7,082.06	10,027.90	7,245.80	232.96	40.84	127.05	-59.14	199.52	8,875.23	8,809.46	65.78	134.927	
15,400.00	7,082.58	10,031.08	7,245.82	235.69	40.87	126.74	-55.97	199.49	8,975.16	8,909.25	65.91	136.172	
15,500.00	7,083.10	10,034.25	7,245.83	238.41	40.91	126.44	-52.79	199.45	9,075.08	9,009.03	66.04	137.411	
15,600.00	7,083.62	10,037.42	7,245.85	241.14	40.94	126.14	-49.62	199.41	9,175.00	9,108.82	66.18	138.643	
15,700.00	7,084.13	10,040.59	7,245.87	243.87	40.97	125.85	-46.45	199.38	9,274.92	9,208.61	66.31	139.868	
15,800.00	7,084.65	10,043.77	7,245.88	246.60	41.00	125.56	-43.28	199.34	9,374.85	9,308.40	66.45	141.087	
15,900.00	7,085.17	10,046.94	7,245.90	249.32	41.03	125.27	-40.10	199.30	9,474.77	9,408.19	66.58	142.299	
16,000.00	7,085.69	10,050.11	7,245.92	252.05	41.06	124.99	-36.93	199.26	9,574.70	9,507.98	66.72	143.504	
16,100.00	7,086.21	10,053.28	7,245.93	254.78	41.10	124.71	-33.76	199.23	9,674.63	9,607.77	66.86	144.702	
16,200.00	7,086.73	10,056.46	7,245.95	257.51	41.13	124.44	-30.59	199.19	9,774.55	9,707.55	67.00	145.894	
16,300.00	7,087.24	10,059.63	7,245.97	260.24	41.16	124.17	-27.42	199.15	9,874.48	9,807.34	67.14	147.079	
16,400.00	7,087.76	10,062.80	7,245.98	262.97	41.19	123.90	-24.24	199.12	9,974.41	9,907.13	67.28	148.258	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1Y-HNA-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	70.16	14.98	41.52	44.14				
100.00	100.00	100.00	100.00	0.48	0.48	70.16	14.98	41.52	44.14	43.17	0.97	45.728	
200.00	200.00	200.00	200.00	1.28	1.28	70.16	14.98	41.52	44.14	41.57	2.56	17.210	
300.00	300.00	300.00	300.00	1.77	1.77	70.16	14.98	41.52	44.14	40.60	3.54	12.478	
400.00	400.00	400.00	400.00	2.15	2.15	70.16	14.98	41.52	44.14	39.84	4.30	10.262	
500.00	500.00	500.00	500.00	2.48	2.48	70.16	14.98	41.52	44.14	39.18	4.95	8.910	
600.00	600.00	600.00	600.00	2.77	2.77	70.16	14.98	41.52	44.14	38.60	5.53	7.974	
700.00	700.00	700.00	700.00	3.03	3.03	70.16	14.98	41.52	44.14	38.07	6.06	7.278	
800.00	800.00	800.00	800.00	3.28	3.28	70.16	14.98	41.52	44.14	37.58	6.56	6.732	
900.00	900.00	900.00	900.00	3.51	3.51	70.16	14.98	41.52	44.14	37.12	7.02	6.290 CC, ES	
1,000.00	999.98	999.98	999.98	3.78	3.73	-142.35	14.98	41.52	45.51	38.02	7.48	6.083	
1,083.35	1,083.22	1,083.22	1,083.22	4.28	3.90	-145.27	14.98	41.52	48.83	40.79	8.04	6.074 SF	
1,100.00	1,099.84	1,099.84	1,099.84	4.29	3.93	-145.97	14.98	41.52	49.71	41.62	8.09	6.146	
1,200.00	1,199.64	1,199.64	1,199.64	4.47	4.13	-149.69	14.98	41.52	55.13	46.64	8.49	6.495	
1,300.00	1,299.43	1,299.43	1,299.43	4.70	4.32	-152.73	14.98	41.52	60.74	51.82	8.92	6.810	
1,400.00	1,399.23	1,399.23	1,399.23	4.95	4.51	-155.26	14.98	41.52	66.49	57.14	9.36	7.108	
1,500.00	1,499.02	1,499.02	1,499.02	5.20	4.69	-157.38	14.98	41.52	72.35	62.56	9.80	7.386	
1,600.00	1,598.82	1,598.82	1,598.82	5.47	4.86	-159.18	14.98	41.52	78.30	68.06	10.24	7.645	
1,700.00	1,698.61	1,698.61	1,698.61	5.75	5.03	-160.72	14.98	41.52	84.31	73.62	10.69	7.886	
1,800.00	1,798.41	1,798.41	1,798.41	6.04	5.19	-162.06	14.98	41.52	90.37	79.23	11.15	8.108	
1,900.00	1,898.20	1,898.20	1,898.20	6.34	5.35	-163.23	14.98	41.52	96.48	84.87	11.60	8.315	
2,000.00	1,998.00	1,998.00	1,998.00	6.64	5.51	-164.26	14.98	41.52	102.62	90.56	12.06	8.507	
2,100.00	2,097.79	2,097.79	2,097.79	6.94	5.66	-165.17	14.98	41.52	108.79	96.26	12.53	8.685	
2,200.00	2,197.59	2,197.59	2,197.59	7.26	5.81	-165.99	14.98	41.52	114.98	101.99	12.99	8.851	
2,300.00	2,297.38	2,300.19	2,300.17	7.57	5.98	-166.12	13.23	41.62	120.06	106.63	13.43	8.940	
2,400.00	2,397.18	2,402.99	2,402.82	7.89	6.51	-164.96	7.80	41.94	122.79	108.78	14.01	8.764	
2,500.00	2,496.97	2,505.66	2,505.08	8.22	7.02	-162.53	-1.28	42.49	123.32	108.79	14.53	8.488	
2,600.00	2,596.77	2,607.93	2,606.55	8.54	7.52	-158.74	-13.97	43.24	122.00	107.06	14.95	8.163	
2,700.00	2,696.57	2,709.54	2,706.86	8.87	8.01	-153.42	-30.14	44.20	119.44	104.23	15.22	7.849	
2,800.00	2,796.36	2,810.26	2,805.66	9.21	8.50	-146.38	-49.66	45.37	116.55	101.25	15.30	7.617	
2,900.00	2,896.16	2,909.85	2,902.61	9.54	8.97	-137.52	-72.36	46.72	114.63	99.44	15.19	7.546	
2,931.67	2,927.76	2,941.12	2,932.88	9.65	9.12	-134.35	-80.18	47.18	114.48	99.35	15.13	7.566	
3,000.00	2,995.95	3,008.09	2,997.41	9.87	9.44	-127.05	-98.04	48.25	115.31	100.33	14.99	7.694	
3,100.00	3,095.75	3,104.78	3,089.81	10.21	9.90	-115.66	-126.47	49.94	120.35	105.42	14.93	8.063	
3,200.00	3,195.54	3,200.00	3,179.82	10.55	10.36	-104.35	-157.49	51.78	131.05	115.81	15.24	8.602	
3,300.00	3,295.34	3,292.83	3,266.52	10.89	10.80	-94.14	-190.58	53.75	147.95	132.01	15.94	9.284	
3,400.00	3,395.13	3,383.89	3,350.48	11.23	11.24	-85.44	-225.76	55.85	170.84	153.95	16.89	10.115	
3,500.00	3,494.93	3,472.83	3,431.36	11.58	11.66	-78.33	-262.67	58.05	199.12	181.20	17.93	11.108	
3,600.00	3,594.72	3,559.54	3,509.08	11.92	12.08	-72.60	-301.05	60.33	232.14	213.20	18.94	12.256	
3,700.00	3,694.52	3,643.96	3,583.59	12.26	12.48	-68.01	-340.66	62.69	269.30	249.41	19.89	13.541	
3,800.00	3,794.31	3,726.03	3,654.88	12.61	12.86	-64.31	-381.25	65.10	310.13	289.37	20.76	14.939	
3,900.00	3,894.11	3,805.73	3,722.96	12.96	13.24	-61.30	-422.60	67.57	354.26	332.70	21.56	16.432	
4,000.00	3,993.90	3,883.03	3,787.88	13.30	13.60	-58.82	-464.50	70.06	401.38	379.09	22.30	18.003	
4,100.00	4,093.70	3,957.95	3,849.68	13.65	13.95	-56.75	-506.76	72.58	451.25	428.28	22.98	19.639	
4,200.00	4,193.49	4,030.47	3,908.44	14.00	14.28	-55.02	-549.19	75.10	503.66	480.05	23.61	21.331	
4,300.00	4,293.29	4,100.00	3,963.74	14.35	14.60	-53.56	-591.26	77.61	558.42	534.23	24.19	23.085	
4,400.00	4,393.08	4,168.49	4,017.20	14.70	14.91	-52.29	-633.99	80.15	615.38	590.62	24.76	24.850	
4,500.00	4,492.88	4,234.05	4,067.40	15.05	15.18	-51.20	-676.07	82.65	674.40	649.14	25.26	26.695	
4,600.00	4,592.68	4,303.33	4,119.49	15.40	15.44	-50.17	-721.67	85.37	735.23	709.43	25.80	28.494	
4,700.00	4,692.47	4,381.59	4,178.14	15.75	15.81	-49.17	-773.41	88.45	796.56	770.06	26.50	30.063	
4,800.00	4,792.27	4,459.86	4,236.78	16.10	16.65	-48.31	-825.14	91.53	858.01	830.82	27.19	31.554	
4,900.00	4,892.06	4,538.12	4,295.42	16.45	17.50	-47.56	-876.88	94.61	919.58	891.69	27.89	32.974	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1Y-HNA-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,991.86	4,616.39	4,354.07	16.81	18.36	-46.91	-928.62	97.69	981.22	952.64	28.59	34.325	
5,100.00	5,091.85	4,694.65	4,412.71	17.16	19.22	-46.33	-980.36	100.77	1,042.94	1,013.66	29.29	35.610	
5,200.00	5,191.45	4,772.92	4,471.36	17.51	20.09	-45.81	-1,032.09	103.85	1,104.72	1,074.73	29.99	36.832	
5,300.00	5,291.24	4,851.18	4,530.00	17.87	20.96	-45.35	-1,083.83	106.93	1,166.55	1,135.85	30.70	37.996	
5,400.00	5,391.04	4,929.45	4,588.65	18.22	21.84	-44.94	-1,135.57	110.01	1,228.42	1,197.01	31.41	39.106	
5,500.00	5,490.83	5,007.71	4,647.29	18.57	22.72	-44.56	-1,187.31	113.09	1,290.33	1,258.20	32.13	40.163	
5,600.00	5,590.63	5,085.98	4,705.93	18.93	23.60	-44.22	-1,239.04	116.17	1,352.27	1,319.42	32.85	41.170	
5,700.00	5,690.42	5,169.69	4,766.76	19.28	24.48	-43.87	-1,290.77	119.25	1,414.19	1,380.17	33.57	42.177	
5,800.00	5,790.22	5,253.77	4,827.61	19.64	25.36	-43.52	-1,342.50	122.33	1,476.06	1,442.84	34.29	43.184	
5,900.00	5,890.01	5,337.85	4,888.44	19.99	26.24	-43.17	-1,394.22	125.41	1,537.93	1,504.71	35.01	44.191	
6,000.00	5,989.81	5,421.93	4,949.27	20.35	27.12	-42.82	-1,445.95	128.49	1,599.80	1,565.54	35.73	45.198	
6,100.00	6,089.60	5,506.01	5,010.10	20.70	28.00	-42.47	-1,497.68	131.57	1,661.67	1,626.67	36.45	46.205	
6,200.00	6,189.40	5,590.09	5,070.93	21.06	28.88	-42.12	-1,549.41	134.65	1,723.54	1,687.50	37.17	47.212	
6,300.00	6,289.19	5,674.18	5,131.76	21.41	29.76	-41.77	-1,601.14	137.73	1,785.41	1,748.33	37.89	48.219	
6,400.00	6,388.99	5,758.26	5,192.59	21.77	30.64	-41.42	-1,652.87	140.81	1,847.28	1,809.16	38.61	49.226	
6,498.43	6,487.22	5,780.42	5,212.56	22.12	31.52	-41.07	-1,699.00	143.89	1,909.15	1,869.03	39.33	50.233	
6,500.00	6,488.79	5,780.34	5,212.56	22.12	31.52	-41.07	-1,699.00	143.89	1,909.15	1,869.03	39.33	50.233	
6,550.00	6,538.54	5,777.96	5,209.55	22.32	31.56	-41.00	-1,709.00	144.60	1,929.00	1,888.80	40.00	51.240	
6,600.00	6,587.76	5,775.75	5,206.53	22.59	31.54	-40.91	-1,719.00	145.31	1,948.80	1,908.60	40.67	52.247	
6,650.00	6,636.08	5,773.72	5,203.52	22.84	31.53	-40.82	-1,729.00	146.02	1,968.60	1,928.40	41.33	53.254	
6,700.00	6,683.13	5,771.88	5,200.51	23.07	31.52	-40.74	-1,739.00	146.73	1,988.40	1,948.20	42.00	54.261	
6,750.00	6,728.55	5,770.26	5,197.51	23.29	31.51	-40.66	-1,749.00	147.44	2,008.20	1,968.00	42.67	55.268	
6,752.26	6,730.56	5,770.19	5,197.51	23.30	31.51	-40.65	-1,749.00	147.44	2,008.20	1,968.00	42.67	55.268	
6,800.00	6,771.99	5,768.86	5,194.50	23.51	31.50	-40.57	-1,759.00	148.15	2,028.00	1,987.80	43.33	56.275	
6,850.00	6,813.13	5,767.70	5,191.49	23.72	31.49	-40.48	-1,769.00	148.86	2,047.80	1,997.60	44.00	57.282	
6,900.00	6,851.64	5,766.78	5,188.48	23.94	31.49	-40.40	-1,779.00	149.57	2,067.60	2,007.40	44.67	58.289	
6,950.00	6,887.25	5,766.11	5,185.48	24.16	31.48	-40.32	-1,789.00	150.28	2,087.40	2,017.20	45.33	59.296	
7,000.00	6,919.67	5,765.69	5,182.48	24.38	31.48	-40.24	-1,799.00	150.99	2,107.20	2,027.00	46.00	60.303	
7,050.00	6,948.85	5,765.54	5,179.48	24.62	31.48	-40.16	-1,809.00	151.70	2,127.00	2,036.80	46.67	61.310	
7,100.00	6,973.99	5,765.64	5,176.48	24.88	31.48	-40.08	-1,819.00	152.41	2,146.80	2,046.60	47.33	62.317	
7,150.00	6,995.49	5,766.00	5,173.48	25.18	31.48	-40.00	-1,829.00	153.12	2,166.60	2,056.40	48.00	63.324	
7,200.00	7,012.97	5,766.62	5,170.49	25.51	31.49	-39.92	-1,839.00	153.83	2,186.40	2,066.20	48.67	64.331	
7,250.00	7,026.32	5,767.49	5,167.49	25.89	31.49	-39.84	-1,849.00	154.54	2,206.20	2,076.00	49.33	65.338	
7,300.00	7,035.43	5,768.60	5,164.50	26.33	31.50	-39.76	-1,859.00	155.25	2,226.00	2,085.80	50.00	66.345	
7,350.00	7,040.22	5,769.95	5,161.50	26.84	31.51	-39.68	-1,869.00	155.96	2,245.80	2,095.60	50.67	67.352	
7,377.14	7,041.00	5,770.78	5,161.51	27.14	31.51	-39.60	-1,869.00	155.96	2,245.80	2,095.60	50.67	67.352	
7,400.00	7,041.12	5,771.50	5,161.51	27.41	31.52	-39.52	-1,879.00	156.67	2,265.60	2,105.40	51.33	68.359	
7,500.00	7,041.64	5,774.68	5,161.53	28.77	31.54	-39.44	-1,909.00	158.54	2,305.99	2,116.79	52.00	69.366	
7,600.00	7,042.16	5,777.85	5,161.55	30.39	31.56	-39.36	-1,939.00	160.41	2,346.38	2,128.18	52.67	70.373	
7,700.00	7,042.67	5,781.02	5,161.56	32.22	31.58	-39.28	-1,969.00	162.28	2,386.77	2,139.57	53.33	71.380	
7,800.00	7,043.19	5,784.19	5,161.58	34.20	31.60	-39.20	-1,999.00	164.15	2,427.16	2,150.96	54.00	72.387	
7,900.00	7,043.71	5,787.37	5,161.59	36.31	31.61	-39.12	-2,029.00	166.02	2,467.55	2,162.35	54.67	73.394	
8,000.00	7,044.23	5,790.54	5,161.61	38.52	31.63	-39.04	-2,059.00	167.89	2,507.94	2,173.74	55.33	74.401	
8,100.00	7,044.75	5,793.71	5,161.63	40.80	31.65	-38.96	-2,089.00	169.76	2,548.33	2,185.13	56.00	75.408	
8,200.00	7,045.26	5,796.88	5,161.64	43.15	31.67	-38.88	-2,119.00	171.63	2,588.72	2,196.52	56.67	76.415	
8,300.00	7,045.78	5,800.06	5,161.66	45.54	31.69	-38.80	-2,149.00	173.50	2,629.11	2,207.91	57.33	77.422	
8,400.00	7,046.30	5,803.23	5,161.68	47.97	31.72	-38.72	-2,179.00	175.37	2,669.50	2,219.30	58.00	78.429	
8,500.00	7,046.82	5,806.40	5,161.69	50.44	31.74	-38.64	-2,209.00	177.24	2,709.89	2,230.69	58.67	79.436	
8,600.00	7,047.34	5,809.57	5,161.71	52.94	31.76	-38.56	-2,239.00	179.11	2,750.28	2,242.08	59.33	80.443	
8,700.00	7,047.86	5,812.75	5,161.73	55.46	31.78	-38.48	-2,269.00	180.98	2,790.67	2,253.47	60.00	81.450	
8,800.00	7,048.37	5,815.92	5,161.74	58.00	31.80	-38.40	-2,299.00	182.85	2,831.06	2,264.86	60.67	82.457	
8,900.00	7,048.89	5,819.09	5,161.76	60.56	31.82	-38.32	-2,329.00	184.72	2,871.45	2,276.25	61.33	83.464	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1Y-HNA-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,000.00	7,049.41	9,822.26	6,960.78	63.13	41.85	47.46	-257.54	199.08	2,575.68	2,514.09	61.59	41.817	
9,100.00	7,049.93	9,825.44	6,960.79	65.72	41.87	48.54	-254.37	199.04	2,675.59	2,613.95	61.64	43.406	
9,200.00	7,050.45	9,828.61	6,960.81	68.32	41.89	49.59	-251.20	199.00	2,775.50	2,713.81	61.69	44.991	
9,300.00	7,050.97	9,831.78	6,960.82	70.93	41.91	50.59	-248.03	198.96	2,875.42	2,813.68	61.74	46.573	
9,400.00	7,051.48	9,834.95	6,960.84	73.55	41.93	51.55	-244.85	198.93	2,975.33	2,913.54	61.79	48.151	
9,500.00	7,052.00	9,838.13	6,960.86	76.18	41.96	52.47	-241.68	198.89	3,075.25	3,013.41	61.85	49.725	
9,600.00	7,052.52	9,841.30	6,960.87	78.81	41.98	53.35	-238.51	198.85	3,175.17	3,113.27	61.90	51.295	
9,700.00	7,053.04	9,844.47	6,960.89	81.46	42.00	54.20	-235.34	198.82	3,275.09	3,213.14	61.96	52.861	
9,800.00	7,053.56	9,847.64	6,960.91	84.10	42.02	55.02	-232.16	198.78	3,375.02	3,313.00	62.01	54.423	
9,900.00	7,054.08	9,850.82	6,960.92	86.76	42.04	55.80	-228.99	198.74	3,474.94	3,412.87	62.07	55.981	
10,000.00	7,054.59	9,853.99	6,960.94	89.42	42.06	56.56	-225.82	198.70	3,574.87	3,512.74	62.13	57.534	
10,100.00	7,055.11	9,857.16	6,960.96	92.08	42.09	57.28	-222.65	198.67	3,674.80	3,612.60	62.20	59.083	
10,200.00	7,055.63	9,860.33	6,960.97	94.75	42.11	57.98	-219.48	198.63	3,774.73	3,712.47	62.26	60.627	
10,300.00	7,056.15	9,863.51	6,960.99	97.42	42.13	58.65	-216.30	198.59	3,874.66	3,812.33	62.33	62.167	
10,400.00	7,056.67	9,866.68	6,961.00	100.10	42.15	59.30	-213.13	198.55	3,974.59	3,912.19	62.39	63.702	
10,500.00	7,057.18	9,869.85	6,961.02	102.78	42.17	59.92	-209.96	198.52	4,074.52	4,012.06	62.46	65.232	
10,600.00	7,057.70	9,873.02	6,961.04	105.46	42.20	60.53	-206.79	198.48	4,174.45	4,111.92	62.53	66.758	
10,700.00	7,058.22	9,876.20	6,961.05	108.14	42.22	61.11	-203.61	198.44	4,274.39	4,211.78	62.60	68.278	
10,800.00	7,058.74	9,879.37	6,961.07	110.83	42.24	61.67	-200.44	198.41	4,374.32	4,311.65	62.68	69.794	
10,900.00	7,059.26	9,882.54	6,961.09	113.52	42.26	62.21	-197.27	198.37	4,474.26	4,411.51	62.75	71.304	
11,000.00	7,059.78	9,885.71	6,961.10	116.21	42.28	62.73	-194.10	198.33	4,574.19	4,511.37	62.82	72.809	
11,100.00	7,060.29	9,888.89	6,961.12	118.90	42.30	63.24	-190.93	198.29	4,674.13	4,611.23	62.90	74.309	
11,200.00	7,060.81	9,892.06	6,961.14	121.60	42.33	63.72	-187.75	198.26	4,774.06	4,711.08	62.98	75.803	
11,300.00	7,061.33	9,895.23	6,961.15	124.30	42.35	64.20	-184.58	198.22	4,874.00	4,810.94	63.06	77.292	
11,400.00	7,061.85	9,898.40	6,961.17	127.00	42.37	64.65	-181.41	198.18	4,973.94	4,910.80	63.14	78.776	
11,500.00	7,062.37	9,901.58	6,961.19	129.70	42.39	65.09	-178.24	198.15	5,073.88	5,010.65	63.22	80.253	
11,600.00	7,062.89	9,904.75	6,961.20	132.40	42.42	65.52	-175.06	198.11	5,173.82	5,110.51	63.31	81.722	
11,700.00	7,063.40	9,907.92	6,961.22	135.10	42.44	65.94	-171.89	198.07	5,273.76	5,210.36	63.40	83.187	
11,800.00	7,063.92	9,911.09	6,961.23	137.81	42.46	66.34	-168.72	198.03	5,373.70	5,310.21	63.49	84.645	
11,900.00	7,064.44	9,914.27	6,961.25	140.51	42.49	66.73	-165.55	198.00	5,473.64	5,410.06	63.57	86.098	
12,000.00	7,064.96	9,917.44	6,961.27	143.22	42.51	67.11	-162.38	197.96	5,573.58	5,509.91	63.67	87.544	
12,100.00	7,065.48	9,920.61	6,961.28	145.93	42.54	67.47	-159.20	197.92	5,673.52	5,609.76	63.76	88.985	
12,200.00	7,066.00	9,923.78	6,961.30	148.64	42.56	67.83	-156.03	197.88	5,773.46	5,709.61	63.85	90.420	
12,300.00	7,066.51	9,926.96	6,961.32	151.35	42.58	68.17	-152.86	197.85	5,873.40	5,809.45	63.95	91.849	
12,400.00	7,067.03	9,930.13	6,961.33	154.06	42.61	68.51	-149.69	197.81	5,973.34	5,909.30	64.04	93.271	
12,500.00	7,067.55	9,933.30	6,961.35	156.77	42.63	68.83	-146.51	197.77	6,073.28	6,009.14	64.14	94.688	
12,600.00	7,068.07	9,936.47	6,961.37	159.49	42.65	69.15	-143.34	197.74	6,173.22	6,108.99	64.24	96.098	
12,700.00	7,068.59	9,939.65	6,961.38	162.20	42.68	69.46	-140.17	197.70	6,273.17	6,208.83	64.34	97.503	
12,800.00	7,069.11	9,942.82	6,961.40	164.92	42.70	69.76	-137.00	197.66	6,373.11	6,308.67	64.44	98.901	
12,900.00	7,069.62	9,945.99	6,961.41	167.63	42.73	70.05	-133.83	197.62	6,473.05	6,408.51	64.54	100.293	
13,000.00	7,070.14	9,949.16	6,961.43	170.35	42.75	70.33	-130.65	197.59	6,572.99	6,508.35	64.64	101.678	
13,100.00	7,070.66	9,952.34	6,961.45	173.07	42.77	70.61	-127.48	197.55	6,672.94	6,608.19	64.75	103.058	
13,200.00	7,071.18	9,955.51	6,961.46	175.78	42.80	70.88	-124.31	197.51	6,772.88	6,708.03	64.86	104.431	
13,300.00	7,071.70	9,958.68	6,961.48	178.50	42.82	71.14	-121.14	197.48	6,872.82	6,807.86	64.96	105.798	
13,400.00	7,072.21	9,961.85	6,961.50	181.22	42.84	71.39	-117.96	197.44	6,972.77	6,907.70	65.07	107.158	
13,500.00	7,072.73	9,965.02	6,961.51	183.94	42.87	71.64	-114.79	197.40	7,072.71	7,007.53	65.18	108.512	
13,600.00	7,073.25	9,968.20	6,961.53	186.66	42.89	71.88	-111.62	197.36	7,172.66	7,107.37	65.29	109.860	
13,700.00	7,073.77	9,971.37	6,961.55	189.38	42.92	72.12	-108.45	197.33	7,272.60	7,207.20	65.40	111.201	
13,800.00	7,074.29	9,974.54	6,961.56	192.10	42.94	72.35	-105.28	197.29	7,372.54	7,307.03	65.51	112.536	
13,900.00	7,074.81	9,977.71	6,961.58	194.82	42.96	72.57	-102.10	197.25	7,472.49	7,406.86	65.63	113.864	
14,000.00	7,075.32	9,980.89	6,961.60	197.54	42.99	72.79	-98.93	197.21	7,572.43	7,506.69	65.74	115.186	
14,100.00	7,075.84	9,984.06	6,961.61	200.27	43.01	73.01	-95.76	197.18	7,672.38	7,606.52	65.86	116.502	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 1Y-HNA-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,200.00	7,076.36	9,987.23	6,961.63	202.99	43.04	73.22	-92.59	197.14	7,772.32	7,706.35	65.97	117.811	
14,300.00	7,076.88	9,990.40	6,961.64	205.71	43.06	73.42	-89.41	197.10	7,872.27	7,806.18	66.09	119.114	
14,400.00	7,077.40	9,993.58	6,961.66	208.44	43.08	73.62	-86.24	197.07	7,972.21	7,906.00	66.21	120.410	
14,500.00	7,077.92	9,996.75	6,961.68	211.16	43.11	73.82	-83.07	197.03	8,072.16	8,005.83	66.33	121.699	
14,600.00	7,078.43	9,999.92	6,961.69	213.88	43.13	74.01	-79.90	196.99	8,172.10	8,105.65	66.45	122.983	
14,700.00	7,078.95	10,003.09	6,961.71	216.61	43.16	74.19	-76.73	196.95	8,272.05	8,205.48	66.57	124.256	
14,800.00	7,079.47	10,006.27	6,961.73	219.33	43.18	74.38	-73.55	196.92	8,371.99	8,305.30	66.70	125.523	
14,900.00	7,079.99	10,009.44	6,961.74	222.06	43.21	74.55	-70.38	196.88	8,471.94	8,405.12	66.82	126.783	
15,000.00	7,080.51	10,012.61	6,961.76	224.78	43.23	74.73	-67.21	196.84	8,571.89	8,504.94	66.95	128.037	
15,100.00	7,081.03	10,015.78	6,961.78	227.51	43.26	74.90	-64.04	196.80	8,671.83	8,604.76	67.08	129.284	
15,200.00	7,081.54	10,018.96	6,961.79	230.24	43.28	75.07	-60.86	196.77	8,771.78	8,704.57	67.20	130.525	
15,300.00	7,082.06	10,022.13	6,961.81	232.96	43.31	75.23	-57.69	196.73	8,871.72	8,804.39	67.33	131.759	
15,400.00	7,082.58	10,025.30	6,961.83	235.69	43.34	75.39	-54.52	196.69	8,971.67	8,904.21	67.46	132.987	
15,500.00	7,083.10	10,028.47	6,961.84	238.41	43.36	75.55	-51.35	196.66	9,071.62	9,004.02	67.59	134.209	
15,600.00	7,083.62	10,031.65	6,961.86	241.14	43.39	75.70	-48.18	196.62	9,171.56	9,103.84	67.73	135.423	
15,700.00	7,084.13	10,034.82	6,961.87	243.87	43.41	75.85	-45.00	196.58	9,271.51	9,203.65	67.86	136.632	
15,800.00	7,084.65	10,037.99	6,961.89	246.60	43.44	76.00	-41.83	196.54	9,371.45	9,303.46	67.99	137.834	
15,900.00	7,085.17	10,041.16	6,961.91	249.32	43.46	76.14	-38.66	196.51	9,471.40	9,403.28	68.13	139.030	
16,000.00	7,085.69	10,044.34	6,961.92	252.05	43.49	76.29	-35.49	196.47	9,571.35	9,503.09	68.26	140.219	
16,100.00	7,086.21	10,047.51	6,961.94	254.78	43.52	76.43	-32.31	196.43	9,671.29	9,602.90	68.40	141.402	
16,200.00	7,086.73	10,050.68	6,961.96	257.51	43.54	76.56	-29.14	196.40	9,771.24	9,702.71	68.53	142.578	
16,300.00	7,087.24	10,053.85	6,961.97	260.24	43.57	76.70	-25.97	196.36	9,871.19	9,802.52	68.67	143.749	
16,400.00	7,087.76	10,057.03	6,961.99	262.97	43.59	76.83	-22.80	196.32	9,971.13	9,902.33	68.81	144.913	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	20.31	43.88	16.24	46.79				
100.00	100.00	100.00	100.00	0.48	0.48	20.31	43.88	16.24	46.79	45.82	0.97	48.474	
200.00	200.00	200.00	200.00	1.28	1.28	20.31	43.88	16.24	46.79	44.22	2.56	18.243	
300.00	300.00	300.00	300.00	1.77	1.77	20.31	43.88	16.24	46.79	43.25	3.54	13.227	
400.00	400.00	400.00	400.00	2.15	2.15	20.31	43.88	16.24	46.79	42.49	4.30	10.878	
500.00	500.00	500.00	500.00	2.48	2.48	20.31	43.88	16.24	46.79	41.83	4.95	9.445	
600.00	600.00	600.00	600.00	2.77	2.77	20.31	43.88	16.24	46.79	41.25	5.53	8.453 CC, ES	
700.00	700.00	698.57	698.55	3.03	3.31	19.29	45.55	15.95	48.28	42.00	6.28	7.687	
800.00	800.00	796.91	796.75	3.28	4.19	16.60	50.54	15.07	52.84	45.53	7.30	7.234	
900.00	900.00	894.78	894.26	3.51	4.95	13.04	58.80	13.62	60.63	52.37	8.26	7.340	
1,000.00	999.98	991.78	990.56	3.78	5.63	158.64	70.22	11.61	73.41	64.22	9.18	7.996	
1,083.35	1,083.22	1,071.48	1,069.35	4.28	6.16	156.80	82.00	9.54	89.01	78.88	10.13	8.784	
1,100.00	1,099.84	1,087.25	1,084.91	4.29	6.26	156.54	84.59	9.08	92.62	82.37	10.25	9.039	
1,200.00	1,199.64	1,181.15	1,177.18	4.47	6.84	155.04	101.74	6.07	116.07	105.09	10.98	10.569	
1,300.00	1,299.43	1,275.99	1,269.85	4.70	7.14	153.73	121.57	2.58	142.15	130.67	11.49	12.375	
1,400.00	1,399.23	1,372.41	1,364.00	4.95	7.40	152.79	142.02	-1.01	168.57	156.58	11.99	14.060	
1,500.00	1,499.02	1,468.82	1,458.15	5.20	7.69	152.11	162.47	-4.60	195.02	182.50	12.53	15.570	
1,600.00	1,598.82	1,565.24	1,552.31	5.47	8.00	151.58	182.92	-8.20	221.49	208.41	13.09	16.927	
1,700.00	1,698.61	1,661.65	1,646.46	5.75	8.32	151.17	203.38	-11.79	247.97	234.31	13.66	18.147	
1,800.00	1,798.41	1,758.07	1,740.62	6.04	8.65	150.84	223.83	-15.39	274.47	260.20	14.26	19.244	
1,900.00	1,898.20	1,854.49	1,834.77	6.34	8.99	150.57	244.28	-18.98	300.97	286.09	14.88	20.232	
2,000.00	1,998.00	1,950.90	1,928.92	6.64	9.35	150.34	264.73	-22.57	327.47	311.97	15.50	21.123	
2,100.00	2,097.79	2,047.32	2,023.08	6.94	9.71	150.14	285.18	-26.17	353.98	337.84	16.14	21.927	
2,200.00	2,197.59	2,143.73	2,117.23	7.26	10.08	149.98	305.63	-29.76	380.49	363.70	16.79	22.655	
2,300.00	2,297.38	2,240.15	2,211.38	7.57	10.46	149.83	326.08	-33.36	407.01	389.55	17.46	23.316	
2,400.00	2,397.18	2,336.56	2,305.54	7.89	10.85	149.70	346.53	-36.95	433.52	415.40	18.13	23.916	
2,500.00	2,496.97	2,432.98	2,399.69	8.22	11.24	149.59	366.98	-40.54	460.04	441.24	18.80	24.464	
2,600.00	2,596.77	2,529.40	2,493.84	8.54	11.63	149.49	387.43	-44.14	486.56	467.07	19.49	24.964	
2,700.00	2,696.57	2,625.81	2,588.00	8.87	12.03	149.40	407.88	-47.73	513.08	492.90	20.18	25.422	
2,800.00	2,796.36	2,722.23	2,682.15	9.21	12.44	149.32	428.33	-51.33	539.61	518.73	20.88	25.843	
2,900.00	2,896.16	2,818.64	2,776.30	9.54	12.85	149.24	448.78	-54.92	566.13	544.55	21.58	26.230	
3,000.00	2,995.95	2,915.06	2,870.46	9.87	13.26	149.18	469.23	-58.51	592.65	570.36	22.29	26.587	
3,100.00	3,095.75	3,011.48	2,964.61	10.21	13.67	149.11	489.68	-62.11	619.18	596.18	23.00	26.917	
3,200.00	3,195.54	3,107.89	3,058.77	10.55	14.09	149.06	510.13	-65.70	645.70	621.98	23.72	27.223	
3,300.00	3,295.34	3,204.31	3,152.92	10.89	14.51	149.01	530.58	-69.30	672.23	647.79	24.44	27.507	
3,400.00	3,395.13	3,300.72	3,247.07	11.23	14.94	148.96	551.03	-72.89	698.76	673.59	25.16	27.770	
3,500.00	3,494.93	3,397.14	3,341.23	11.58	15.36	148.91	571.48	-76.48	725.28	699.40	25.89	28.016	
3,600.00	3,594.72	3,493.56	3,435.38	11.92	15.79	148.87	591.93	-80.08	751.81	725.19	26.62	28.245	
3,700.00	3,694.52	3,589.97	3,529.53	12.26	16.22	148.83	612.38	-83.67	778.34	750.99	27.35	28.460	
3,800.00	3,794.31	3,686.39	3,623.69	12.61	16.65	148.80	632.84	-87.27	804.87	776.78	28.08	28.661	
3,900.00	3,894.11	3,782.80	3,717.84	12.96	17.08	148.76	653.29	-90.86	831.40	802.58	28.82	28.849	
4,000.00	3,993.90	3,879.22	3,811.99	13.30	17.52	148.73	673.74	-94.45	857.92	828.37	29.56	29.026	
4,100.00	4,093.70	3,975.64	3,906.15	13.65	17.95	148.70	694.19	-98.05	884.45	854.16	30.30	29.193	
4,200.00	4,193.49	4,072.05	4,000.30	14.00	18.39	148.67	714.64	-101.64	910.98	879.94	31.04	29.350	
4,300.00	4,293.29	4,168.47	4,094.45	14.35	18.83	148.65	735.09	-105.24	937.51	905.73	31.78	29.498	
4,400.00	4,393.08	4,264.88	4,188.61	14.70	19.27	148.62	755.54	-108.83	964.04	931.51	32.53	29.638	
4,500.00	4,492.88	4,361.30	4,282.76	15.05	19.71	148.60	775.99	-112.42	990.57	957.30	33.27	29.770	
4,600.00	4,592.68	4,457.72	4,376.92	15.40	20.15	148.58	796.44	-116.02	1,017.10	983.08	34.02	29.895	
4,700.00	4,692.47	4,554.13	4,471.07	15.75	20.59	148.56	816.89	-119.61	1,043.63	1,008.86	34.77	30.014	
4,800.00	4,792.27	4,650.55	4,565.22	16.10	21.03	148.54	837.34	-123.21	1,070.16	1,034.64	35.52	30.127	
4,900.00	4,892.06	4,746.96	4,659.38	16.45	21.48	148.52	857.79	-126.80	1,096.69	1,060.42	36.27	30.234	
5,000.00	4,991.86	4,843.38	4,753.53	16.81	21.92	148.50	878.24	-130.39	1,123.22	1,086.19	37.03	30.336	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,939.80	4,847.68	17.16	22.37	148.48	898.69	-133.99	1,149.75	1,111.97	37.78	30.433	
5,200.00	5,191.45	5,036.21	4,941.84	17.51	22.81	148.46	919.14	-137.58	1,176.28	1,137.75	38.53	30.525	
5,300.00	5,291.24	5,132.63	5,035.99	17.87	23.26	148.45	939.59	-141.18	1,202.81	1,163.52	39.29	30.614	
5,400.00	5,391.04	5,229.04	5,130.14	18.22	23.71	148.43	960.04	-144.77	1,229.34	1,189.29	40.05	30.698	
5,500.00	5,490.83	5,325.46	5,224.30	18.57	24.16	148.42	980.49	-148.36	1,255.87	1,215.07	40.80	30.778	
5,600.00	5,590.63	5,421.87	5,318.45	18.93	24.60	148.40	1,000.94	-151.96	1,282.40	1,240.84	41.56	30.855	
5,700.00	5,690.42	5,518.29	5,412.60	19.28	25.05	148.39	1,021.39	-155.55	1,308.93	1,266.61	42.32	30.929	
5,800.00	5,790.22	5,614.71	5,506.76	19.64	25.50	148.38	1,041.84	-159.15	1,335.46	1,292.38	43.08	30.999	
5,900.00	5,890.01	5,711.12	5,600.91	19.99	25.95	148.36	1,062.30	-162.74	1,361.99	1,318.15	43.84	31.067	
6,000.00	5,989.81	5,807.54	5,695.06	20.35	26.40	148.35	1,082.75	-166.33	1,388.53	1,343.92	44.60	31.132	
6,100.00	6,089.60	5,903.95	5,789.22	20.70	26.85	148.34	1,103.20	-169.93	1,415.06	1,369.69	45.36	31.194	
6,200.00	6,189.40	6,000.37	5,883.37	21.06	27.30	148.33	1,123.65	-173.52	1,441.59	1,395.46	46.13	31.254	
6,300.00	6,289.19	6,096.79	5,977.53	21.41	27.76	148.32	1,144.10	-177.12	1,468.12	1,421.23	46.89	31.311	
6,400.00	6,388.99	6,193.20	6,071.68	21.77	28.21	148.31	1,164.55	-180.71	1,494.65	1,447.00	47.65	31.366	
6,498.43	6,487.22	6,288.11	6,164.36	22.12	28.65	148.30	1,184.68	-184.25	1,520.77	1,472.36	48.40	31.419	
6,500.00	6,488.79	6,289.62	6,165.83	22.12	28.66	146.18	1,185.00	-184.30	1,521.18	1,472.77	48.41	31.420	
6,550.00	6,538.54	6,337.78	6,212.87	22.32	28.89	111.44	1,195.21	-186.10	1,534.36	1,485.55	48.81	31.435	
6,600.00	6,587.76	6,385.62	6,259.58	22.59	29.11	100.78	1,205.36	-187.88	1,547.33	1,498.09	49.24	31.427	
6,650.00	6,636.08	6,432.76	6,305.61	22.84	29.33	95.67	1,215.36	-189.64	1,560.04	1,510.44	49.60	31.452	
6,700.00	6,683.13	6,478.84	6,350.62	23.07	29.55	92.60	1,225.13	-191.36	1,572.49	1,522.53	49.96	31.475	
6,750.00	6,728.55	6,523.52	6,394.25	23.29	29.76	90.53	1,234.61	-193.02	1,584.68	1,534.36	50.33	31.489	
6,800.00	6,771.99	6,566.46	6,436.18	23.51	29.96	89.06	1,243.72	-194.62	1,596.68	1,545.98	50.70	31.491	
6,850.00	6,813.13	6,607.32	6,476.08	23.72	30.15	87.95	1,252.39	-196.15	1,608.54	1,557.45	51.09	31.482	
6,900.00	6,851.64	6,645.81	6,513.66	23.94	30.34	87.07	1,260.55	-197.58	1,620.35	1,568.84	51.50	31.461	
6,950.00	6,887.25	6,681.61	6,548.63	24.16	30.50	86.34	1,268.14	-198.92	1,632.19	1,580.26	51.93	31.429	
7,000.00	6,919.67	6,714.47	6,580.71	24.38	30.66	85.67	1,275.11	-200.14	1,644.17	1,591.78	52.38	31.387	
7,050.00	6,948.65	6,744.13	6,609.68	24.62	30.80	85.03	1,281.40	-201.25	1,656.36	1,603.50	52.86	31.336	
7,100.00	6,973.99	6,770.37	6,635.30	24.88	30.92	84.35	1,286.97	-202.22	1,668.85	1,615.50	53.35	31.279	
7,150.00	6,995.49	6,792.98	6,657.38	25.18	31.03	83.60	1,291.76	-203.07	1,681.71	1,627.84	53.87	31.218	
7,200.00	7,012.97	6,811.80	6,675.76	25.51	31.12	82.74	1,295.76	-203.77	1,694.98	1,640.58	54.40	31.158	
7,250.00	7,026.32	6,826.67	6,690.29	25.89	31.18	81.76	1,298.91	-204.32	1,708.66	1,653.73	54.94	31.103	
7,300.00	7,035.43	6,837.50	6,700.86	26.33	31.23	80.64	1,301.21	-204.73	1,722.77	1,667.30	55.47	31.056	
7,350.00	7,040.22	6,844.19	6,707.40	26.84	31.26	79.36	1,302.63	-204.98	1,737.25	1,681.25	56.00	31.023	
7,377.14	7,041.00	6,846.08	6,709.23	27.14	31.27	78.61	1,303.03	-205.05	1,745.24	1,688.96	56.27	31.013	
7,400.00	7,041.12	6,847.14	6,710.27	27.41	31.28	78.65	1,303.25	-205.09	1,752.14	1,695.64	56.50	31.009	
7,500.00	7,041.64	7,787.70	7,250.33	28.77	37.70	96.80	1,433.01	-836.45	1,763.99	1,699.44	64.55	27.329	
7,600.00	7,042.16	7,887.70	7,250.85	30.39	39.19	96.79	1,435.16	-936.43	1,764.14	1,696.38	67.77	26.033	
7,700.00	7,042.67	7,987.70	7,251.37	32.22	40.82	96.79	1,437.31	-1,036.40	1,764.30	1,693.05	71.25	24.763	
7,800.00	7,043.19	8,087.70	7,251.89	34.20	42.56	96.79	1,439.47	-1,136.38	1,764.45	1,689.49	74.96	23.539	
7,900.00	7,043.71	8,187.70	7,252.41	36.31	44.39	96.79	1,441.62	-1,236.35	1,764.60	1,685.74	78.86	22.376	
8,000.00	7,044.23	8,287.70	7,252.93	38.52	46.31	96.79	1,443.77	-1,336.33	1,764.76	1,681.82	82.94	21.279	
8,100.00	7,044.75	8,387.70	7,253.45	40.80	48.30	96.79	1,445.92	-1,436.31	1,764.91	1,677.76	87.15	20.251	
8,200.00	7,045.26	8,487.70	7,253.97	43.15	50.35	96.79	1,448.07	-1,536.28	1,765.07	1,673.57	91.50	19.291	
8,300.00	7,045.78	8,587.70	7,254.49	45.54	52.46	96.79	1,450.22	-1,636.26	1,765.22	1,669.27	95.95	18.397	
8,400.00	7,046.30	8,687.70	7,255.00	47.97	54.63	96.79	1,452.37	-1,736.23	1,765.37	1,664.87	100.50	17.566	
8,500.00	7,046.82	8,787.70	7,255.52	50.44	56.83	96.79	1,454.53	-1,836.21	1,765.53	1,660.40	105.13	16.794	
8,600.00	7,047.34	8,887.70	7,256.04	52.94	59.08	96.79	1,456.68	-1,936.18	1,765.68	1,655.85	109.83	16.076	
8,700.00	7,047.86	8,987.70	7,256.56	55.46	61.36	96.79	1,458.83	-2,036.16	1,765.83	1,651.23	114.60	15.409	
8,800.00	7,048.37	9,087.70	7,257.08	58.00	63.68	96.79	1,460.98	-2,136.13	1,765.99	1,646.56	119.43	14.787	
8,900.00	7,048.89	9,187.70	7,257.60	60.56	66.02	96.79	1,463.13	-2,236.11	1,766.14	1,641.84	124.30	14.209	
9,000.00	7,049.41	9,287.69	7,258.12	63.13	68.39	96.79	1,465.28	-2,336.08	1,766.30	1,637.08	129.22	13.669	
9,100.00	7,049.93	9,387.69	7,258.64	65.72	70.79	96.79	1,467.43	-2,436.06	1,766.45	1,632.27	134.18	13.165	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,050.45	9,487.69	7,259.15	68.32	73.21	96.79	1,469.59	-2,536.03	1,766.60	1,627.43	139.17	12.694	
9,300.00	7,050.97	9,587.69	7,259.67	70.93	75.65	96.78	1,471.74	-2,636.01	1,766.76	1,622.56	144.20	12.253	
9,400.00	7,051.48	9,687.69	7,260.19	73.55	78.10	96.78	1,473.89	-2,735.99	1,766.91	1,617.66	149.25	11.839	
9,500.00	7,052.00	9,787.69	7,260.71	76.18	80.58	96.78	1,476.04	-2,835.96	1,767.06	1,612.74	154.33	11.450	
9,600.00	7,052.52	9,887.69	7,261.23	78.81	83.07	96.78	1,478.19	-2,935.94	1,767.22	1,607.79	159.43	11.084	
9,700.00	7,053.04	9,987.69	7,261.75	81.46	85.57	96.78	1,480.34	-3,035.91	1,767.37	1,602.81	164.56	10.740	
9,800.00	7,053.56	10,087.69	7,262.27	84.10	88.09	96.78	1,482.49	-3,135.89	1,767.53	1,597.82	169.70	10.415	
9,900.00	7,054.08	10,187.69	7,262.79	86.76	90.62	96.78	1,484.64	-3,235.86	1,767.68	1,592.81	174.87	10.109	
10,000.00	7,054.59	10,287.69	7,263.31	89.42	93.16	96.78	1,486.80	-3,335.84	1,767.83	1,587.79	180.04	9.819	
10,100.00	7,055.11	10,387.69	7,263.82	92.08	95.71	96.78	1,488.95	-3,435.81	1,767.99	1,582.75	185.24	9.544	
10,200.00	7,055.63	10,487.69	7,264.34	94.75	98.27	96.78	1,491.10	-3,535.79	1,768.14	1,577.70	190.44	9.284	
10,300.00	7,056.15	10,587.69	7,264.86	97.42	100.84	96.78	1,493.25	-3,635.76	1,768.29	1,572.63	195.66	9.037	
10,400.00	7,056.67	10,687.69	7,265.38	100.10	103.41	96.78	1,495.40	-3,735.74	1,768.45	1,567.55	200.89	8.803	
10,500.00	7,057.18	10,787.69	7,265.90	102.78	106.00	96.78	1,497.55	-3,835.71	1,768.60	1,562.47	206.14	8.580	
10,600.00	7,057.70	10,887.69	7,266.42	105.46	108.59	96.78	1,499.70	-3,935.69	1,768.76	1,557.37	211.39	8.367	
10,700.00	7,058.22	10,987.69	7,266.94	108.14	111.19	96.78	1,501.86	-4,035.67	1,768.91	1,552.26	216.65	8.165	
10,800.00	7,058.74	11,087.69	7,267.46	110.83	113.80	96.78	1,504.01	-4,135.64	1,769.06	1,547.15	221.92	7.972	
10,900.00	7,059.26	11,187.69	7,267.98	113.52	116.41	96.78	1,506.16	-4,235.62	1,769.22	1,542.02	227.20	7.787	
11,000.00	7,059.78	11,287.69	7,268.49	116.21	119.02	96.78	1,508.31	-4,335.59	1,769.37	1,536.89	232.48	7.611	
11,100.00	7,060.29	11,387.69	7,269.01	118.90	121.64	96.77	1,510.46	-4,435.57	1,769.52	1,531.75	237.77	7.442	
11,200.00	7,060.81	11,487.69	7,269.53	121.60	124.27	96.77	1,512.61	-4,535.54	1,769.68	1,526.61	243.07	7.280	
11,300.00	7,061.33	11,587.69	7,270.05	124.30	126.90	96.77	1,514.76	-4,635.52	1,769.83	1,521.46	248.38	7.126	
11,400.00	7,061.85	11,687.69	7,270.57	127.00	129.54	96.77	1,516.91	-4,735.49	1,769.99	1,516.30	253.69	6.977	
11,500.00	7,062.37	11,787.69	7,271.09	129.70	132.17	96.77	1,519.07	-4,835.47	1,770.14	1,511.14	259.00	6.834	
11,600.00	7,062.89	11,887.69	7,271.61	132.40	134.82	96.77	1,521.22	-4,935.44	1,770.29	1,505.97	264.32	6.697	
11,700.00	7,063.40	11,987.69	7,272.13	135.10	137.46	96.77	1,523.37	-5,035.42	1,770.45	1,500.80	269.65	6.566	
11,800.00	7,063.92	12,087.69	7,272.65	137.81	140.11	96.77	1,525.52	-5,135.40	1,770.60	1,495.62	274.98	6.439	
11,900.00	7,064.44	12,187.69	7,273.16	140.51	142.77	96.77	1,527.67	-5,235.37	1,770.75	1,490.44	280.31	6.317	
12,000.00	7,064.96	12,287.69	7,273.68	143.22	145.42	96.77	1,529.82	-5,335.35	1,770.91	1,485.26	285.65	6.200	
12,100.00	7,065.48	12,387.69	7,274.20	145.93	148.08	96.77	1,531.97	-5,435.32	1,771.06	1,480.07	290.99	6.086	
12,200.00	7,066.00	12,487.69	7,274.72	148.64	150.74	96.77	1,534.13	-5,535.30	1,771.22	1,474.88	296.34	5.977	
12,300.00	7,066.51	12,587.69	7,275.24	151.35	153.41	96.77	1,536.28	-5,635.27	1,771.37	1,469.68	301.69	5.872	
12,400.00	7,067.03	12,687.69	7,275.76	154.06	156.07	96.77	1,538.43	-5,735.25	1,771.52	1,464.49	307.04	5.770	
12,500.00	7,067.55	12,787.69	7,276.28	156.77	158.74	96.77	1,540.58	-5,835.22	1,771.68	1,459.28	312.39	5.671	
12,600.00	7,068.07	12,887.69	7,276.80	159.49	161.41	96.77	1,542.73	-5,935.20	1,771.83	1,454.08	317.75	5.576	
12,700.00	7,068.59	12,987.69	7,277.32	162.20	164.09	96.77	1,544.88	-6,035.17	1,771.98	1,448.87	323.11	5.484	
12,800.00	7,069.11	13,087.69	7,277.83	164.92	166.76	96.76	1,547.03	-6,135.15	1,772.14	1,443.66	328.47	5.395	
12,900.00	7,069.62	13,187.69	7,278.35	167.63	169.44	96.76	1,549.19	-6,235.12	1,772.29	1,438.45	333.84	5.309	
13,000.00	7,070.14	13,287.69	7,278.87	170.35	172.12	96.76	1,551.34	-6,335.10	1,772.45	1,433.24	339.21	5.225	
13,100.00	7,070.66	13,387.69	7,279.39	173.07	174.80	96.76	1,553.49	-6,435.08	1,772.60	1,428.02	344.58	5.144	
13,200.00	7,071.18	13,487.69	7,279.91	175.78	177.48	96.76	1,555.64	-6,535.05	1,772.75	1,422.80	349.95	5.066	
13,300.00	7,071.70	13,587.69	7,280.43	178.50	180.17	96.76	1,557.79	-6,635.03	1,772.91	1,417.58	355.33	4.990	
13,400.00	7,072.21	13,687.69	7,280.95	181.22	182.85	96.76	1,559.94	-6,735.00	1,773.06	1,412.36	360.70	4.916	
13,500.00	7,072.73	13,787.69	7,281.47	183.94	185.54	96.76	1,562.09	-6,834.98	1,773.22	1,407.13	366.08	4.844	
13,600.00	7,073.25	13,887.69	7,281.99	186.66	188.23	96.76	1,564.24	-6,934.95	1,773.37	1,401.91	371.46	4.774	
13,700.00	7,073.77	13,987.69	7,282.50	189.38	190.92	96.76	1,566.40	-7,034.93	1,773.52	1,396.68	376.84	4.706	
13,800.00	7,074.29	14,087.69	7,283.02	192.10	193.61	96.76	1,568.55	-7,134.90	1,773.68	1,391.45	382.23	4.640	
13,900.00	7,074.81	14,187.69	7,283.54	194.82	196.31	96.76	1,570.70	-7,234.88	1,773.83	1,386.22	387.61	4.576	
14,000.00	7,075.32	14,287.69	7,284.06	197.54	199.00	96.76	1,572.85	-7,334.85	1,773.98	1,380.99	393.00	4.514	
14,100.00	7,075.84	14,387.69	7,284.58	200.27	201.69	96.76	1,575.00	-7,434.83	1,774.14	1,375.75	398.39	4.453	
14,200.00	7,076.36	14,487.69	7,285.10	202.99	204.39	96.76	1,577.15	-7,534.80	1,774.29	1,370.52	403.78	4.394	
14,300.00	7,076.88	14,587.69	7,285.62	205.71	207.09	96.76	1,579.30	-7,634.78	1,774.45	1,365.28	409.17	4.337	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,400.00	7,077.40	14,687.69	7,286.14	208.44	209.79	96.76	1,581.46	-7,734.76	1,774.60	1,360.04	414.56	4.281	
14,500.00	7,077.92	14,787.69	7,286.66	211.16	212.49	96.76	1,583.61	-7,834.73	1,774.75	1,354.80	419.95	4.226	
14,600.00	7,078.43	14,887.69	7,287.17	213.88	215.19	96.75	1,585.76	-7,934.71	1,774.91	1,349.56	425.35	4.173	
14,700.00	7,078.95	14,987.69	7,287.69	216.61	217.89	96.75	1,587.91	-8,034.68	1,775.06	1,344.32	430.74	4.121	
14,800.00	7,079.47	15,087.69	7,288.21	219.33	220.59	96.75	1,590.06	-8,134.66	1,775.21	1,339.08	436.14	4.070	
14,900.00	7,079.99	15,187.69	7,288.73	222.06	223.29	96.75	1,592.21	-8,234.63	1,775.37	1,333.83	441.54	4.021	
15,000.00	7,080.51	15,287.69	7,289.25	224.78	226.00	96.75	1,594.36	-8,334.61	1,775.52	1,328.59	446.93	3.973	
15,100.00	7,081.03	15,387.69	7,289.77	227.51	228.70	96.75	1,596.51	-8,434.58	1,775.68	1,323.34	452.33	3.926	
15,200.00	7,081.54	15,487.69	7,290.29	230.24	231.41	96.75	1,598.67	-8,534.56	1,775.83	1,318.09	457.74	3.880	
15,300.00	7,082.06	15,587.69	7,290.81	232.96	234.11	96.75	1,600.82	-8,634.53	1,775.98	1,312.85	463.14	3.835	
15,400.00	7,082.58	15,687.69	7,291.33	235.69	236.82	96.75	1,602.97	-8,734.51	1,776.14	1,307.60	468.54	3.791	
15,500.00	7,083.10	15,787.69	7,291.84	238.41	239.53	96.75	1,605.12	-8,834.48	1,776.29	1,302.35	473.94	3.748	
15,600.00	7,083.62	15,887.69	7,292.36	241.14	242.23	96.75	1,607.27	-8,934.46	1,776.44	1,297.10	479.35	3.706	
15,700.00	7,084.13	15,987.69	7,292.88	243.87	244.94	96.75	1,609.42	-9,034.44	1,776.60	1,291.84	484.75	3.665	
15,800.00	7,084.65	16,087.69	7,293.40	246.60	247.65	96.75	1,611.57	-9,134.41	1,776.75	1,286.59	490.16	3.625	
15,900.00	7,085.17	16,187.69	7,293.92	249.32	250.36	96.75	1,613.73	-9,234.39	1,776.91	1,281.34	495.57	3.586	
16,000.00	7,085.69	16,287.69	7,294.44	252.05	253.07	96.75	1,615.88	-9,334.36	1,777.06	1,276.09	500.97	3.547	
16,100.00	7,086.21	16,387.69	7,294.96	254.78	255.78	96.75	1,618.03	-9,434.34	1,777.21	1,270.83	506.38	3.510	
16,200.00	7,086.73	16,487.69	7,295.48	257.51	258.50	96.75	1,620.18	-9,534.31	1,777.37	1,265.58	511.79	3.473	
16,300.00	7,087.24	16,587.69	7,296.00	260.24	261.21	96.74	1,622.33	-9,634.29	1,777.52	1,260.32	517.20	3.437	
16,400.00	7,087.76	16,687.69	7,296.51	262.97	263.92	96.74	1,624.48	-9,734.26	1,777.67	1,255.06	522.61	3.402	
16,500.00	7,088.28	16,787.69	7,297.03	265.69	266.63	96.74	1,626.63	-9,834.24	1,777.83	1,249.81	528.02	3.367	
16,600.00	7,088.80	16,887.69	7,297.55	268.42	269.35	96.74	1,628.79	-9,934.21	1,777.98	1,244.55	533.43	3.333	
16,700.00	7,089.32	16,987.69	7,298.07	271.15	272.06	96.74	1,630.94	-10,034.19	1,778.14	1,239.29	538.84	3.300	
16,800.00	7,089.84	17,087.69	7,298.59	273.88	274.78	96.74	1,633.09	-10,134.16	1,778.29	1,234.03	544.26	3.267	
16,900.00	7,090.35	17,187.69	7,299.11	276.61	277.49	96.74	1,635.24	-10,234.14	1,778.44	1,228.77	549.67	3.235	
17,000.00	7,090.87	17,287.69	7,299.63	279.34	280.21	96.74	1,637.39	-10,334.12	1,778.60	1,223.51	555.08	3.204	
17,024.65	7,091.00	17,312.33	7,299.76	280.01	280.88	96.74	1,637.92	-10,358.76	1,778.63	1,222.22	556.42	3.197 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HNA-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	32.27	47.66	30.09	56.36				
100.00	100.00	100.00	100.00	0.48	0.48	32.27	47.66	30.09	56.36	55.39	0.97	58.393	
200.00	200.00	200.00	200.00	1.28	1.28	32.27	47.66	30.09	56.36	53.80	2.56	21.976	
300.00	300.00	300.00	300.00	1.77	1.77	32.27	47.66	30.09	56.36	52.82	3.54	15.934	
400.00	400.00	400.00	400.00	2.15	2.15	32.27	47.66	30.09	56.36	52.06	4.30	13.104	CC, ES
500.00	500.00	498.50	498.48	2.48	2.81	31.16	49.33	29.83	57.67	52.51	5.16	11.179	
600.00	600.00	596.76	596.61	2.77	3.81	28.14	54.33	29.07	61.71	55.47	6.24	9.894	
700.00	700.00	694.57	694.05	3.03	4.63	23.94	62.61	27.80	68.76	61.51	7.26	9.478	
800.00	800.00	791.69	790.47	3.28	5.35	19.36	74.08	26.04	79.10	70.87	8.23	9.606	
900.00	900.00	887.91	885.56	3.51	6.01	15.03	88.62	23.80	92.90	83.73	9.17	10.134	
1,000.00	999.98	982.75	978.74	3.78	6.62	160.29	106.04	21.13	111.80	101.74	10.07	11.107	
1,083.35	1,083.22	1,060.24	1,054.41	4.28	7.10	158.13	122.53	18.60	132.54	121.54	11.00	12.049	
1,100.00	1,099.84	1,075.54	1,069.29	4.29	7.19	157.81	126.02	18.07	137.16	126.05	11.11	12.348	
1,200.00	1,199.64	1,166.35	1,157.25	4.47	7.66	156.09	148.37	14.64	166.70	154.96	11.74	14.200	
1,300.00	1,299.43	1,260.22	1,247.65	4.70	7.96	154.68	173.36	10.81	198.27	186.01	12.26	16.169	
1,400.00	1,399.23	1,354.99	1,338.90	4.95	8.25	153.65	198.63	6.93	229.97	217.17	12.80	17.966	
1,500.00	1,499.02	1,449.76	1,430.16	5.20	8.56	152.86	223.90	3.05	261.73	248.36	13.37	19.581	
1,600.00	1,598.82	1,544.53	1,521.42	5.47	8.88	152.24	249.17	-0.82	293.51	279.56	13.95	21.037	
1,700.00	1,698.61	1,639.31	1,612.68	5.75	9.22	151.75	274.44	-4.70	325.33	310.77	14.56	22.350	
1,800.00	1,798.41	1,734.08	1,703.93	6.04	9.57	151.34	299.71	-8.58	357.16	341.98	15.18	23.533	
1,900.00	1,898.20	1,828.85	1,795.19	6.34	9.93	151.00	324.98	-12.46	389.00	373.19	15.81	24.601	
2,000.00	1,998.00	1,923.62	1,886.45	6.64	10.30	150.71	350.25	-16.33	420.85	404.39	16.46	25.567	
2,100.00	2,097.79	2,018.39	1,977.71	6.94	10.68	150.46	375.52	-20.21	452.71	435.59	17.12	26.442	
2,200.00	2,197.59	2,113.16	2,068.96	7.26	11.07	150.25	400.79	-24.09	484.58	466.79	17.79	27.237	
2,300.00	2,297.38	2,207.93	2,160.22	7.57	11.46	150.06	426.06	-27.96	516.46	497.99	18.47	27.960	
2,400.00	2,397.18	2,302.70	2,251.48	7.89	11.86	149.89	451.33	-31.84	548.34	529.18	19.16	28.619	
2,500.00	2,496.97	2,397.48	2,342.74	8.22	12.26	149.74	476.60	-35.72	580.22	560.36	19.86	29.221	
2,600.00	2,596.77	2,492.25	2,434.00	8.54	12.67	149.61	501.87	-39.59	612.10	591.54	20.56	29.772	
2,700.00	2,696.57	2,587.02	2,525.25	8.87	13.09	149.49	527.14	-43.47	643.99	622.72	21.27	30.278	
2,800.00	2,796.36	2,681.79	2,616.51	9.21	13.51	149.38	552.41	-47.35	675.88	653.90	21.98	30.744	
2,900.00	2,896.16	2,776.56	2,707.77	9.54	13.93	149.28	577.68	-51.22	707.78	685.07	22.70	31.174	
3,000.00	2,995.95	2,871.33	2,799.03	9.87	14.35	149.19	602.95	-55.10	739.67	716.24	23.43	31.571	
3,100.00	3,095.75	2,966.10	2,890.28	10.21	14.78	149.11	628.22	-58.98	771.57	747.41	24.16	31.939	
3,200.00	3,195.54	3,060.87	2,981.54	10.55	15.21	149.03	653.50	-62.85	803.46	778.57	24.89	32.280	
3,300.00	3,295.34	3,155.65	3,072.80	10.89	15.64	148.96	678.77	-66.73	835.36	809.73	25.63	32.597	
3,400.00	3,395.13	3,250.42	3,164.06	11.23	16.08	148.90	704.04	-70.61	867.26	840.89	26.37	32.893	
3,500.00	3,494.93	3,345.19	3,255.31	11.58	16.52	148.84	729.31	-74.48	899.16	872.05	27.11	33.169	
3,600.00	3,594.72	3,439.96	3,346.57	11.92	16.96	148.78	754.58	-78.36	931.06	903.21	27.85	33.426	
3,700.00	3,694.52	3,534.73	3,437.83	12.26	17.40	148.73	779.85	-82.24	962.96	934.36	28.60	33.668	
3,800.00	3,794.31	3,629.50	3,529.09	12.61	17.84	148.68	805.12	-86.11	994.87	965.51	29.35	33.894	
3,900.00	3,894.11	3,724.27	3,620.34	12.96	18.29	148.63	830.39	-89.99	1,026.77	996.66	30.10	34.106	
4,000.00	3,993.90	3,819.04	3,711.60	13.30	18.74	148.59	855.66	-93.87	1,058.67	1,027.81	30.86	34.306	
4,100.00	4,093.70	3,913.82	3,802.86	13.65	19.18	148.55	880.93	-97.74	1,090.58	1,058.96	31.62	34.495	
4,200.00	4,193.49	4,008.59	3,894.12	14.00	19.63	148.51	906.20	-101.62	1,122.48	1,090.11	32.37	34.672	
4,300.00	4,293.29	4,103.36	3,985.38	14.35	20.08	148.47	931.47	-105.50	1,154.39	1,121.25	33.13	34.840	
4,400.00	4,393.08	4,198.13	4,076.63	14.70	20.54	148.44	956.74	-109.38	1,186.29	1,152.40	33.90	34.998	
4,500.00	4,492.88	4,292.90	4,167.89	15.05	20.99	148.40	982.01	-113.25	1,218.20	1,183.54	34.66	35.148	
4,600.00	4,592.68	4,387.67	4,259.15	15.40	21.44	148.37	1,007.28	-117.13	1,250.10	1,214.68	35.42	35.290	
4,700.00	4,692.47	4,482.44	4,350.41	15.75	21.90	148.34	1,032.55	-121.01	1,282.01	1,245.82	36.19	35.425	
4,800.00	4,792.27	4,577.21	4,441.66	16.10	22.35	148.31	1,057.82	-124.88	1,313.92	1,276.96	36.96	35.553	
4,900.00	4,892.06	4,671.99	4,532.92	16.45	22.81	148.29	1,083.09	-128.76	1,345.82	1,308.10	37.72	35.675	
5,000.00	4,991.86	4,766.76	4,624.18	16.81	23.27	148.26	1,108.36	-132.64	1,377.73	1,339.24	38.49	35.791	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HNA-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,861.53	4,715.44	17.16	23.73	148.24	1,133.63	-136.51	1,409.64	1,370.37	39.26	35.901	
5,200.00	5,191.45	4,956.30	4,806.69	17.51	24.19	148.21	1,158.90	-140.39	1,441.55	1,401.51	40.04	36.006	
5,300.00	5,291.24	5,051.07	4,897.95	17.87	24.65	148.19	1,184.18	-144.27	1,473.45	1,432.65	40.81	36.106	
5,400.00	5,391.04	5,145.84	4,989.21	18.22	25.11	148.17	1,209.45	-148.14	1,505.36	1,463.78	41.58	36.202	
5,500.00	5,490.83	5,240.61	5,080.47	18.57	25.57	148.15	1,234.72	-152.02	1,537.27	1,494.92	42.36	36.294	
5,600.00	5,590.63	5,335.38	5,171.73	18.93	26.03	148.13	1,259.99	-155.90	1,569.18	1,526.05	43.13	36.381	
5,700.00	5,690.42	5,430.16	5,262.98	19.28	26.49	148.11	1,285.26	-159.77	1,601.09	1,557.18	43.91	36.465	
5,800.00	5,790.22	5,524.93	5,354.24	19.64	26.95	148.09	1,310.53	-163.65	1,633.00	1,588.31	44.68	36.545	
5,900.00	5,890.01	5,619.70	5,445.50	19.99	27.42	148.08	1,335.80	-167.53	1,664.91	1,619.45	45.46	36.622	
6,000.00	5,989.81	5,714.47	5,536.76	20.35	27.88	148.06	1,361.07	-171.40	1,696.82	1,650.58	46.24	36.696	
6,100.00	6,089.60	5,809.24	5,628.01	20.70	28.35	148.04	1,386.34	-175.28	1,728.73	1,681.71	47.02	36.767	
6,200.00	6,189.40	5,904.01	5,719.27	21.06	28.81	148.03	1,411.61	-179.16	1,760.63	1,712.84	47.80	36.835	
6,300.00	6,289.19	5,998.78	5,810.53	21.41	29.28	148.01	1,436.88	-183.03	1,792.54	1,743.97	48.58	36.900	
6,400.00	6,388.99	6,093.55	5,901.79	21.77	29.74	148.00	1,462.15	-186.91	1,824.45	1,775.09	49.36	36.963	
6,498.43	6,487.22	6,186.84	5,991.61	22.12	30.20	147.98	1,487.02	-190.73	1,855.86	1,805.74	50.13	37.023	
6,500.00	6,488.79	6,188.33	5,993.04	22.12	30.21	145.86	1,487.42	-190.79	1,856.36	1,806.22	50.14	37.024	
6,550.00	6,538.54	6,235.68	6,038.65	22.32	30.44	110.79	1,500.05	-192.73	1,872.22	1,821.67	50.54	37.042	
6,600.00	6,587.76	6,282.74	6,083.96	22.59	30.67	99.80	1,512.60	-194.65	1,887.81	1,836.84	50.97	37.034	
6,650.00	6,636.08	6,329.13	6,128.63	22.84	30.90	94.33	1,524.97	-196.55	1,903.08	1,851.73	51.34	37.065	
6,700.00	6,683.13	6,374.51	6,172.33	23.07	31.12	90.89	1,537.07	-198.40	1,917.96	1,866.26	51.71	37.092	
6,750.00	6,728.55	6,418.54	6,214.72	23.29	31.34	88.47	1,548.81	-200.21	1,932.45	1,880.37	52.08	37.107	
6,800.00	6,771.99	6,460.87	6,255.48	23.51	31.55	86.64	1,560.09	-201.94	1,946.54	1,894.08	52.46	37.106	
6,850.00	6,813.13	6,501.18	6,294.30	23.72	31.75	85.19	1,570.84	-203.59	1,960.26	1,907.40	52.86	37.085	
6,900.00	6,851.64	6,539.17	6,330.88	23.94	31.94	84.00	1,580.97	-205.14	1,973.64	1,920.37	53.28	37.045	
6,950.00	6,887.25	6,574.55	6,364.95	24.16	32.11	82.99	1,590.41	-206.59	1,986.73	1,933.01	53.72	36.983	
7,000.00	6,919.67	6,607.05	6,396.25	24.38	32.27	82.09	1,599.07	-207.92	1,999.59	1,945.40	54.19	36.900	
7,050.00	6,948.65	6,637.14	6,425.22	24.62	32.41	81.27	1,607.10	-209.15	2,012.26	1,957.57	54.69	36.792	
7,100.00	6,973.99	6,661.82	6,468.11	24.88	32.63	80.91	1,619.01	-212.88	2,024.67	1,969.28	55.38	36.557	
7,150.00	6,995.49	6,732.37	6,516.10	25.18	32.90	80.76	1,632.43	-221.26	2,036.65	1,980.45	56.20	36.236	
7,200.00	7,012.97	6,791.66	6,571.19	25.51	33.21	80.89	1,647.94	-236.64	2,048.12	1,990.95	57.17	35.827	
7,250.00	7,026.32	6,839.77	6,614.43	25.89	33.46	80.82	1,660.21	-253.74	2,058.90	2,000.82	58.08	35.451	
7,300.00	7,035.43	6,959.48	6,715.20	26.33	34.01	82.37	1,689.16	-310.98	2,068.73	2,009.21	59.52	34.757	
7,350.00	7,040.22	7,091.43	6,809.98	26.84	34.64	84.00	1,717.04	-398.01	2,077.07	2,016.05	61.01	34.042	
7,377.14	7,041.00	7,186.30	6,864.91	27.14	35.28	85.15	1,733.69	-473.39	2,080.63	2,018.63	62.00	33.557	
7,400.00	7,041.12	7,283.08	6,907.78	27.41	36.17	86.34	1,747.22	-558.98	2,082.93	2,019.94	62.99	33.067	
7,500.00	7,041.64	7,561.81	6,950.29	28.77	39.82	87.49	1,764.33	-831.65	2,084.95	2,017.87	67.07	31.085	
7,600.00	7,042.16	7,661.81	6,950.81	30.39	41.36	87.49	1,766.44	-931.63	2,085.06	2,014.78	70.28	29.666	
7,700.00	7,042.67	7,761.81	6,951.33	32.22	43.00	87.49	1,768.56	-1,031.60	2,085.18	2,011.42	73.76	28.271	
7,800.00	7,043.19	7,861.81	6,951.85	34.20	44.73	87.49	1,770.67	-1,131.58	2,085.30	2,007.84	77.46	26.922	
7,900.00	7,043.71	7,961.81	6,952.37	36.31	46.54	87.49	1,772.79	-1,231.55	2,085.42	2,004.07	81.35	25.635	
8,000.00	7,044.23	8,061.81	6,952.89	38.52	48.41	87.49	1,774.90	-1,331.53	2,085.54	2,000.12	85.41	24.418	
8,100.00	7,044.75	8,161.81	6,953.41	40.80	50.36	87.49	1,777.02	-1,431.51	2,085.65	1,996.04	89.62	23.273	
8,200.00	7,045.26	8,261.81	6,953.93	43.15	52.36	87.49	1,779.13	-1,531.48	2,085.77	1,991.82	93.95	22.201	
8,300.00	7,045.78	8,361.81	6,954.44	45.54	54.42	87.49	1,781.25	-1,631.46	2,085.89	1,987.50	98.39	21.200	
8,400.00	7,046.30	8,461.81	6,954.96	47.97	56.53	87.49	1,783.36	-1,731.44	2,086.01	1,983.08	102.93	20.266	
8,500.00	7,046.82	8,561.81	6,955.48	50.44	58.68	87.49	1,785.47	-1,831.41	2,086.12	1,978.57	107.55	19.396	
8,600.00	7,047.34	8,661.81	6,956.00	52.94	60.87	87.49	1,787.59	-1,931.39	2,086.24	1,973.99	112.25	18.586	
8,700.00	7,047.86	8,761.81	6,956.52	55.46	63.11	87.49	1,789.70	-2,031.36	2,086.36	1,969.35	117.01	17.830	
8,800.00	7,048.37	8,861.81	6,957.04	58.00	65.37	87.49	1,791.82	-2,131.34	2,086.48	1,964.64	121.83	17.126	
8,900.00	7,048.89	8,961.81	6,957.56	60.56	67.67	87.49	1,793.93	-2,231.32	2,086.60	1,959.89	126.70	16.468	
9,000.00	7,049.41	9,061.81	6,958.08	63.13	70.00	87.49	1,796.05	-2,331.29	2,086.71	1,955.09	131.62	15.854	
9,100.00	7,049.93	9,161.81	6,958.60	65.72	72.35	87.49	1,798.16	-2,431.27	2,086.83	1,950.25	136.58	15.279	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HNA-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,050.45	9,261.81	6,959.12	68.32	74.73	87.49	1,800.28	-2,531.25	2,086.95	1,945.37	141.58	14.741	
9,300.00	7,050.97	9,361.81	6,959.64	70.93	77.12	87.49	1,802.39	-2,631.22	2,087.07	1,940.46	146.61	14.236	
9,400.00	7,051.48	9,461.81	6,960.15	73.55	79.54	87.49	1,804.50	-2,731.20	2,087.18	1,935.52	151.66	13.762	
9,500.00	7,052.00	9,561.81	6,960.67	76.18	81.98	87.49	1,806.62	-2,831.17	2,087.30	1,930.55	156.75	13.316	
9,600.00	7,052.52	9,661.81	6,961.19	78.81	84.43	87.49	1,808.73	-2,931.15	2,087.42	1,925.56	161.86	12.896	
9,700.00	7,053.04	9,761.81	6,961.71	81.46	86.90	87.49	1,810.85	-3,031.13	2,087.54	1,920.54	167.00	12.501	
9,800.00	7,053.56	9,861.81	6,962.23	84.10	89.39	87.49	1,812.96	-3,131.10	2,087.65	1,915.51	172.15	12.127	
9,900.00	7,054.08	9,961.81	6,962.75	86.76	91.89	87.49	1,815.08	-3,231.08	2,087.77	1,910.45	177.32	11.774	
10,000.00	7,054.59	10,061.81	6,963.27	89.42	94.40	87.49	1,817.19	-3,331.05	2,087.89	1,905.38	182.51	11.440	
10,100.00	7,055.11	10,161.81	6,963.79	92.08	96.92	87.49	1,819.31	-3,431.03	2,088.01	1,900.29	187.72	11.123	
10,200.00	7,055.63	10,261.81	6,964.31	94.75	99.45	87.49	1,821.42	-3,531.01	2,088.13	1,895.19	192.94	10.823	
10,300.00	7,056.15	10,361.81	6,964.83	97.42	101.99	87.49	1,823.54	-3,630.98	2,088.24	1,890.07	198.17	10.538	
10,400.00	7,056.67	10,461.81	6,965.34	100.10	104.55	87.49	1,825.65	-3,730.96	2,088.36	1,884.95	203.42	10.266	
10,500.00	7,057.18	10,561.81	6,965.86	102.78	107.11	87.49	1,827.76	-3,830.94	2,088.48	1,879.81	208.67	10.008	
10,600.00	7,057.70	10,661.81	6,966.38	105.46	109.68	87.49	1,829.88	-3,930.91	2,088.60	1,874.66	213.94	9.763	
10,700.00	7,058.22	10,761.81	6,966.90	108.14	112.25	87.49	1,831.99	-4,030.89	2,088.71	1,869.50	219.22	9.528	
10,800.00	7,058.74	10,861.81	6,967.42	110.83	114.84	87.49	1,834.11	-4,130.86	2,088.83	1,864.33	224.51	9.304	
10,900.00	7,059.26	10,961.81	6,967.94	113.52	117.43	87.49	1,836.22	-4,230.84	2,088.95	1,859.15	229.80	9.090	
11,000.00	7,059.78	11,061.81	6,968.46	116.21	120.02	87.50	1,838.34	-4,330.82	2,089.07	1,853.96	235.10	8.886	
11,100.00	7,060.29	11,161.81	6,968.98	118.90	122.63	87.50	1,840.45	-4,430.79	2,089.19	1,848.77	240.41	8.690	
11,200.00	7,060.81	11,261.81	6,969.50	121.60	125.24	87.50	1,842.57	-4,530.77	2,089.30	1,843.57	245.73	8.502	
11,300.00	7,061.33	11,361.81	6,970.02	124.30	127.85	87.50	1,844.68	-4,630.75	2,089.42	1,838.36	251.06	8.323	
11,400.00	7,061.85	11,461.81	6,970.54	127.00	130.47	87.50	1,846.79	-4,730.72	2,089.54	1,833.15	256.39	8.150	
11,500.00	7,062.37	11,561.81	6,971.05	129.70	133.09	87.50	1,848.91	-4,830.70	2,089.66	1,827.93	261.72	7.984	
11,600.00	7,062.89	11,661.81	6,971.57	132.40	135.72	87.50	1,851.02	-4,930.67	2,089.77	1,822.71	267.06	7.825	
11,700.00	7,063.40	11,761.81	6,972.09	135.10	138.35	87.50	1,853.14	-5,030.65	2,089.89	1,817.48	272.41	7.672	
11,800.00	7,063.92	11,861.81	6,972.61	137.81	140.98	87.50	1,855.25	-5,130.63	2,090.01	1,812.25	277.76	7.524	
11,900.00	7,064.44	11,961.81	6,973.13	140.51	143.62	87.50	1,857.37	-5,230.60	2,090.13	1,807.01	283.12	7.382	
12,000.00	7,064.96	12,061.81	6,973.65	143.22	146.27	87.50	1,859.48	-5,330.58	2,090.25	1,801.77	288.48	7.246	
12,100.00	7,065.48	12,161.81	6,974.17	145.93	148.91	87.50	1,861.60	-5,430.56	2,090.36	1,796.52	293.84	7.114	
12,200.00	7,066.00	12,261.81	6,974.69	148.64	151.56	87.50	1,863.71	-5,530.53	2,090.48	1,791.27	299.21	6.987	
12,300.00	7,066.51	12,361.81	6,975.21	151.35	154.21	87.50	1,865.82	-5,630.51	2,090.60	1,786.01	304.58	6.864	
12,400.00	7,067.03	12,461.81	6,975.73	154.06	156.87	87.50	1,867.94	-5,730.48	2,090.72	1,780.76	309.96	6.745	
12,500.00	7,067.55	12,561.81	6,976.24	156.77	159.52	87.50	1,870.05	-5,830.46	2,090.83	1,775.50	315.34	6.630	
12,600.00	7,068.07	12,661.81	6,976.76	159.49	162.18	87.50	1,872.17	-5,930.44	2,090.95	1,770.23	320.72	6.520	
12,700.00	7,068.59	12,761.81	6,977.28	162.20	164.85	87.50	1,874.28	-6,030.41	2,091.07	1,764.96	326.10	6.412	
12,800.00	7,069.11	12,861.81	6,977.80	164.92	167.51	87.50	1,876.40	-6,130.39	2,091.19	1,759.69	331.49	6.308	
12,900.00	7,069.62	12,961.81	6,978.32	167.63	170.18	87.50	1,878.51	-6,230.37	2,091.30	1,754.42	336.88	6.208	
13,000.00	7,070.14	13,061.81	6,978.84	170.35	172.85	87.50	1,880.63	-6,330.34	2,091.42	1,749.15	342.28	6.110	
13,100.00	7,070.66	13,161.81	6,979.36	173.07	175.52	87.50	1,882.74	-6,430.32	2,091.54	1,743.87	347.67	6.016	
13,200.00	7,071.18	13,261.81	6,979.88	175.78	178.19	87.50	1,884.86	-6,530.29	2,091.66	1,738.59	353.07	5.924	
13,300.00	7,071.70	13,361.81	6,980.40	178.50	180.87	87.50	1,886.97	-6,630.27	2,091.78	1,733.31	358.47	5.835	
13,400.00	7,072.21	13,461.81	6,980.92	181.22	183.55	87.50	1,889.08	-6,730.25	2,091.89	1,728.02	363.87	5.749	
13,500.00	7,072.73	13,561.81	6,981.43	183.94	186.23	87.50	1,891.20	-6,830.22	2,092.01	1,722.74	369.27	5.665	
13,600.00	7,073.25	13,661.81	6,981.95	186.66	188.91	87.50	1,893.31	-6,930.20	2,092.13	1,717.45	374.68	5.584	
13,700.00	7,073.77	13,761.81	6,982.47	189.38	191.59	87.50	1,895.43	-7,030.18	2,092.25	1,712.16	380.09	5.505	
13,800.00	7,074.29	13,861.81	6,982.99	192.10	194.27	87.50	1,897.54	-7,130.15	2,092.36	1,706.87	385.50	5.428	
13,900.00	7,074.81	13,961.81	6,983.51	194.82	196.96	87.50	1,899.66	-7,230.13	2,092.48	1,701.57	390.91	5.353	
14,000.00	7,075.32	14,061.81	6,984.03	197.54	199.64	87.50	1,901.77	-7,330.10	2,092.60	1,696.28	396.32	5.280	
14,100.00	7,075.84	14,161.81	6,984.55	200.27	202.33	87.50	1,903.89	-7,430.08	2,092.72	1,690.98	401.74	5.209	
14,200.00	7,076.36	14,261.81	6,985.07	202.99	205.02	87.50	1,906.00	-7,530.06	2,092.84	1,685.68	407.15	5.140	
14,300.00	7,076.88	14,361.81	6,985.59	205.71	207.71	87.50	1,908.11	-7,630.03	2,092.95	1,680.38	412.57	5.073	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HNA-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program:		0-MWD					Rule Assigned:					Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)
14,400.00	7,077.40	14,461.81	6,986.11	208.44	210.40	87.50	1,910.23	-7,730.01	2,093.07	1,675.08	417.99	5.007	
14,500.00	7,077.92	14,561.81	6,986.63	211.16	213.10	87.50	1,912.34	-7,829.99	2,093.19	1,669.78	423.41	4.944	
14,600.00	7,078.43	14,661.81	6,987.14	213.88	215.79	87.50	1,914.46	-7,929.96	2,093.31	1,664.48	428.83	4.881	
14,700.00	7,078.95	14,761.81	6,987.66	216.61	218.48	87.50	1,916.57	-8,029.94	2,093.42	1,659.17	434.25	4.821	
14,800.00	7,079.47	14,861.81	6,988.18	219.33	221.18	87.50	1,918.69	-8,129.91	2,093.54	1,653.87	439.68	4.762	
14,900.00	7,079.99	14,961.81	6,988.70	222.06	223.88	87.50	1,920.80	-8,229.89	2,093.66	1,648.56	445.10	4.704	
15,000.00	7,080.51	15,061.81	6,989.22	224.78	226.57	87.50	1,922.92	-8,329.87	2,093.78	1,643.25	450.53	4.647	
15,100.00	7,081.03	15,161.81	6,989.74	227.51	229.27	87.50	1,925.03	-8,429.84	2,093.90	1,637.94	455.95	4.592	
15,200.00	7,081.54	15,261.81	6,990.26	230.24	231.97	87.50	1,927.15	-8,529.82	2,094.01	1,632.63	461.38	4.539	
15,300.00	7,082.06	15,361.81	6,990.78	232.96	234.67	87.50	1,929.26	-8,629.79	2,094.13	1,627.32	466.81	4.486	
15,400.00	7,082.58	15,461.81	6,991.30	235.69	237.38	87.50	1,931.37	-8,729.77	2,094.25	1,622.01	472.24	4.435	
15,500.00	7,083.10	15,561.81	6,991.82	238.41	240.08	87.50	1,933.49	-8,829.75	2,094.37	1,616.69	477.67	4.385	
15,600.00	7,083.62	15,661.81	6,992.33	241.14	242.78	87.50	1,935.60	-8,929.72	2,094.48	1,611.38	483.10	4.335	
15,700.00	7,084.13	15,761.81	6,992.85	243.87	245.48	87.50	1,937.72	-9,029.70	2,094.60	1,606.06	488.54	4.287	
15,800.00	7,084.65	15,861.81	6,993.37	246.60	248.19	87.50	1,939.83	-9,129.68	2,094.72	1,600.75	493.97	4.241	
15,900.00	7,085.17	15,961.81	6,993.89	249.32	250.89	87.50	1,941.95	-9,229.65	2,094.84	1,595.43	499.41	4.195	
16,000.00	7,085.69	16,061.81	6,994.41	252.05	253.60	87.50	1,944.06	-9,329.63	2,094.96	1,590.11	504.84	4.150	
16,100.00	7,086.21	16,161.81	6,994.93	254.78	256.31	87.50	1,946.18	-9,429.60	2,095.07	1,584.80	510.28	4.106	
16,200.00	7,086.73	16,261.81	6,995.45	257.51	259.01	87.50	1,948.29	-9,529.58	2,095.19	1,579.48	515.71	4.063	
16,300.00	7,087.24	16,361.81	6,995.97	260.24	261.72	87.50	1,950.40	-9,629.56	2,095.31	1,574.16	521.15	4.021	
16,400.00	7,087.76	16,461.81	6,996.49	262.97	264.43	87.50	1,952.52	-9,729.53	2,095.43	1,568.84	526.59	3.979	
16,500.00	7,088.28	16,561.81	6,997.01	265.69	267.14	87.50	1,954.63	-9,829.51	2,095.54	1,563.51	532.03	3.939	
16,600.00	7,088.80	16,661.81	6,997.53	268.42	269.85	87.50	1,956.75	-9,929.49	2,095.66	1,558.19	537.47	3.899	
16,700.00	7,089.32	16,761.81	6,998.04	271.15	272.56	87.50	1,958.86	-10,029.46	2,095.78	1,552.87	542.91	3.860	
16,800.00	7,089.84	16,861.81	6,998.56	273.88	275.27	87.50	1,960.98	-10,129.44	2,095.90	1,547.55	548.35	3.822	
16,900.00	7,090.35	16,961.81	6,999.08	276.61	277.98	87.50	1,963.09	-10,229.41	2,096.01	1,542.22	553.79	3.785	
17,000.00	7,090.87	17,061.81	6,999.60	279.34	280.69	87.50	1,965.21	-10,329.39	2,096.13	1,536.90	559.23	3.748	
17,024.65	7,091.00	17,086.46	6,999.73	280.01	281.36	87.50	1,965.73	-10,354.03	2,096.16	1,535.59	560.57	3.739 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-166.82	-478.36	-112.01	491.31				
100.00	100.00	97.00	97.00	0.48	0.47	-166.82	-478.36	-112.01	491.30	490.35	0.95	516.773	
200.00	200.00	197.00	197.00	1.28	1.26	-166.82	-478.36	-112.01	491.30	488.76	2.54	193.378	
300.00	300.00	297.00	297.00	1.77	1.75	-166.82	-478.36	-112.01	491.30	487.78	3.52	139.472	
400.00	400.00	397.00	397.00	2.15	2.14	-166.82	-478.36	-112.01	491.30	487.01	4.29	114.534	
500.00	500.00	497.00	497.00	2.48	2.47	-166.82	-478.36	-112.01	491.30	486.36	4.94	99.374	
600.00	600.00	616.07	616.04	2.77	3.23	-166.74	-476.01	-112.13	489.41	483.45	5.97	82.009	
700.00	700.00	735.33	735.06	3.03	4.32	-166.50	-468.71	-112.51	483.53	476.27	7.26	66.592	
800.00	800.00	853.77	852.87	3.28	5.22	-166.08	-456.57	-113.13	473.69	465.33	8.36	56.686	
900.00	900.00	971.02	968.90	3.51	6.02	-165.47	-439.78	-114.00	459.97	450.63	9.33	49.287	
1,000.00	999.98	1,086.32	1,082.24	3.78	6.76	-15.96	-418.65	-115.08	440.82	430.56	10.26	42.967	
1,083.35	1,083.22	1,180.19	1,173.81	4.28	7.33	-15.35	-398.10	-116.14	419.60	408.36	11.24	37.335	
1,100.00	1,099.84	1,198.67	1,191.76	4.29	7.44	-15.19	-393.70	-116.37	414.84	403.49	11.35	36.535	
1,200.00	1,199.64	1,308.08	1,297.41	4.47	8.08	-14.01	-365.30	-117.83	384.32	372.22	12.09	31.776	
1,300.00	1,299.43	1,414.66	1,399.20	4.70	8.65	-12.39	-333.77	-119.45	350.60	337.82	12.78	27.430	
1,400.00	1,399.23	1,508.41	1,488.14	4.95	8.92	-10.50	-304.19	-120.97	315.33	302.09	13.24	23.814	
1,500.00	1,499.02	1,601.41	1,576.38	5.20	9.22	-8.16	-274.84	-122.49	280.43	266.69	13.74	20.417	
1,600.00	1,598.82	1,694.42	1,664.62	5.47	9.54	-5.17	-245.49	-124.00	246.06	231.83	14.24	17.286	
1,700.00	1,698.61	1,787.43	1,752.86	5.75	9.87	-1.25	-216.13	-125.51	212.49	197.78	14.72	14.439	
1,800.00	1,798.41	1,880.43	1,841.11	6.04	10.21	4.05	-186.78	-127.02	180.16	165.02	15.14	11.898	
1,900.00	1,898.20	1,973.44	1,929.35	6.34	10.56	11.48	-157.43	-128.53	149.88	134.43	15.45	9.704	
2,000.00	1,998.00	2,066.45	2,017.59	6.64	10.93	22.14	-128.07	-130.04	123.16	107.64	15.52	7.936	
2,100.00	2,097.79	2,159.46	2,105.83	6.94	11.30	37.29	-98.72	-131.55	102.82	87.53	15.29	6.725	
2,200.00	2,197.59	2,252.46	2,194.07	7.26	11.68	56.90	-69.37	-133.06	93.14	78.02	15.12	6.160	
2,220.27	2,217.82	2,271.32	2,211.96	7.32	11.75	61.17	-63.41	-133.37	92.84	77.67	15.17	6.119 CC, ES	
2,300.00	2,297.38	2,345.47	2,282.31	7.57	12.06	77.52	-40.01	-134.57	97.35	81.58	15.77	6.172	
2,400.00	2,397.18	2,438.48	2,370.55	7.89	12.46	94.65	-10.66	-136.08	113.93	96.86	17.06	6.676	
2,500.00	2,496.97	2,531.48	2,458.79	8.22	12.85	107.00	18.70	-137.59	138.49	120.11	18.38	7.533	
2,600.00	2,596.77	2,624.49	2,547.03	8.54	13.26	115.58	48.05	-139.11	167.57	148.03	19.54	8.574	
2,700.00	2,696.57	2,717.50	2,635.27	8.87	13.67	121.64	77.40	-140.62	199.20	178.64	20.56	9.686	
2,800.00	2,796.36	2,810.51	2,723.51	9.21	14.08	126.06	106.76	-142.13	232.34	210.84	21.49	10.809	
2,900.00	2,896.16	2,903.51	2,811.75	9.54	14.50	129.38	136.11	-143.64	266.42	244.05	22.37	11.912	
3,000.00	2,995.95	2,996.52	2,899.99	9.87	14.92	131.96	165.46	-145.15	301.13	277.92	23.20	12.977	
3,100.00	3,095.75	3,089.53	2,988.23	10.21	15.35	134.00	194.82	-146.66	336.27	312.25	24.02	14.000	
3,200.00	3,195.54	3,182.53	3,076.47	10.55	15.78	135.67	224.17	-148.17	371.71	346.89	24.82	14.976	
3,300.00	3,295.34	3,275.54	3,164.71	10.89	16.21	137.04	253.52	-149.68	407.39	381.78	25.61	15.905	
3,400.00	3,395.13	3,368.55	3,252.95	11.23	16.64	138.20	282.88	-151.19	443.24	416.84	26.40	16.789	
3,500.00	3,494.93	3,461.56	3,341.20	11.58	17.08	139.18	312.23	-152.70	479.23	452.04	27.18	17.629	
3,600.00	3,594.72	3,554.56	3,429.44	11.92	17.52	140.03	341.59	-154.22	515.32	487.35	27.97	18.427	
3,700.00	3,694.52	3,647.57	3,517.68	12.26	17.96	140.76	370.94	-155.73	551.49	522.75	28.75	19.185	
3,800.00	3,794.31	3,740.58	3,605.92	12.61	18.40	141.41	400.29	-157.24	587.74	558.21	29.53	19.906	
3,900.00	3,894.11	3,833.58	3,694.16	12.96	18.85	141.98	429.65	-158.75	624.04	593.74	30.31	20.592	
4,000.00	3,993.90	3,926.59	3,782.40	13.30	19.29	142.49	459.00	-160.26	660.39	629.31	31.09	21.244	
4,100.00	4,093.70	4,019.60	3,870.64	13.65	19.74	142.94	488.35	-161.77	696.79	664.92	31.87	21.866	
4,200.00	4,193.49	4,112.60	3,958.88	14.00	20.19	143.35	517.71	-163.28	733.21	700.57	32.65	22.459	
4,300.00	4,293.29	4,205.61	4,047.12	14.35	20.64	143.73	547.06	-164.79	769.67	736.24	33.43	23.024	
4,400.00	4,393.08	4,298.62	4,135.36	14.70	21.09	144.06	576.41	-166.30	806.15	771.94	34.21	23.563	
4,500.00	4,492.88	4,391.63	4,223.60	15.05	21.55	144.37	605.77	-167.81	842.66	807.66	35.00	24.078	
4,600.00	4,592.68	4,484.63	4,311.84	15.40	22.00	144.66	635.12	-169.32	879.18	843.40	35.78	24.571	
4,700.00	4,692.47	4,577.64	4,400.08	15.75	22.46	144.92	664.48	-170.84	915.72	879.15	36.57	25.042	
4,800.00	4,792.27	4,670.65	4,488.32	16.10	22.92	145.16	693.83	-172.35	952.28	914.92	37.35	25.493	
4,900.00	4,892.06	4,763.65	4,576.56	16.45	23.38	145.38	723.18	-173.86	988.85	950.70	38.14	25.926	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,856.66	4,664.80	16.81	23.84	145.59	752.54	-175.37	1,025.43	986.50	38.93	26.340	
5,100.00	5,091.65	4,949.67	4,753.05	17.16	24.30	145.78	781.89	-176.88	1,062.02	1,022.30	39.72	26.738	
5,200.00	5,191.45	5,042.68	4,841.29	17.51	24.76	145.96	811.24	-178.39	1,098.62	1,058.11	40.51	27.120	
5,300.00	5,291.24	5,135.68	4,929.53	17.87	25.22	146.13	840.60	-179.90	1,135.23	1,093.93	41.30	27.487	
5,400.00	5,391.04	5,228.69	5,017.77	18.22	25.68	146.28	869.95	-181.41	1,171.85	1,129.76	42.09	27.839	
5,500.00	5,490.83	5,321.70	5,106.01	18.57	26.15	146.43	899.31	-182.92	1,208.48	1,165.59	42.89	28.179	
5,600.00	5,590.63	5,414.70	5,194.25	18.93	26.61	146.57	928.66	-184.43	1,245.11	1,201.43	43.68	28.505	
5,700.00	5,690.42	5,507.71	5,282.49	19.28	27.07	146.70	958.01	-185.94	1,281.75	1,237.27	44.47	28.820	
5,800.00	5,790.22	5,600.72	5,370.73	19.64	27.54	146.83	987.37	-187.46	1,318.39	1,273.12	45.27	29.123	
5,900.00	5,890.01	5,693.73	5,458.97	19.99	28.01	146.95	1,016.72	-188.97	1,355.04	1,308.98	46.07	29.415	
6,000.00	5,989.81	5,786.73	5,547.21	20.35	28.47	147.06	1,046.07	-190.48	1,391.69	1,344.83	46.86	29.697	
6,100.00	6,089.60	5,879.74	5,635.45	20.70	28.94	147.16	1,075.43	-191.99	1,428.35	1,380.69	47.66	29.970	
6,200.00	6,189.40	5,972.75	5,723.69	21.06	29.41	147.26	1,104.78	-193.50	1,465.02	1,416.56	48.46	30.233	
6,300.00	6,289.19	6,065.75	5,811.93	21.41	29.88	147.36	1,134.13	-195.01	1,501.68	1,452.42	49.26	30.487	
6,400.00	6,388.99	6,158.76	5,900.17	21.77	30.35	147.45	1,163.49	-196.52	1,538.35	1,488.29	50.06	30.732	
6,498.43	6,487.22	6,250.31	5,987.03	22.12	30.81	147.53	1,192.38	-198.01	1,574.45	1,523.60	50.84	30.967	
6,500.00	6,488.79	6,251.77	5,988.41	22.12	30.82	145.40	1,192.84	-198.03	1,575.02	1,524.17	50.86	30.971	
6,550.00	6,538.54	6,298.19	6,032.46	22.32	31.05	110.11	1,207.49	-198.79	1,593.24	1,541.97	51.27	31.075	
6,600.00	6,587.76	6,344.22	6,076.12	22.59	31.28	98.93	1,222.02	-199.53	1,611.17	1,559.46	51.72	31.154	
6,650.00	6,636.08	6,389.50	6,119.09	22.84	31.51	93.29	1,236.31	-200.27	1,628.74	1,576.63	52.10	31.259	
6,700.00	6,683.13	6,433.69	6,161.01	23.07	31.74	89.72	1,250.26	-200.99	1,645.89	1,593.40	52.49	31.357	
6,750.00	6,728.55	6,476.45	6,201.58	23.29	31.95	87.16	1,263.75	-201.68	1,662.61	1,609.73	52.88	31.440	
6,800.00	6,771.99	6,517.47	6,240.50	23.51	32.16	85.21	1,276.70	-202.35	1,678.92	1,625.63	53.29	31.505	
6,850.00	6,813.13	6,556.42	6,277.45	23.72	32.36	83.65	1,288.99	-202.98	1,694.83	1,641.12	53.71	31.552	
6,900.00	6,851.64	6,593.00	6,312.16	23.94	32.54	82.34	1,300.54	-203.58	1,710.40	1,656.24	54.16	31.580	
6,950.00	6,887.25	6,626.95	6,344.37	24.16	32.71	81.21	1,311.25	-204.13	1,725.67	1,671.04	54.63	31.589	
7,000.00	6,919.67	6,658.00	6,373.83	24.38	32.87	80.18	1,321.05	-204.63	1,740.70	1,685.57	55.12	31.577	
7,050.00	6,948.65	6,685.92	6,400.31	24.62	33.01	79.21	1,329.86	-205.08	1,755.54	1,699.89	55.65	31.547	
7,100.00	6,973.99	6,710.49	6,423.63	24.88	33.14	78.25	1,337.62	-205.48	1,770.23	1,714.03	56.20	31.498	
7,150.00	6,995.49	6,731.53	6,443.59	25.18	33.24	77.27	1,344.26	-205.83	1,784.82	1,728.03	56.78	31.433	
7,200.00	7,012.97	6,748.87	6,460.04	25.51	33.33	76.25	1,349.73	-206.11	1,799.31	1,741.93	57.38	31.356	
7,250.00	7,026.32	6,762.39	6,472.87	25.89	33.40	75.17	1,354.00	-206.33	1,813.72	1,755.72	58.00	31.270	
7,300.00	7,035.43	6,771.98	6,481.97	26.33	33.45	74.01	1,357.02	-206.48	1,828.02	1,769.39	58.63	31.179	
7,350.00	7,040.22	6,777.57	6,487.27	26.84	33.48	72.78	1,358.79	-206.57	1,842.16	1,782.91	59.25	31.089	
7,377.14	7,041.00	6,778.91	6,488.54	27.14	33.49	72.08	1,359.21	-206.60	1,849.76	1,790.17	59.58	31.045	
7,400.00	7,041.12	6,779.54	6,489.14	27.41	33.49	72.10	1,359.41	-206.61	1,856.25	1,796.39	59.86	31.012	
7,500.00	7,041.64	7,763.89	7,057.32	28.77	42.22	90.57	1,560.44	-835.39	1,879.12	1,811.48	67.64	27.782	
7,600.00	7,042.16	7,863.89	7,057.84	30.39	43.64	90.57	1,562.56	-935.37	1,879.24	1,808.49	70.74	26.564	
7,700.00	7,042.67	7,963.89	7,058.36	32.22	45.15	90.57	1,564.67	-1,035.34	1,879.35	1,805.24	74.11	25.358	
7,800.00	7,043.19	8,063.89	7,058.88	34.20	46.74	90.57	1,566.79	-1,135.32	1,879.47	1,801.76	77.71	24.186	
7,900.00	7,043.71	8,163.89	7,059.40	36.31	48.41	90.57	1,568.90	-1,235.30	1,879.59	1,798.08	81.51	23.060	
8,000.00	7,044.23	8,263.89	7,059.92	38.52	50.15	90.57	1,571.02	-1,335.27	1,879.71	1,794.22	85.48	21.989	
8,100.00	7,044.75	8,363.89	7,060.44	40.80	51.97	90.57	1,573.13	-1,435.25	1,879.83	1,790.22	89.61	20.978	
8,200.00	7,045.26	8,463.89	7,060.96	43.15	53.85	90.57	1,575.25	-1,535.22	1,879.94	1,786.07	93.87	20.027	
8,300.00	7,045.78	8,563.89	7,061.47	45.54	55.80	90.57	1,577.36	-1,635.20	1,880.06	1,781.82	98.24	19.137	
8,400.00	7,046.30	8,663.89	7,061.99	47.97	57.79	90.57	1,579.47	-1,735.18	1,880.18	1,777.46	102.72	18.304	
8,500.00	7,046.82	8,763.89	7,062.51	50.44	59.84	90.57	1,581.59	-1,835.15	1,880.30	1,773.01	107.29	17.526	
8,600.00	7,047.34	8,863.89	7,063.03	52.94	61.94	90.57	1,583.70	-1,935.13	1,880.42	1,768.48	111.93	16.800	
8,700.00	7,047.86	8,963.89	7,063.55	55.46	64.08	90.57	1,585.82	-2,035.11	1,880.53	1,763.89	116.65	16.122	
8,800.00	7,048.37	9,063.89	7,064.07	58.00	66.26	90.57	1,587.93	-2,135.08	1,880.65	1,759.23	121.42	15.489	
8,900.00	7,048.89	9,163.89	7,064.59	60.56	68.48	90.57	1,590.05	-2,235.06	1,880.77	1,754.51	126.25	14.897	
9,000.00	7,049.41	9,263.89	7,065.11	63.13	70.73	90.57	1,592.16	-2,335.03	1,880.89	1,749.75	131.13	14.343	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,363.89	7,065.63	65.72	73.01	90.57	1,594.28	-2,435.01	1,881.00	1,744.94	136.06	13.825	
9,200.00	7,050.45	9,463.89	7,066.15	68.32	75.31	90.57	1,596.39	-2,534.99	1,881.12	1,740.10	141.02	13.339	
9,300.00	7,050.97	9,563.89	7,066.66	70.93	77.65	90.57	1,598.50	-2,634.96	1,881.24	1,735.22	146.02	12.883	
9,400.00	7,051.48	9,663.89	7,067.18	73.55	80.01	90.57	1,600.62	-2,734.94	1,881.36	1,730.30	151.06	12.455	
9,500.00	7,052.00	9,763.89	7,067.70	76.18	82.39	90.57	1,602.73	-2,834.92	1,881.48	1,725.36	156.12	12.052	
9,600.00	7,052.52	9,863.89	7,068.22	78.81	84.79	90.57	1,604.85	-2,934.89	1,881.59	1,720.39	161.21	11.672	
9,700.00	7,053.04	9,963.89	7,068.74	81.46	87.21	90.57	1,606.96	-3,034.87	1,881.71	1,715.39	166.32	11.314	
9,800.00	7,053.56	10,063.89	7,069.26	84.10	89.64	90.57	1,609.08	-3,134.84	1,881.83	1,710.37	171.45	10.976	
9,900.00	7,054.08	10,163.89	7,069.78	86.76	92.10	90.57	1,611.19	-3,234.82	1,881.95	1,705.34	176.61	10.656	
10,000.00	7,054.59	10,263.89	7,070.30	89.42	94.56	90.57	1,613.31	-3,334.80	1,882.07	1,700.28	181.78	10.353	
10,100.00	7,055.11	10,363.89	7,070.82	92.08	97.04	90.57	1,615.42	-3,434.77	1,882.18	1,695.21	186.97	10.067	
10,200.00	7,055.63	10,463.89	7,071.34	94.75	99.54	90.57	1,617.53	-3,534.75	1,882.30	1,690.12	192.18	9.795	
10,300.00	7,056.15	10,563.89	7,071.86	97.42	102.04	90.57	1,619.65	-3,634.72	1,882.42	1,685.02	197.40	9.536	
10,400.00	7,056.67	10,663.89	7,072.37	100.10	104.56	90.57	1,621.76	-3,734.70	1,882.54	1,679.90	202.63	9.290	
10,500.00	7,057.18	10,763.89	7,072.89	102.78	107.09	90.57	1,623.88	-3,834.68	1,882.65	1,674.78	207.88	9.057	
10,600.00	7,057.70	10,863.89	7,073.41	105.46	109.63	90.57	1,625.99	-3,934.65	1,882.77	1,669.64	213.14	8.834	
10,700.00	7,058.22	10,963.89	7,073.93	108.14	112.17	90.57	1,628.11	-4,034.63	1,882.89	1,664.49	218.40	8.621	
10,800.00	7,058.74	11,063.89	7,074.45	110.83	114.73	90.57	1,630.22	-4,134.61	1,883.01	1,659.33	223.68	8.418	
10,900.00	7,059.26	11,163.89	7,074.97	113.52	117.29	90.57	1,632.34	-4,234.58	1,883.13	1,654.16	228.97	8.224	
11,000.00	7,059.78	11,263.89	7,075.49	116.21	119.86	90.57	1,634.45	-4,334.56	1,883.24	1,648.98	234.26	8.039	
11,100.00	7,060.29	11,363.89	7,076.01	118.90	122.44	90.57	1,636.56	-4,434.53	1,883.36	1,643.80	239.57	7.862	
11,200.00	7,060.81	11,463.89	7,076.53	121.60	125.02	90.57	1,638.68	-4,534.51	1,883.48	1,638.60	244.88	7.692	
11,300.00	7,061.33	11,563.89	7,077.05	124.30	127.61	90.57	1,640.79	-4,634.49	1,883.60	1,633.40	250.20	7.528	
11,400.00	7,061.85	11,663.89	7,077.56	127.00	130.21	90.57	1,642.91	-4,734.46	1,883.72	1,628.20	255.52	7.372	
11,500.00	7,062.37	11,763.89	7,078.08	129.70	132.81	90.57	1,645.02	-4,834.44	1,883.83	1,622.98	260.85	7.222	
11,600.00	7,062.89	11,863.89	7,078.60	132.40	135.42	90.57	1,647.14	-4,934.42	1,883.95	1,617.76	266.19	7.078	
11,700.00	7,063.40	11,963.89	7,079.12	135.10	138.03	90.57	1,649.25	-5,034.39	1,884.07	1,612.54	271.53	6.939	
11,800.00	7,063.92	12,063.89	7,079.64	137.81	140.65	90.57	1,651.37	-5,134.37	1,884.19	1,607.31	276.88	6.805	
11,900.00	7,064.44	12,163.89	7,080.16	140.51	143.27	90.57	1,653.48	-5,234.34	1,884.30	1,602.08	282.23	6.677	
12,000.00	7,064.96	12,263.89	7,080.68	143.22	145.89	90.57	1,655.59	-5,334.32	1,884.42	1,596.84	287.59	6.553	
12,100.00	7,065.48	12,363.89	7,081.20	145.93	148.52	90.57	1,657.71	-5,434.30	1,884.54	1,591.59	292.95	6.433	
12,200.00	7,066.00	12,463.89	7,081.72	148.64	151.15	90.57	1,659.82	-5,534.27	1,884.66	1,586.35	298.31	6.318	
12,300.00	7,066.51	12,563.89	7,082.24	151.35	153.79	90.57	1,661.94	-5,634.25	1,884.78	1,581.10	303.68	6.206	
12,400.00	7,067.03	12,663.89	7,082.75	154.06	156.43	90.57	1,664.05	-5,734.23	1,884.89	1,575.84	309.05	6.099	
12,500.00	7,067.55	12,763.89	7,083.27	156.77	159.07	90.57	1,666.17	-5,834.20	1,885.01	1,570.58	314.43	5.995	
12,600.00	7,068.07	12,863.89	7,083.79	159.49	161.72	90.57	1,668.28	-5,934.18	1,885.13	1,565.32	319.81	5.895	
12,700.00	7,068.59	12,963.89	7,084.31	162.20	164.37	90.57	1,670.40	-6,034.15	1,885.25	1,560.06	325.19	5.797	
12,800.00	7,069.11	13,063.89	7,084.83	164.92	167.02	90.57	1,672.51	-6,134.13	1,885.37	1,554.79	330.58	5.703	
12,900.00	7,069.62	13,163.89	7,085.35	167.63	169.68	90.57	1,674.62	-6,234.11	1,885.48	1,549.52	335.97	5.612	
13,000.00	7,070.14	13,263.89	7,085.87	170.35	172.33	90.57	1,676.74	-6,334.08	1,885.60	1,544.24	341.36	5.524	
13,100.00	7,070.66	13,363.89	7,086.39	173.07	174.99	90.57	1,678.85	-6,434.06	1,885.72	1,538.97	346.75	5.438	
13,200.00	7,071.18	13,463.89	7,086.91	175.78	177.65	90.57	1,680.97	-6,534.04	1,885.84	1,533.69	352.15	5.355	
13,300.00	7,071.70	13,563.89	7,087.43	178.50	180.32	90.57	1,683.08	-6,634.01	1,885.95	1,528.41	357.55	5.275	
13,400.00	7,072.21	13,663.89	7,087.95	181.22	182.98	90.57	1,685.20	-6,733.99	1,886.07	1,523.12	362.95	5.197	
13,500.00	7,072.73	13,763.89	7,088.46	183.94	185.65	90.57	1,687.31	-6,833.96	1,886.19	1,517.84	368.35	5.121	
13,600.00	7,073.25	13,863.89	7,088.98	186.66	188.32	90.57	1,689.43	-6,933.94	1,886.31	1,512.55	373.76	5.047	
13,700.00	7,073.77	13,963.89	7,089.50	189.38	191.00	90.57	1,691.54	-7,033.92	1,886.43	1,507.26	379.17	4.975	
13,800.00	7,074.29	14,063.89	7,090.02	192.10	193.67	90.57	1,693.66	-7,133.89	1,886.54	1,501.97	384.58	4.906	
13,900.00	7,074.81	14,163.89	7,090.54	194.82	196.35	90.57	1,695.77	-7,233.87	1,886.66	1,496.68	389.99	4.838	
14,000.00	7,075.32	14,263.89	7,091.06	197.54	199.02	90.57	1,697.88	-7,333.85	1,886.78	1,491.38	395.40	4.772	
14,100.00	7,075.84	14,363.89	7,091.58	200.27	201.70	90.57	1,700.00	-7,433.82	1,886.90	1,486.08	400.81	4.708	
14,200.00	7,076.36	14,463.89	7,092.10	202.99	204.38	90.57	1,702.11	-7,533.80	1,887.02	1,480.79	406.23	4.645	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2X-HNB-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	14,563.88	7,092.62	205.71	207.06	90.57	1,704.23	-7,633.77	1,887.13	1,475.49	411.65	4.584	
14,400.00	7,077.40	14,663.88	7,093.14	208.44	209.75	90.57	1,706.34	-7,733.75	1,887.25	1,470.18	417.07	4.525	
14,500.00	7,077.92	14,763.88	7,093.65	211.16	212.43	90.57	1,708.46	-7,833.73	1,887.37	1,464.88	422.49	4.467	
14,600.00	7,078.43	14,863.88	7,094.17	213.88	215.12	90.57	1,710.57	-7,933.70	1,887.49	1,459.58	427.91	4.411	
14,700.00	7,078.95	14,963.88	7,094.69	216.61	217.81	90.57	1,712.69	-8,033.68	1,887.61	1,454.27	433.33	4.356	
14,800.00	7,079.47	15,063.88	7,095.21	219.33	220.49	90.57	1,714.80	-8,133.66	1,887.72	1,448.96	438.76	4.302	
14,900.00	7,079.99	15,163.88	7,095.73	222.06	223.18	90.57	1,716.91	-8,233.63	1,887.84	1,443.66	444.18	4.250	
15,000.00	7,080.51	15,263.88	7,096.25	224.78	225.88	90.57	1,719.03	-8,333.61	1,887.96	1,438.35	449.61	4.199	
15,100.00	7,081.03	15,363.88	7,096.77	227.51	228.57	90.57	1,721.14	-8,433.58	1,888.08	1,433.04	455.04	4.149	
15,200.00	7,081.54	15,463.88	7,097.29	230.24	231.26	90.57	1,723.26	-8,533.56	1,888.19	1,427.73	460.47	4.101	
15,300.00	7,082.06	15,563.88	7,097.81	232.96	233.95	90.57	1,725.37	-8,633.54	1,888.31	1,422.41	465.90	4.053	
15,400.00	7,082.58	15,663.88	7,098.33	235.69	236.65	90.57	1,727.49	-8,733.51	1,888.43	1,417.10	471.33	4.007	
15,500.00	7,083.10	15,763.88	7,098.85	238.41	239.35	90.57	1,729.60	-8,833.49	1,888.55	1,411.79	476.76	3.961	
15,600.00	7,083.62	15,863.88	7,099.36	241.14	242.04	90.57	1,731.72	-8,933.47	1,888.67	1,406.47	482.20	3.917	
15,700.00	7,084.13	15,963.88	7,099.88	243.87	244.74	90.57	1,733.83	-9,033.44	1,888.78	1,401.15	487.63	3.873	
15,800.00	7,084.65	16,063.88	7,100.40	246.60	247.44	90.57	1,735.94	-9,133.42	1,888.90	1,395.84	493.07	3.831	
15,900.00	7,085.17	16,163.88	7,100.92	249.32	250.14	90.57	1,738.06	-9,233.39	1,889.02	1,390.52	498.50	3.789	
16,000.00	7,085.69	16,263.88	7,101.44	252.05	252.84	90.57	1,740.17	-9,333.37	1,889.14	1,385.20	503.94	3.749	
16,100.00	7,086.21	16,363.88	7,101.96	254.78	255.54	90.57	1,742.29	-9,433.35	1,889.26	1,379.88	509.38	3.709	
16,200.00	7,086.73	16,463.88	7,102.48	257.51	258.24	90.57	1,744.40	-9,533.32	1,889.37	1,374.56	514.82	3.670	
16,300.00	7,087.24	16,563.88	7,103.00	260.24	260.94	90.57	1,746.52	-9,633.30	1,889.49	1,369.24	520.25	3.632	
16,400.00	7,087.76	16,663.88	7,103.52	262.97	263.65	90.57	1,748.63	-9,733.27	1,889.61	1,363.91	525.69	3.594	
16,500.00	7,088.28	16,763.88	7,104.04	265.69	266.35	90.57	1,750.75	-9,833.25	1,889.73	1,358.59	531.14	3.558	
16,600.00	7,088.80	16,863.88	7,104.55	268.42	269.06	90.57	1,752.86	-9,933.23	1,889.84	1,353.27	536.58	3.522	
16,700.00	7,089.32	16,963.88	7,105.07	271.15	271.76	90.57	1,754.97	-10,033.20	1,889.96	1,347.94	542.02	3.487	
16,800.00	7,089.84	17,063.88	7,105.59	273.88	274.47	90.57	1,757.09	-10,133.18	1,890.08	1,342.62	547.46	3.452	
16,900.00	7,090.35	17,163.88	7,106.11	276.61	277.18	90.57	1,759.20	-10,233.16	1,890.20	1,337.29	552.91	3.419	
17,000.00	7,090.87	17,263.88	7,106.63	279.34	279.88	90.57	1,761.32	-10,333.13	1,890.32	1,331.97	558.35	3.386	
17,024.65	7,091.00	17,288.53	7,106.76	280.01	280.55	90.57	1,761.84	-10,357.77	1,890.35	1,330.65	559.69	3.377 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-161.40	-328.97	-110.68	347.10				
100.00	100.00	98.00	98.00	0.48	0.47	-161.40	-328.97	-110.68	347.09	346.14	0.96	363.246	
200.00	200.00	198.00	198.00	1.28	1.27	-161.40	-328.97	-110.68	347.09	344.55	2.55	136.189	
300.00	300.00	298.00	298.00	1.77	1.76	-161.40	-328.97	-110.68	347.09	343.57	3.53	98.399	
400.00	400.00	398.00	398.00	2.15	2.14	-161.40	-328.97	-110.68	347.09	342.80	4.29	80.844	
500.00	500.00	498.00	498.00	2.48	2.47	-161.40	-328.97	-110.68	347.09	342.15	4.95	70.159	
600.00	600.00	598.00	598.00	2.77	2.76	-161.40	-328.97	-110.68	347.09	341.56	5.53	62.778	
700.00	700.00	698.00	698.00	3.03	3.03	-161.40	-328.97	-110.68	347.09	341.03	6.06	57.282	
800.00	800.00	798.00	798.00	3.28	3.27	-161.40	-328.97	-110.68	347.09	340.54	6.55	52.983	
900.00	900.00	898.00	898.00	3.51	3.50	-161.40	-328.97	-110.68	347.09	340.08	7.01	49.499	
1,000.00	999.98	997.98	997.98	3.78	3.72	-12.62	-328.97	-110.68	345.39	337.90	7.49	46.120	
1,083.35	1,083.22	1,081.22	1,081.22	4.28	3.89	-12.79	-328.97	-110.68	341.37	333.23	8.14	41.913	
1,100.00	1,099.84	1,097.84	1,097.84	4.29	3.93	-12.83	-328.97	-110.68	340.33	332.14	8.19	41.548	
1,200.00	1,199.64	1,197.64	1,197.64	4.47	4.13	-13.08	-328.97	-110.68	334.10	325.53	8.57	38.984	
1,300.00	1,299.43	1,297.43	1,297.43	4.70	4.32	-13.33	-328.97	-110.68	327.87	318.89	8.99	36.485	
1,400.00	1,399.23	1,397.23	1,397.23	4.95	4.50	-13.59	-328.97	-110.68	321.65	312.24	9.41	34.179	
1,500.00	1,499.02	1,497.02	1,497.02	5.20	4.68	-13.87	-328.97	-110.68	315.44	305.60	9.84	32.051	
1,600.00	1,598.82	1,596.82	1,596.82	5.47	4.86	-14.15	-328.97	-110.68	309.23	298.95	10.28	30.087	
1,700.00	1,698.61	1,696.61	1,696.61	5.75	5.02	-14.45	-328.97	-110.68	303.03	292.31	10.72	28.273	
1,800.00	1,798.41	1,796.41	1,796.41	6.04	5.19	-14.75	-328.97	-110.68	296.84	285.68	11.16	26.595	
1,900.00	1,898.20	1,896.20	1,896.20	6.34	5.35	-15.07	-328.97	-110.68	290.66	279.05	11.61	25.040	
2,000.00	1,998.00	1,996.00	1,996.00	6.64	5.51	-15.41	-328.97	-110.68	284.49	272.43	12.06	23.599	
2,100.00	2,097.79	2,088.68	2,088.67	6.94	5.66	-15.89	-330.27	-110.23	279.55	267.06	12.48	22.392	
2,200.00	2,197.59	2,181.13	2,181.01	7.26	6.12	-16.74	-334.37	-108.79	277.30	264.17	13.13	21.121	
2,231.01	2,228.53	2,209.77	2,209.59	7.36	6.28	-17.07	-336.22	-108.14	277.17	263.83	13.34	20.784 CC, ES	
2,300.00	2,297.38	2,273.44	2,273.02	7.57	6.61	-17.93	-341.28	-106.36	277.84	264.05	13.80	20.136	
2,400.00	2,397.18	2,365.42	2,364.43	7.89	7.08	-19.42	-350.93	-102.98	281.28	266.81	14.47	19.440	
2,500.00	2,496.97	2,456.90	2,454.96	8.22	7.55	-21.15	-363.28	-98.64	287.71	272.57	15.14	19.004	
2,600.00	2,596.77	2,547.68	2,544.35	8.54	8.00	-23.06	-378.22	-93.40	297.26	281.46	15.81	18.805 SF	
2,700.00	2,696.57	2,637.60	2,632.35	8.87	8.44	-25.06	-395.65	-87.28	310.01	293.54	16.47	18.825	
2,800.00	2,796.36	2,726.50	2,718.73	9.21	8.88	-27.09	-415.43	-80.34	326.00	308.89	17.12	19.046	
2,900.00	2,896.16	2,814.21	2,803.30	9.54	9.31	-29.08	-437.42	-72.62	345.27	327.52	17.75	19.452	
3,000.00	2,995.95	2,900.00	2,885.27	9.87	9.72	-30.98	-461.27	-64.25	367.78	349.42	18.35	20.038	
3,100.00	3,095.75	2,985.58	2,966.26	10.21	10.14	-32.78	-487.37	-55.09	393.48	374.53	18.96	20.759	
3,200.00	3,195.54	3,069.00	3,044.37	10.55	10.55	-34.44	-515.00	-45.39	422.31	402.79	19.53	21.628	
3,300.00	3,295.34	3,150.78	3,120.08	10.89	10.94	-35.95	-544.15	-35.16	454.17	434.09	20.08	22.622	
3,400.00	3,395.13	3,230.83	3,193.31	11.23	11.33	-37.32	-574.65	-24.46	488.95	468.34	20.61	23.728	
3,500.00	3,494.93	3,309.08	3,264.00	11.58	11.71	-38.55	-606.32	-13.34	526.53	505.42	21.12	24.933	
3,600.00	3,594.72	3,385.50	3,332.11	11.92	12.08	-39.65	-638.99	-1.88	566.81	545.20	21.61	26.227	
3,700.00	3,694.52	3,460.03	3,397.64	12.26	12.44	-40.63	-672.49	9.88	609.66	587.57	22.09	27.599	
3,800.00	3,794.31	3,532.64	3,460.57	12.61	12.78	-41.51	-706.68	21.88	654.98	632.42	22.55	29.042	
3,900.00	3,894.11	3,603.32	3,520.92	12.96	13.11	-42.29	-741.38	34.06	702.64	679.64	22.99	30.557	
4,000.00	3,993.90	3,684.73	3,589.64	13.30	13.38	-43.10	-782.57	48.52	752.02	728.56	23.46	32.054	
4,100.00	4,093.70	3,771.11	3,662.51	13.65	13.68	-43.85	-826.33	63.87	801.61	777.59	24.02	33.375	
4,200.00	4,193.49	3,857.48	3,735.38	14.00	13.98	-44.52	-870.09	79.23	851.29	826.70	24.59	34.616	
4,300.00	4,293.29	3,943.86	3,808.25	14.35	14.30	-45.12	-913.85	94.59	901.05	875.87	25.18	35.785	
4,400.00	4,393.08	4,030.24	3,881.12	14.70	14.62	-45.65	-957.61	109.95	950.88	925.10	25.78	36.888	
4,500.00	4,492.88	4,116.61	3,953.99	15.05	14.95	-46.13	-1,001.37	125.31	1,000.76	974.38	26.39	37.927	
4,600.00	4,592.68	4,202.99	4,026.86	15.40	15.58	-46.57	-1,045.13	140.67	1,050.70	1,023.69	27.01	38.897	
4,700.00	4,692.47	4,289.36	4,099.73	15.75	16.36	-46.97	-1,088.88	156.02	1,100.67	1,073.03	27.64	39.817	
4,800.00	4,792.27	4,375.74	4,172.60	16.10	17.15	-47.33	-1,132.64	171.38	1,150.68	1,122.40	28.28	40.685	
4,900.00	4,892.06	4,462.12	4,245.47	16.45	17.95	-47.66	-1,176.40	186.74	1,200.72	1,171.79	28.93	41.506	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,548.49	4,318.34	16.81	18.75	-47.97	-1,220.16	202.10	1,250.79	1,221.21	29.58	42.281	
5,100.00	5,091.85	4,634.87	4,391.21	17.16	19.55	-48.25	-1,263.92	217.46	1,300.89	1,270.64	30.24	43.013	
5,200.00	5,191.45	4,721.24	4,464.08	17.51	20.36	-48.51	-1,307.68	232.82	1,351.00	1,320.09	30.91	43.706	
5,300.00	5,291.24	4,807.62	4,536.95	17.87	21.17	-48.75	-1,351.44	248.17	1,401.14	1,369.56	31.58	44.361	
5,400.00	5,391.04	4,894.00	4,609.82	18.22	21.99	-48.98	-1,395.20	263.53	1,451.30	1,419.03	32.26	44.982	
5,500.00	5,490.83	4,980.37	4,682.69	18.57	22.81	-49.19	-1,438.96	278.89	1,501.47	1,468.52	32.95	45.569	
5,600.00	5,590.63	5,066.75	4,755.56	18.93	23.63	-49.39	-1,482.72	294.25	1,551.65	1,518.01	33.64	46.126	
5,700.00	5,690.42	5,153.12	4,828.43	19.28	24.45	-49.57	-1,526.48	309.61	1,601.85	1,567.51	34.33	46.655	
5,800.00	5,790.22	5,239.50	4,901.30	19.64	25.28	-49.75	-1,570.24	324.96	1,652.06	1,617.02	35.03	47.157	
5,900.00	5,890.01	5,325.88	4,973.81	19.99	26.11	-50.00	-1,614.00	340.31	1,702.27	1,670.03	35.72	47.699	
6,000.00	5,989.81	5,412.26	5,046.32	20.35	26.94	-50.25	-1,657.76	355.66	1,752.48	1,720.04	36.41	48.241	
6,100.00	6,089.60	5,500.00	5,118.83	20.70	27.77	-50.50	-1,701.52	371.01	1,802.69	1,770.05	37.10	48.783	
6,200.00	6,189.40	5,587.78	5,191.36	21.06	28.60	-50.75	-1,745.76	386.36	1,852.90	1,820.06	37.79	49.325	
6,300.00	6,289.19	5,675.56	5,263.89	21.41	29.43	-51.00	-1,790.00	401.71	1,903.11	1,870.07	38.48	49.867	
6,400.00	6,388.99	5,763.34	5,336.42	21.77	30.26	-51.25	-1,834.24	417.06	1,953.32	1,920.08	39.17	50.409	
6,498.43	6,487.22	5,851.12	5,408.95	22.12	31.09	-51.50	-1,878.48	432.41	2,003.53	1,970.09	39.86	50.951	
6,500.00	6,488.79	5,851.12	5,408.95	22.12	31.09	-51.50	-1,878.48	432.41	2,003.53	1,970.09	39.86	50.951	
6,550.00	6,538.54	5,938.90	5,481.48	22.32	31.92	-51.75	-1,922.72	447.76	2,053.74	2,020.10	40.55	51.493	
6,600.00	6,587.76	6,026.68	5,554.01	22.59	32.75	-52.00	-1,966.96	463.11	2,103.95	2,070.11	41.24	52.035	
6,650.00	6,636.08	6,114.46	5,626.54	22.84	33.58	-52.25	-2,011.20	478.46	2,154.16	2,120.12	41.93	52.577	
6,700.00	6,683.13	6,202.24	5,698.07	23.07	34.41	-52.50	-2,055.44	493.81	2,204.37	2,170.13	42.62	53.119	
6,745.76	6,724.77	6,290.00	5,770.60	23.27	35.24	-52.75	-2,099.68	509.16	2,254.58	2,220.14	43.31	53.661	
6,750.00	6,728.55	6,290.00	5,770.60	23.29	35.26	-52.77	-2,103.92	511.36	2,258.82	2,224.38	43.51	53.861	
6,800.00	6,771.99	6,377.78	5,843.13	23.51	36.09	-53.00	-2,148.16	526.71	2,309.03	2,274.59	44.20	54.403	
6,850.00	6,813.13	6,465.56	5,915.66	23.72	36.92	-53.25	-2,192.40	542.06	2,359.24	2,324.80	44.89	54.945	
6,900.00	6,851.64	6,553.34	6,000.00	23.94	37.75	-53.50	-2,236.64	557.41	2,409.45	2,375.01	45.58	55.487	
6,950.00	6,887.25	6,641.12	6,072.53	24.16	38.58	-53.75	-2,280.88	572.76	2,459.66	2,425.22	46.27	56.029	
7,000.00	6,919.67	6,728.90	6,145.06	24.38	39.41	-54.00	-2,325.12	588.11	2,509.87	2,475.43	46.96	56.571	
7,050.00	6,948.85	6,816.68	6,217.59	24.62	40.24	-54.25	-2,369.36	603.46	2,559.08	2,525.64	47.65	57.113	
7,100.00	6,973.99	6,904.46	6,290.12	24.88	41.07	-54.50	-2,413.60	618.81	2,609.29	2,575.85	48.34	57.655	
7,150.00	6,995.49	6,992.24	6,362.65	25.18	41.90	-54.75	-2,457.84	634.16	2,659.50	2,626.06	49.03	58.197	
7,200.00	7,012.97	7,080.00	6,435.18	25.51	42.73	-55.00	-2,502.08	649.51	2,709.71	2,676.27	49.72	58.739	
7,250.00	7,026.32	7,167.78	6,507.71	25.89	43.56	-55.25	-2,546.32	664.86	2,759.92	2,726.48	50.41	59.281	
7,300.00	7,035.43	7,255.56	6,580.24	26.33	44.39	-55.50	-2,590.56	680.21	2,810.13	2,776.69	51.10	59.823	
7,350.00	7,040.22	7,343.34	6,652.77	26.84	45.22	-55.75	-2,634.80	695.56	2,860.34	2,826.90	51.79	60.365	
7,377.14	7,041.00	7,431.12	6,725.30	27.14	46.05	-56.00	-2,679.04	710.91	2,910.55	2,877.11	52.48	60.907	
7,400.00	7,041.12	7,518.90	6,797.83	27.41	46.88	-56.25	-2,723.28	726.26	2,960.76	2,927.32	53.17	61.449	
7,500.00	7,041.64	7,606.68	6,870.36	28.77	47.71	-56.50	-2,767.52	741.61	3,010.97	2,977.53	53.86	61.991	
7,600.00	7,042.16	7,694.46	6,942.89	30.39	48.54	-56.75	-2,811.76	756.96	3,061.18	3,027.74	54.55	62.533	
7,700.00	7,042.67	7,782.24	7,015.42	32.22	49.37	-57.00	-2,856.00	772.31	3,111.39	3,077.95	55.24	63.075	
7,800.00	7,043.19	7,870.02	7,087.95	34.20	50.20	-57.25	-2,900.24	787.66	3,161.60	3,128.16	55.93	63.617	
7,900.00	7,043.71	7,957.80	7,160.48	36.31	51.03	-57.50	-2,944.48	803.01	3,211.81	3,178.37	56.62	64.159	
8,000.00	7,044.23	8,045.58	7,233.01	38.52	51.86	-57.75	-2,988.72	818.36	3,262.02	3,228.58	57.31	64.701	
8,100.00	7,044.75	8,133.36	7,305.54	40.80	52.69	-58.00	-3,032.96	833.71	3,312.23	3,278.79	58.00	65.243	
8,200.00	7,045.26	8,221.14	7,378.07	43.15	53.52	-58.25	-3,077.20	849.06	3,362.44	3,328.90	58.69	65.785	
8,300.00	7,045.78	8,308.92	7,450.60	45.54	54.35	-58.50	-3,121.44	864.41	3,412.65	3,379.11	59.38	66.327	
8,400.00	7,046.30	8,396.70	7,523.13	47.97	55.18	-58.75	-3,165.68	879.76	3,462.86	3,429.32	60.07	66.869	
8,500.00	7,046.82	8,484.48	7,595.66	50.44	56.01	-59.00	-3,209.92	895.11	3,513.07	3,479.53	60.76	67.411	
8,600.00	7,047.34	8,572.26	7,668.19	52.94	56.84	-59.25	-3,254.16	910.46	3,563.28	3,529.74	61.45	67.953	
8,700.00	7,047.86	8,660.04	7,740.72	55.46	57.67	-59.50	-3,298.40	925.81	3,613.49	3,579.95	62.14	68.495	
8,800.00	7,048.37	8,747.82	7,813.25	58.00	58.50	-59.75	-3,342.64	941.16	3,663.70	3,630.16	62.83	69.037	
8,900.00	7,048.89	8,835.60	7,885.78	60.56	59.33	-60.00	-3,386.88	956.51	3,713.91	3,680.37	63.52	69.579	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,049.41	9,913.03	7,237.88	63.13	41.68	154.18	-251.16	781.77	3,162.63	3,100.65	61.97	51.031	
9,100.00	7,049.93	9,916.23	7,237.89	65.72	41.71	153.47	-247.96	781.73	3,262.37	3,200.32	62.05	52.579	
9,200.00	7,050.45	9,919.44	7,237.91	68.32	41.73	152.76	-244.76	781.69	3,362.12	3,300.00	62.12	54.123	
9,300.00	7,050.97	9,922.64	7,237.93	70.93	41.76	152.07	-241.55	781.65	3,461.89	3,399.70	62.19	55.664	
9,400.00	7,051.48	9,925.84	7,237.94	73.55	41.79	151.38	-238.35	781.61	3,561.67	3,499.40	62.27	57.201	
9,500.00	7,052.00	9,929.05	7,237.96	76.18	41.81	150.71	-235.15	781.58	3,661.45	3,599.11	62.34	58.734	
9,600.00	7,052.52	9,932.25	7,237.98	78.81	41.84	150.04	-231.94	781.54	3,761.25	3,698.83	62.41	60.263	
9,700.00	7,053.04	9,935.45	7,237.99	81.46	41.87	149.38	-228.74	781.50	3,861.05	3,798.56	62.49	61.788	
9,800.00	7,053.56	9,938.66	7,238.01	84.10	41.90	148.73	-225.54	781.46	3,960.86	3,898.29	62.56	63.309	
9,900.00	7,054.08	9,941.86	7,238.03	86.76	41.92	148.09	-222.33	781.42	4,060.67	3,998.03	62.64	64.825	
10,000.00	7,054.59	9,945.06	7,238.04	89.42	41.95	147.45	-219.13	781.38	4,160.50	4,097.78	62.72	66.337	
10,100.00	7,055.11	9,948.27	7,238.06	92.08	41.98	146.83	-215.93	781.34	4,260.32	4,197.53	62.80	67.845	
10,200.00	7,055.63	9,951.47	7,238.08	94.75	42.00	146.22	-212.72	781.31	4,360.16	4,297.29	62.87	69.348	
10,300.00	7,056.15	9,954.68	7,238.09	97.42	42.03	145.61	-209.52	781.27	4,460.00	4,397.05	62.95	70.847	
10,400.00	7,056.67	9,957.88	7,238.11	100.10	42.06	145.01	-206.32	781.23	4,559.84	4,496.81	63.03	72.340	
10,500.00	7,057.18	9,961.08	7,238.12	102.78	42.08	144.43	-203.11	781.19	4,659.69	4,596.58	63.11	73.829	
10,600.00	7,057.70	9,964.29	7,238.14	105.46	42.11	143.85	-199.91	781.15	4,759.54	4,696.35	63.20	75.314	
10,700.00	7,058.22	9,967.49	7,238.16	108.14	42.14	143.27	-196.71	781.11	4,859.40	4,796.12	63.28	76.793	
10,800.00	7,058.74	9,970.69	7,238.17	110.83	42.17	142.71	-193.50	781.07	4,959.26	4,895.90	63.36	78.267	
10,900.00	7,059.26	9,973.90	7,238.19	113.52	42.19	142.16	-190.30	781.04	5,059.12	4,995.68	63.45	79.736	
11,000.00	7,059.78	9,977.10	7,238.21	116.21	42.22	141.61	-187.10	781.00	5,158.99	5,095.46	63.53	81.200	
11,100.00	7,060.29	9,980.30	7,238.22	118.90	42.25	141.07	-183.89	780.96	5,258.86	5,195.24	63.62	82.659	
11,200.00	7,060.81	9,983.51	7,238.24	121.60	42.27	140.54	-180.69	780.92	5,358.73	5,295.03	63.71	84.113	
11,300.00	7,061.33	9,986.71	7,238.26	124.30	42.30	140.02	-177.49	780.88	5,458.61	5,394.81	63.80	85.561	
11,400.00	7,061.85	9,989.92	7,238.27	127.00	42.33	139.51	-174.28	780.84	5,558.49	5,494.60	63.89	87.003	
11,500.00	7,062.37	9,993.12	7,238.29	129.70	42.36	139.00	-171.08	780.80	5,658.37	5,594.39	63.98	88.441	
11,600.00	7,062.89	9,996.32	7,238.31	132.40	42.38	138.50	-167.88	780.77	5,758.25	5,694.18	64.07	89.873	
11,700.00	7,063.40	9,999.53	7,238.32	135.10	42.41	138.01	-164.67	780.73	5,858.14	5,793.97	64.16	91.299	
11,800.00	7,063.92	10,002.73	7,238.34	137.81	42.44	137.53	-161.47	780.69	5,958.03	5,893.77	64.26	92.717	
11,900.00	7,064.44	10,005.93	7,238.36	140.51	42.47	137.05	-158.27	780.65	6,057.92	5,993.56	64.36	94.129	
12,000.00	7,064.96	10,009.14	7,238.37	143.22	42.50	136.59	-155.06	780.61	6,157.81	6,093.35	64.46	95.535	
12,100.00	7,065.48	10,012.34	7,238.39	145.93	42.53	136.12	-151.86	780.57	6,257.70	6,193.15	64.56	96.935	
12,200.00	7,066.00	10,015.54	7,238.41	148.64	42.55	135.67	-148.66	780.53	6,357.60	6,292.94	64.66	98.330	
12,300.00	7,066.51	10,018.75	7,238.42	151.35	42.58	135.22	-145.45	780.50	6,457.49	6,392.74	64.76	99.718	
12,400.00	7,067.03	10,021.95	7,238.44	154.06	42.61	134.78	-142.25	780.46	6,557.39	6,492.53	64.86	101.101	
12,500.00	7,067.55	10,025.16	7,238.46	156.77	42.64	134.35	-139.05	780.42	6,657.29	6,592.33	64.96	102.477	
12,600.00	7,068.07	10,028.36	7,238.47	159.49	42.67	133.92	-135.84	780.38	6,757.19	6,692.12	65.07	103.847	
12,700.00	7,068.59	10,031.56	7,238.49	162.20	42.70	133.50	-132.64	780.34	6,857.10	6,791.92	65.17	105.212	
12,800.00	7,069.11	10,034.77	7,238.51	164.92	42.73	133.09	-129.44	780.30	6,957.00	6,891.72	65.28	106.570	
12,900.00	7,069.62	10,037.97	7,238.52	167.63	42.76	132.68	-126.23	780.26	7,056.91	6,991.52	65.39	107.922	
13,000.00	7,070.14	10,041.17	7,238.54	170.35	42.79	132.28	-123.03	780.23	7,156.81	7,091.31	65.50	109.268	
13,100.00	7,070.66	10,044.38	7,238.56	173.07	42.82	131.89	-119.83	780.19	7,256.72	7,191.11	65.61	110.608	
13,200.00	7,071.18	10,047.58	7,238.57	175.78	42.84	131.50	-116.62	780.15	7,356.63	7,290.91	65.72	111.942	
13,300.00	7,071.70	5,131.39	4,810.10	178.50	24.25	-27.83	-1,515.47	305.74	7,452.96	7,392.89	60.07	124.066	
13,400.00	7,072.21	5,113.04	4,794.62	181.22	24.07	-27.48	-1,506.17	302.48	7,547.15	7,487.27	59.88	126.031	
13,500.00	7,072.73	5,094.69	4,779.13	183.94	23.90	-27.13	-1,496.87	299.22	7,641.45	7,581.76	59.69	128.015	
13,600.00	7,073.25	5,076.34	4,763.65	186.66	23.72	-26.79	-1,487.57	295.95	7,735.85	7,676.35	59.50	130.017	
13,700.00	7,073.77	5,057.98	4,748.17	189.38	23.55	-26.44	-1,478.28	292.69	7,830.34	7,771.03	59.30	132.038	
13,800.00	7,074.29	5,039.63	4,732.69	192.10	23.37	-26.10	-1,468.98	289.43	7,924.92	7,865.82	59.11	134.079	
13,900.00	7,074.81	5,021.28	4,717.21	194.82	23.20	-25.77	-1,459.68	286.16	8,019.60	7,960.69	58.91	136.138	
14,000.00	7,075.32	5,002.93	4,701.73	197.54	23.02	-25.43	-1,450.39	282.90	8,114.36	8,055.65	58.71	138.217	
14,100.00	7,075.84	4,984.58	4,686.24	200.27	22.85	-25.10	-1,441.09	279.64	8,209.20	8,150.69	58.51	140.313	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,200.00	7,076.36	4,966.23	4,670.76	202.99	22.67	-24.77	-1,431.79	276.37	8,304.12	8,245.82	58.30	142.427	
14,300.00	7,076.88	4,947.88	4,655.28	205.71	22.50	-24.45	-1,422.50	273.11	8,399.12	8,341.02	58.10	144.561	
14,400.00	7,077.40	4,929.53	4,639.80	208.44	22.33	-24.12	-1,413.20	269.85	8,494.20	8,436.30	57.90	146.713	
14,500.00	7,077.92	4,911.17	4,624.32	211.16	22.15	-23.80	-1,403.90	266.59	8,589.35	8,531.66	57.69	148.883	
14,600.00	7,078.43	4,892.82	4,608.83	213.88	21.98	-23.48	-1,394.61	263.32	8,684.57	8,627.08	57.49	151.071	
14,700.00	7,078.95	4,874.47	4,593.35	216.61	21.81	-23.17	-1,385.31	260.06	8,779.86	8,722.58	57.28	153.276	
14,800.00	7,079.47	4,856.12	4,577.87	219.33	21.63	-22.85	-1,376.01	256.80	8,875.21	8,818.14	57.08	155.499	
14,900.00	7,079.99	4,837.77	4,562.39	222.06	21.46	-22.54	-1,366.71	253.53	8,970.63	8,913.76	56.87	157.740	
15,000.00	7,080.51	4,819.42	4,546.91	224.78	21.29	-22.23	-1,357.42	250.27	9,066.11	9,009.44	56.66	159.999	
15,100.00	7,081.03	4,801.07	4,531.43	227.51	21.11	-21.93	-1,348.12	247.01	9,161.64	9,105.19	56.46	162.276	
15,200.00	7,081.54	4,782.72	4,515.94	230.24	20.94	-21.62	-1,338.82	243.75	9,257.24	9,200.99	56.25	164.568	
15,300.00	7,082.06	4,764.36	4,500.46	232.96	20.77	-21.32	-1,329.53	240.48	9,352.89	9,296.85	56.05	166.877	
15,400.00	7,082.58	4,746.01	4,484.98	235.69	20.59	-21.03	-1,320.23	237.22	9,448.60	9,392.76	55.84	169.203	
15,500.00	7,083.10	4,727.66	4,469.50	238.41	20.42	-20.73	-1,310.93	233.96	9,544.36	9,488.72	55.64	171.547	
15,600.00	7,083.62	4,709.31	4,454.02	241.14	20.25	-20.44	-1,301.64	230.69	9,640.17	9,584.74	55.43	173.908	
15,700.00	7,084.13	4,690.96	4,438.53	243.87	20.08	-20.14	-1,292.34	227.43	9,736.03	9,680.80	55.23	176.284	
15,800.00	7,084.65	4,672.61	4,423.05	246.60	19.91	-19.85	-1,283.04	224.17	9,831.94	9,776.91	55.03	178.674	
15,900.00	7,085.17	4,654.26	4,407.57	249.32	19.73	-19.57	-1,273.74	220.90	9,927.89	9,873.07	54.83	181.082	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HNB-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	69.28	26.18	69.18	73.97				
100.00	100.00	100.00	100.00	0.48	0.48	69.28	26.18	69.18	73.97	73.00	0.97	76.638	
200.00	200.00	200.00	200.00	1.28	1.28	69.28	26.18	69.18	73.97	71.41	2.56	28.843	
300.00	300.00	300.00	300.00	1.77	1.77	69.28	26.18	69.18	73.97	70.43	3.54	20.912	
400.00	400.00	400.00	400.00	2.15	2.15	69.28	26.18	69.18	73.97	69.67	4.30	17.198	
500.00	500.00	500.00	500.00	2.48	2.48	69.28	26.18	69.18	73.97	69.02	4.95	14.932	
600.00	600.00	600.00	600.00	2.77	2.77	69.28	26.18	69.18	73.97	68.44	5.53	13.365	
700.00	700.00	700.00	700.00	3.03	3.03	69.28	26.18	69.18	73.97	67.91	6.06	12.197	
800.00	800.00	800.00	800.00	3.28	3.28	69.28	26.18	69.18	73.97	67.41	6.56	11.283	
900.00	900.00	900.00	900.00	3.51	3.51	69.28	26.18	69.18	73.97	66.95	7.02	10.542 CC, ES	
1,000.00	999.98	999.98	999.98	3.78	3.73	-142.68	26.18	69.18	75.35	67.87	7.48	10.071	
1,083.35	1,083.22	1,083.22	1,083.22	4.28	3.90	-144.46	26.18	69.18	78.67	70.63	8.03	9.792 SF	
1,100.00	1,099.84	1,099.84	1,099.84	4.29	3.93	-144.90	26.18	69.18	79.54	71.46	8.08	9.843	
1,200.00	1,199.64	1,199.64	1,199.64	4.47	4.13	-147.38	26.18	69.18	84.85	76.38	8.47	10.017	
1,300.00	1,299.43	1,299.43	1,299.43	4.70	4.32	-149.57	26.18	69.18	90.31	81.41	8.89	10.153	
1,400.00	1,399.23	1,399.23	1,399.23	4.95	4.51	-151.51	26.18	69.18	95.88	86.56	9.32	10.283	
1,500.00	1,499.02	1,499.02	1,499.02	5.20	4.69	-153.23	26.18	69.18	101.55	91.79	9.76	10.406	
1,600.00	1,598.82	1,598.82	1,598.82	5.47	4.86	-154.77	26.18	69.18	107.30	97.10	10.20	10.520	
1,700.00	1,698.61	1,698.61	1,698.61	5.75	5.03	-156.15	26.18	69.18	113.12	102.48	10.64	10.627	
1,800.00	1,798.41	1,798.41	1,798.41	6.04	5.19	-157.39	26.18	69.18	119.00	107.91	11.09	10.726	
1,900.00	1,898.20	1,898.20	1,898.20	6.34	5.35	-158.52	26.18	69.18	124.93	113.38	11.55	10.818	
2,000.00	1,998.00	1,999.79	1,999.77	6.64	5.53	-158.86	24.50	69.63	130.23	118.28	11.95	10.896	
2,100.00	2,097.79	2,101.47	2,101.31	6.94	6.10	-157.76	19.33	70.99	134.17	121.77	12.41	10.815	
2,200.00	2,197.59	2,202.98	2,202.41	7.26	6.64	-155.32	10.70	73.27	136.94	124.13	12.81	10.692	
2,300.00	2,297.38	2,304.04	2,302.70	7.57	7.16	-151.58	-1.33	76.44	138.93	125.79	13.14	10.576	
2,400.00	2,397.18	2,404.41	2,401.81	7.89	7.67	-146.60	-16.65	80.48	140.79	127.40	13.38	10.520	
2,500.00	2,496.97	2,503.87	2,499.41	8.22	8.17	-140.45	-35.14	85.35	143.35	129.79	13.56	10.571	
2,600.00	2,596.77	2,602.18	2,595.17	8.54	8.66	-133.35	-56.62	91.02	147.62	133.90	13.72	10.759	
2,700.00	2,696.57	2,699.14	2,688.81	8.87	9.14	-125.63	-80.90	97.42	154.65	140.71	13.94	11.095	
2,800.00	2,796.36	2,794.55	2,780.09	9.21	9.61	-117.72	-107.78	104.51	165.37	151.09	14.29	11.575	
2,900.00	2,896.16	2,888.26	2,868.77	9.54	10.07	-110.06	-137.02	112.22	180.44	165.65	14.79	12.198	
3,000.00	2,995.95	2,980.10	2,954.69	9.87	10.52	-103.01	-168.39	120.49	200.16	184.73	15.43	12.969	
3,100.00	3,095.75	3,069.96	3,037.71	10.21	10.96	-96.73	-201.64	129.26	224.52	208.36	16.16	13.892	
3,200.00	3,195.54	3,157.72	3,117.70	10.55	11.39	-91.29	-236.52	138.46	253.33	236.39	16.93	14.961	
3,300.00	3,295.34	3,243.29	3,194.61	10.89	11.80	-86.65	-272.81	148.03	286.27	268.56	17.71	16.164	
3,400.00	3,395.13	3,326.62	3,268.39	11.23	12.21	-82.70	-310.26	157.90	323.03	304.56	18.47	17.486	
3,500.00	3,494.93	3,407.66	3,339.02	11.58	12.60	-79.36	-348.66	168.03	363.30	344.09	19.21	18.914	
3,600.00	3,594.72	3,486.36	3,406.52	11.92	12.97	-76.52	-387.78	178.35	406.80	386.89	19.91	20.430	
3,700.00	3,694.52	3,562.73	3,470.93	12.26	13.34	-74.10	-427.45	188.81	453.27	432.69	20.58	22.025	
3,800.00	3,794.31	3,636.75	3,532.30	12.61	13.69	-72.02	-467.46	199.36	502.50	481.29	21.21	23.688	
3,900.00	3,894.11	3,708.44	3,590.70	12.96	14.02	-70.23	-507.67	209.96	554.29	532.48	21.81	25.411	
4,000.00	3,993.90	3,777.82	3,646.21	13.30	14.33	-68.68	-547.91	220.58	608.47	586.10	22.37	27.197	
4,100.00	4,093.70	3,855.78	3,707.75	13.65	14.62	-67.14	-594.19	232.78	664.39	641.38	23.01	28.871	
4,200.00	4,193.49	3,937.25	3,772.03	14.00	14.90	-65.76	-642.59	245.54	720.68	697.00	23.69	30.427	
4,300.00	4,293.29	4,018.72	3,836.31	14.35	15.21	-64.59	-690.99	258.31	777.23	752.85	24.37	31.886	
4,400.00	4,393.08	4,100.20	3,900.59	14.70	15.98	-63.56	-739.40	271.07	833.97	808.91	25.06	33.282	
4,500.00	4,492.88	4,181.67	3,964.87	15.05	16.82	-62.67	-787.80	283.83	890.87	865.13	25.75	34.604	
4,600.00	4,592.68	4,263.14	4,029.15	15.40	17.67	-61.88	-836.20	296.60	947.90	921.47	26.43	35.863	
4,700.00	4,692.47	4,344.61	4,093.43	15.75	18.53	-61.18	-884.60	309.36	1,005.05	977.93	27.12	37.060	
4,800.00	4,792.27	4,426.08	4,157.71	16.10	19.39	-60.56	-933.00	322.13	1,062.28	1,034.47	27.81	38.197	
4,900.00	4,892.06	4,507.55	4,221.99	16.45	20.26	-59.99	-981.40	334.89	1,119.59	1,091.09	28.51	39.277	
5,000.00	4,991.86	4,589.02	4,286.27	16.81	21.13	-59.48	-1,029.81	347.65	1,176.97	1,147.77	29.20	40.302	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HNB-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,670.49	4,350.55	17.16	22.01	-59.02	-1,078.21	360.42	1,234.40	1,204.50	29.91	41.276	
5,200.00	5,191.45	4,751.96	4,414.83	17.51	22.89	-58.60	-1,126.61	373.18	1,291.89	1,261.28	30.61	42.203	
5,300.00	5,291.24	4,833.43	4,479.11	17.87	23.77	-58.22	-1,175.01	385.94	1,349.42	1,318.10	31.32	43.085	
5,400.00	5,391.04	4,914.91	4,543.39	18.22	24.66	-57.86	-1,223.41	398.71	1,406.98	1,374.95	32.03	43.926	
5,500.00	5,490.83	4,996.38	4,607.67	18.57	25.54	-57.54	-1,271.81	411.47	1,464.58	1,431.83	32.75	44.727	
5,600.00	5,590.63	5,077.85	4,671.95	18.93	26.43	-57.24	-1,320.21	424.24	1,522.21	1,488.74	33.46	45.489	
5,700.00	5,690.42	5,159.32	4,736.23	19.28	27.33	-56.96	-1,368.62	437.00	1,579.86	1,545.68	34.18	46.216	
5,800.00	5,790.22	5,241.61	4,801.52	19.64	28.22	-56.68	-1,417.02	449.76	1,637.97	1,611.57	34.91	46.943	
5,900.00	5,890.01	5,323.90	4,866.81	19.99	29.11	-56.40	-1,465.42	462.51	1,696.08	1,670.08	35.64	47.670	
6,000.00	5,989.81	5,406.19	4,932.10	20.35	30.00	-56.12	-1,513.81	475.26	1,754.19	1,728.19	36.37	48.397	
6,100.00	6,089.60	5,488.38	4,997.39	20.70	30.89	-55.84	-1,562.21	488.01	1,812.29	1,786.29	37.10	49.124	
6,200.00	6,189.40	5,570.57	5,062.68	21.06	31.78	-55.56	-1,610.61	500.76	1,870.39	1,844.39	37.83	49.851	
6,300.00	6,289.19	5,652.86	5,127.97	21.41	32.67	-55.28	-1,658.99	513.51	1,928.49	1,902.49	38.56	50.578	
6,400.00	6,388.99	5,735.15	5,193.26	21.77	33.56	-55.00	-1,707.39	526.26	1,986.59	1,960.59	39.29	51.305	
6,498.43	6,487.22	5,817.44	5,258.55	22.12	34.45	-54.72	-1,755.78	539.01	2,044.69	2,018.69	40.02	52.032	
6,500.00	6,488.79	5,899.73	5,323.84	22.48	35.34	-54.44	-1,804.18	551.76	2,102.79	2,076.79	40.75	52.759	
6,550.00	6,538.54	5,982.02	5,389.13	22.84	36.23	-54.16	-1,852.57	564.51	2,160.89	2,134.89	41.48	53.486	
6,600.00	6,587.76	6,064.31	5,454.42	23.20	37.12	-53.88	-1,900.97	577.26	2,218.99	2,192.99	42.21	54.213	
6,650.00	6,636.08	6,146.60	5,519.71	23.56	38.01	-53.60	-1,949.37	590.01	2,277.09	2,251.09	42.94	54.940	
6,677.88	6,662.50	6,228.89	5,585.00	23.92	38.90	-53.32	-1,997.77	602.76	2,335.19	2,309.19	43.67	55.667	
6,700.00	6,683.13	6,311.18	5,650.29	24.28	39.79	-53.04	-2,046.17	615.51	2,393.29	2,367.29	44.40	56.394	
6,750.00	6,728.55	6,393.47	5,715.58	24.64	40.68	-52.76	-2,094.57	628.26	2,451.39	2,425.39	45.13	57.121	
6,800.00	6,771.99	6,475.76	5,780.87	25.00	41.57	-52.48	-2,142.97	641.01	2,509.49	2,483.49	45.86	57.848	
6,850.00	6,813.13	6,558.05	5,846.16	25.36	42.46	-52.20	-2,191.37	653.76	2,567.59	2,541.59	46.59	58.575	
6,900.00	6,851.64	6,640.34	5,911.45	25.72	43.35	-51.92	-2,239.77	666.51	2,625.69	2,599.69	47.32	59.302	
6,950.00	6,887.25	6,722.63	5,976.74	26.08	44.24	-51.64	-2,288.17	679.26	2,683.79	2,657.79	48.05	60.029	
7,000.00	6,919.67	6,804.92	6,042.03	26.44	45.13	-51.36	-2,336.57	692.01	2,741.89	2,715.89	48.78	60.756	
7,050.00	6,948.65	6,887.21	6,107.32	26.80	46.02	-51.08	-2,384.97	704.76	2,799.99	2,773.99	49.51	61.483	
7,100.00	6,973.99	6,969.50	6,172.61	27.16	46.91	-50.80	-2,433.37	717.51	2,858.09	2,832.09	50.24	62.210	
7,150.00	6,995.49	7,051.79	6,237.90	27.52	47.80	-50.52	-2,481.77	730.26	2,916.19	2,890.19	50.97	62.937	
7,200.00	7,012.97	7,134.08	6,303.19	27.88	48.69	-50.24	-2,530.17	743.01	2,974.29	2,948.29	51.70	63.664	
7,250.00	7,026.32	7,216.37	6,368.48	28.24	49.58	-49.96	-2,578.57	755.76	3,032.39	3,006.39	52.43	64.391	
7,300.00	7,035.43	7,298.66	6,433.77	28.60	50.47	-49.68	-2,626.97	768.51	3,090.49	3,064.49	53.16	65.118	
7,350.00	7,040.22	7,380.95	6,499.06	28.96	51.36	-49.40	-2,675.37	781.26	3,148.59	3,122.59	53.89	65.845	
7,377.14	7,041.00	7,463.24	6,564.35	29.32	52.25	-49.12	-2,723.77	794.01	3,206.69	3,180.69	54.62	66.572	
7,400.00	7,041.12	7,545.53	6,629.64	29.68	53.14	-48.84	-2,772.17	806.76	3,264.79	3,238.79	55.35	67.299	
7,500.00	7,041.64	7,627.82	6,694.93	30.04	54.03	-48.56	-2,820.57	819.51	3,322.89	3,296.89	56.08	68.026	
7,600.00	7,042.16	7,710.11	6,760.22	30.40	54.92	-48.28	-2,868.97	832.26	3,380.99	3,354.99	56.81	68.753	
7,700.00	7,042.67	7,792.40	6,825.51	30.76	55.81	-48.00	-2,917.37	845.01	3,439.09	3,413.09	57.54	69.480	
7,800.00	7,043.19	7,874.69	6,890.80	31.12	56.70	-47.72	-2,965.77	857.76	3,497.19	3,471.19	58.27	70.207	
7,900.00	7,043.71	7,956.98	6,956.09	31.48	57.59	-47.44	-3,014.17	870.51	3,555.29	3,529.29	59.00	70.934	
8,000.00	7,044.23	8,039.27	7,021.38	31.84	58.48	-47.16	-3,062.57	883.26	3,613.39	3,587.39	59.73	71.661	
8,100.00	7,044.75	8,121.56	7,086.67	32.20	59.37	-46.88	-3,110.97	896.01	3,671.49	3,645.49	60.46	72.388	
8,200.00	7,045.26	8,203.85	7,151.96	32.56	60.26	-46.60	-3,159.37	908.76	3,729.59	3,703.59	61.19	73.115	
8,300.00	7,045.78	8,286.14	7,217.25	32.92	61.15	-46.32	-3,207.77	921.51	3,787.69	3,761.69	61.92	73.842	
8,400.00	7,046.30	8,368.43	7,282.54	33.28	62.04	-46.04	-3,256.17	934.26	3,845.79	3,819.79	62.65	74.569	
8,500.00	7,046.82	8,450.72	7,347.83	33.64	62.93	-45.76	-3,304.57	947.01	3,903.89	3,877.89	63.38	75.296	
8,600.00	7,047.34	8,533.01	7,413.12	34.00	63.82	-45.48	-3,352.97	959.76	3,961.99	3,935.99	64.11	76.023	
8,700.00	7,047.86	8,615.30	7,478.41	34.36	64.71	-45.20	-3,401.37	972.51	4,020.09	3,994.09	64.84	76.750	
8,800.00	7,048.37	8,697.59	7,543.70	34.72	65.60	-44.92	-3,449.77	985.26	4,078.19	4,052.19	65.57	77.477	
8,900.00	7,048.89	8,779.88	7,609.00	35.08	66.49	-44.64	-3,498.17	998.01	4,136.29	4,110.29	66.30	78.204	
9,000.00	7,049.41	8,862.17	7,674.29	35.44	67.38	-44.36	-3,546.57	1,010.76	4,194.39	4,168.39	67.03	78.931	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HNB-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,930.80	7,051.92	65.72	44.73	100.23	-246.04	859.47	3,334.59	3,269.79	64.80	51.459	
9,200.00	7,050.45	9,934.00	7,051.93	68.32	44.75	99.95	-242.84	859.43	3,434.54	3,369.69	64.85	52.962	
9,300.00	7,050.97	9,937.20	7,051.95	70.93	44.77	99.68	-239.63	859.40	3,534.49	3,469.59	64.90	54.462	
9,400.00	7,051.48	9,940.41	7,051.97	73.55	44.79	99.42	-236.43	859.36	3,634.44	3,569.49	64.95	55.957	
9,500.00	7,052.00	9,943.61	7,051.98	76.18	44.81	99.18	-233.22	859.32	3,734.38	3,669.38	65.00	57.450	
9,600.00	7,052.52	9,946.81	7,052.00	78.81	44.83	98.95	-230.02	859.28	3,834.33	3,769.27	65.06	58.938	
9,700.00	7,053.04	9,950.02	7,052.02	81.46	44.85	98.74	-226.82	859.24	3,934.28	3,869.17	65.11	60.423	
9,800.00	7,053.56	9,953.22	7,052.03	84.10	44.87	98.53	-223.61	859.20	4,034.23	3,969.06	65.17	61.903	
9,900.00	7,054.08	9,956.43	7,052.05	86.76	44.89	98.33	-220.41	859.16	4,134.17	4,068.94	65.23	63.380	
10,000.00	7,054.59	9,959.63	7,052.07	89.42	44.91	98.15	-217.21	859.13	4,234.12	4,168.83	65.29	64.852	
10,100.00	7,055.11	9,962.83	7,052.08	92.08	44.93	97.97	-214.00	859.09	4,334.07	4,268.72	65.35	66.321	
10,200.00	7,055.63	9,966.04	7,052.10	94.75	44.95	97.80	-210.80	859.05	4,434.02	4,368.60	65.41	67.785	
10,300.00	7,056.15	9,969.24	7,052.12	97.42	44.97	97.63	-207.60	859.01	4,533.96	4,468.49	65.48	69.244	
10,400.00	7,056.67	9,972.45	7,052.13	100.10	44.99	97.48	-204.39	858.97	4,633.91	4,568.37	65.54	70.700	
10,500.00	7,057.18	9,975.65	7,052.15	102.78	45.01	97.33	-201.19	858.93	4,733.86	4,668.25	65.61	72.151	
10,600.00	7,057.70	9,978.85	7,052.17	105.46	45.03	97.18	-197.98	858.89	4,833.81	4,768.13	65.68	73.597	
10,700.00	7,058.22	9,982.06	7,052.18	108.14	45.05	97.04	-194.78	858.85	4,933.76	4,868.01	65.75	75.039	
10,800.00	7,058.74	9,985.26	7,052.20	110.83	45.07	96.91	-191.58	858.82	5,033.70	4,967.88	65.82	76.475	
10,900.00	7,059.26	9,988.47	7,052.22	113.52	45.09	96.78	-188.37	858.78	5,133.65	5,067.76	65.89	77.908	
11,000.00	7,059.78	9,991.67	7,052.23	116.21	45.11	96.66	-185.17	858.74	5,233.60	5,167.63	65.97	79.335	
11,100.00	7,060.29	9,994.87	7,052.25	118.90	45.13	96.54	-181.97	858.70	5,333.55	5,267.50	66.04	80.757	
11,200.00	7,060.81	9,998.08	7,052.27	121.60	45.16	96.43	-178.76	858.66	5,433.50	5,367.37	66.12	82.175	
11,300.00	7,061.33	10,001.28	7,052.28	124.30	45.18	96.32	-175.56	858.62	5,533.44	5,467.24	66.20	83.586	
11,400.00	7,061.85	10,004.49	7,052.30	127.00	45.20	96.21	-172.36	858.58	5,633.39	5,567.11	66.28	84.991	
11,500.00	7,062.37	10,007.69	7,052.32	129.70	45.22	96.11	-169.15	858.55	5,733.34	5,666.98	66.36	86.391	
11,600.00	7,062.89	10,010.89	7,052.33	132.40	45.24	96.01	-165.95	858.51	5,833.29	5,766.84	66.45	87.786	
11,700.00	7,063.40	10,014.10	7,052.35	135.10	45.26	95.91	-162.74	858.47	5,933.24	5,866.70	66.53	89.175	
11,800.00	7,063.92	10,017.30	7,052.37	137.81	45.29	95.82	-159.54	858.43	6,033.18	5,966.56	66.62	90.559	
11,900.00	7,064.44	10,020.51	7,052.38	140.51	45.31	95.73	-156.34	858.39	6,133.13	6,066.42	66.71	91.937	
12,000.00	7,064.96	10,023.71	7,052.40	143.22	45.33	95.64	-153.13	858.35	6,233.08	6,166.28	66.80	93.310	
12,100.00	7,065.48	10,026.91	7,052.41	145.93	45.35	95.56	-149.93	858.31	6,333.03	6,266.14	66.89	94.678	
12,200.00	7,066.00	10,030.12	7,052.43	148.64	45.38	95.48	-146.73	858.28	6,432.98	6,366.00	66.98	96.040	
12,300.00	7,066.51	10,033.32	7,052.45	151.35	45.40	95.40	-143.52	858.24	6,532.93	6,465.85	67.08	97.396	
12,400.00	7,067.03	10,036.53	7,052.46	154.06	45.42	95.32	-140.32	858.20	6,632.87	6,565.70	67.17	98.747	
12,500.00	7,067.55	10,039.73	7,052.48	156.77	45.44	95.25	-137.11	858.16	6,732.82	6,665.56	67.27	100.093	
12,600.00	7,068.07	10,042.93	7,052.50	159.49	45.46	95.18	-133.91	858.12	6,832.77	6,765.41	67.36	101.432	
12,700.00	7,068.59	10,046.14	7,052.51	162.20	45.49	95.11	-130.71	858.08	6,932.72	6,865.26	67.46	102.766	
12,800.00	7,069.11	10,049.34	7,052.53	164.92	45.51	95.04	-127.50	858.04	7,032.67	6,965.11	67.56	104.094	
12,900.00	7,069.62	10,052.54	7,052.55	167.63	45.53	94.97	-124.30	858.01	7,132.62	7,064.95	67.66	105.417	
13,000.00	7,070.14	10,055.75	7,052.56	170.35	45.55	94.91	-121.10	857.97	7,232.56	7,164.80	67.76	106.734	
13,100.00	7,070.66	10,058.95	7,052.58	173.07	45.58	94.84	-117.89	857.93	7,332.51	7,264.65	67.87	108.045	
13,200.00	7,071.18	10,062.16	7,052.60	175.78	45.60	94.78	-114.69	857.89	7,432.46	7,364.49	67.97	109.350	
13,300.00	7,071.70	10,065.36	7,052.61	178.50	45.62	94.72	-111.49	857.85	7,532.41	7,464.33	68.07	110.649	
13,400.00	7,072.21	10,068.56	7,052.63	181.22	45.64	94.67	-108.28	857.81	7,632.36	7,564.18	68.18	111.942	
13,500.00	7,072.73	10,071.77	7,052.65	183.94	45.66	94.61	-105.08	857.77	7,732.31	7,664.02	68.29	113.230	
13,600.00	7,073.25	10,074.97	7,052.66	186.66	45.69	94.55	-101.87	857.74	7,832.25	7,763.86	68.40	114.512	
13,700.00	7,073.77	10,078.18	7,052.68	189.38	45.71	94.50	-98.67	857.70	7,932.20	7,863.70	68.51	115.788	
13,800.00	7,074.29	10,081.38	7,052.70	192.10	45.73	94.45	-95.47	857.66	8,032.15	7,963.53	68.62	117.057	
13,900.00	7,074.81	10,084.58	7,052.71	194.82	45.75	94.40	-92.26	857.62	8,132.10	8,063.37	68.73	118.321	
14,000.00	7,075.32	10,087.79	7,052.73	197.54	45.78	94.35	-89.06	857.58	8,232.05	8,163.21	68.84	119.579	
14,100.00	7,075.84	10,090.99	7,052.75	200.27	45.80	94.30	-85.86	857.54	8,332.00	8,263.04	68.96	120.832	
14,200.00	7,076.36	5,047.09	4,647.69	202.99	26.10	-21.86	-1,301.94	419.42	8,428.45	8,369.84	58.62	143.788	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HNB-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,300.00	7,076.88	5,030.65	4,634.71	205.71	25.92	-21.55	-1,292.18	416.84	8,523.72	8,465.31	58.41	145.935	
14,400.00	7,077.40	5,014.21	4,621.74	208.44	25.74	-21.25	-1,282.41	414.27	8,619.07	8,560.87	58.20	148.100	
14,500.00	7,077.92	4,997.77	4,608.77	211.16	25.56	-20.94	-1,272.64	411.69	8,714.48	8,656.50	57.99	150.283	
14,600.00	7,078.43	4,981.33	4,595.80	213.88	25.38	-20.64	-1,262.87	409.11	8,809.97	8,752.20	57.78	152.483	
14,700.00	7,078.95	4,964.89	4,582.83	216.61	25.20	-20.34	-1,253.11	406.54	8,905.53	8,847.96	57.57	154.701	
14,800.00	7,079.47	4,948.45	4,569.86	219.33	25.02	-20.05	-1,243.34	403.96	9,001.15	8,943.80	57.35	156.938	
14,900.00	7,079.99	4,932.01	4,556.89	222.06	24.84	-19.75	-1,233.57	401.39	9,096.84	9,039.70	57.14	159.193	
15,000.00	7,080.51	4,915.57	4,543.91	224.78	24.66	-19.46	-1,223.80	398.81	9,192.59	9,135.66	56.93	161.465	
15,100.00	7,081.03	4,899.13	4,530.94	227.51	24.49	-19.17	-1,214.04	396.24	9,288.40	9,231.68	56.72	163.755	
15,200.00	7,081.54	4,882.69	4,517.97	230.24	24.31	-18.88	-1,204.27	393.66	9,384.27	9,327.76	56.51	166.061	
15,300.00	7,082.06	4,866.25	4,505.00	232.96	24.13	-18.59	-1,194.50	391.08	9,480.20	9,423.90	56.30	168.384	
15,400.00	7,082.58	4,849.80	4,492.03	235.69	23.95	-18.30	-1,184.74	388.51	9,576.18	9,520.09	56.09	170.723	
15,500.00	7,083.10	4,833.36	4,479.06	238.41	23.77	-18.02	-1,174.97	385.93	9,672.22	9,616.34	55.88	173.080	
15,600.00	7,083.62	4,816.92	4,466.09	241.14	23.59	-17.74	-1,165.20	383.36	9,768.31	9,712.63	55.67	175.454	
15,700.00	7,084.13	4,800.48	4,453.11	243.87	23.41	-17.46	-1,155.43	380.78	9,864.44	9,808.98	55.47	177.845	
15,800.00	7,084.65	4,784.04	4,440.14	246.60	23.24	-17.18	-1,145.67	378.21	9,960.63	9,905.37	55.26	180.248	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-160.37	-310.76	-110.86	329.95				
100.00	100.00	98.00	98.00	0.48	0.47	-160.37	-310.76	-110.86	329.94	328.99	0.96	345.294	
200.00	200.00	198.00	198.00	1.28	1.27	-160.37	-310.76	-110.86	329.94	327.39	2.55	129.459	
300.00	300.00	298.00	298.00	1.77	1.76	-160.37	-310.76	-110.86	329.94	326.41	3.53	93.536	
400.00	400.00	398.00	398.00	2.15	2.14	-160.37	-310.76	-110.86	329.94	325.65	4.29	76.848	
500.00	500.00	498.00	498.00	2.48	2.47	-160.37	-310.76	-110.86	329.94	324.99	4.95	66.692	
600.00	600.00	598.00	598.00	2.77	2.76	-160.37	-310.76	-110.86	329.94	324.41	5.53	59.675	
700.00	700.00	698.00	698.00	3.03	3.03	-160.37	-310.76	-110.86	329.94	323.88	6.06	54.451	
800.00	800.00	798.00	798.00	3.28	3.27	-160.37	-310.76	-110.86	329.94	323.39	6.55	50.364	
900.00	900.00	898.00	898.00	3.51	3.50	-160.37	-310.76	-110.86	329.94	322.93	7.01	47.053	
1,000.00	999.98	997.98	997.98	3.78	3.72	-11.58	-310.76	-110.86	328.23	320.74	7.49	43.821	
1,083.35	1,083.22	1,081.22	1,081.22	4.28	3.89	-11.75	-310.76	-110.86	324.20	316.05	8.15	39.785	
1,100.00	1,099.84	1,097.84	1,097.84	4.29	3.93	-11.79	-310.76	-110.86	323.15	314.96	8.20	39.431	
1,200.00	1,199.64	1,197.64	1,197.64	4.47	4.13	-12.02	-310.76	-110.86	316.89	308.32	8.57	36.958	
1,300.00	1,299.43	1,297.43	1,297.43	4.70	4.32	-12.27	-310.76	-110.86	310.64	301.65	8.99	34.549	
1,400.00	1,399.23	1,397.23	1,397.23	4.95	4.50	-12.52	-310.76	-110.86	304.39	294.98	9.42	32.326	
1,500.00	1,499.02	1,497.02	1,497.02	5.20	4.68	-12.79	-310.76	-110.86	298.15	288.30	9.85	30.276	
1,600.00	1,598.82	1,596.82	1,596.82	5.47	4.86	-13.07	-310.76	-110.86	291.92	281.63	10.28	28.383	
1,700.00	1,698.61	1,696.61	1,696.61	5.75	5.02	-13.36	-310.76	-110.86	285.69	274.97	10.73	26.635	
1,800.00	1,798.41	1,796.41	1,796.41	6.04	5.19	-13.66	-310.76	-110.86	279.47	268.30	11.17	25.018	
1,900.00	1,898.20	1,889.74	1,889.72	6.34	5.36	-14.15	-312.04	-110.29	274.39	262.80	11.59	23.672	
2,000.00	1,998.00	1,982.85	1,982.73	6.64	5.85	-15.07	-316.09	-108.48	271.82	259.60	12.22	22.245	
2,049.18	2,047.07	2,028.60	2,028.36	6.79	6.11	-15.68	-319.08	-107.14	271.50	258.96	12.54	21.654 CC, ES	
2,100.00	2,097.79	2,075.81	2,075.38	6.94	6.37	-16.41	-322.87	-105.45	271.84	258.97	12.87	21.121	
2,200.00	2,197.59	2,168.40	2,167.39	7.26	6.86	-18.11	-332.36	-101.21	274.62	261.09	13.53	20.291	
2,300.00	2,297.38	2,260.44	2,258.46	7.57	7.34	-20.13	-344.47	-95.80	280.31	266.10	14.21	19.730	
2,400.00	2,397.18	2,351.76	2,348.35	7.89	7.81	-22.36	-359.12	-89.26	289.06	274.18	14.89	19.419	
2,500.00	2,496.97	2,442.16	2,436.80	8.22	8.27	-24.73	-376.20	-81.63	301.02	285.46	15.56	19.340 SF	
2,600.00	2,596.77	2,531.50	2,523.57	8.54	8.72	-27.13	-395.57	-72.98	316.29	300.05	16.24	19.482	
2,700.00	2,696.57	2,619.61	2,608.48	8.87	9.16	-29.51	-417.08	-63.37	334.90	318.01	16.89	19.827	
2,800.00	2,796.36	2,706.37	2,691.32	9.21	9.59	-31.79	-440.59	-52.88	356.87	339.35	17.53	20.362	
2,900.00	2,896.16	2,791.64	2,771.95	9.54	10.02	-33.93	-465.91	-41.57	382.16	364.02	18.14	21.069	
3,000.00	2,995.95	2,875.31	2,850.24	9.87	10.43	-35.91	-492.87	-29.52	410.69	391.96	18.73	21.931	
3,100.00	3,095.75	2,957.30	2,926.08	10.21	10.83	-37.72	-521.31	-16.82	442.35	423.06	19.29	22.932	
3,200.00	3,195.54	3,037.53	2,999.40	10.55	11.23	-39.35	-551.04	-3.54	477.04	457.21	19.83	24.057	
3,300.00	3,295.34	3,115.92	3,070.13	10.89	11.61	-40.82	-581.90	10.23	514.63	494.28	20.35	25.292	
3,400.00	3,395.13	3,200.00	3,144.94	11.23	12.02	-42.25	-616.94	25.89	555.05	534.09	20.96	26.482	
3,500.00	3,494.93	3,267.01	3,203.73	11.58	12.35	-43.30	-646.29	39.00	597.99	576.67	21.33	28.041	
3,600.00	3,594.72	3,339.65	3,266.59	11.92	12.70	-44.33	-679.52	53.84	643.51	621.72	21.79	29.534	
3,700.00	3,694.52	3,410.33	3,326.85	12.26	13.03	-45.26	-713.24	68.89	691.41	669.19	22.22	31.118	
3,800.00	3,794.31	3,487.13	3,391.43	12.61	13.29	-46.16	-751.20	85.85	741.38	718.75	22.63	32.756	
3,900.00	3,894.11	3,572.85	3,463.37	12.96	13.58	-47.06	-793.77	104.86	791.80	768.63	23.18	34.166	
4,000.00	3,993.90	3,658.58	3,535.30	13.30	13.89	-47.85	-836.35	123.88	842.35	818.62	23.73	35.490	
4,100.00	4,093.70	3,744.30	3,607.24	13.65	14.20	-48.55	-878.93	142.89	893.01	868.70	24.31	36.739	
4,200.00	4,193.49	3,830.03	3,679.17	14.00	14.52	-49.18	-921.50	161.91	943.76	918.87	24.89	37.924	
4,300.00	4,293.29	3,915.76	3,751.10	14.35	14.88	-49.74	-964.08	180.92	994.58	969.09	25.50	39.008	
4,400.00	4,393.08	4,001.48	3,823.04	14.70	15.68	-50.25	-1,006.65	199.94	1,045.47	1,019.38	26.10	40.063	
4,500.00	4,492.88	4,087.21	3,894.97	15.05	16.48	-50.72	-1,049.23	218.95	1,096.42	1,069.70	26.71	41.045	
4,600.00	4,592.68	4,172.93	3,966.91	15.40	17.30	-51.14	-1,091.81	237.97	1,147.41	1,120.07	27.34	41.974	
4,700.00	4,692.47	4,258.66	4,038.84	15.75	18.11	-51.52	-1,134.38	256.98	1,198.45	1,170.48	27.97	42.851	
4,800.00	4,792.27	4,344.38	4,110.78	16.10	18.94	-51.88	-1,176.96	276.00	1,249.52	1,220.91	28.61	43.680	
4,900.00	4,892.06	4,430.11	4,182.71	16.45	19.76	-52.20	-1,219.53	295.01	1,300.63	1,271.37	29.25	44.464	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HNC-02-07-65 - OWB - PROPOSAL 1											Offset Site Error: 0.00 usft		
Survey Program: 0-MWD												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,991.86	4,515.84	4,254.65	16.81	20.59	-52.51	-1,262.11	314.03	1,351.76	1,321.86	29.90	45.205	
5,100.00	5,091.65	4,601.56	4,326.58	17.16	21.43	-52.79	-1,304.68	333.04	1,402.92	1,372.36	30.56	45.907	
5,200.00	5,191.45	4,687.29	4,398.52	17.51	22.26	-53.05	-1,347.26	352.06	1,454.11	1,422.88	31.22	46.570	
5,300.00	5,291.24	4,773.01	4,470.45	17.87	23.10	-53.29	-1,389.84	371.07	1,505.31	1,473.42	31.89	47.198	
5,400.00	5,391.04	4,858.74	4,542.39	18.22	23.94	-53.52	-1,432.41	390.09	1,556.53	1,523.97	32.57	47.794	
5,500.00	5,490.83	4,944.46	4,614.32	18.57	24.79	-53.73	-1,474.99	409.10	1,607.78	1,574.53	33.25	48.359	
5,600.00	5,590.63	5,030.19	4,686.26	18.93	25.63	-53.93	-1,517.56	428.12	1,659.03	1,625.10	33.93	48.897	
5,700.00	5,690.42	5,115.91	4,758.19	19.28	26.48	-54.12	-1,560.14	447.13	1,710.30	1,675.69	34.62	49.408	
5,800.00	5,790.22	5,201.64	4,830.13	19.64	27.33	-54.29	-1,602.72	466.15	1,761.58	1,726.28	35.31	49.894	
5,900.00	5,890.01	5,862.04	7,138.87	19.99	43.11	-124.62	-260.63	1,040.18	1,735.18	1,689.47	45.71	37.959	
6,000.00	5,989.81	9,857.13	7,138.84	20.35	43.08	-124.39	-265.55	1,040.24	1,667.10	1,620.63	46.47	35.876	
6,100.00	6,089.60	9,852.21	7,138.82	20.70	43.04	-124.17	-270.46	1,040.30	1,602.36	1,555.04	47.32	33.865	
6,200.00	6,189.40	9,847.29	7,138.79	21.06	43.00	-123.94	-275.38	1,040.36	1,541.37	1,493.11	48.26	31.939	
6,300.00	6,289.19	9,842.38	7,138.77	21.41	42.97	-123.72	-280.30	1,040.42	1,484.60	1,435.30	49.30	30.113	
6,400.00	6,388.99	9,837.46	7,138.74	21.77	42.93	-123.49	-285.21	1,040.48	1,432.55	1,382.11	50.44	28.403	
6,498.43	6,487.22	9,832.62	7,138.72	22.12	42.90	-123.27	-290.05	1,040.53	1,386.44	1,334.81	51.63	26.851	
6,500.00	6,488.79	9,832.54	7,138.71	22.12	42.90	-125.34	-290.13	1,040.53	1,385.76	1,334.10	51.65	26.828	
6,550.00	6,538.54	9,830.17	7,138.70	22.32	42.88	-158.58	-292.51	1,040.56	1,366.64	1,314.28	52.36	26.102	
6,600.00	6,587.76	9,827.96	7,138.69	22.59	42.86	-167.97	-294.72	1,040.59	1,353.26	1,299.99	53.27	25.403	
6,650.00	6,636.08	9,825.93	7,138.68	22.84	42.85	-172.05	-296.74	1,040.61	1,345.90	1,291.63	54.27	24.798	
6,684.55	6,668.75	9,824.64	7,138.67	22.99	42.84	-173.71	-298.03	1,040.63	1,344.42	1,289.44	54.98	24.451	
6,700.00	6,683.13	9,824.10	7,138.67	23.07	42.83	-174.29	-298.57	1,040.64	1,344.72	1,289.42	55.30	24.316	
6,750.00	6,728.55	9,822.48	7,138.66	23.29	42.82	-175.70	-300.19	1,040.66	1,349.73	1,293.42	56.31	23.968	
6,800.00	6,771.99	9,821.09	7,138.66	23.51	42.81	-176.69	-301.58	1,040.67	1,360.83	1,303.55	57.28	23.757	
6,850.00	6,813.13	9,819.94	7,138.65	23.72	42.80	-177.43	-302.73	1,040.69	1,377.80	1,319.62	58.18	23.681	
6,900.00	6,851.64	9,819.03	7,138.65	23.94	42.80	-178.04	-303.64	1,040.70	1,400.29	1,341.30	59.00	23.735	
6,950.00	6,887.25	9,818.37	7,138.64	24.16	42.79	-178.57	-304.30	1,040.71	1,427.88	1,368.16	59.72	23.910	
7,000.00	6,919.67	9,817.97	7,138.64	24.38	42.79	-179.08	-304.71	1,040.71	1,460.08	1,399.73	60.34	24.196	
7,050.00	6,948.65	9,817.82	7,138.64	24.62	42.79	-179.62	-304.85	1,040.71	1,496.34	1,435.47	60.87	24.582	
7,100.00	6,973.99	9,817.94	7,138.64	24.88	42.79	179.77	-304.73	1,040.71	1,536.13	1,474.82	61.30	25.057	
7,150.00	6,995.49	9,818.31	7,138.64	25.18	42.79	179.00	-304.36	1,040.71	1,578.87	1,517.22	61.65	25.609	
7,200.00	7,012.97	9,818.95	7,138.64	25.51	42.80	177.93	-303.72	1,040.70	1,624.04	1,562.11	61.92	26.227	
7,250.00	7,026.32	9,819.83	7,138.65	25.89	42.80	176.24	-302.84	1,040.69	1,671.09	1,608.97	62.12	26.900	
7,300.00	7,035.43	9,820.96	7,138.66	26.33	42.81	173.10	-301.71	1,040.67	1,719.53	1,657.27	62.26	27.618	
7,350.00	7,040.22	9,822.33	7,138.66	26.84	42.82	165.08	-300.34	1,040.66	1,768.90	1,706.55	62.35	28.372	
7,377.14	7,041.00	9,823.16	7,138.67	27.14	42.83	152.42	-299.51	1,040.65	1,795.92	1,733.55	62.37	28.793	
7,400.00	7,041.12	9,823.90	7,138.67	27.41	42.83	152.12	-298.78	1,040.64	1,818.73	1,756.34	62.39	29.151	
7,500.00	7,041.64	9,827.10	7,138.69	28.77	42.86	150.83	-295.57	1,040.60	1,918.51	1,856.05	62.46	30.718	
7,600.00	7,042.16	9,830.31	7,138.70	30.39	42.88	149.56	-292.37	1,040.56	2,018.31	1,955.79	62.52	32.282	
7,700.00	7,042.67	9,833.51	7,138.72	32.22	42.90	148.33	-289.16	1,040.52	2,118.12	2,055.54	62.58	33.845	
7,800.00	7,043.19	9,836.72	7,138.74	34.20	42.93	147.13	-285.96	1,040.48	2,217.94	2,155.30	62.64	35.406	
7,900.00	7,043.71	9,839.92	7,138.75	36.31	42.95	145.96	-282.75	1,040.45	2,317.77	2,255.07	62.70	36.965	
8,000.00	7,044.23	9,843.13	7,138.77	38.52	42.97	144.83	-279.55	1,040.41	2,417.62	2,354.86	62.76	38.522	
8,100.00	7,044.75	9,846.33	7,138.79	40.80	43.00	143.72	-276.34	1,040.37	2,517.47	2,454.65	62.82	40.077	
8,200.00	7,045.26	9,849.53	7,138.80	43.15	43.02	142.65	-273.14	1,040.33	2,617.33	2,554.45	62.87	41.628	
8,300.00	7,045.78	9,852.74	7,138.82	45.54	43.04	141.60	-269.94	1,040.29	2,717.19	2,654.26	62.93	43.178	
8,400.00	7,046.30	9,855.94	7,138.84	47.97	43.07	140.59	-266.73	1,040.25	2,817.07	2,754.08	62.99	44.724	
8,500.00	7,046.82	9,859.15	7,138.85	50.44	43.09	139.60	-263.53	1,040.21	2,916.94	2,853.90	63.04	46.268	
8,600.00	7,047.34	9,862.35	7,138.87	52.94	43.12	138.65	-260.32	1,040.17	3,016.82	2,953.72	63.10	47.809	
8,700.00	7,047.86	9,865.56	7,138.89	55.46	43.14	137.72	-257.12	1,040.14	3,116.71	3,053.55	63.16	49.346	
8,800.00	7,048.37	9,868.76	7,138.90	58.00	43.16	136.82	-253.91	1,040.10	3,216.60	3,153.38	63.22	50.881	
8,900.00	7,048.89	9,871.97	7,138.92	60.56	43.19	135.94	-250.71	1,040.06	3,316.49	3,253.22	63.28	52.412	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,000.00	7,049.41	9,875.17	7,138.94	63.13	43.21	135.09	-247.51	1,040.02	3,416.39	3,353.05	63.34	53.940	
9,100.00	7,049.93	9,878.38	7,138.95	65.72	43.23	134.26	-244.30	1,039.98	3,516.29	3,452.89	63.40	55.464	
9,200.00	7,050.45	9,881.58	7,138.97	68.32	43.26	133.46	-241.10	1,039.94	3,616.19	3,552.73	63.46	56.984	
9,300.00	7,050.97	9,884.78	7,138.99	70.93	43.28	132.68	-237.89	1,039.90	3,716.10	3,652.57	63.52	58.501	
9,400.00	7,051.48	9,887.99	7,139.00	73.55	43.31	131.92	-234.69	1,039.87	3,816.00	3,752.42	63.59	60.014	
9,500.00	7,052.00	9,891.19	7,139.02	76.18	43.33	131.19	-231.48	1,039.83	3,915.91	3,852.26	63.65	61.523	
9,600.00	7,052.52	9,894.40	7,139.03	78.81	43.35	130.48	-228.28	1,039.79	4,015.82	3,952.11	63.71	63.028	
9,700.00	7,053.04	9,897.60	7,139.05	81.46	43.38	129.78	-225.08	1,039.75	4,115.74	4,051.96	63.78	64.529	
9,800.00	7,053.56	9,900.81	7,139.07	84.10	43.40	129.11	-221.87	1,039.71	4,215.65	4,151.80	63.85	66.025	
9,900.00	7,054.08	9,904.01	7,139.08	86.76	43.43	128.45	-218.67	1,039.67	4,315.57	4,251.65	63.92	67.516	
10,000.00	7,054.59	9,907.22	7,139.10	89.42	43.45	127.82	-215.46	1,039.63	4,415.48	4,351.49	63.99	69.002	
10,100.00	7,055.11	9,910.42	7,139.12	92.08	43.48	127.20	-212.26	1,039.60	4,515.40	4,451.34	64.06	70.483	
10,200.00	7,055.63	9,913.63	7,139.13	94.75	43.51	126.60	-209.05	1,039.56	4,615.32	4,551.19	64.14	71.960	
10,300.00	7,056.15	9,916.83	7,139.15	97.42	43.53	126.02	-205.85	1,039.52	4,715.25	4,651.03	64.21	73.432	
10,400.00	7,056.67	9,920.04	7,139.17	100.10	43.56	125.45	-202.65	1,039.48	4,815.17	4,750.88	64.29	74.900	
10,500.00	7,057.18	9,923.24	7,139.18	102.78	43.58	124.90	-199.44	1,039.44	4,915.09	4,850.73	64.37	76.362	
10,600.00	7,057.70	9,926.44	7,139.20	105.46	43.61	124.36	-196.24	1,039.40	5,015.02	4,950.57	64.44	77.820	
10,700.00	7,058.22	9,929.65	7,139.22	108.14	43.63	123.84	-193.03	1,039.36	5,114.94	5,050.42	64.52	79.273	
10,800.00	7,058.74	9,932.85	7,139.23	110.83	43.66	123.33	-189.83	1,039.32	5,214.87	5,150.26	64.60	80.720	
10,900.00	7,059.26	9,936.06	7,139.25	113.52	43.69	122.83	-186.62	1,039.29	5,314.80	5,250.11	64.69	82.163	
11,000.00	7,059.78	9,939.26	7,139.27	116.21	43.71	122.35	-183.42	1,039.25	5,414.72	5,349.95	64.77	83.600	
11,100.00	7,060.29	9,942.47	7,139.28	118.90	43.74	121.88	-180.22	1,039.21	5,514.65	5,449.80	64.85	85.032	
11,200.00	7,060.81	9,945.67	7,139.30	121.60	43.76	121.42	-177.01	1,039.17	5,614.58	5,549.64	64.94	86.459	
11,300.00	7,061.33	9,948.88	7,139.32	124.30	43.79	120.98	-173.81	1,039.13	5,714.51	5,649.49	65.03	87.880	
11,400.00	7,061.85	9,952.08	7,139.33	127.00	43.82	120.54	-170.60	1,039.09	5,814.44	5,749.33	65.11	89.296	
11,500.00	7,062.37	9,955.29	7,139.35	129.70	43.84	120.12	-167.40	1,039.05	5,914.38	5,849.17	65.20	90.707	
11,600.00	7,062.89	9,958.49	7,139.37	132.40	43.87	119.71	-164.19	1,039.02	6,014.31	5,949.01	65.29	92.112	
11,700.00	7,063.40	9,961.69	7,139.38	135.10	43.90	119.30	-160.99	1,038.98	6,114.24	6,048.85	65.39	93.511	
11,800.00	7,063.92	9,964.90	7,139.40	137.81	43.92	118.91	-157.79	1,038.94	6,214.17	6,148.70	65.48	94.905	
11,900.00	7,064.44	5,119.93	4,761.56	140.51	26.52	-28.19	-1,562.13	448.02	6,309.72	6,250.06	59.66	105.760	
12,000.00	7,064.96	5,097.20	4,742.49	143.22	26.29	-27.77	-1,550.84	442.98	6,401.09	6,341.61	59.48	107.614	
12,100.00	7,065.48	5,074.46	4,723.41	145.93	26.07	-27.36	-1,539.55	437.94	6,492.64	6,433.34	59.30	109.493	
12,200.00	7,066.00	5,051.73	4,704.33	148.64	25.84	-26.95	-1,528.26	432.89	6,584.35	6,525.25	59.11	111.398	
12,300.00	7,066.51	5,029.00	4,685.26	151.35	25.62	-26.54	-1,516.97	427.85	6,676.23	6,617.32	58.91	113.329	
12,400.00	7,067.03	5,006.26	4,666.18	154.06	25.40	-26.14	-1,505.68	422.81	6,768.25	6,709.55	58.71	115.286	
12,500.00	7,067.55	4,983.53	4,647.11	156.77	25.17	-25.74	-1,494.39	417.77	6,860.43	6,801.93	58.50	117.268	
12,600.00	7,068.07	4,960.80	4,628.03	159.49	24.95	-25.34	-1,483.10	412.72	6,952.75	6,894.46	58.29	119.274	
12,700.00	7,068.59	4,938.07	4,608.95	162.20	24.72	-24.95	-1,471.81	407.68	7,045.20	6,987.12	58.08	121.307	
12,800.00	7,069.11	4,915.33	4,589.88	164.92	24.50	-24.56	-1,460.52	402.64	7,137.79	7,079.93	57.86	123.365	
12,900.00	7,069.62	4,892.60	4,570.80	167.63	24.28	-24.18	-1,449.23	397.60	7,230.50	7,172.86	57.64	125.448	
13,000.00	7,070.14	4,869.87	4,551.72	170.35	24.05	-23.80	-1,437.94	392.55	7,323.33	7,265.92	57.41	127.555	
13,100.00	7,070.66	4,847.13	4,532.65	173.07	23.83	-23.42	-1,426.65	387.51	7,416.28	7,359.09	57.19	129.687	
13,200.00	7,071.18	4,824.40	4,513.57	175.78	23.61	-23.05	-1,415.36	382.47	7,509.34	7,452.39	56.96	131.845	
13,300.00	7,071.70	4,801.67	4,494.50	178.50	23.38	-22.68	-1,404.07	377.43	7,602.51	7,545.79	56.72	134.028	
13,400.00	7,072.21	4,778.93	4,475.42	181.22	23.16	-22.31	-1,392.78	372.38	7,695.79	7,639.30	56.49	136.234	
13,500.00	7,072.73	4,756.20	4,456.34	183.94	22.94	-21.95	-1,381.49	367.34	7,789.16	7,732.91	56.25	138.465	
13,600.00	7,073.25	4,733.47	4,437.27	186.66	22.71	-21.59	-1,370.20	362.30	7,882.63	7,826.62	56.02	140.721	
13,700.00	7,073.77	4,710.73	4,418.19	189.38	22.49	-21.23	-1,358.91	357.26	7,976.20	7,920.42	55.78	143.002	
13,800.00	7,074.29	4,688.00	4,399.12	192.10	22.27	-20.88	-1,347.61	352.21	8,069.85	8,014.32	55.54	145.306	
13,900.00	7,074.81	4,665.27	4,380.04	194.82	22.05	-20.53	-1,336.32	347.17	8,163.59	8,108.30	55.30	147.634	
14,000.00	7,075.32	4,642.53	4,360.96	197.54	21.83	-20.18	-1,325.03	342.13	8,257.42	8,202.37	55.05	149.985	
14,100.00	7,075.84	4,619.80	4,341.89	200.27	21.60	-19.84	-1,313.74	337.09	8,351.33	8,296.52	54.81	152.362	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 2Y-HNC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,200.00	7,076.36	4,597.07	4,322.81	202.99	21.38	-19.50	-1,302.45	332.04	8,445.32	8,390.75	54.57	154.763	
14,300.00	7,076.88	4,574.33	4,303.74	205.71	21.16	-19.17	-1,291.16	327.00	8,539.38	8,485.05	54.33	157.183	
14,400.00	7,077.40	4,551.60	4,284.66	208.44	20.94	-18.84	-1,279.87	321.96	8,633.52	8,579.43	54.09	159.628	
14,500.00	7,077.92	4,528.87	4,265.58	211.16	20.72	-18.51	-1,268.58	316.92	8,727.72	8,673.88	53.84	162.097	
14,600.00	7,078.43	4,506.13	4,246.51	213.88	20.50	-18.18	-1,257.29	311.87	8,822.00	8,768.40	53.60	164.590	
14,700.00	7,078.95	4,483.40	4,227.43	216.61	20.28	-17.86	-1,246.00	306.83	8,916.34	8,862.99	53.36	167.102	
14,800.00	7,079.47	4,460.67	4,208.36	219.33	20.06	-17.54	-1,234.71	301.79	9,010.75	8,957.63	53.12	169.636	
14,900.00	7,079.99	4,437.93	4,189.28	222.06	19.84	-17.22	-1,223.42	296.75	9,105.22	9,052.35	52.88	172.194	
15,000.00	7,080.51	4,415.20	4,170.20	224.78	19.62	-16.91	-1,212.13	291.70	9,199.75	9,147.12	52.64	174.774	
15,100.00	7,081.03	4,392.47	4,151.13	227.51	19.40	-16.60	-1,200.84	286.66	9,294.34	9,241.95	52.40	177.374	
15,200.00	7,081.54	4,369.73	4,132.05	230.24	19.18	-16.29	-1,189.55	281.62	9,388.99	9,336.83	52.16	179.992	
15,300.00	7,082.06	4,347.00	4,112.97	232.96	18.96	-15.99	-1,178.26	276.58	9,483.69	9,431.77	51.93	182.632	
15,400.00	7,082.58	4,324.27	4,093.90	235.69	18.74	-15.69	-1,166.97	271.53	9,578.45	9,526.76	51.69	185.294	
15,500.00	7,083.10	4,301.54	4,074.82	238.41	18.52	-15.39	-1,155.68	266.49	9,673.26	9,621.80	51.46	187.978	
15,600.00	7,083.62	4,278.80	4,055.75	241.14	18.31	-15.10	-1,144.39	261.45	9,768.12	9,716.89	51.23	190.674	
15,700.00	7,084.13	4,256.07	4,036.67	243.87	18.09	-14.81	-1,133.09	256.41	9,863.03	9,812.03	51.00	193.390	
15,800.00	7,084.65	4,233.34	4,017.59	246.60	17.87	-14.52	-1,121.80	251.36	9,957.98	9,907.21	50.77	196.126	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-165.85	-445.58	-112.33	459.53				
100.00	100.00	97.00	97.00	0.48	0.47	-165.85	-445.58	-112.33	459.52	458.57	0.95	483.340	
200.00	200.00	197.00	197.00	1.28	1.26	-165.85	-445.58	-112.33	459.52	456.98	2.54	180.868	
300.00	300.00	297.00	297.00	1.77	1.75	-165.85	-445.58	-112.33	459.52	455.99	3.52	130.449	
400.00	400.00	397.00	397.00	2.15	2.14	-165.85	-445.58	-112.33	459.52	455.23	4.29	107.124	
500.00	500.00	497.00	497.00	2.48	2.47	-165.85	-445.58	-112.33	459.52	454.57	4.94	92.945	
600.00	600.00	597.00	597.00	2.77	2.76	-165.85	-445.58	-112.33	459.52	453.99	5.53	83.155	
700.00	700.00	697.00	697.00	3.03	3.02	-165.85	-445.58	-112.33	459.52	453.46	6.06	75.868	
800.00	800.00	797.00	797.00	3.28	3.27	-165.85	-445.58	-112.33	459.52	452.97	6.55	70.170	
900.00	900.00	897.00	897.00	3.51	3.50	-165.85	-445.58	-112.33	459.52	452.51	7.01	65.553	
1,000.00	999.98	1,014.32	1,014.28	3.78	4.07	-17.01	-443.30	-112.48	456.01	448.20	7.80	58.426	
1,083.35	1,083.22	1,111.87	1,111.68	4.28	4.83	-17.02	-437.76	-112.85	447.56	438.59	8.98	49.855	
1,100.00	1,099.84	1,131.24	1,130.99	4.29	4.97	-17.01	-436.27	-112.95	445.33	436.21	9.12	48.849	
1,200.00	1,199.64	1,246.78	1,245.94	4.47	5.76	-16.81	-424.66	-113.72	429.67	419.66	10.02	42.886	
1,300.00	1,299.43	1,360.71	1,358.73	4.70	6.47	-16.40	-408.69	-114.78	410.28	399.39	10.89	37.663	
1,400.00	1,399.23	1,472.71	1,468.91	4.95	7.14	-15.72	-388.64	-116.11	387.27	375.54	11.73	33.026	
1,500.00	1,499.02	1,580.40	1,574.03	5.20	7.57	-14.75	-365.37	-117.65	360.82	348.49	12.33	29.263	
1,600.00	1,598.82	1,676.32	1,667.38	5.47	7.82	-13.66	-343.36	-119.11	333.26	320.44	12.81	26.007	
1,700.00	1,698.61	1,772.23	1,760.72	5.75	8.09	-12.38	-321.35	-120.57	305.82	292.48	13.34	22.928	
1,800.00	1,798.41	1,868.15	1,854.06	6.04	8.39	-10.84	-299.35	-122.03	278.56	264.68	13.88	20.064	
1,900.00	1,898.20	1,964.06	1,947.41	6.34	8.70	-8.97	-277.34	-123.50	251.53	237.09	14.44	17.418	
2,000.00	1,998.00	2,059.98	2,040.75	6.64	9.02	-6.66	-255.33	-124.96	224.80	209.80	15.00	14.986	
2,100.00	2,097.79	2,155.89	2,134.10	6.94	9.36	-3.74	-233.32	-126.42	198.52	182.96	15.55	12.766	
2,200.00	2,197.59	2,251.81	2,227.44	7.26	9.71	0.05	-211.31	-127.88	172.86	156.79	16.07	10.758	
2,300.00	2,297.38	2,347.72	2,320.79	7.57	10.06	5.09	-189.30	-129.34	148.16	131.65	16.51	8.972	
2,400.00	2,397.18	2,443.64	2,414.13	7.89	10.43	12.03	-167.29	-130.80	125.00	108.18	16.82	7.432	
2,500.00	2,496.97	2,539.55	2,507.47	8.22	10.80	21.78	-145.28	-132.26	104.40	87.54	16.86	6.192	
2,600.00	2,596.77	2,635.47	2,600.82	8.54	11.18	35.44	-123.27	-133.72	88.17	71.64	16.53	5.335	
2,700.00	2,696.57	2,731.38	2,694.16	8.87	11.56	53.30	-101.26	-135.18	79.05	63.02	16.03	4.931	
2,745.28	2,741.75	2,774.81	2,736.43	9.02	11.74	62.25	-91.30	-135.84	78.00	62.03	15.97	4.884 CC, ES	
2,800.00	2,796.36	2,827.30	2,787.51	9.21	11.96	73.03	-79.26	-136.64	79.52	63.34	16.18	4.915	
2,900.00	2,896.16	2,923.21	2,880.85	9.54	12.35	90.54	-57.25	-138.10	89.44	72.18	17.27	5.180	
3,000.00	2,995.95	3,019.13	2,974.20	9.87	12.75	103.79	-35.24	-139.57	106.19	87.48	18.71	5.676	
3,100.00	3,095.75	3,115.04	3,067.54	10.21	13.16	113.23	-13.23	-141.03	127.10	107.03	20.07	6.332	
3,200.00	3,195.54	3,210.95	3,160.88	10.55	13.57	119.95	8.78	-142.49	150.44	129.17	21.27	7.072	
3,300.00	3,295.34	3,306.87	3,254.23	10.89	13.98	124.85	30.79	-143.95	175.25	152.91	22.34	7.845	
3,400.00	3,395.13	3,402.78	3,347.57	11.23	14.40	128.54	52.80	-145.41	200.98	177.66	23.31	8.621	
3,500.00	3,494.93	3,498.70	3,440.92	11.58	14.82	131.40	74.81	-146.87	227.31	203.09	24.23	9.383	
3,600.00	3,594.72	3,594.61	3,534.26	11.92	15.24	133.66	96.82	-148.33	254.07	228.97	25.10	10.123	
3,700.00	3,694.52	3,690.53	3,627.61	12.26	15.66	135.49	118.83	-149.79	281.13	255.19	25.94	10.837	
3,800.00	3,794.31	3,786.44	3,720.95	12.61	16.09	137.00	140.83	-151.25	308.41	281.64	26.77	11.522	
3,900.00	3,894.11	3,882.36	3,814.29	12.96	16.52	138.27	162.84	-152.71	335.85	308.28	27.58	12.178	
4,000.00	3,993.90	3,978.27	3,907.64	13.30	16.95	139.34	184.85	-154.17	363.43	335.05	28.38	12.806	
4,100.00	4,093.70	4,074.19	4,000.98	13.65	17.38	140.27	206.86	-155.64	391.11	361.93	29.18	13.405	
4,200.00	4,193.49	4,170.10	4,094.33	14.00	17.82	141.07	228.87	-157.10	418.87	388.90	29.97	13.978	
4,300.00	4,293.29	4,266.02	4,187.67	14.35	18.25	141.77	250.88	-158.56	446.69	415.94	30.75	14.525	
4,400.00	4,393.08	4,361.93	4,281.01	14.70	18.69	142.39	272.89	-160.02	474.57	443.04	31.54	15.049	
4,500.00	4,492.88	4,457.85	4,374.36	15.05	19.13	142.94	294.90	-161.48	502.50	470.18	32.32	15.549	
4,600.00	4,592.68	4,553.76	4,467.70	15.40	19.57	143.44	316.91	-162.94	530.47	497.37	33.10	16.027	
4,700.00	4,692.47	4,649.68	4,561.05	15.75	20.01	143.88	338.92	-164.40	558.46	524.59	33.88	16.485	
4,800.00	4,792.27	4,745.59	4,654.39	16.10	20.45	144.28	360.92	-165.86	586.49	551.83	34.66	16.923	
4,900.00	4,892.06	4,841.51	4,747.74	16.45	20.90	144.65	382.93	-167.32	614.54	579.11	35.44	17.343	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,937.42	4,841.08	16.81	21.34	144.98	404.94	-168.78	642.61	606.40	36.21	17.745	
5,100.00	5,091.85	5,033.34	4,934.42	17.16	21.79	145.29	426.95	-170.24	670.70	633.71	36.99	18.131	
5,200.00	5,191.45	5,129.25	5,027.77	17.51	22.23	145.57	448.96	-171.71	698.81	661.04	37.77	18.502	
5,300.00	5,291.24	5,225.17	5,121.11	17.87	22.68	145.83	470.97	-173.17	726.93	688.38	38.55	18.858	
5,400.00	5,391.04	5,321.08	5,214.46	18.22	23.13	146.07	492.98	-174.63	755.06	715.73	39.33	19.200	
5,500.00	5,490.83	5,417.00	5,307.80	18.57	23.58	146.29	514.99	-176.09	783.20	743.10	40.11	19.528	
5,600.00	5,590.63	5,512.91	5,401.15	18.93	24.02	146.50	537.00	-177.55	811.36	770.47	40.88	19.845	
5,700.00	5,690.42	5,608.83	5,494.49	19.28	24.47	146.69	559.01	-179.01	839.52	797.86	41.66	20.150	
5,800.00	5,790.22	5,704.74	5,587.83	19.64	24.93	146.87	581.01	-180.47	867.69	825.25	42.44	20.443	
5,900.00	5,890.01	5,800.66	5,681.18	19.99	25.38	147.04	603.02	-181.93	895.87	852.65	43.22	20.726	
6,000.00	5,989.81	5,896.57	5,774.52	20.35	25.83	147.20	625.03	-183.39	924.06	880.05	44.00	20.999	
6,100.00	6,089.60	5,992.49	5,867.87	20.70	26.28	147.35	647.04	-184.85	952.25	907.46	44.79	21.262	
6,200.00	6,189.40	6,088.40	5,961.21	21.06	26.73	147.49	669.05	-186.31	980.45	934.88	45.57	21.517	
6,300.00	6,289.19	6,184.32	6,054.56	21.41	27.19	147.62	691.06	-187.78	1,008.65	962.30	46.35	21.762	
6,400.00	6,388.99	6,280.23	6,147.90	21.77	27.64	147.75	713.07	-189.24	1,036.86	989.73	47.13	22.000	
6,498.43	6,487.22	6,374.64	6,239.78	22.12	28.09	147.87	734.73	-190.67	1,064.63	1,016.73	47.90	22.226	
6,500.00	6,488.79	6,376.15	6,241.24	22.12	28.10	145.75	735.08	-190.70	1,065.07	1,017.16	47.91	22.230	
6,550.00	6,538.54	6,424.01	6,287.83	22.32	28.32	111.01	746.06	-191.43	1,079.08	1,030.75	48.32	22.331	
6,600.00	6,587.76	6,471.46	6,334.00	22.59	28.55	100.43	756.95	-192.15	1,092.86	1,044.08	48.78	22.406	
6,650.00	6,636.08	6,518.12	6,379.41	22.84	28.77	95.44	767.65	-192.86	1,106.40	1,057.23	49.18	22.499	
6,700.00	6,683.13	6,563.64	6,423.71	23.07	28.98	92.54	778.10	-193.55	1,119.73	1,070.15	49.58	22.585	
6,750.00	6,728.55	6,607.67	6,466.56	23.29	29.19	90.66	788.20	-194.22	1,132.91	1,082.91	49.99	22.661	
6,800.00	6,771.99	6,649.89	6,507.64	23.51	29.39	89.38	797.89	-194.87	1,146.03	1,095.61	50.42	22.728	
6,850.00	6,813.13	6,689.96	6,546.64	23.72	29.59	88.46	807.09	-195.48	1,159.23	1,108.36	50.87	22.788	
6,900.00	6,851.64	6,727.58	6,583.26	23.94	29.76	87.75	815.72	-196.05	1,172.62	1,121.29	51.33	22.845	
6,950.00	6,887.25	6,762.48	6,617.22	24.16	29.93	87.14	823.73	-196.58	1,186.35	1,134.55	51.80	22.902	
7,000.00	6,919.67	6,794.37	6,648.26	24.38	30.08	86.55	831.04	-197.07	1,200.56	1,148.28	52.29	22.962	
7,050.00	6,948.65	6,823.02	6,676.14	24.62	30.22	85.91	837.62	-197.50	1,215.37	1,162.60	52.78	23.029	
7,100.00	6,973.99	6,848.21	6,700.66	24.88	30.33	85.16	843.40	-197.89	1,230.87	1,177.61	53.27	23.107	
7,150.00	6,995.49	6,894.21	6,745.34	25.18	30.55	85.29	853.97	-200.38	1,246.95	1,192.94	54.01	23.087	
7,200.00	7,012.97	6,949.87	6,798.91	25.51	30.83	85.80	866.74	-208.30	1,263.28	1,208.37	54.91	23.007	
7,250.00	7,026.32	7,021.27	6,866.06	25.89	31.19	86.91	882.91	-226.21	1,279.66	1,223.72	55.94	22.877	
7,300.00	7,035.43	7,086.26	6,924.67	26.33	31.47	87.68	897.19	-250.25	1,295.59	1,238.73	56.85	22.788	
7,350.00	7,040.22	7,288.72	7,085.45	26.84	32.23	92.98	937.32	-364.58	1,310.00	1,251.68	58.32	22.464	
7,377.14	7,041.00	7,429.37	7,169.25	27.14	32.92	95.89	959.25	-474.95	1,316.15	1,257.09	59.06	22.285	
7,400.00	7,041.12	7,587.26	7,228.93	27.41	34.20	98.38	976.18	-619.60	1,319.52	1,259.68	59.84	22.049	
7,500.00	7,041.64	7,816.12	7,248.42	28.77	37.05	99.14	985.29	-846.60	1,320.54	1,257.51	63.03	20.950	
7,600.00	7,042.16	7,916.12	7,248.94	30.39	38.55	99.14	987.40	-946.58	1,320.65	1,254.45	66.20	19.949	
7,700.00	7,042.67	8,016.12	7,249.46	32.22	40.16	99.14	989.52	-1,046.55	1,320.76	1,251.13	69.64	18.966	
7,800.00	7,043.19	8,116.12	7,249.98	34.20	41.88	99.14	991.63	-1,146.53	1,320.88	1,247.57	73.31	18.018	
7,900.00	7,043.71	8,216.12	7,250.50	36.31	43.70	99.14	993.74	-1,246.50	1,320.99	1,243.81	77.18	17.116	
8,000.00	7,044.23	8,316.12	7,251.02	38.52	45.59	99.14	995.85	-1,346.48	1,321.11	1,239.89	81.22	16.266	
8,100.00	7,044.75	8,416.12	7,251.53	40.80	47.56	99.14	997.96	-1,446.46	1,321.22	1,235.81	85.41	15.469	
8,200.00	7,045.26	8,516.12	7,252.05	43.15	49.59	99.14	1,000.08	-1,546.43	1,321.33	1,231.61	89.73	14.726	
8,300.00	7,045.78	8,616.12	7,252.57	45.54	51.68	99.14	1,002.19	-1,646.41	1,321.45	1,227.29	94.15	14.035	
8,400.00	7,046.30	8,716.12	7,253.09	47.97	53.82	99.13	1,004.30	-1,746.39	1,321.56	1,222.88	98.68	13.393	
8,500.00	7,046.82	8,816.12	7,253.61	50.44	56.01	99.13	1,006.41	-1,846.36	1,321.67	1,218.39	103.28	12.796	
8,600.00	7,047.34	8,916.12	7,254.13	52.94	58.24	99.13	1,008.52	-1,946.34	1,321.79	1,213.82	107.97	12.243	
8,700.00	7,047.86	9,016.12	7,254.65	55.46	60.51	99.13	1,010.63	-2,046.31	1,321.90	1,209.19	112.71	11.728	
8,800.00	7,048.37	9,116.12	7,255.16	58.00	62.81	99.13	1,012.75	-2,146.29	1,322.02	1,204.50	117.51	11.250	
8,900.00	7,048.89	9,216.12	7,255.68	60.56	65.14	99.13	1,014.86	-2,246.27	1,322.13	1,199.76	122.37	10.805	
9,000.00	7,049.41	9,316.12	7,256.20	63.13	67.51	99.13	1,016.97	-2,346.24	1,322.24	1,194.98	127.26	10.390	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,416.12	7,256.72	65.72	69.89	99.13	1,019.08	-2,446.22	1,322.36	1,190.16	132.20	10.003	
9,200.00	7,050.45	9,516.12	7,257.24	68.32	72.30	99.13	1,021.19	-2,546.20	1,322.47	1,185.30	137.17	9.641	
9,300.00	7,050.97	9,616.12	7,257.76	70.93	74.73	99.13	1,023.30	-2,646.17	1,322.58	1,180.41	142.18	9.302	
9,400.00	7,051.48	9,716.12	7,258.28	73.55	77.19	99.13	1,025.42	-2,746.15	1,322.70	1,175.49	147.21	8.985	
9,500.00	7,052.00	9,816.12	7,258.79	76.18	79.65	99.13	1,027.53	-2,846.12	1,322.81	1,170.54	152.27	8.687	
9,600.00	7,052.52	9,916.12	7,259.31	78.81	82.14	99.13	1,029.64	-2,946.10	1,322.93	1,165.58	157.35	8.408	
9,700.00	7,053.04	10,016.12	7,259.83	81.46	84.64	99.12	1,031.75	-3,046.08	1,323.04	1,160.59	162.45	8.144	
9,800.00	7,053.56	10,116.12	7,260.35	84.10	87.15	99.12	1,033.86	-3,146.05	1,323.15	1,155.58	167.57	7.896	
9,900.00	7,054.08	10,216.12	7,260.87	86.76	89.68	99.12	1,035.97	-3,246.03	1,323.27	1,150.55	172.71	7.662	
10,000.00	7,054.59	10,316.12	7,261.39	89.42	92.21	99.12	1,038.09	-3,346.01	1,323.38	1,145.51	177.87	7.440	
10,100.00	7,055.11	10,416.12	7,261.91	92.08	94.76	99.12	1,040.20	-3,445.98	1,323.49	1,140.45	183.04	7.231	
10,200.00	7,055.63	10,516.12	7,262.42	94.75	97.32	99.12	1,042.31	-3,545.96	1,323.61	1,135.38	188.22	7.032	
10,300.00	7,056.15	10,616.12	7,262.94	97.42	99.89	99.12	1,044.42	-3,645.94	1,323.72	1,130.30	193.42	6.844	
10,400.00	7,056.67	10,716.12	7,263.46	100.10	102.46	99.12	1,046.53	-3,745.91	1,323.84	1,125.21	198.63	6.665	
10,500.00	7,057.18	10,816.12	7,263.98	102.78	105.04	99.12	1,048.65	-3,845.89	1,323.95	1,120.10	203.85	6.495	
10,600.00	7,057.70	10,916.12	7,264.50	105.46	107.63	99.12	1,050.76	-3,945.86	1,324.06	1,114.99	209.07	6.333	
10,700.00	7,058.22	11,016.12	7,265.02	108.14	110.23	99.12	1,052.87	-4,045.84	1,324.18	1,109.87	214.31	6.179	
10,800.00	7,058.74	11,116.12	7,265.54	110.83	112.83	99.12	1,054.98	-4,145.82	1,324.29	1,104.73	219.56	6.032	
10,900.00	7,059.26	11,216.12	7,266.05	113.52	115.44	99.12	1,057.09	-4,245.79	1,324.40	1,099.59	224.81	5.891	
11,000.00	7,059.78	11,316.12	7,266.57	116.21	118.06	99.11	1,059.20	-4,345.77	1,324.52	1,094.45	230.07	5.757	
11,100.00	7,060.29	11,416.12	7,267.09	118.90	120.68	99.11	1,061.32	-4,445.75	1,324.63	1,089.29	235.34	5.629	
11,200.00	7,060.81	11,516.12	7,267.61	121.60	123.31	99.11	1,063.43	-4,545.72	1,324.75	1,084.13	240.61	5.506	
11,300.00	7,061.33	11,616.12	7,268.13	124.30	125.94	99.11	1,065.54	-4,645.70	1,324.86	1,078.97	245.89	5.388	
11,400.00	7,061.85	11,716.12	7,268.65	127.00	128.57	99.11	1,067.65	-4,745.67	1,324.97	1,073.80	251.18	5.275	
11,500.00	7,062.37	11,816.12	7,269.17	129.70	131.21	99.11	1,069.76	-4,845.65	1,325.09	1,068.62	256.47	5.167	
11,600.00	7,062.89	11,916.12	7,269.69	132.40	133.85	99.11	1,071.87	-4,945.63	1,325.20	1,063.44	261.76	5.063	
11,700.00	7,063.40	12,016.12	7,270.20	135.10	136.50	99.11	1,073.99	-5,045.60	1,325.31	1,058.25	267.06	4.963	
11,800.00	7,063.92	12,116.12	7,270.72	137.81	139.15	99.11	1,076.10	-5,145.58	1,325.43	1,053.06	272.37	4.866	
11,900.00	7,064.44	12,216.12	7,271.24	140.51	141.80	99.11	1,078.21	-5,245.56	1,325.54	1,047.86	277.68	4.774	
12,000.00	7,064.96	12,316.12	7,271.76	143.22	144.46	99.11	1,080.32	-5,345.53	1,325.66	1,042.67	282.99	4.684	
12,100.00	7,065.48	12,416.12	7,272.28	145.93	147.11	99.11	1,082.43	-5,445.51	1,325.77	1,037.46	288.31	4.598	
12,200.00	7,066.00	12,516.12	7,272.80	148.64	149.78	99.10	1,084.55	-5,545.48	1,325.88	1,032.26	293.63	4.516	
12,300.00	7,066.51	12,616.12	7,273.31	151.35	152.44	99.10	1,086.66	-5,645.46	1,326.00	1,027.05	298.95	4.436	
12,400.00	7,067.03	12,716.12	7,273.83	154.06	155.11	99.10	1,088.77	-5,745.44	1,326.11	1,021.84	304.28	4.358	
12,500.00	7,067.55	12,816.12	7,274.35	156.77	157.78	99.10	1,090.88	-5,845.41	1,326.22	1,016.62	309.60	4.284	
12,600.00	7,068.07	12,916.12	7,274.87	159.49	160.45	99.10	1,092.99	-5,945.39	1,326.34	1,011.40	314.94	4.211	
12,700.00	7,068.59	13,016.12	7,275.39	162.20	163.12	99.10	1,095.10	-6,045.37	1,326.45	1,006.18	320.27	4.142	
12,800.00	7,069.11	13,116.12	7,275.91	164.92	165.80	99.10	1,097.22	-6,145.34	1,326.57	1,000.96	325.61	4.074	
12,900.00	7,069.62	13,216.12	7,276.43	167.63	168.47	99.10	1,099.33	-6,245.32	1,326.68	995.73	330.95	4.009	
13,000.00	7,070.14	13,316.12	7,276.95	170.35	171.15	99.10	1,101.44	-6,345.30	1,326.79	990.50	336.29	3.945	
13,100.00	7,070.66	13,416.12	7,277.46	173.07	173.84	99.10	1,103.55	-6,445.27	1,326.91	985.27	341.63	3.884	
13,200.00	7,071.18	13,516.12	7,277.98	175.78	176.52	99.10	1,105.66	-6,545.25	1,327.02	980.04	346.98	3.824	
13,300.00	7,071.70	13,616.12	7,278.50	178.50	179.20	99.10	1,107.77	-6,645.22	1,327.13	974.81	352.33	3.767	
13,400.00	7,072.21	13,716.12	7,279.02	181.22	181.89	99.10	1,109.89	-6,745.20	1,327.25	969.57	357.68	3.711	
13,500.00	7,072.73	13,816.12	7,279.54	183.94	184.58	99.09	1,112.00	-6,845.18	1,327.36	964.33	363.03	3.656	
13,600.00	7,073.25	13,916.12	7,280.06	186.66	187.27	99.09	1,114.11	-6,945.15	1,327.48	959.09	368.38	3.604	
13,700.00	7,073.77	14,016.12	7,280.58	189.38	189.96	99.09	1,116.22	-7,045.13	1,327.59	953.85	373.74	3.552	
13,800.00	7,074.29	14,116.12	7,281.09	192.10	192.65	99.09	1,118.33	-7,145.11	1,327.70	948.61	379.10	3.502	
13,900.00	7,074.81	14,216.12	7,281.61	194.82	195.34	99.09	1,120.44	-7,245.08	1,327.82	943.36	384.46	3.454	
14,000.00	7,075.32	14,316.11	7,282.13	197.54	198.03	99.09	1,122.56	-7,345.06	1,327.93	938.12	389.82	3.407	
14,100.00	7,075.84	14,416.11	7,282.65	200.27	200.73	99.09	1,124.67	-7,445.03	1,328.04	932.87	395.18	3.361	
14,200.00	7,076.36	14,516.11	7,283.17	202.99	203.43	99.09	1,126.78	-7,545.01	1,328.16	927.62	400.54	3.316	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	14,616.11	7,283.69	205.71	206.12	99.09	1,128.89	-7,644.99	1,328.27	922.37	405.90	3.272	
14,400.00	7,077.40	14,716.11	7,284.21	208.44	208.82	99.09	1,131.00	-7,744.96	1,328.39	917.12	411.27	3.230	
14,500.00	7,077.92	14,816.11	7,284.72	211.16	211.52	99.09	1,133.12	-7,844.94	1,328.50	911.86	416.64	3.189	
14,600.00	7,078.43	14,916.11	7,285.24	213.88	214.22	99.09	1,135.23	-7,944.92	1,328.61	906.61	422.00	3.148	
14,700.00	7,078.95	15,016.11	7,285.76	216.61	216.92	99.09	1,137.34	-8,044.89	1,328.73	901.35	427.37	3.109	
14,800.00	7,079.47	15,116.11	7,286.28	219.33	219.63	99.08	1,139.45	-8,144.87	1,328.84	896.10	432.74	3.071	
14,900.00	7,079.99	15,216.11	7,286.80	222.06	222.33	99.08	1,141.56	-8,244.84	1,328.95	890.84	438.11	3.033	
15,000.00	7,080.51	15,316.11	7,287.32	224.78	225.03	99.08	1,143.67	-8,344.82	1,329.07	885.58	443.48	2.997	
15,100.00	7,081.03	15,416.11	7,287.84	227.51	227.74	99.08	1,145.79	-8,444.80	1,329.18	880.32	448.86	2.961	
15,200.00	7,081.54	15,516.11	7,288.35	230.24	230.44	99.08	1,147.90	-8,544.77	1,329.30	875.06	454.23	2.926	
15,300.00	7,082.06	15,616.11	7,288.87	232.96	233.15	99.08	1,150.01	-8,644.75	1,329.41	869.80	459.61	2.892	
15,400.00	7,082.58	15,716.11	7,289.39	235.69	235.86	99.08	1,152.12	-8,744.73	1,329.52	864.54	464.98	2.859	
15,500.00	7,083.10	15,816.11	7,289.91	238.41	238.56	99.08	1,154.23	-8,844.70	1,329.64	859.28	470.36	2.827	
15,600.00	7,083.62	15,916.11	7,290.43	241.14	241.27	99.08	1,156.34	-8,944.68	1,329.75	854.01	475.74	2.795	
15,700.00	7,084.13	16,016.11	7,290.95	243.87	243.98	99.08	1,158.46	-9,044.65	1,329.86	848.75	481.11	2.764	
15,800.00	7,084.65	16,116.11	7,291.47	246.60	246.69	99.08	1,160.57	-9,144.63	1,329.98	843.48	486.49	2.734	
15,900.00	7,085.17	16,216.11	7,291.98	249.32	249.40	99.08	1,162.68	-9,244.61	1,330.09	838.22	491.87	2.704	
16,000.00	7,085.69	16,316.11	7,292.50	252.05	252.11	99.08	1,164.79	-9,344.58	1,330.21	832.95	497.25	2.675	
16,100.00	7,086.21	16,416.11	7,293.02	254.78	254.82	99.07	1,166.90	-9,444.56	1,330.32	827.69	502.63	2.647	
16,200.00	7,086.73	16,516.11	7,293.54	257.51	257.54	99.07	1,169.02	-9,544.54	1,330.43	822.42	508.02	2.619	
16,300.00	7,087.24	16,616.11	7,294.06	260.24	260.25	99.07	1,171.13	-9,644.51	1,330.55	817.15	513.40	2.592	
16,400.00	7,087.76	16,716.11	7,294.58	262.97	262.96	99.07	1,173.24	-9,744.49	1,330.66	811.88	518.78	2.565	
16,500.00	7,088.28	16,816.11	7,295.10	265.69	265.67	99.07	1,175.35	-9,844.47	1,330.77	806.61	524.17	2.539	
16,600.00	7,088.80	16,916.11	7,295.61	268.42	268.39	99.07	1,177.46	-9,944.44	1,330.89	801.34	529.55	2.513	
16,700.00	7,089.32	17,016.11	7,296.13	271.15	271.10	99.07	1,179.57	-10,044.42	1,331.00	796.07	534.93	2.488	
16,800.00	7,089.84	17,116.11	7,296.65	273.88	273.82	99.07	1,181.69	-10,144.39	1,331.12	790.80	540.32	2.464	
16,900.00	7,090.35	17,216.11	7,297.17	276.61	276.53	99.07	1,183.80	-10,244.37	1,331.23	785.52	545.71	2.439	
17,000.00	7,090.87	17,316.11	7,297.69	279.34	279.25	99.07	1,185.91	-10,344.35	1,331.34	780.25	551.09	2.416	
17,024.65	7,091.00	17,340.76	7,297.82	280.01	279.92	99.07	1,186.43	-10,368.99	1,331.37	778.95	552.42	2.410 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	3.41	40.10	2.39	40.17				
100.00	100.00	100.00	100.00	0.48	0.48	3.41	40.10	2.39	40.17	39.21	0.97	41.620	
200.00	200.00	200.00	200.00	1.28	1.28	3.41	40.10	2.39	40.17	37.61	2.56	15.663	
300.00	300.00	300.00	300.00	1.77	1.77	3.41	40.10	2.39	40.17	36.63	3.54	11.357	
400.00	400.00	400.00	400.00	2.15	2.15	3.41	40.10	2.39	40.17	35.87	4.30	9.340	
500.00	500.00	500.00	500.00	2.48	2.48	3.41	40.10	2.39	40.17	35.22	4.95	8.109	
600.00	600.00	600.00	600.00	2.77	2.77	3.41	40.10	2.39	40.17	34.64	5.53	7.258	
700.00	700.00	700.00	700.00	3.03	3.03	3.41	40.10	2.39	40.17	34.11	6.06	6.624	
800.00	800.00	800.00	800.00	3.28	3.28	3.41	40.10	2.39	40.17	33.61	6.56	6.127 CC, ES	
900.00	900.00	898.63	898.61	3.51	3.75	2.80	41.76	2.04	41.83	34.59	7.24	5.775	
1,000.00	999.98	996.91	996.76	3.78	4.55	151.03	46.72	1.00	48.36	40.12	8.24	5.868	
1,083.35	1,083.22	1,078.15	1,077.72	4.28	5.14	151.23	53.30	-0.39	58.64	49.43	9.22	6.363	
1,100.00	1,099.84	1,094.28	1,093.77	4.29	5.26	151.33	54.88	-0.72	61.18	51.84	9.34	6.551	
1,200.00	1,199.64	1,190.55	1,189.34	4.47	5.90	151.39	66.11	-3.08	78.29	68.17	10.12	7.738	
1,300.00	1,299.43	1,285.62	1,283.30	4.70	6.57	150.95	80.28	-6.05	98.58	87.62	10.96	8.992	
1,400.00	1,399.23	1,382.25	1,378.42	4.95	7.00	150.39	96.90	-9.54	121.12	109.51	11.61	10.432	
1,500.00	1,499.02	1,479.64	1,474.29	5.20	7.27	149.99	113.75	-13.08	143.77	131.65	12.12	11.864	
1,600.00	1,598.82	1,577.04	1,570.15	5.47	7.53	149.70	130.59	-16.62	166.41	153.78	12.63	13.176	
1,700.00	1,698.61	1,674.44	1,666.02	5.75	7.81	149.48	147.43	-20.16	189.07	175.90	13.17	14.361	
1,800.00	1,798.41	1,771.84	1,761.88	6.04	8.11	149.31	164.28	-23.70	211.72	198.00	13.72	15.430	
1,900.00	1,898.20	1,869.24	1,857.75	6.34	8.42	149.17	181.12	-27.24	234.38	220.08	14.29	16.396	
2,000.00	1,998.00	1,966.64	1,953.61	6.64	8.74	149.05	197.97	-30.77	257.03	242.15	14.88	17.268	
2,100.00	2,097.79	2,064.03	2,049.48	6.94	9.07	148.96	214.81	-34.31	279.69	264.20	15.49	18.058	
2,200.00	2,197.59	2,161.43	2,145.34	7.26	9.41	148.87	231.65	-37.85	302.35	286.24	16.11	18.773	
2,300.00	2,297.38	2,258.83	2,241.21	7.57	9.76	148.80	248.50	-41.39	325.01	308.27	16.73	19.422	
2,400.00	2,397.18	2,356.23	2,337.07	7.89	10.12	148.74	265.34	-44.93	347.67	330.30	17.37	20.013	
2,500.00	2,496.97	2,453.63	2,432.94	8.22	10.49	148.69	282.19	-48.47	370.33	352.31	18.02	20.551	
2,600.00	2,596.77	2,551.03	2,528.81	8.54	10.86	148.64	299.03	-52.00	392.99	374.31	18.68	21.043	
2,700.00	2,696.57	2,648.42	2,624.67	8.87	11.23	148.60	315.87	-55.54	415.65	396.31	19.34	21.493	
2,800.00	2,796.36	2,745.82	2,720.54	9.21	11.61	148.56	332.72	-59.08	438.31	418.30	20.01	21.906	
2,900.00	2,896.16	2,843.22	2,816.40	9.54	12.00	148.53	349.56	-62.62	460.97	440.28	20.68	22.286	
3,000.00	2,995.95	2,940.62	2,912.27	9.87	12.39	148.50	366.41	-66.16	483.63	462.26	21.37	22.636	
3,100.00	3,095.75	3,038.02	3,008.13	10.21	12.78	148.47	383.25	-69.70	506.29	484.24	22.05	22.959	
3,200.00	3,195.54	3,135.42	3,104.00	10.55	13.18	148.44	400.09	-73.23	528.95	506.21	22.74	23.259	
3,300.00	3,295.34	3,232.81	3,199.86	10.89	13.58	148.42	416.94	-76.77	551.61	528.17	23.44	23.536	
3,400.00	3,395.13	3,330.21	3,295.73	11.23	13.98	148.40	433.78	-80.31	574.27	550.14	24.14	23.794	
3,500.00	3,494.93	3,427.61	3,391.60	11.58	14.38	148.38	450.62	-83.85	596.93	572.10	24.84	24.034	
3,600.00	3,594.72	3,525.01	3,487.46	11.92	14.79	148.36	467.47	-87.39	619.59	594.05	25.54	24.258	
3,700.00	3,694.52	3,622.41	3,583.33	12.26	15.20	148.34	484.31	-90.93	642.26	616.01	26.25	24.467	
3,800.00	3,794.31	3,719.81	3,679.19	12.61	15.61	148.32	501.16	-94.46	664.92	637.96	26.96	24.662	
3,900.00	3,894.11	3,817.20	3,775.06	12.96	16.03	148.31	518.00	-98.00	687.58	659.90	27.67	24.846	
4,000.00	3,993.90	3,914.60	3,870.92	13.30	16.44	148.29	534.84	-101.54	710.24	681.85	28.39	25.018	
4,100.00	4,093.70	4,012.00	3,966.79	13.65	16.86	148.28	551.69	-105.08	732.90	703.79	29.11	25.180	
4,200.00	4,193.49	4,109.40	4,062.65	14.00	17.28	148.27	568.53	-108.62	755.56	725.74	29.83	25.332	
4,300.00	4,293.29	4,206.80	4,158.52	14.35	17.70	148.26	585.38	-112.16	778.22	747.68	30.55	25.475	
4,400.00	4,393.08	4,304.20	4,254.39	14.70	18.12	148.25	602.22	-115.69	800.89	769.61	31.27	25.611	
4,500.00	4,492.88	4,401.59	4,350.25	15.05	18.54	148.23	619.06	-119.23	823.55	791.55	32.00	25.739	
4,600.00	4,592.68	4,498.99	4,446.12	15.40	18.96	148.22	635.91	-122.77	846.21	813.49	32.72	25.860	
4,700.00	4,692.47	4,596.39	4,541.98	15.75	19.39	148.22	652.75	-126.31	868.87	835.42	33.45	25.975	
4,800.00	4,792.27	4,693.79	4,637.85	16.10	19.81	148.21	669.60	-129.85	891.53	857.35	34.18	26.084	
4,900.00	4,892.06	4,791.19	4,733.71	16.45	20.24	148.20	686.44	-133.39	914.19	879.28	34.91	26.188	
5,000.00	4,991.86	4,888.59	4,829.58	16.81	20.67	148.19	703.28	-136.92	936.86	901.21	35.64	26.286	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,985.98	4,925.44	17.16	21.09	148.18	720.13	-140.46	959.52	923.14	36.37	26.380	
5,200.00	5,191.45	5,083.38	5,021.31	17.51	21.52	148.17	736.97	-144.00	982.18	945.07	37.11	26.469	
5,300.00	5,291.24	5,180.78	5,117.17	17.87	21.95	148.17	753.81	-147.54	1,004.84	967.00	37.84	26.554	
5,400.00	5,391.04	5,278.18	5,213.04	18.22	22.38	148.16	770.66	-151.08	1,027.50	988.92	38.58	26.635	
5,500.00	5,490.83	5,375.58	5,308.91	18.57	22.81	148.15	787.50	-154.62	1,050.16	1,010.85	39.31	26.712	
5,600.00	5,590.63	5,472.98	5,404.77	18.93	23.24	148.15	804.35	-158.15	1,072.83	1,032.77	40.05	26.787	
5,700.00	5,690.42	5,570.37	5,500.64	19.28	23.68	148.14	821.19	-161.69	1,095.49	1,054.70	40.79	26.857	
5,800.00	5,790.22	5,667.77	5,596.50	19.64	24.11	148.14	838.03	-165.23	1,118.15	1,076.62	41.53	26.925	
5,900.00	5,890.01	5,765.17	5,692.37	19.99	24.54	148.13	854.88	-168.77	1,140.81	1,098.54	42.27	26.990	
6,000.00	5,989.81	5,862.57	5,788.23	20.35	24.98	148.13	871.72	-172.31	1,163.47	1,120.46	43.01	27.053	
6,100.00	6,089.60	5,959.97	5,884.10	20.70	25.41	148.12	888.57	-175.85	1,186.13	1,142.39	43.75	27.112	
6,200.00	6,189.40	6,057.37	5,979.96	21.06	25.84	148.12	905.41	-179.38	1,208.80	1,164.31	44.49	27.170	
6,300.00	6,289.19	6,154.76	6,075.83	21.41	26.28	148.11	922.25	-182.92	1,231.46	1,186.23	45.23	27.225	
6,400.00	6,388.99	6,252.16	6,171.70	21.77	26.71	148.11	939.10	-186.46	1,254.12	1,208.14	45.98	27.278	
6,498.43	6,487.22	6,348.03	6,266.06	22.12	27.14	148.10	955.68	-189.94	1,276.43	1,229.72	46.71	27.329	
6,500.00	6,488.79	6,349.56	6,267.56	22.12	27.15	145.99	955.94	-190.00	1,276.78	1,230.06	46.72	27.330	
6,550.00	6,538.54	6,398.21	6,315.45	22.32	27.37	111.48	964.36	-191.77	1,288.02	1,240.92	47.10	27.344	
6,600.00	6,587.76	6,446.52	6,362.99	22.59	27.58	101.08	972.71	-193.52	1,299.05	1,251.53	47.52	27.335	
6,650.00	6,636.08	6,494.12	6,409.84	22.84	27.80	96.25	980.94	-195.25	1,309.86	1,261.98	47.88	27.357	
6,700.00	6,683.13	6,540.64	6,455.63	23.07	28.01	93.47	988.99	-196.94	1,320.46	1,272.23	48.23	27.378	
6,750.00	6,728.55	6,585.73	6,500.02	23.29	28.21	91.72	996.78	-198.58	1,330.91	1,282.32	48.59	27.392	
6,800.00	6,771.99	6,632.11	6,545.56	23.51	28.41	90.56	1,004.82	-201.82	1,341.25	1,292.28	48.98	27.386	
6,850.00	6,813.13	6,680.53	6,592.67	23.72	28.66	89.73	1,013.21	-209.16	1,351.42	1,301.99	49.43	27.342	
6,900.00	6,851.64	6,731.15	6,641.06	23.94	28.91	89.15	1,021.92	-221.12	1,361.34	1,311.42	49.92	27.271	
6,950.00	6,887.25	6,784.29	6,690.51	24.16	29.16	88.75	1,030.92	-238.30	1,370.92	1,320.49	50.43	27.185	
7,000.00	6,919.67	6,840.29	6,740.69	24.38	29.40	88.52	1,040.16	-261.35	1,380.08	1,329.10	50.97	27.075	
7,050.00	6,948.65	6,899.55	6,791.07	24.62	29.63	88.42	1,049.58	-291.04	1,388.71	1,337.14	51.57	26.928	
7,100.00	6,973.99	6,962.45	6,840.91	24.88	29.86	88.45	1,059.05	-328.16	1,396.70	1,344.45	52.25	26.731	
7,150.00	6,995.49	7,029.33	6,889.16	25.18	30.12	88.58	1,068.41	-373.47	1,403.94	1,350.90	53.04	26.471	
7,200.00	7,012.97	7,100.49	6,934.39	25.51	30.43	88.80	1,077.41	-427.60	1,410.27	1,356.32	53.95	26.140	
7,250.00	7,026.32	7,176.06	6,974.77	25.89	30.83	89.10	1,085.76	-490.86	1,415.55	1,360.52	55.04	25.721	
7,300.00	7,035.43	7,255.94	7,008.13	26.33	31.37	89.44	1,093.05	-563.00	1,419.64	1,363.35	56.29	25.221	
7,350.00	7,040.22	7,339.74	7,032.13	26.84	32.13	89.80	1,098.87	-643.00	1,422.39	1,364.63	57.76	24.627	
7,377.14	7,041.00	7,386.60	7,040.45	27.14	32.62	89.99	1,101.26	-689.04	1,423.28	1,364.65	58.63	24.274	
7,400.00	7,041.12	7,426.74	7,044.61	27.41	33.09	90.14	1,102.79	-728.93	1,423.71	1,364.30	59.41	23.965	
7,500.00	7,041.64	7,542.99	7,046.41	28.77	34.65	90.19	1,105.46	-845.11	1,423.94	1,361.33	62.61	22.743	
7,600.00	7,042.16	7,642.99	7,046.93	30.39	36.18	90.19	1,107.57	-945.09	1,424.06	1,358.08	65.97	21.585	
7,700.00	7,042.67	7,742.99	7,047.45	32.22	37.87	90.19	1,109.68	-1,045.06	1,424.17	1,354.57	69.61	20.461	
7,800.00	7,043.19	7,842.99	7,047.97	34.20	39.68	90.19	1,111.79	-1,145.04	1,424.29	1,350.83	73.46	19.388	
7,900.00	7,043.71	7,942.99	7,048.48	36.31	41.59	90.19	1,113.91	-1,245.02	1,424.41	1,346.89	77.51	18.377	
8,000.00	7,044.23	8,042.99	7,049.00	38.52	43.59	90.19	1,116.02	-1,344.99	1,424.52	1,342.80	81.72	17.431	
8,100.00	7,044.75	8,142.99	7,049.52	40.80	45.66	90.19	1,118.13	-1,444.97	1,424.64	1,338.56	86.08	16.551	
8,200.00	7,045.26	8,242.99	7,050.04	43.15	47.80	90.19	1,120.24	-1,544.95	1,424.75	1,334.20	90.55	15.735	
8,300.00	7,045.78	8,342.99	7,050.56	45.54	49.99	90.19	1,122.36	-1,644.92	1,424.87	1,329.74	95.13	14.979	
8,400.00	7,046.30	8,442.98	7,051.08	47.97	52.24	90.19	1,124.47	-1,744.90	1,424.99	1,325.20	99.79	14.280	
8,500.00	7,046.82	8,542.98	7,051.60	50.44	54.52	90.19	1,126.58	-1,844.87	1,425.10	1,320.57	104.53	13.633	
8,600.00	7,047.34	8,642.98	7,052.12	52.94	56.85	90.19	1,128.69	-1,944.85	1,425.22	1,315.87	109.34	13.034	
8,700.00	7,047.86	8,742.98	7,052.63	55.46	59.20	90.19	1,130.81	-2,044.83	1,425.33	1,311.12	114.21	12.479	
8,800.00	7,048.37	8,842.98	7,053.15	58.00	61.59	90.19	1,132.92	-2,144.80	1,425.45	1,306.31	119.14	11.965	
8,900.00	7,048.89	8,942.98	7,053.67	60.56	64.00	90.19	1,135.03	-2,244.78	1,425.57	1,301.46	124.10	11.487	
9,000.00	7,049.41	9,042.98	7,054.19	63.13	66.44	90.19	1,137.15	-2,344.76	1,425.68	1,296.57	129.11	11.042	
9,100.00	7,049.93	9,142.98	7,054.71	65.72	68.90	90.19	1,139.26	-2,444.73	1,425.80	1,291.64	134.16	10.628	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HNB-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,200.00	7,050.45	9,242.98	7,055.23	68.32	71.37	90.19	1,141.37	-2,544.71	1,425.91	1,286.68	139.23	10.241	
9,300.00	7,050.97	9,342.98	7,055.75	70.93	73.87	90.19	1,143.48	-2,644.68	1,426.03	1,281.69	144.34	9.880	
9,400.00	7,051.48	9,442.98	7,056.27	73.55	76.38	90.19	1,145.60	-2,744.66	1,426.15	1,276.68	149.47	9.541	
9,500.00	7,052.00	9,542.98	7,056.78	76.18	78.91	90.19	1,147.71	-2,844.64	1,426.26	1,271.64	154.63	9.224	
9,600.00	7,052.52	9,642.98	7,057.30	78.81	81.44	90.19	1,149.82	-2,944.61	1,426.38	1,266.58	159.80	8.926	
9,700.00	7,053.04	9,742.98	7,057.82	81.46	83.99	90.19	1,151.93	-3,044.59	1,426.49	1,261.50	165.00	8.646	
9,800.00	7,053.56	9,842.98	7,058.34	84.10	86.55	90.19	1,154.05	-3,144.57	1,426.61	1,256.40	170.21	8.381	
9,900.00	7,054.08	9,942.98	7,058.86	86.76	89.13	90.19	1,156.16	-3,244.54	1,426.73	1,251.29	175.44	8.132	
10,000.00	7,054.59	10,042.98	7,059.38	89.42	91.71	90.19	1,158.27	-3,344.52	1,426.84	1,246.16	180.68	7.897	
10,100.00	7,055.11	10,142.98	7,059.90	92.08	94.29	90.19	1,160.38	-3,444.49	1,426.96	1,241.02	185.94	7.674	
10,200.00	7,055.63	10,242.98	7,060.42	94.75	96.89	90.19	1,162.50	-3,544.47	1,427.07	1,235.87	191.21	7.463	
10,300.00	7,056.15	10,342.98	7,060.93	97.42	99.50	90.19	1,164.61	-3,644.45	1,427.19	1,230.70	196.49	7.263	
10,400.00	7,056.67	10,442.98	7,061.45	100.10	102.11	90.19	1,166.72	-3,744.42	1,427.31	1,225.53	201.78	7.074	
10,500.00	7,057.18	10,542.98	7,061.97	102.78	104.72	90.19	1,168.83	-3,844.40	1,427.42	1,220.34	207.08	6.893	
10,600.00	7,057.70	10,642.98	7,062.49	105.46	107.35	90.19	1,170.95	-3,944.38	1,427.54	1,215.15	212.39	6.721	
10,700.00	7,058.22	10,742.98	7,063.01	108.14	109.97	90.19	1,173.06	-4,044.35	1,427.66	1,209.95	217.71	6.558	
10,800.00	7,058.74	10,842.98	7,063.53	110.83	112.61	90.19	1,175.17	-4,144.33	1,427.77	1,204.74	223.03	6.402	
10,900.00	7,059.26	10,942.98	7,064.05	113.52	115.24	90.19	1,177.29	-4,244.30	1,427.89	1,199.52	228.36	6.253	
11,000.00	7,059.78	11,042.98	7,064.57	116.21	117.89	90.19	1,179.40	-4,344.28	1,428.00	1,194.30	233.70	6.110	
11,100.00	7,060.29	11,142.98	7,065.08	118.90	120.53	90.19	1,181.51	-4,444.26	1,428.12	1,189.07	239.05	5.974	
11,200.00	7,060.81	11,242.98	7,065.60	121.60	123.18	90.19	1,183.62	-4,544.23	1,428.24	1,183.84	244.40	5.844	
11,300.00	7,061.33	11,342.98	7,066.12	124.30	125.84	90.19	1,185.74	-4,644.21	1,428.35	1,178.60	249.75	5.719	
11,400.00	7,061.85	11,442.98	7,066.64	127.00	128.49	90.19	1,187.85	-4,744.19	1,428.47	1,173.35	255.11	5.599	
11,500.00	7,062.37	11,542.98	7,067.16	129.70	131.15	90.19	1,189.96	-4,844.16	1,428.58	1,168.11	260.48	5.484	
11,600.00	7,062.89	11,642.98	7,067.68	132.40	133.82	90.19	1,192.07	-4,944.14	1,428.70	1,162.85	265.85	5.374	
11,700.00	7,063.40	11,742.98	7,068.20	135.10	136.48	90.19	1,194.19	-5,044.12	1,428.82	1,157.59	271.22	5.268	
11,800.00	7,063.92	11,842.98	7,068.72	137.81	139.15	90.19	1,196.30	-5,144.09	1,428.93	1,152.33	276.60	5.166	
11,900.00	7,064.44	11,942.98	7,069.23	140.51	141.82	90.19	1,198.41	-5,244.07	1,429.05	1,147.06	281.98	5.068	
12,000.00	7,064.96	12,042.98	7,069.75	143.22	144.50	90.19	1,200.52	-5,344.04	1,429.16	1,141.80	287.37	4.973	
12,100.00	7,065.48	12,142.98	7,070.27	145.93	147.18	90.19	1,202.64	-5,444.02	1,429.28	1,136.52	292.76	4.882	
12,200.00	7,066.00	12,242.98	7,070.79	148.64	149.85	90.19	1,204.75	-5,544.00	1,429.40	1,131.25	298.15	4.794	
12,300.00	7,066.51	12,342.98	7,071.31	151.35	152.53	90.19	1,206.86	-5,643.97	1,429.51	1,125.97	303.54	4.709	
12,400.00	7,067.03	12,442.98	7,071.83	154.06	155.22	90.19	1,208.98	-5,743.95	1,429.63	1,120.69	308.94	4.627	
12,500.00	7,067.55	12,542.98	7,072.35	156.77	157.90	90.19	1,211.09	-5,843.93	1,429.74	1,115.40	314.34	4.548	
12,600.00	7,068.07	12,642.98	7,072.86	159.49	160.59	90.19	1,213.20	-5,943.90	1,429.86	1,110.11	319.75	4.472	
12,700.00	7,068.59	12,742.98	7,073.38	162.20	163.27	90.19	1,215.31	-6,043.88	1,429.98	1,104.83	325.15	4.398	
12,800.00	7,069.11	12,842.98	7,073.90	164.92	165.96	90.19	1,217.43	-6,143.85	1,430.09	1,099.53	330.56	4.326	
12,900.00	7,069.62	12,942.98	7,074.42	167.63	168.65	90.19	1,219.54	-6,243.83	1,430.21	1,094.24	335.97	4.257	
13,000.00	7,070.14	13,042.98	7,074.94	170.35	171.35	90.19	1,221.65	-6,343.81	1,430.32	1,088.94	341.38	4.190	
13,100.00	7,070.66	13,142.98	7,075.46	173.07	174.04	90.19	1,223.76	-6,443.78	1,430.44	1,083.65	346.79	4.125	
13,200.00	7,071.18	13,242.98	7,075.98	175.78	176.74	90.19	1,225.88	-6,543.76	1,430.56	1,078.35	352.21	4.062	
13,300.00	7,071.70	13,342.98	7,076.50	178.50	179.43	90.19	1,227.99	-6,643.74	1,430.67	1,073.04	357.63	4.000	
13,400.00	7,072.21	13,442.98	7,077.01	181.22	182.13	90.19	1,230.10	-6,743.71	1,430.79	1,067.74	363.05	3.941	
13,500.00	7,072.73	13,542.98	7,077.53	183.94	184.83	90.19	1,232.21	-6,843.69	1,430.90	1,062.44	368.47	3.883	
13,600.00	7,073.25	13,642.98	7,078.05	186.66	187.53	90.19	1,234.33	-6,943.66	1,431.02	1,057.13	373.89	3.827	
13,700.00	7,073.77	13,742.98	7,078.57	189.38	190.23	90.19	1,236.44	-7,043.64	1,431.14	1,051.82	379.32	3.773	
13,800.00	7,074.29	13,842.98	7,079.09	192.10	192.93	90.19	1,238.55	-7,143.62	1,431.25	1,046.51	384.74	3.720	
13,900.00	7,074.81	13,942.98	7,079.61	194.82	195.63	90.19	1,240.66	-7,243.59	1,431.37	1,041.20	390.17	3.669	
14,000.00	7,075.32	14,042.98	7,080.13	197.54	198.34	90.19	1,242.78	-7,343.57	1,431.48	1,035.89	395.60	3.619	
14,100.00	7,075.84	14,142.98	7,080.65	200.27	201.04	90.19	1,244.89	-7,443.55	1,431.60	1,030.57	401.03	3.570	
14,200.00	7,076.36	14,242.98	7,081.16	202.99	203.75	90.19	1,247.00	-7,543.52	1,431.72	1,025.26	406.46	3.522	
14,300.00	7,076.88	14,342.98	7,081.68	205.71	206.45	90.19	1,249.12	-7,643.50	1,431.83	1,019.94	411.89	3.476	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,400.00	7,077.40	14,442.98	7,082.20	208.44	209.16	90.19	1,251.23	-7,743.47	1,431.95	1,014.63	417.32	3.431	
14,500.00	7,077.92	14,542.98	7,082.72	211.16	211.87	90.19	1,253.34	-7,843.45	1,432.06	1,009.31	422.76	3.387	
14,600.00	7,078.43	14,642.98	7,083.24	213.88	214.58	90.19	1,255.45	-7,943.43	1,432.18	1,003.99	428.19	3.345	
14,700.00	7,078.95	14,742.98	7,083.76	216.61	217.29	90.19	1,257.57	-8,043.40	1,432.30	998.67	433.63	3.303	
14,800.00	7,079.47	14,842.98	7,084.28	219.33	220.00	90.19	1,259.68	-8,143.38	1,432.41	993.35	439.06	3.262	
14,900.00	7,079.99	14,942.98	7,084.80	222.06	222.71	90.19	1,261.79	-8,243.36	1,432.53	988.03	444.50	3.223	
15,000.00	7,080.51	15,042.98	7,085.31	224.78	225.42	90.19	1,263.90	-8,343.33	1,432.64	982.70	449.94	3.184	
15,100.00	7,081.03	15,142.98	7,085.83	227.51	228.13	90.19	1,266.02	-8,443.31	1,432.76	977.38	455.38	3.146	
15,200.00	7,081.54	15,242.98	7,086.35	230.24	230.84	90.19	1,268.13	-8,543.28	1,432.88	972.05	460.82	3.109	
15,300.00	7,082.06	15,342.98	7,086.87	232.96	233.56	90.19	1,270.24	-8,643.26	1,432.99	966.73	466.26	3.073	
15,400.00	7,082.58	15,442.98	7,087.39	235.69	236.27	90.19	1,272.35	-8,743.24	1,433.11	961.40	471.71	3.038	
15,500.00	7,083.10	15,542.98	7,087.91	238.41	238.98	90.19	1,274.47	-8,843.21	1,433.23	956.08	477.15	3.004	
15,600.00	7,083.62	15,642.98	7,088.43	241.14	241.70	90.19	1,276.58	-8,943.19	1,433.34	950.75	482.59	2.970	
15,700.00	7,084.13	15,742.98	7,088.95	243.87	244.41	90.19	1,278.69	-9,043.17	1,433.46	945.42	488.04	2.937	
15,800.00	7,084.65	15,842.98	7,089.46	246.60	247.13	90.19	1,280.80	-9,143.14	1,433.57	940.09	493.48	2.905	
15,900.00	7,085.17	15,942.98	7,089.98	249.32	249.85	90.19	1,282.92	-9,243.12	1,433.69	934.76	498.93	2.874	
16,000.00	7,085.69	16,042.98	7,090.50	252.05	252.56	90.19	1,285.03	-9,343.09	1,433.81	929.43	504.38	2.843	
16,100.00	7,086.21	16,142.98	7,091.02	254.78	255.28	90.19	1,287.14	-9,443.07	1,433.92	924.10	509.82	2.813	
16,200.00	7,086.73	16,242.98	7,091.54	257.51	258.00	90.19	1,289.26	-9,543.05	1,434.04	918.77	515.27	2.783	
16,300.00	7,087.24	16,342.98	7,092.06	260.24	260.72	90.19	1,291.37	-9,643.02	1,434.15	913.43	520.72	2.754	
16,400.00	7,087.76	16,442.98	7,092.58	262.97	263.43	90.19	1,293.48	-9,743.00	1,434.27	908.10	526.17	2.726	
16,500.00	7,088.28	16,542.98	7,093.10	265.69	266.15	90.19	1,295.59	-9,842.98	1,434.39	902.77	531.62	2.698	
16,600.00	7,088.80	16,642.98	7,093.61	268.42	268.87	90.19	1,297.71	-9,942.95	1,434.50	897.43	537.07	2.671	
16,700.00	7,089.32	16,742.98	7,094.13	271.15	271.59	90.19	1,299.82	-10,042.93	1,434.62	892.10	542.52	2.644	
16,800.00	7,089.84	16,842.98	7,094.65	273.88	274.31	90.19	1,301.93	-10,142.90	1,434.73	886.77	547.97	2.618	
16,900.00	7,090.35	16,942.98	7,095.17	276.61	277.03	90.19	1,304.04	-10,242.88	1,434.85	881.43	553.42	2.593	
17,000.00	7,090.87	17,042.98	7,095.69	279.34	279.75	90.19	1,306.16	-10,342.86	1,434.97	876.09	558.87	2.568	
17,024.65	7,091.00	17,067.63	7,095.82	280.01	280.42	90.19	1,306.68	-10,367.50	1,434.99	874.78	560.22	2.562 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-166.41	-463.79	-112.15	477.17				
100.00	100.00	97.00	97.00	0.48	0.47	-166.41	-463.79	-112.15	477.16	476.21	0.95	501.896	
200.00	200.00	197.00	197.00	1.28	1.26	-166.41	-463.79	-112.15	477.16	474.62	2.54	187.811	
300.00	300.00	297.00	297.00	1.77	1.75	-166.41	-463.79	-112.15	477.16	473.63	3.52	135.457	
400.00	400.00	397.00	397.00	2.15	2.14	-166.41	-463.79	-112.15	477.16	472.87	4.29	111.236	
500.00	500.00	497.00	497.00	2.48	2.47	-166.41	-463.79	-112.15	477.16	472.21	4.94	96.513	
600.00	600.00	597.00	597.00	2.77	2.76	-166.41	-463.79	-112.15	477.16	471.63	5.53	86.347	
700.00	700.00	697.00	697.00	3.03	3.02	-166.41	-463.79	-112.15	477.16	471.10	6.06	78.781	
800.00	800.00	815.32	815.29	3.28	3.68	-166.32	-461.47	-112.29	475.29	468.37	6.92	68.654	
900.00	900.00	933.82	933.56	3.51	4.66	-166.07	-454.27	-112.71	469.47	461.40	8.07	58.165	
1,000.00	999.98	1,051.28	1,050.40	3.78	5.50	-16.91	-442.32	-113.41	458.08	448.97	9.11	50.295	
1,083.35	1,083.22	1,147.70	1,145.88	4.28	6.13	-16.65	-428.94	-114.19	443.14	432.98	10.16	43.614	
1,100.00	1,099.84	1,166.76	1,164.70	4.29	6.26	-16.57	-425.91	-114.37	439.62	429.33	10.29	42.737	
1,200.00	1,199.64	1,280.02	1,276.07	4.47	6.96	-15.96	-405.37	-115.57	416.33	405.23	11.10	37.513	
1,300.00	1,299.43	1,391.00	1,384.32	4.70	7.61	-15.05	-381.00	-116.99	389.50	377.60	11.90	32.730	
1,400.00	1,399.23	1,499.22	1,488.90	4.95	8.22	-13.79	-353.22	-118.62	359.31	346.67	12.65	28.410	
1,500.00	1,499.02	1,593.73	1,579.76	5.20	8.47	-12.35	-327.29	-120.13	327.66	314.54	13.13	24.965	
1,600.00	1,598.82	1,688.23	1,670.62	5.47	8.76	-10.60	-301.35	-121.65	296.24	282.60	13.64	21.721	
1,700.00	1,698.61	1,782.73	1,761.48	5.75	9.07	-8.45	-275.42	-123.17	265.12	250.96	14.16	18.717	
1,800.00	1,798.41	1,877.23	1,852.35	6.04	9.39	-5.74	-249.49	-124.68	234.44	219.74	14.69	15.956	
1,900.00	1,898.20	1,971.74	1,943.21	6.34	9.72	-2.24	-223.56	-126.20	204.38	189.17	15.20	13.443	
2,000.00	1,998.00	2,066.24	2,034.07	6.64	10.06	2.41	-197.63	-127.72	175.27	159.60	15.67	11.187	
2,100.00	2,097.79	2,160.74	2,124.94	6.94	10.41	8.80	-171.70	-129.23	147.67	131.64	16.03	9.213	
2,200.00	2,197.59	2,255.24	2,215.80	7.26	10.78	17.82	-145.77	-130.75	122.60	106.41	16.19	7.574	
2,300.00	2,297.38	2,349.75	2,306.66	7.57	11.15	30.67	-119.84	-132.26	101.95	85.93	16.02	6.364	
2,400.00	2,397.18	2,444.25	2,397.52	7.89	11.53	48.09	-93.91	-133.78	88.86	73.24	15.62	5.689	
2,466.81	2,463.85	2,507.39	2,458.23	8.11	11.78	61.57	-76.58	-134.79	86.13	70.56	15.57	5.533 CC, ES	
2,500.00	2,496.97	2,538.75	2,488.39	8.22	11.91	68.36	-67.98	-135.30	86.81	71.11	15.70	5.529	
2,600.00	2,596.77	2,633.26	2,579.25	8.54	12.31	87.11	-42.05	-136.81	96.52	79.81	16.71	5.776	
2,700.00	2,696.57	2,727.76	2,670.11	8.87	12.70	101.49	-16.12	-138.33	115.03	96.94	18.10	6.356	
2,800.00	2,796.36	2,822.26	2,760.98	9.21	13.11	111.66	9.82	-139.85	138.88	119.47	19.41	7.155	
2,900.00	2,896.16	2,916.76	2,851.84	9.54	13.51	118.81	35.75	-141.36	165.78	145.22	20.56	8.062	
3,000.00	2,995.95	3,011.27	2,942.70	9.87	13.93	123.97	61.68	-142.88	194.46	172.88	21.59	9.008	
3,100.00	3,095.75	3,105.77	3,033.56	10.21	14.34	127.81	87.61	-144.40	224.25	201.72	22.53	9.955	
3,200.00	3,195.54	3,200.27	3,124.43	10.55	14.76	130.76	113.54	-145.91	254.75	231.34	23.41	10.881	
3,300.00	3,295.34	3,294.77	3,215.29	10.89	15.19	133.07	139.47	-147.43	285.74	261.47	24.26	11.777	
3,400.00	3,395.13	3,389.28	3,306.15	11.23	15.61	134.94	165.40	-148.95	317.07	291.98	25.09	12.637	
3,500.00	3,494.93	3,483.78	3,397.02	11.58	16.04	136.47	191.33	-150.46	348.65	322.75	25.90	13.461	
3,600.00	3,594.72	3,578.28	3,487.88	11.92	16.47	137.75	217.26	-151.98	380.42	353.72	26.70	14.247	
3,700.00	3,694.52	3,672.79	3,578.74	12.26	16.91	138.84	243.19	-153.49	412.34	384.84	27.50	14.996	
3,800.00	3,794.31	3,767.29	3,669.60	12.61	17.34	139.76	269.12	-155.01	444.37	416.08	28.29	15.710	
3,900.00	3,894.11	3,861.79	3,760.47	12.96	17.78	140.57	295.05	-156.53	476.49	447.42	29.07	16.390	
4,000.00	3,993.90	3,956.29	3,851.33	13.30	18.22	141.27	320.98	-158.04	508.68	478.83	29.86	17.038	
4,100.00	4,093.70	4,050.80	3,942.19	13.65	18.66	141.89	346.92	-159.56	540.94	510.30	30.64	17.655	
4,200.00	4,193.49	4,145.30	4,033.06	14.00	19.11	142.44	372.85	-161.08	573.25	541.82	31.42	18.244	
4,300.00	4,293.29	4,239.80	4,123.92	14.35	19.55	142.93	398.78	-162.59	605.59	573.39	32.20	18.806	
4,400.00	4,393.08	4,334.30	4,214.78	14.70	20.00	143.37	424.71	-164.11	637.98	604.99	32.98	19.342	
4,500.00	4,492.88	4,428.81	4,305.64	15.05	20.45	143.77	450.64	-165.63	670.39	636.63	33.77	19.855	
4,600.00	4,592.68	4,523.31	4,396.51	15.40	20.90	144.13	476.57	-167.14	702.83	668.29	34.55	20.344	
4,700.00	4,692.47	4,617.81	4,487.37	15.75	21.35	144.46	502.50	-168.66	735.30	699.97	35.33	20.813	
4,800.00	4,792.27	4,712.32	4,578.23	16.10	21.80	144.76	528.43	-170.17	767.78	731.67	36.11	21.261	
4,900.00	4,892.06	4,806.82	4,669.10	16.45	22.25	145.04	554.36	-171.69	800.28	763.39	36.89	21.691	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,901.32	4,759.96	16.81	22.71	145.29	580.29	-173.21	832.80	795.12	37.68	22.103	
5,100.00	5,091.85	4,995.82	4,850.82	17.16	23.16	145.53	606.22	-174.72	865.33	826.87	38.46	22.498	
5,200.00	5,191.45	5,090.33	4,941.68	17.51	23.62	145.75	632.15	-176.24	897.87	858.62	39.25	22.877	
5,300.00	5,291.24	5,184.83	5,032.55	17.87	24.07	145.95	658.09	-177.76	930.42	890.39	40.03	23.241	
5,400.00	5,391.04	5,279.33	5,123.41	18.22	24.53	146.14	684.02	-179.27	962.99	922.17	40.82	23.591	
5,500.00	5,490.83	5,373.83	5,214.27	18.57	24.99	146.32	709.95	-180.79	995.56	953.95	41.61	23.928	
5,600.00	5,590.63	5,468.34	5,305.14	18.93	25.45	146.49	735.88	-182.31	1,028.14	985.75	42.39	24.252	
5,700.00	5,690.42	5,562.84	5,396.00	19.28	25.91	146.64	761.81	-183.82	1,060.73	1,017.55	43.18	24.564	
5,800.00	5,790.22	5,657.34	5,486.86	19.64	26.37	146.79	787.74	-185.34	1,093.32	1,049.35	43.97	24.865	
5,900.00	5,890.01	5,751.85	5,577.72	19.99	26.83	146.93	813.67	-186.85	1,125.92	1,081.16	44.76	25.155	
6,000.00	5,989.81	5,846.35	5,668.59	20.35	27.29	147.06	839.60	-188.37	1,158.53	1,112.98	45.55	25.434	
6,100.00	6,089.60	5,940.85	5,759.45	20.70	27.75	147.18	865.53	-189.89	1,191.14	1,144.80	46.34	25.704	
6,200.00	6,189.40	6,035.35	5,850.31	21.06	28.21	147.30	891.46	-191.40	1,223.76	1,176.62	47.13	25.965	
6,300.00	6,289.19	6,129.86	5,941.18	21.41	28.68	147.41	917.39	-192.92	1,256.38	1,208.45	47.92	26.216	
6,400.00	6,388.99	6,224.36	6,032.04	21.77	29.14	147.52	943.32	-194.44	1,289.00	1,240.28	48.72	26.460	
6,498.43	6,487.22	6,317.38	6,121.48	22.12	29.60	147.62	968.85	-195.93	1,321.12	1,271.62	49.50	26.692	
6,500.00	6,488.79	6,318.86	6,122.90	22.12	29.61	145.49	969.25	-195.95	1,321.63	1,272.12	49.51	26.696	
6,550.00	6,538.54	6,366.03	6,168.25	22.32	29.84	110.47	982.20	-196.71	1,337.83	1,287.91	49.92	26.799	
6,600.00	6,587.76	6,412.79	6,213.21	22.59	30.07	99.57	995.03	-197.46	1,353.77	1,303.40	50.37	26.877	
6,650.00	6,636.08	6,458.78	6,257.43	22.84	30.29	94.23	1,007.65	-198.20	1,369.39	1,318.63	50.76	26.976	
6,700.00	6,683.13	6,503.66	6,300.58	23.07	30.51	90.97	1,019.96	-198.92	1,384.68	1,333.52	51.16	27.068	
6,750.00	6,728.55	6,547.09	6,342.34	23.29	30.73	88.73	1,031.88	-199.62	1,399.66	1,348.10	51.56	27.146	
6,800.00	6,771.99	6,588.72	6,382.37	23.51	30.93	87.08	1,043.30	-200.28	1,414.38	1,362.40	51.98	27.211	
6,850.00	6,813.13	6,628.26	6,420.38	23.72	31.13	85.81	1,054.15	-200.92	1,428.91	1,376.49	52.41	27.262	
6,900.00	6,851.64	6,665.39	6,456.09	23.94	31.31	84.77	1,064.34	-201.51	1,443.32	1,390.45	52.87	27.300	
6,950.00	6,887.25	6,699.84	6,489.21	24.16	31.48	83.88	1,073.79	-202.07	1,457.70	1,404.36	53.34	27.326	
7,000.00	6,919.67	6,731.34	6,519.49	24.38	31.64	83.05	1,082.44	-202.57	1,472.15	1,418.31	53.84	27.342	
7,050.00	6,948.65	6,759.65	6,546.71	24.62	31.78	82.23	1,090.20	-203.03	1,486.75	1,432.39	54.36	27.350	
7,100.00	6,973.99	6,784.56	6,570.66	24.88	31.90	81.38	1,097.04	-203.43	1,501.58	1,446.68	54.90	27.352	
7,150.00	6,995.49	6,805.87	6,591.15	25.18	32.00	80.44	1,102.89	-203.77	1,516.67	1,461.22	55.45	27.351	
7,200.00	7,012.97	6,830.14	6,614.49	25.51	32.12	79.65	1,109.55	-204.26	1,532.07	1,475.99	56.08	27.318	
7,250.00	7,026.32	6,876.67	6,659.07	25.89	32.35	79.69	1,122.33	-207.80	1,547.57	1,490.58	56.99	27.155	
7,300.00	7,035.43	6,939.44	6,718.47	26.33	32.67	80.33	1,139.47	-218.50	1,562.98	1,504.87	58.11	26.896	
7,350.00	7,040.22	7,044.27	6,813.94	26.84	33.20	82.41	1,167.32	-251.19	1,577.99	1,518.42	59.57	26.488	
7,377.14	7,041.00	7,149.38	6,902.22	27.14	33.65	84.99	1,193.48	-301.59	1,585.60	1,525.02	60.58	26.174	
7,400.00	7,041.12	7,310.85	7,016.62	27.41	34.41	89.27	1,228.21	-409.31	1,591.16	1,529.54	61.62	25.822	
7,500.00	7,041.64	7,774.13	7,143.37	28.77	39.42	93.77	1,272.83	-841.04	1,594.80	1,529.19	65.60	24.310	
7,600.00	7,042.16	7,874.13	7,143.88	30.39	40.90	93.77	1,274.94	-941.02	1,594.91	1,526.16	68.75	23.198	
7,700.00	7,042.67	7,974.13	7,144.40	32.22	42.48	93.77	1,277.05	-1,040.99	1,595.03	1,522.86	72.17	22.102	
7,800.00	7,043.19	8,074.13	7,144.92	34.20	44.16	93.76	1,279.17	-1,140.97	1,595.15	1,519.33	75.81	21.041	
7,900.00	7,043.71	8,174.13	7,145.44	36.31	45.91	93.76	1,281.28	-1,240.95	1,595.26	1,515.60	79.66	20.026	
8,000.00	7,044.23	8,274.13	7,145.96	38.52	47.74	93.76	1,283.39	-1,340.92	1,595.38	1,511.70	83.68	19.065	
8,100.00	7,044.75	8,374.13	7,146.48	40.80	49.64	93.76	1,285.51	-1,440.90	1,595.50	1,507.64	87.85	18.161	
8,200.00	7,045.26	8,474.13	7,147.00	43.15	51.60	93.76	1,287.62	-1,540.88	1,595.61	1,503.46	92.16	17.314	
8,300.00	7,045.78	8,574.13	7,147.52	45.54	53.63	93.76	1,289.74	-1,640.85	1,595.73	1,499.16	96.57	16.523	
8,400.00	7,046.30	8,674.13	7,148.04	47.97	55.70	93.76	1,291.85	-1,740.83	1,595.85	1,494.76	101.09	15.786	
8,500.00	7,046.82	8,774.13	7,148.55	50.44	57.82	93.76	1,293.96	-1,840.80	1,595.96	1,490.27	105.69	15.100	
8,600.00	7,047.34	8,874.13	7,149.07	52.94	59.99	93.76	1,296.08	-1,940.78	1,596.08	1,485.71	110.37	14.461	
8,700.00	7,047.86	8,974.13	7,149.59	55.46	62.20	93.76	1,298.19	-2,040.76	1,596.20	1,481.08	115.12	13.865	
8,800.00	7,048.37	9,074.13	7,150.11	58.00	64.44	93.76	1,300.30	-2,140.73	1,596.31	1,476.39	119.93	13.311	
8,900.00	7,048.89	9,174.13	7,150.63	60.56	66.72	93.76	1,302.42	-2,240.71	1,596.43	1,471.64	124.79	12.793	
9,000.00	7,049.41	9,274.13	7,151.15	63.13	69.03	93.76	1,304.53	-2,340.69	1,596.55	1,466.85	129.70	12.310	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HNC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,374.13	7,151.67	65.72	71.36	93.76	1,306.64	-2,440.66	1,596.66	1,462.02	134.65	11.858	
9,200.00	7,050.45	9,474.13	7,152.19	68.32	73.73	93.76	1,308.76	-2,540.64	1,596.78	1,457.15	139.63	11.436	
9,300.00	7,050.97	9,574.13	7,152.71	70.93	76.11	93.76	1,310.87	-2,640.61	1,596.90	1,452.24	144.65	11.039	
9,400.00	7,051.48	9,674.13	7,153.22	73.55	78.52	93.76	1,312.98	-2,740.59	1,597.01	1,447.31	149.71	10.668	
9,500.00	7,052.00	9,774.13	7,153.74	76.18	80.94	93.76	1,315.10	-2,840.57	1,597.13	1,442.34	154.79	10.318	
9,600.00	7,052.52	9,874.13	7,154.26	78.81	83.39	93.76	1,317.21	-2,940.54	1,597.25	1,437.36	159.89	9.990	
9,700.00	7,053.04	9,974.13	7,154.78	81.46	85.85	93.76	1,319.33	-3,040.52	1,597.36	1,432.35	165.02	9.680	
9,800.00	7,053.56	10,074.13	7,155.30	84.10	88.32	93.76	1,321.44	-3,140.50	1,597.48	1,427.31	170.17	9.388	
9,900.00	7,054.08	10,174.13	7,155.82	86.76	90.82	93.76	1,323.55	-3,240.47	1,597.60	1,422.26	175.33	9.112	
10,000.00	7,054.59	10,274.13	7,156.34	89.42	93.32	93.76	1,325.67	-3,340.45	1,597.71	1,417.20	180.52	8.851	
10,100.00	7,055.11	10,374.13	7,156.86	92.08	95.83	93.76	1,327.78	-3,440.42	1,597.83	1,412.11	185.72	8.604	
10,200.00	7,055.63	10,474.13	7,157.38	94.75	98.36	93.76	1,329.89	-3,540.40	1,597.95	1,407.02	190.93	8.369	
10,300.00	7,056.15	10,574.13	7,157.89	97.42	100.90	93.76	1,332.01	-3,640.38	1,598.06	1,401.90	196.16	8.147	
10,400.00	7,056.67	10,674.13	7,158.41	100.10	103.45	93.76	1,334.12	-3,740.35	1,598.18	1,396.78	201.40	7.935	
10,500.00	7,057.18	10,774.13	7,158.93	102.78	106.00	93.76	1,336.23	-3,840.33	1,598.30	1,391.64	206.65	7.734	
10,600.00	7,057.70	10,874.13	7,159.45	105.46	108.57	93.76	1,338.35	-3,940.31	1,598.42	1,386.50	211.92	7.543	
10,700.00	7,058.22	10,974.13	7,159.97	108.14	111.14	93.76	1,340.46	-4,040.28	1,598.53	1,381.34	217.19	7.360	
10,800.00	7,058.74	11,074.13	7,160.49	110.83	113.72	93.76	1,342.57	-4,140.26	1,598.65	1,376.18	222.47	7.186	
10,900.00	7,059.26	11,174.13	7,161.01	113.52	116.31	93.76	1,344.69	-4,240.23	1,598.77	1,371.00	227.76	7.019	
11,000.00	7,059.78	11,274.13	7,161.53	116.21	118.90	93.76	1,346.80	-4,340.21	1,598.88	1,365.82	233.06	6.860	
11,100.00	7,060.29	11,374.13	7,162.05	118.90	121.50	93.76	1,348.91	-4,440.19	1,599.00	1,360.63	238.37	6.708	
11,200.00	7,060.81	11,474.13	7,162.56	121.60	124.11	93.76	1,351.03	-4,540.16	1,599.12	1,355.44	243.68	6.562	
11,300.00	7,061.33	11,574.13	7,163.08	124.30	126.72	93.76	1,353.14	-4,640.14	1,599.23	1,350.23	249.00	6.423	
11,400.00	7,061.85	11,674.13	7,163.60	127.00	129.33	93.76	1,355.26	-4,740.12	1,599.35	1,345.02	254.33	6.289	
11,500.00	7,062.37	11,774.13	7,164.12	129.70	131.95	93.76	1,357.37	-4,840.09	1,599.47	1,339.81	259.66	6.160	
11,600.00	7,062.89	11,874.13	7,164.64	132.40	134.58	93.76	1,359.48	-4,940.07	1,599.58	1,334.59	264.99	6.036	
11,700.00	7,063.40	11,974.13	7,165.16	135.10	137.21	93.76	1,361.60	-5,040.04	1,599.70	1,329.36	270.34	5.917	
11,800.00	7,063.92	12,074.13	7,165.68	137.81	139.84	93.75	1,363.71	-5,140.02	1,599.82	1,324.13	275.68	5.803	
11,900.00	7,064.44	12,174.13	7,166.20	140.51	142.48	93.75	1,365.82	-5,240.00	1,599.93	1,318.90	281.03	5.693	
12,000.00	7,064.96	12,274.13	7,166.72	143.22	145.12	93.75	1,367.94	-5,339.97	1,600.05	1,313.66	286.39	5.587	
12,100.00	7,065.48	12,374.13	7,167.23	145.93	147.77	93.75	1,370.05	-5,439.95	1,600.17	1,308.42	291.75	5.485	
12,200.00	7,066.00	12,474.13	7,167.75	148.64	150.41	93.75	1,372.16	-5,539.93	1,600.28	1,303.17	297.11	5.386	
12,300.00	7,066.51	12,574.13	7,168.27	151.35	153.07	93.75	1,374.28	-5,639.90	1,600.40	1,297.92	302.48	5.291	
12,400.00	7,067.03	12,674.13	7,168.79	154.06	155.72	93.75	1,376.39	-5,739.88	1,600.52	1,292.67	307.85	5.199	
12,500.00	7,067.55	12,774.13	7,169.31	156.77	158.38	93.75	1,378.50	-5,839.85	1,600.63	1,287.41	313.22	5.110	
12,600.00	7,068.07	12,874.13	7,169.83	159.49	161.03	93.75	1,380.62	-5,939.83	1,600.75	1,282.15	318.60	5.024	
12,700.00	7,068.59	12,974.13	7,170.35	162.20	163.70	93.75	1,382.73	-6,039.81	1,600.87	1,276.89	323.98	4.941	
12,800.00	7,069.11	13,074.13	7,170.87	164.92	166.36	93.75	1,384.85	-6,139.78	1,600.98	1,271.62	329.36	4.861	
12,900.00	7,069.62	13,174.13	7,171.39	167.63	169.03	93.75	1,386.96	-6,239.76	1,601.10	1,266.36	334.74	4.783	
13,000.00	7,070.14	13,274.13	7,171.90	170.35	171.70	93.75	1,389.07	-6,339.74	1,601.22	1,261.09	340.13	4.708	
13,100.00	7,070.66	13,374.13	7,172.42	173.07	174.37	93.75	1,391.19	-6,439.71	1,601.33	1,255.81	345.52	4.635	
13,200.00	7,071.18	13,474.13	7,172.94	175.78	177.04	93.75	1,393.30	-6,539.69	1,601.45	1,250.54	350.91	4.564	
13,300.00	7,071.70	13,574.13	7,173.46	178.50	179.71	93.75	1,395.41	-6,639.66	1,601.57	1,245.26	356.31	4.495	
13,400.00	7,072.21	13,674.13	7,173.98	181.22	182.39	93.75	1,397.53	-6,739.64	1,601.68	1,239.98	361.70	4.428	
13,500.00	7,072.73	13,774.13	7,174.50	183.94	185.07	93.75	1,399.64	-6,839.62	1,601.80	1,234.70	367.10	4.363	
13,600.00	7,073.25	13,874.13	7,175.02	186.66	187.75	93.75	1,401.75	-6,939.59	1,601.92	1,229.42	372.50	4.300	
13,700.00	7,073.77	13,974.13	7,175.54	189.38	190.43	93.75	1,403.87	-7,039.57	1,602.03	1,224.13	377.90	4.239	
13,800.00	7,074.29	14,074.13	7,176.06	192.10	193.11	93.75	1,405.98	-7,139.55	1,602.15	1,218.84	383.31	4.180	
13,900.00	7,074.81	14,174.13	7,176.57	194.82	195.80	93.75	1,408.09	-7,239.52	1,602.27	1,213.55	388.71	4.122	
14,000.00	7,075.32	14,274.13	7,177.09	197.54	198.48	93.75	1,410.21	-7,339.50	1,602.38	1,208.26	394.12	4.066	
14,100.00	7,075.84	14,374.13	7,177.61	200.27	201.17	93.75	1,412.32	-7,439.47	1,602.50	1,202.97	399.53	4.011	
14,200.00	7,076.36	14,474.13	7,178.13	202.99	203.86	93.75	1,414.43	-7,539.45	1,602.62	1,197.68	404.94	3.958	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3X-HNC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	14,574.13	7,178.65	205.71	206.55	93.75	1,416.55	-7,639.43	1,602.73	1,192.38	410.35	3.906	
14,400.00	7,077.40	14,674.13	7,179.17	208.44	209.24	93.75	1,418.66	-7,739.40	1,602.85	1,187.09	415.76	3.855	
14,500.00	7,077.92	14,774.13	7,179.69	211.16	211.93	93.75	1,420.78	-7,839.38	1,602.97	1,181.79	421.18	3.806	
14,600.00	7,078.43	14,874.13	7,180.21	213.88	214.63	93.75	1,422.89	-7,939.36	1,603.08	1,176.49	426.59	3.758	
14,700.00	7,078.95	14,974.12	7,180.73	216.61	217.32	93.75	1,425.00	-8,039.33	1,603.20	1,171.19	432.01	3.711	
14,800.00	7,079.47	15,074.12	7,181.24	219.33	220.02	93.75	1,427.12	-8,139.31	1,603.32	1,165.89	437.43	3.665	
14,900.00	7,079.99	15,174.12	7,181.76	222.06	222.72	93.75	1,429.23	-8,239.28	1,603.44	1,160.59	442.85	3.621	
15,000.00	7,080.51	15,274.12	7,182.28	224.78	225.41	93.75	1,431.34	-8,339.26	1,603.55	1,155.28	448.27	3.577	
15,100.00	7,081.03	15,374.12	7,182.80	227.51	228.11	93.75	1,433.46	-8,439.24	1,603.67	1,149.98	453.69	3.535	
15,200.00	7,081.54	15,474.12	7,183.32	230.24	230.81	93.75	1,435.57	-8,539.21	1,603.79	1,144.67	459.11	3.493	
15,300.00	7,082.06	15,574.12	7,183.84	232.96	233.51	93.75	1,437.68	-8,639.19	1,603.90	1,139.37	464.53	3.453	
15,400.00	7,082.58	15,674.12	7,184.36	235.69	236.21	93.75	1,439.80	-8,739.17	1,604.02	1,134.06	469.96	3.413	
15,500.00	7,083.10	15,774.12	7,184.88	238.41	238.92	93.75	1,441.91	-8,839.14	1,604.14	1,128.75	475.38	3.374	
15,600.00	7,083.62	15,874.12	7,185.40	241.14	241.62	93.75	1,444.02	-8,939.12	1,604.25	1,123.44	480.81	3.337	
15,700.00	7,084.13	15,974.12	7,185.91	243.87	244.32	93.74	1,446.14	-9,039.09	1,604.37	1,118.13	486.24	3.300	
15,800.00	7,084.65	16,074.12	7,186.43	246.60	247.03	93.74	1,448.25	-9,139.07	1,604.49	1,112.82	491.66	3.263	
15,900.00	7,085.17	16,174.12	7,186.95	249.32	249.73	93.74	1,450.37	-9,239.05	1,604.60	1,107.51	497.09	3.228	
16,000.00	7,085.69	16,274.12	7,187.47	252.05	252.44	93.74	1,452.48	-9,339.02	1,604.72	1,102.20	502.52	3.193	
16,100.00	7,086.21	16,374.12	7,187.99	254.78	255.14	93.74	1,454.59	-9,439.00	1,604.84	1,096.88	507.95	3.159	
16,200.00	7,086.73	16,474.12	7,188.51	257.51	257.85	93.74	1,456.71	-9,538.98	1,604.95	1,091.57	513.38	3.126	
16,300.00	7,087.24	16,574.12	7,189.03	260.24	260.56	93.74	1,458.82	-9,638.95	1,605.07	1,086.26	518.81	3.094	
16,400.00	7,087.76	16,674.12	7,189.55	262.97	263.27	93.74	1,460.93	-9,738.93	1,605.19	1,080.94	524.25	3.062	
16,500.00	7,088.28	16,774.12	7,190.07	265.69	265.98	93.74	1,463.05	-9,838.90	1,605.30	1,075.62	529.68	3.031	
16,600.00	7,088.80	16,874.12	7,190.58	268.42	268.69	93.74	1,465.16	-9,938.88	1,605.42	1,070.31	535.11	3.000	
16,700.00	7,089.32	16,974.12	7,191.10	271.15	271.40	93.74	1,467.27	-10,038.86	1,605.54	1,064.99	540.55	2.970	
16,800.00	7,089.84	17,074.12	7,191.62	273.88	274.11	93.74	1,469.39	-10,138.83	1,605.65	1,059.67	545.98	2.941	
16,900.00	7,090.35	17,174.12	7,192.14	276.61	276.82	93.74	1,471.50	-10,238.81	1,605.77	1,054.35	551.42	2.912	
17,000.00	7,090.87	17,274.12	7,192.66	279.34	279.53	93.74	1,473.61	-10,338.79	1,605.89	1,049.04	556.85	2.884	
17,024.65	7,091.00	17,298.77	7,192.79	280.01	280.20	93.74	1,474.14	-10,363.43	1,605.92	1,047.72	558.19	2.877 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	70.17	29.95	83.03	88.27				
100.00	100.00	100.00	100.00	0.48	0.48	70.17	29.95	83.03	88.27	87.31	0.97	91.455	
200.00	200.00	200.00	200.00	1.28	1.28	70.17	29.95	83.03	88.27	85.71	2.56	34.419	
300.00	300.00	300.00	300.00	1.77	1.77	70.17	29.95	83.03	88.27	84.73	3.54	24.955	
400.00	400.00	400.00	400.00	2.15	2.15	70.17	29.95	83.03	88.27	83.97	4.30	20.523	
500.00	500.00	500.00	500.00	2.48	2.48	70.17	29.95	83.03	88.27	83.32	4.95	17.819	
600.00	600.00	600.00	600.00	2.77	2.77	70.17	29.95	83.03	88.27	82.74	5.53	15.948	
700.00	700.00	700.00	700.00	3.03	3.03	70.17	29.95	83.03	88.27	82.21	6.06	14.555	
800.00	800.00	800.00	800.00	3.28	3.28	70.17	29.95	83.03	88.27	81.71	6.56	13.464	
900.00	900.00	900.00	900.00	3.51	3.51	70.17	29.95	83.03	88.27	81.25	7.02	12.580 CC, ES	
1,000.00	999.98	999.98	999.98	3.78	3.73	-141.67	29.95	83.03	89.63	82.15	7.48	11.983	
1,083.35	1,083.22	1,083.22	1,083.22	4.28	3.90	-143.21	29.95	83.03	92.90	84.88	8.02	11.578 SF	
1,100.00	1,099.84	1,099.84	1,099.84	4.29	3.93	-143.59	29.95	83.03	93.76	85.69	8.07	11.617	
1,200.00	1,199.64	1,199.64	1,199.64	4.47	4.13	-145.79	29.95	83.03	98.98	90.52	8.46	11.702	
1,300.00	1,299.43	1,299.43	1,299.43	4.70	4.32	-147.77	29.95	83.03	104.34	95.46	8.88	11.750	
1,400.00	1,399.23	1,399.23	1,399.23	4.95	4.51	-149.54	29.95	83.03	109.80	100.50	9.31	11.799	
1,500.00	1,499.02	1,499.02	1,499.02	5.20	4.69	-151.15	29.95	83.03	115.36	105.62	9.74	11.846	
1,600.00	1,598.82	1,598.82	1,598.82	5.47	4.86	-152.61	29.95	83.03	121.01	110.83	10.18	11.891	
1,700.00	1,698.61	1,698.61	1,698.61	5.75	5.03	-153.94	29.95	83.03	126.72	116.10	10.62	11.933	
1,800.00	1,798.41	1,799.45	1,799.43	6.04	5.22	-154.44	28.33	83.64	132.11	121.10	11.01	12.004	
1,900.00	1,898.20	1,900.33	1,900.17	6.34	5.81	-153.45	23.39	85.48	136.74	125.33	11.41	11.986	
2,000.00	1,998.00	2,001.00	2,000.45	6.64	6.38	-151.11	15.15	88.56	140.78	129.00	11.78	11.955	
2,100.00	2,097.79	2,101.21	2,099.90	6.94	6.92	-147.54	3.67	92.85	144.63	132.53	12.10	11.955	
2,200.00	2,197.59	2,200.72	2,198.18	7.26	7.44	-142.86	-10.94	98.30	148.89	136.51	12.38	12.024	
2,300.00	2,297.38	2,299.30	2,294.94	7.57	7.95	-137.25	-28.56	104.88	154.32	141.66	12.66	12.192	
2,400.00	2,397.18	2,396.74	2,389.89	7.89	8.45	-130.97	-49.03	112.53	161.74	148.77	12.97	12.473	
2,500.00	2,496.97	2,492.82	2,482.74	8.22	8.93	-124.32	-72.17	121.17	171.98	158.62	13.36	12.873	
2,600.00	2,596.77	2,587.38	2,573.25	8.54	9.41	-117.66	-97.77	130.73	185.69	171.84	13.86	13.402	
2,700.00	2,696.57	2,680.24	2,661.22	8.87	9.88	-111.28	-125.63	141.13	203.34	188.89	14.45	14.072	
2,800.00	2,796.36	2,771.25	2,746.46	9.21	10.33	-105.39	-155.51	152.29	225.12	210.00	15.12	14.894	
2,900.00	2,896.16	2,860.31	2,828.84	9.54	10.77	-100.12	-187.19	164.12	251.04	235.22	15.82	15.868	
3,000.00	2,995.95	2,947.30	2,908.26	9.87	11.20	-95.48	-220.43	176.53	280.96	264.42	16.54	16.987	
3,100.00	3,095.75	3,032.13	2,984.64	10.21	11.62	-91.45	-255.01	189.44	314.67	297.42	17.25	18.238	
3,200.00	3,195.54	3,114.75	3,057.94	10.55	12.03	-87.97	-290.71	202.78	351.94	333.99	17.95	19.605	
3,300.00	3,295.34	3,200.00	3,132.39	10.89	12.44	-84.80	-329.61	217.30	392.56	373.85	18.71	20.976	
3,400.00	3,395.13	3,273.18	3,195.29	11.23	12.80	-82.39	-364.64	230.38	436.21	416.93	19.28	22.626	
3,500.00	3,494.93	3,348.94	3,259.39	11.58	13.16	-80.15	-402.48	244.51	482.76	462.86	19.90	24.258	
3,600.00	3,594.72	3,422.39	3,320.49	11.92	13.49	-78.21	-440.68	258.77	532.00	511.53	20.47	25.987	
3,700.00	3,694.52	3,499.30	3,383.44	12.26	13.77	-76.39	-482.05	274.22	583.57	562.54	21.03	27.748	
3,800.00	3,794.31	3,583.07	3,451.85	12.61	14.07	-74.70	-527.35	291.14	635.91	614.22	21.69	29.322	
3,900.00	3,894.11	3,666.85	3,520.26	12.96	14.37	-73.26	-572.66	308.06	688.60	666.25	22.35	30.815	
4,000.00	3,993.90	3,750.63	3,588.67	13.30	14.67	-72.03	-617.97	324.98	741.56	718.56	23.00	32.248	
4,100.00	4,093.70	3,834.41	3,657.08	13.65	15.14	-70.95	-663.28	341.90	794.75	771.03	23.71	33.512	
4,200.00	4,193.49	3,918.19	3,725.48	14.00	15.99	-70.01	-708.59	358.82	848.11	823.76	24.35	34.824	
4,300.00	4,293.29	4,001.97	3,793.89	14.35	16.82	-69.17	-753.90	375.74	901.62	876.60	25.02	36.032	
4,400.00	4,393.08	4,085.74	3,862.30	14.70	17.66	-68.43	-799.21	392.66	955.26	929.56	25.70	37.169	
4,500.00	4,492.88	4,169.52	3,930.71	15.05	18.51	-67.77	-844.52	409.58	1,009.00	982.62	26.38	38.248	
4,600.00	4,592.68	4,253.30	3,999.11	15.40	19.36	-67.17	-889.83	426.49	1,062.83	1,035.76	27.06	39.271	
4,700.00	4,692.47	4,337.08	4,067.52	15.75	20.22	-66.63	-935.14	443.41	1,116.73	1,088.98	27.75	40.242	
4,800.00	4,792.27	4,420.86	4,135.93	16.10	21.08	-66.14	-980.45	460.33	1,170.70	1,142.26	28.44	41.164	
4,900.00	4,892.06	4,504.64	4,204.34	16.45	21.94	-65.69	-1,025.75	477.25	1,224.72	1,195.59	29.13	42.039	
5,000.00	4,991.86	4,588.41	4,272.75	16.81	22.80	-65.28	-1,071.06	494.17	1,278.79	1,248.96	29.83	42.868	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,672.19	4,341.15	17.16	23.67	-64.90	-1,116.37	511.09	1,332.91	1,302.38	30.53	43.656	
5,200.00	5,191.45	4,755.97	4,409.56	17.51	24.54	-64.55	-1,161.68	528.01	1,387.06	1,355.82	31.24	44.406	
5,300.00	5,291.24	4,839.75	4,477.97	17.87	25.41	-64.23	-1,206.99	544.93	1,441.25	1,409.30	31.94	45.120	
5,400.00	5,391.04	4,923.53	4,546.38	18.22	26.29	-63.93	-1,252.30	561.85	1,495.46	1,462.81	32.65	45.800	
5,500.00	5,490.83	5,007.31	4,614.78	18.57	27.16	-63.65	-1,297.61	578.77	1,549.71	1,516.34	33.36	46.448	
5,600.00	5,590.63	5,091.08	4,683.19	18.93	28.04	-63.39	-1,342.92	595.69	1,603.98	1,569.90	34.08	47.065	
5,700.00	5,690.42	5,174.86	4,751.60	19.28	28.92	-63.15	-1,388.23	612.61	1,658.27	1,623.47	34.80	47.653	
5,800.00	5,790.22	5,258.64	4,820.01	19.64	29.79	-62.92	-1,433.54	629.53	1,712.58	1,677.06	35.52	48.215	
5,900.00	5,890.01	5,342.42	4,888.42	19.99	30.68	-62.71	-1,478.85	646.44	1,766.90	1,730.66	36.24	48.752	
6,000.00	5,989.81	5,426.20	4,956.82	20.35	31.56	-62.51	-1,524.15	663.36	1,821.25	1,784.28	36.97	49.265	
6,100.00	6,089.60	10,087.57	7,235.84	20.70	46.27	-124.10	-269.14	1,190.26	1,778.08	1,727.36	50.72	35.057	
6,200.00	6,189.40	10,082.65	7,235.81	21.06	46.25	-123.90	-274.06	1,190.32	1,718.10	1,666.47	51.63	33.275	
6,300.00	6,289.19	10,077.73	7,235.79	21.41	46.22	-123.70	-278.97	1,190.38	1,661.97	1,609.35	52.62	31.583	
6,400.00	6,388.99	10,072.82	7,235.76	21.77	46.20	-123.50	-283.89	1,190.44	1,610.08	1,556.40	53.68	29.995	
6,498.43	6,487.22	10,067.98	7,235.74	22.12	46.17	-123.30	-288.73	1,190.50	1,563.56	1,508.78	54.78	28.543	
6,500.00	6,488.79	10,067.90	7,235.74	22.12	46.17	-125.37	-288.81	1,190.50	1,562.85	1,508.06	54.80	28.521	
6,550.00	6,538.54	10,065.52	7,235.72	22.32	46.16	-158.61	-291.18	1,190.53	1,543.26	1,487.82	55.44	27.837	
6,600.00	6,587.76	10,063.31	7,235.71	22.59	46.15	-168.01	-293.39	1,190.56	1,529.18	1,472.89	56.29	27.167	
6,650.00	6,636.08	10,061.29	7,235.70	22.84	46.14	-172.09	-295.42	1,190.58	1,520.90	1,463.67	57.22	26.578	
6,694.51	6,678.04	10,059.65	7,235.69	23.04	46.13	-174.14	-297.06	1,190.60	1,518.52	1,460.44	58.08	26.145	
6,700.00	6,683.13	10,059.46	7,235.69	23.07	46.13	-174.34	-297.25	1,190.60	1,518.56	1,460.37	58.19	26.099	
6,750.00	6,728.55	10,057.84	7,235.68	23.29	46.12	-175.75	-298.86	1,190.62	1,522.21	1,463.07	59.14	25.739	
6,800.00	6,771.99	10,056.45	7,235.68	23.51	46.12	-176.74	-300.25	1,190.64	1,531.78	1,471.72	60.06	25.504	
6,850.00	6,813.13	10,055.30	7,235.67	23.72	46.11	-177.48	-301.41	1,190.65	1,547.10	1,486.17	60.93	25.393	
6,900.00	6,851.64	10,054.39	7,235.67	23.94	46.11	-178.08	-302.32	1,190.66	1,567.87	1,506.15	61.72	25.403	
6,950.00	6,887.25	10,053.73	7,235.66	24.16	46.10	-178.61	-302.98	1,190.67	1,593.74	1,531.31	62.43	25.527	
7,000.00	6,919.67	10,053.33	7,235.66	24.38	46.10	-179.11	-303.38	1,190.68	1,624.26	1,561.20	63.06	25.757	
7,050.00	6,948.65	10,053.18	7,235.66	24.62	46.10	-179.62	-303.52	1,190.68	1,658.96	1,595.37	63.60	26.086	
7,100.00	6,973.99	10,053.30	7,235.66	24.88	46.10	179.81	-303.41	1,190.68	1,697.32	1,633.28	64.05	26.501	
7,150.00	6,995.49	10,053.68	7,235.66	25.18	46.10	179.11	-303.03	1,190.67	1,738.83	1,674.41	64.41	26.994	
7,200.00	7,012.97	10,054.31	7,235.67	25.51	46.11	178.18	-302.40	1,190.66	1,782.94	1,718.24	64.71	27.555	
7,250.00	7,026.32	10,055.19	7,235.67	25.89	46.11	176.79	-301.51	1,190.65	1,829.16	1,764.24	64.93	28.173	
7,300.00	7,035.43	10,056.32	7,235.68	26.33	46.12	174.42	-300.38	1,190.64	1,876.99	1,811.91	65.09	28.839	
7,350.00	7,040.22	10,057.69	7,235.68	26.84	46.12	169.40	-299.01	1,190.62	1,925.96	1,860.77	65.19	29.544	
7,377.14	7,041.00	10,058.53	7,235.69	27.14	46.13	163.35	-298.18	1,190.61	1,952.85	1,887.63	65.23	29.940	
7,400.00	7,041.12	10,059.26	7,235.69	27.41	46.13	163.16	-297.44	1,190.60	1,975.58	1,910.33	65.25	30.278	
7,500.00	7,041.64	10,062.47	7,235.71	28.77	46.15	162.35	-294.24	1,190.57	2,075.02	2,009.68	65.34	31.757	
7,600.00	7,042.16	10,065.67	7,235.72	30.39	46.16	161.54	-291.03	1,190.53	2,174.50	2,109.08	65.43	33.236	
7,700.00	7,042.67	10,068.88	7,235.74	32.22	46.18	160.74	-287.83	1,190.49	2,274.03	2,208.52	65.51	34.714	
7,800.00	7,043.19	10,072.08	7,235.76	34.20	46.19	159.94	-284.62	1,190.45	2,373.59	2,308.00	65.59	36.190	
7,900.00	7,043.71	10,075.29	7,235.77	36.31	46.21	159.16	-281.42	1,190.41	2,473.18	2,407.52	65.66	37.666	
8,000.00	7,044.23	10,078.49	7,235.79	38.52	46.23	158.38	-278.21	1,190.37	2,572.80	2,507.07	65.73	39.140	
8,100.00	7,044.75	10,081.70	7,235.81	40.80	46.24	157.61	-275.01	1,190.33	2,672.45	2,606.64	65.80	40.613	
8,200.00	7,045.26	10,084.90	7,235.82	43.15	46.26	156.85	-271.80	1,190.30	2,772.11	2,706.24	65.87	42.084	
8,300.00	7,045.78	10,088.11	7,235.84	45.54	46.27	156.10	-268.60	1,190.26	2,871.80	2,805.86	65.94	43.553	
8,400.00	7,046.30	10,091.31	7,235.86	47.97	46.29	155.36	-265.39	1,190.22	2,971.50	2,905.50	66.00	45.020	
8,500.00	7,046.82	10,094.52	7,235.87	50.44	46.31	154.63	-262.19	1,190.18	3,071.22	3,005.15	66.07	46.485	
8,600.00	7,047.34	10,097.72	7,235.89	52.94	46.32	153.90	-258.98	1,190.14	3,170.96	3,104.82	66.13	47.948	
8,700.00	7,047.86	10,100.93	7,235.91	55.46	46.34	153.18	-255.78	1,190.10	3,270.70	3,204.51	66.20	49.408	
8,800.00	7,048.37	10,104.14	7,235.92	58.00	46.36	152.48	-252.57	1,190.06	3,370.46	3,304.20	66.26	50.865	
8,900.00	7,048.89	10,107.34	7,235.94	60.56	46.38	151.78	-249.37	1,190.02	3,470.23	3,403.90	66.33	52.319	
9,000.00	7,049.41	10,110.55	7,235.96	63.13	46.39	151.09	-246.16	1,189.99	3,570.01	3,503.62	66.39	53.770	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	10,113.75	7,235.97	65.72	46.41	150.41	-242.96	1,189.95	3,669.80	3,603.34	66.46	55.218	
9,200.00	7,050.45	10,116.96	7,235.99	68.32	46.43	149.74	-239.75	1,189.91	3,769.60	3,703.07	66.53	56.663	
9,300.00	7,050.97	10,120.16	7,236.01	70.93	46.45	149.08	-236.55	1,189.87	3,869.40	3,802.81	66.59	58.105	
9,400.00	7,051.48	10,123.37	7,236.02	73.55	46.47	148.43	-233.34	1,189.83	3,969.22	3,902.56	66.66	59.544	
9,500.00	7,052.00	10,126.57	7,236.04	76.18	46.48	147.78	-230.14	1,189.79	4,069.04	4,002.31	66.73	60.979	
9,600.00	7,052.52	10,129.78	7,236.06	78.81	46.50	147.15	-226.93	1,189.75	4,168.86	4,102.06	66.80	62.412	
9,700.00	7,053.04	10,132.98	7,236.07	81.46	46.52	146.52	-223.73	1,189.72	4,268.69	4,201.83	66.87	63.840	
9,800.00	7,053.56	10,136.19	7,236.09	84.10	46.54	145.91	-220.52	1,189.68	4,368.53	4,301.59	66.93	65.266	
9,900.00	7,054.08	10,139.39	7,236.11	86.76	46.56	145.30	-217.32	1,189.64	4,468.37	4,401.36	67.00	66.687	
10,000.00	7,054.59	10,142.60	7,236.12	89.42	46.58	144.70	-214.11	1,189.60	4,568.22	4,501.14	67.08	68.105	
10,100.00	7,055.11	10,145.80	7,236.14	92.08	46.59	144.11	-210.91	1,189.56	4,668.07	4,600.92	67.15	69.519	
10,200.00	7,055.63	10,149.01	7,236.16	94.75	46.61	143.53	-207.70	1,189.52	4,767.92	4,700.70	67.22	70.929	
10,300.00	7,056.15	10,152.21	7,236.17	97.42	46.63	142.96	-204.50	1,189.48	4,867.78	4,800.49	67.29	72.335	
10,400.00	7,056.67	10,155.42	7,236.19	100.10	46.65	142.40	-201.29	1,189.44	4,967.64	4,900.27	67.37	73.738	
10,500.00	7,057.18	10,158.63	7,236.21	102.78	46.67	141.84	-198.09	1,189.41	5,067.51	5,000.06	67.44	75.136	
10,600.00	7,057.70	10,161.83	7,236.22	105.46	46.69	141.30	-194.88	1,189.37	5,167.38	5,099.86	67.52	76.529	
10,700.00	7,058.22	10,165.04	7,236.24	108.14	46.70	140.76	-191.68	1,189.33	5,267.25	5,199.65	67.60	77.919	
10,800.00	7,058.74	10,168.24	7,236.26	110.83	46.72	140.23	-188.47	1,189.29	5,367.12	5,299.45	67.68	79.304	
10,900.00	7,059.26	10,171.45	7,236.27	113.52	46.74	139.71	-185.27	1,189.25	5,467.00	5,399.24	67.76	80.685	
11,000.00	7,059.78	10,174.65	7,236.29	116.21	46.76	139.19	-182.06	1,189.21	5,566.88	5,499.04	67.84	82.062	
11,100.00	7,060.29	10,177.86	7,236.31	118.90	46.78	138.69	-178.86	1,189.17	5,666.76	5,598.84	67.92	83.434	
11,200.00	7,060.81	10,181.06	7,236.32	121.60	46.80	138.19	-175.65	1,189.14	5,766.65	5,698.65	68.00	84.802	
11,300.00	7,061.33	10,184.27	7,236.34	124.30	46.82	137.70	-172.45	1,189.10	5,866.53	5,798.45	68.09	86.164	
11,400.00	7,061.85	10,187.47	7,236.35	127.00	46.83	137.21	-169.24	1,189.06	5,966.42	5,898.25	68.17	87.523	
11,500.00	7,062.37	5,331.67	4,879.64	129.70	30.56	-27.56	-1,473.03	644.27	6,061.71	6,001.44	60.27	100.575	
11,600.00	7,062.89	5,310.82	4,862.61	132.40	30.34	-27.14	-1,461.76	640.06	6,153.42	6,093.30	60.12	102.358	
11,700.00	7,063.40	5,289.97	4,845.59	135.10	30.12	-26.73	-1,450.48	635.85	6,245.31	6,185.36	59.96	104.165	
11,800.00	7,063.92	5,269.13	4,828.57	137.81	29.91	-26.32	-1,439.21	631.64	6,337.38	6,277.60	59.79	105.998	
11,900.00	7,064.44	5,248.28	4,811.55	140.51	29.69	-25.91	-1,427.93	627.43	6,429.63	6,370.01	59.61	107.856	
12,000.00	7,064.96	5,227.43	4,794.52	143.22	29.47	-25.51	-1,416.66	623.22	6,522.03	6,462.60	59.43	109.739	
12,100.00	7,065.48	5,206.58	4,777.50	145.93	29.25	-25.11	-1,405.38	619.01	6,614.59	6,555.34	59.25	111.647	
12,200.00	7,066.00	5,185.74	4,760.48	148.64	29.03	-24.71	-1,394.11	614.80	6,707.29	6,648.24	59.05	113.579	
12,300.00	7,066.51	5,164.89	4,743.46	151.35	28.81	-24.31	-1,382.83	610.59	6,800.14	6,741.29	58.86	115.536	
12,400.00	7,067.03	5,144.04	4,726.43	154.06	28.59	-23.92	-1,371.56	606.38	6,893.13	6,834.48	58.66	117.517	
12,500.00	7,067.55	5,123.19	4,709.41	156.77	28.37	-23.54	-1,360.28	602.17	6,986.25	6,927.80	58.45	119.523	
12,600.00	7,068.07	5,102.35	4,692.39	159.49	28.16	-23.15	-1,349.01	597.96	7,079.50	7,021.25	58.24	121.554	
12,700.00	7,068.59	5,081.50	4,675.36	162.20	27.94	-22.77	-1,337.73	593.75	7,172.86	7,114.83	58.03	123.608	
12,800.00	7,069.11	5,060.65	4,658.34	164.92	27.72	-22.39	-1,326.46	589.54	7,266.34	7,208.53	57.81	125.686	
12,900.00	7,069.62	5,039.80	4,641.32	167.63	27.50	-22.02	-1,315.18	585.33	7,359.94	7,302.35	57.59	127.789	
13,000.00	7,070.14	5,018.96	4,624.30	170.35	27.28	-21.65	-1,303.91	581.12	7,453.64	7,396.27	57.37	129.915	
13,100.00	7,070.66	4,998.11	4,607.27	173.07	27.06	-21.28	-1,292.63	576.91	7,547.45	7,490.30	57.15	132.066	
13,200.00	7,071.18	4,977.26	4,590.25	175.78	26.85	-20.92	-1,281.36	572.70	7,641.36	7,584.43	56.92	134.239	
13,300.00	7,071.70	4,956.41	4,573.23	178.50	26.63	-20.56	-1,270.09	568.49	7,735.36	7,678.67	56.70	136.435	
13,400.00	7,072.21	4,935.56	4,556.21	181.22	26.41	-20.20	-1,258.81	564.28	7,829.46	7,772.99	56.47	138.656	
13,500.00	7,072.73	4,914.72	4,539.18	183.94	26.19	-19.85	-1,247.54	560.07	7,923.65	7,867.41	56.24	140.900	
13,600.00	7,073.25	4,893.87	4,522.16	186.66	25.98	-19.50	-1,236.26	555.86	8,017.92	7,961.92	56.00	143.167	
13,700.00	7,073.77	4,873.02	4,505.14	189.38	25.76	-19.15	-1,224.99	551.65	8,112.28	8,056.51	55.77	145.456	
13,800.00	7,074.29	4,852.17	4,488.12	192.10	25.54	-18.80	-1,213.71	547.44	8,206.71	8,151.18	55.54	147.768	
13,900.00	7,074.81	4,831.33	4,471.09	194.82	25.32	-18.46	-1,202.44	543.23	8,301.23	8,245.93	55.30	150.103	
14,000.00	7,075.32	4,810.48	4,454.07	197.54	25.11	-18.13	-1,191.16	539.02	8,395.82	8,340.75	55.07	152.461	
14,100.00	7,075.84	4,789.63	4,437.05	200.27	24.89	-17.79	-1,179.89	534.81	8,490.49	8,435.65	54.83	154.841	
14,200.00	7,076.36	4,768.78	4,420.02	202.99	24.67	-17.46	-1,168.61	530.60	8,585.22	8,530.62	54.60	157.241	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,300.00	7,076.88	4,747.94	4,403.00	205.71	24.46	-17.13	-1,157.34	526.39	8,680.02	8,625.66	54.36	159.664	
14,400.00	7,077.40	4,727.09	4,385.98	208.44	24.24	-16.81	-1,146.06	522.18	8,774.89	8,720.76	54.13	162.108	
14,500.00	7,077.92	4,706.24	4,368.96	211.16	24.02	-16.48	-1,134.79	517.97	8,869.82	8,815.93	53.90	164.575	
14,600.00	7,078.43	4,685.39	4,351.93	213.88	23.81	-16.16	-1,123.51	513.76	8,964.81	8,911.15	53.66	167.060	
14,700.00	7,078.95	4,664.55	4,334.91	216.61	23.59	-15.85	-1,112.24	509.55	9,059.87	9,006.44	53.43	169.566	
14,800.00	7,079.47	4,643.70	4,317.89	219.33	23.37	-15.53	-1,100.96	505.34	9,154.98	9,101.78	53.20	172.093	
14,900.00	7,079.99	4,622.85	4,300.87	222.06	23.16	-15.22	-1,089.69	501.13	9,250.15	9,197.18	52.97	174.640	
15,000.00	7,080.51	4,602.00	4,283.84	224.78	22.94	-14.92	-1,078.41	496.92	9,345.37	9,292.63	52.74	177.208	
15,100.00	7,081.03	4,581.16	4,266.82	227.51	22.73	-14.61	-1,067.14	492.71	9,440.64	9,388.13	52.51	179.792	
15,200.00	7,081.54	4,560.31	4,249.80	230.24	22.51	-14.31	-1,055.86	488.50	9,535.97	9,483.69	52.28	182.395	
15,300.00	7,082.06	4,539.46	4,232.77	232.96	22.30	-14.01	-1,044.59	484.29	9,631.34	9,579.29	52.06	185.017	
15,400.00	7,082.58	4,518.61	4,215.75	235.69	22.08	-13.72	-1,033.31	480.08	9,726.77	9,674.94	51.83	187.659	
15,500.00	7,083.10	4,497.77	4,198.73	238.41	21.87	-13.42	-1,022.04	475.87	9,822.24	9,770.63	51.61	190.318	
15,600.00	7,083.62	4,476.92	4,181.71	241.14	21.65	-13.13	-1,010.76	471.66	9,917.75	9,866.36	51.39	192.991	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HNA-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	68.90	37.37	96.85	103.82				
100.00	100.00	99.00	99.00	0.48	0.48	68.90	37.37	96.85	103.81	102.85	0.96	108.096	
200.00	200.00	199.00	199.00	1.28	1.27	68.90	37.37	96.85	103.81	101.25	2.56	40.605	
300.00	300.00	299.00	299.00	1.77	1.76	68.90	37.37	96.85	103.81	100.28	3.53	29.389	
400.00	400.00	399.00	399.00	2.15	2.15	68.90	37.37	96.85	103.81	99.51	4.30	24.158	
500.00	500.00	499.00	499.00	2.48	2.47	68.90	37.37	96.85	103.81	98.86	4.95	20.970	
600.00	600.00	599.00	599.00	2.77	2.76	68.90	37.37	96.85	103.81	98.28	5.53	18.766	
700.00	700.00	699.00	699.00	3.03	3.03	68.90	37.37	96.85	103.81	97.75	6.06	17.125	
800.00	800.00	799.00	799.00	3.28	3.28	68.90	37.37	96.85	103.81	97.26	6.55	15.841	
900.00	900.00	899.00	899.00	3.51	3.51	68.90	37.37	96.85	103.81	96.80	7.01	14.800 CC, ES	
1,000.00	999.98	998.98	998.98	3.78	3.72	-142.82	37.37	96.85	105.20	97.72	7.48	14.064	
1,083.35	1,083.22	1,082.22	1,082.22	4.28	3.90	-144.09	37.37	96.85	108.51	100.48	8.03	13.515	
1,100.00	1,099.84	1,098.84	1,098.84	4.29	3.93	-144.42	37.37	96.85	109.37	101.30	8.07	13.545	
1,200.00	1,199.64	1,198.64	1,198.64	4.47	4.13	-146.28	37.37	96.85	114.64	106.18	8.46	13.550	
1,300.00	1,299.43	1,298.43	1,298.43	4.70	4.32	-147.97	37.37	96.85	120.01	111.14	8.88	13.516	
1,400.00	1,399.23	1,398.23	1,398.23	4.95	4.51	-149.52	37.37	96.85	125.49	116.18	9.30	13.487	
1,500.00	1,499.02	1,498.02	1,498.02	5.20	4.68	-150.94	37.37	96.85	131.04	121.31	9.73	13.461	
1,600.00	1,598.82	1,597.82	1,597.82	5.47	4.86	-152.24	37.37	96.85	136.67	126.50	10.17	13.438 SF	
1,700.00	1,698.61	1,698.19	1,698.17	5.75	5.05	-152.77	35.85	97.56	142.16	131.61	10.55	13.475	
1,800.00	1,798.41	1,798.57	1,798.42	6.04	5.66	-151.90	31.15	99.77	147.28	136.34	10.94	13.467	
1,900.00	1,898.20	1,898.73	1,898.19	6.34	6.24	-149.78	23.29	103.46	152.17	140.87	11.30	13.467	
2,000.00	1,998.00	1,998.40	1,997.12	6.64	6.79	-146.54	12.34	108.60	157.20	145.56	11.64	13.505	
2,100.00	2,097.79	2,097.36	2,094.86	6.94	7.32	-142.32	-1.61	115.14	162.90	150.93	11.97	13.612	
2,200.00	2,197.59	2,195.37	2,191.10	7.26	7.83	-137.32	-18.43	123.03	169.94	157.63	12.31	13.805	
2,300.00	2,297.38	2,292.24	2,285.52	7.57	8.33	-131.78	-37.97	132.20	179.01	166.31	12.70	14.096	
2,400.00	2,397.18	2,387.75	2,377.86	7.89	8.82	-125.95	-60.06	142.56	190.80	177.64	13.16	14.496	
2,500.00	2,496.97	2,481.74	2,467.88	8.22	9.30	-120.12	-84.50	154.03	205.87	192.16	13.71	15.020	
2,600.00	2,596.77	2,574.03	2,555.37	8.54	9.77	-114.50	-111.10	166.50	224.59	210.27	14.32	15.685	
2,700.00	2,696.57	2,664.50	2,640.17	8.87	10.23	-109.28	-139.62	179.89	247.15	232.17	14.98	16.501	
2,800.00	2,796.36	2,753.01	2,722.13	9.21	10.67	-104.54	-169.87	194.08	273.60	257.94	15.66	17.471	
2,900.00	2,896.16	2,839.47	2,801.16	9.54	11.10	-100.31	-201.61	208.97	303.83	287.49	16.35	18.587	
3,000.00	2,995.95	2,923.79	2,877.18	9.87	11.52	-96.58	-234.63	224.46	337.71	320.68	17.02	19.837	
3,100.00	3,095.75	3,005.92	2,950.16	10.21	11.93	-93.31	-268.73	240.46	375.03	357.34	17.69	21.205	
3,200.00	3,195.54	3,085.81	3,020.09	10.55	12.32	-90.46	-303.70	256.86	415.58	397.25	18.33	22.674	
3,300.00	3,295.34	3,163.43	3,086.97	10.89	12.69	-87.97	-339.36	273.59	459.18	440.23	18.95	24.233	
3,400.00	3,395.13	3,238.76	3,150.84	11.23	13.06	-85.79	-375.52	290.56	505.62	486.08	19.54	25.872	
3,500.00	3,494.93	3,311.81	3,211.75	11.58	13.41	-83.89	-412.03	307.68	554.73	534.61	20.11	27.579	
3,600.00	3,594.72	3,382.59	3,269.76	11.92	13.74	-82.21	-448.73	324.90	606.33	585.67	20.66	29.345	
3,700.00	3,694.52	3,451.12	3,324.96	12.26	14.06	-80.74	-485.49	342.15	660.28	639.09	21.19	31.164	
3,800.00	3,794.31	3,518.55	3,378.33	12.61	14.36	-79.41	-522.81	359.66	716.42	694.75	21.68	33.047	
3,900.00	3,894.11	3,599.12	3,441.59	12.96	14.64	-78.00	-567.97	380.84	773.66	751.37	22.30	34.697	
4,000.00	3,993.90	3,679.69	3,504.86	13.30	14.93	-76.78	-613.13	402.03	831.18	808.27	22.91	36.272	
4,100.00	4,093.70	3,760.25	3,568.13	13.65	15.75	-75.72	-658.29	423.22	888.93	865.35	23.58	37.700	
4,200.00	4,193.49	3,840.82	3,631.40	14.00	16.64	-74.78	-703.44	444.40	946.85	922.65	24.20	39.122	
4,300.00	4,293.29	3,921.39	3,694.67	14.35	17.53	-73.95	-748.60	465.59	1,004.94	980.10	24.84	40.457	
4,400.00	4,393.08	4,001.95	3,757.94	14.70	18.43	-73.21	-793.76	486.77	1,063.15	1,037.66	25.48	41.721	
4,500.00	4,492.88	4,082.52	3,821.21	15.05	19.32	-72.54	-838.92	507.96	1,121.46	1,095.33	26.13	42.912	
4,600.00	4,592.68	4,163.09	3,884.47	15.40	20.23	-71.94	-884.08	529.14	1,179.87	1,153.08	26.79	44.044	
4,700.00	4,692.47	4,243.65	3,947.74	15.75	21.13	-71.39	-929.23	550.33	1,238.36	1,210.91	27.45	45.120	
4,800.00	4,792.27	4,324.22	4,011.01	16.10	22.04	-70.90	-974.39	571.52	1,296.91	1,268.80	28.11	46.141	
4,900.00	4,892.06	4,404.79	4,074.28	16.45	22.96	-70.44	-1,019.55	592.70	1,355.53	1,326.75	28.77	47.112	
5,000.00	4,991.86	4,485.35	4,137.55	16.81	23.87	-70.02	-1,064.71	613.89	1,414.19	1,384.75	29.44	48.032	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HNA-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,565.92	4,200.82	17.16	24.79	-69.64	-1,109.87	635.07	1,472.90	1,442.79	30.12	48.907	
5,200.00	5,191.45	4,646.49	4,264.09	17.51	25.71	-69.29	-1,155.02	656.26	1,531.66	1,500.86	30.79	49.739	
5,300.00	5,291.24	4,727.05	4,327.35	17.87	26.64	-68.96	-1,200.18	677.44	1,590.44	1,558.97	31.47	50.532	
5,400.00	5,391.04	4,807.62	4,390.62	18.22	27.56	-68.65	-1,245.34	698.63	1,649.27	1,617.11	32.16	51.288	
5,500.00	5,490.83	4,888.19	4,453.89	18.57	28.49	-68.37	-1,290.50	719.82	1,708.11	1,675.27	32.84	52.007	
5,600.00	5,590.63	4,968.75	4,517.16	18.93	29.42	-68.10	-1,335.66	741.00	1,766.99	1,733.46	33.53	52.692	
5,700.00	5,690.42	5,049.32	4,580.43	19.28	30.35	-67.85	-1,380.81	762.19	1,825.89	1,791.66	34.23	53.346	
5,800.00	5,790.22	5,129.89	4,643.70	19.64	31.28	-67.62	-1,425.97	783.37	1,884.81	1,849.89	34.92	53.971	
5,900.00	5,890.01	5,210.45	4,706.96	19.99	32.21	-67.40	-1,471.13	804.56	1,943.75	1,908.13	35.62	54.568	
6,000.00	5,989.81	5,291.02	4,769.47	20.35	33.14	-67.17	-1,516.30	825.75	1,998.63	1,962.01	36.31	55.165	
6,100.00	6,089.60	5,371.59	4,832.98	20.70	34.07	-66.94	-1,561.47	846.94	2,053.51	2,017.89	37.00	55.762	
6,200.00	6,189.40	5,452.16	4,896.49	21.06	35.00	-66.71	-1,606.64	868.13	2,108.39	2,072.77	37.69	56.359	
6,300.00	6,289.19	5,532.73	4,960.00	21.41	35.93	-66.48	-1,651.81	889.32	2,163.27	2,127.65	38.38	56.956	
6,400.00	6,388.99	5,613.30	5,023.51	21.77	36.86	-66.25	-1,696.98	910.51	2,218.15	2,182.53	39.07	57.553	
6,498.43	6,487.22	5,693.87	5,087.02	22.12	37.79	-66.02	-1,742.15	931.70	2,269.03	2,237.41	39.76	58.150	
6,500.00	6,488.79	5,714.35	5,108.54	22.12	38.72	-65.79	-1,787.32	952.89	2,319.91	2,288.29	40.45	58.747	
6,550.00	6,538.54	5,794.92	5,172.05	22.32	39.65	-65.56	-1,832.49	974.08	2,370.79	2,339.17	41.14	59.344	
6,599.48	6,587.26	5,875.49	5,235.56	22.59	40.58	-65.33	-1,877.66	995.27	2,421.67	2,390.05	41.83	59.941	
6,600.00	6,587.76	5,896.01	5,256.08	22.59	41.51	-65.10	-1,922.83	1,016.46	2,472.55	2,440.93	42.52	60.538	
6,650.00	6,636.08	5,976.58	5,319.59	22.84	42.44	-64.87	-1,967.99	1,037.65	2,523.43	2,491.81	43.21	61.135	
6,700.00	6,683.13	6,057.15	5,383.10	23.07	43.37	-64.64	-2,013.16	1,058.84	2,574.31	2,542.69	43.90	61.732	
6,750.00	6,728.55	6,137.72	5,446.61	23.29	44.30	-64.41	-2,058.33	1,079.03	2,625.19	2,593.57	44.59	62.329	
6,800.00	6,771.99	6,218.29	5,510.12	23.51	45.23	-64.18	-2,103.50	1,100.22	2,676.07	2,644.45	45.28	62.926	
6,850.00	6,813.13	6,298.86	5,573.63	23.72	46.16	-63.95	-2,148.67	1,121.41	2,726.95	2,695.33	45.97	63.523	
6,900.00	6,851.64	6,379.43	5,637.14	23.94	47.09	-63.72	-2,193.84	1,142.60	2,777.83	2,746.21	46.66	64.120	
6,950.00	6,887.25	6,459.00	5,699.65	24.16	48.02	-63.49	-2,239.01	1,163.79	2,828.71	2,797.09	47.35	64.717	
7,000.00	6,919.67	6,539.57	5,762.16	24.38	48.95	-63.26	-2,284.18	1,184.98	2,879.59	2,847.97	48.04	65.314	
7,050.00	6,948.65	6,619.14	5,824.67	24.62	49.88	-63.03	-2,329.35	1,206.17	2,930.47	2,898.85	48.73	65.911	
7,100.00	6,973.99	6,699.71	5,887.18	24.88	50.81	-62.80	-2,374.52	1,227.36	2,981.35	2,949.73	49.42	66.508	
7,150.00	6,995.49	6,780.28	5,949.69	25.18	51.74	-62.57	-2,419.69	1,248.55	3,032.23	3,000.61	50.11	67.105	
7,200.00	7,012.97	6,860.85	6,012.20	25.51	52.67	-62.34	-2,464.86	1,269.74	3,083.11	3,051.49	50.80	67.702	
7,250.00	7,026.32	6,941.42	6,074.71	25.89	53.60	-62.11	-2,509.03	1,290.93	3,134.00	3,102.37	51.49	68.299	
7,300.00	7,035.43	7,021.99	6,137.22	26.33	54.53	-61.88	-2,554.20	1,312.12	3,184.88	3,153.25	52.18	68.896	
7,350.00	7,040.22	7,102.56	6,200.73	26.84	55.46	-61.65	-2,599.37	1,333.31	3,235.77	3,204.13	52.87	69.493	
7,377.14	7,041.00	7,183.13	6,264.24	27.14	56.39	-61.42	-2,644.54	1,354.50	3,286.65	3,255.01	53.56	70.090	
7,400.00	7,041.12	7,263.70	6,327.75	27.41	57.32	-61.19	-2,689.71	1,375.69	3,337.53	3,305.89	54.25	70.687	
7,500.00	7,041.64	7,344.27	6,391.26	28.77	58.25	-60.96	-2,734.88	1,396.88	3,388.41	3,356.77	54.94	71.284	
7,600.00	7,042.16	7,424.84	6,454.77	30.39	59.18	-60.73	-2,779.05	1,418.07	3,439.29	3,407.65	55.63	71.881	
7,700.00	7,042.67	7,505.41	6,518.28	32.22	60.11	-60.50	-2,823.22	1,439.26	3,490.17	3,458.53	56.32	72.478	
7,800.00	7,043.19	7,585.98	6,581.79	34.20	61.04	-60.27	-2,867.39	1,460.45	3,541.05	3,509.41	57.01	73.075	
7,900.00	7,043.71	7,666.55	6,645.30	36.31	62.00	-60.04	-2,911.56	1,481.64	3,591.93	3,560.29	57.70	73.672	
8,000.00	7,044.23	7,747.12	6,708.81	38.52	62.93	-59.81	-2,955.73	1,502.83	3,642.81	3,611.17	58.39	74.269	
8,100.00	7,044.75	7,827.69	6,772.32	40.80	63.86	-59.58	-3,000.00	1,524.02	3,693.69	3,662.05	59.08	74.866	
8,200.00	7,045.26	7,908.26	6,835.83	43.15	64.79	-59.35	-3,044.17	1,545.21	3,744.57	3,712.93	59.77	75.463	
8,300.00	7,045.78	7,988.83	6,899.34	45.54	65.72	-59.12	-3,088.34	1,566.40	3,795.45	3,763.81	60.46	76.060	
8,400.00	7,046.30	8,069.40	6,962.85	47.97	66.65	-58.89	-3,132.51	1,587.59	3,846.33	3,814.69	61.15	76.657	
8,500.00	7,046.82	8,149.97	7,026.36	50.44	67.58	-58.66	-3,176.68	1,608.78	3,897.21	3,865.57	61.84	77.254	
8,600.00	7,047.34	8,230.54	7,089.87	52.94	68.51	-58.43	-3,220.85	1,629.97	3,948.09	3,916.45	62.53	77.851	
8,700.00	7,047.86	8,311.11	7,153.38	55.46	69.44	-58.20	-3,265.02	1,651.16	3,998.97	3,967.33	63.22	78.448	
8,800.00	7,048.37	8,391.68	7,217.89	58.00	70.37	-57.97	-3,309.19	1,672.35	4,049.85	4,018.21	63.91	79.045	
8,900.00	7,048.89	8,472.25	7,282.40	60.56	71.30	-57.74	-3,353.36	1,693.54	4,100.73	4,069.09	64.60	79.642	
9,000.00	7,049.41	8,552.82	7,346.91	63.13	72.23	-57.51	-3,397.53	1,714.73	4,151.61	4,119.97	65.29	80.239	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HNA-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,959.57	6,952.04	65.72	48.85	59.09	-238.63	1,518.13	3,994.47	3,926.34	68.13	58.629	
9,200.00	7,050.45	9,962.75	6,952.05	68.32	48.86	59.72	-235.45	1,518.09	4,094.40	4,026.23	68.17	60.061	
9,300.00	7,050.97	9,965.93	6,952.07	70.93	48.87	60.32	-232.28	1,518.06	4,194.33	4,126.12	68.21	61.491	
9,400.00	7,051.48	9,969.10	6,952.09	73.55	48.89	60.90	-229.10	1,518.02	4,294.27	4,226.01	68.25	62.917	
9,500.00	7,052.00	9,972.28	6,952.10	76.18	48.90	61.46	-225.92	1,517.98	4,394.20	4,325.90	68.30	64.339	
9,600.00	7,052.52	9,975.46	6,952.12	78.81	48.91	62.00	-222.74	1,517.94	4,494.13	4,425.79	68.34	65.758	
9,700.00	7,053.04	9,978.64	6,952.13	81.46	48.93	62.52	-219.56	1,517.91	4,594.07	4,525.68	68.39	67.174	
9,800.00	7,053.56	9,981.82	6,952.15	84.10	48.94	63.03	-216.39	1,517.87	4,694.01	4,625.56	68.44	68.585	
9,900.00	7,054.08	9,984.99	6,952.17	86.76	48.95	63.52	-213.21	1,517.83	4,793.94	4,725.45	68.49	69.993	
10,000.00	7,054.59	9,988.17	6,952.18	89.42	48.97	63.99	-210.03	1,517.79	4,893.88	4,825.33	68.54	71.397	
10,100.00	7,055.11	9,991.35	6,952.20	92.08	48.98	64.45	-206.85	1,517.76	4,993.82	4,925.22	68.60	72.797	
10,200.00	7,055.63	9,994.53	6,952.22	94.75	48.99	64.89	-203.68	1,517.72	5,093.75	5,025.10	68.66	74.193	
10,300.00	7,056.15	9,997.71	6,952.23	97.42	49.01	65.32	-200.50	1,517.68	5,193.69	5,124.98	68.71	75.584	
10,400.00	7,056.67	5,172.04	4,676.80	100.10	31.77	-24.99	-1,449.60	794.46	5,286.76	5,230.32	56.45	93.661	
10,500.00	7,057.18	5,145.04	4,655.60	102.78	31.46	-24.50	-1,434.47	787.36	5,374.01	5,317.70	56.31	95.433	
10,600.00	7,057.70	5,118.04	4,634.39	105.46	31.14	-24.01	-1,419.33	780.26	5,461.56	5,405.39	56.16	97.245	
10,700.00	7,058.22	5,091.04	4,613.19	108.14	30.83	-23.52	-1,404.20	773.16	5,549.40	5,493.40	56.00	99.096	
10,800.00	7,058.74	5,064.03	4,591.98	110.83	30.52	-23.04	-1,389.06	766.06	5,637.51	5,581.68	55.82	100.986	
10,900.00	7,059.26	5,037.03	4,570.78	113.52	30.21	-22.57	-1,373.93	758.96	5,725.89	5,670.25	55.64	102.915	
11,000.00	7,059.78	5,010.03	4,549.57	116.21	29.90	-22.10	-1,358.79	751.86	5,814.52	5,759.08	55.44	104.883	
11,100.00	7,060.29	4,983.03	4,528.37	118.90	29.58	-21.63	-1,343.66	744.75	5,903.38	5,848.16	55.23	106.889	
11,200.00	7,060.81	4,956.03	4,507.16	121.60	29.27	-21.17	-1,328.52	737.65	5,992.48	5,937.47	55.01	108.933	
11,300.00	7,061.33	4,929.02	4,485.96	124.30	28.96	-20.72	-1,313.39	730.55	6,081.80	6,027.02	54.78	111.017	
11,400.00	7,061.85	4,902.02	4,464.76	127.00	28.65	-20.27	-1,298.25	723.45	6,171.33	6,116.78	54.55	113.139	
11,500.00	7,062.37	4,875.02	4,443.55	129.70	28.34	-19.82	-1,283.12	716.35	6,261.05	6,206.75	54.30	115.298	
11,600.00	7,062.89	4,848.02	4,422.35	132.40	28.03	-19.38	-1,267.98	709.25	6,350.97	6,296.92	54.05	117.496	
11,700.00	7,063.40	4,821.01	4,401.14	135.10	27.72	-18.94	-1,252.85	702.15	6,441.08	6,387.28	53.80	119.733	
11,800.00	7,063.92	4,794.01	4,379.94	137.81	27.41	-18.51	-1,237.71	695.05	6,531.36	6,477.82	53.53	122.008	
11,900.00	7,064.44	4,767.01	4,358.73	140.51	27.10	-18.08	-1,222.58	687.95	6,621.80	6,568.54	53.26	124.319	
12,000.00	7,064.96	4,740.01	4,337.53	143.22	26.79	-17.66	-1,207.44	680.85	6,712.42	6,659.42	52.99	126.668	
12,100.00	7,065.48	4,713.00	4,316.32	145.93	26.48	-17.24	-1,192.31	673.75	6,803.18	6,750.47	52.71	129.056	
12,200.00	7,066.00	4,686.00	4,295.12	148.64	26.17	-16.83	-1,177.17	666.65	6,894.10	6,841.66	52.43	131.481	
12,300.00	7,066.51	4,659.00	4,273.91	151.35	25.86	-16.42	-1,162.04	659.55	6,985.16	6,933.01	52.15	133.942	
12,400.00	7,067.03	4,632.00	4,252.71	154.06	25.55	-16.02	-1,146.90	652.45	7,076.36	7,024.49	51.86	136.441	
12,500.00	7,067.55	4,604.99	4,231.50	156.77	25.24	-15.62	-1,131.77	645.35	7,167.69	7,116.12	51.57	138.978	
12,600.00	7,068.07	4,577.99	4,210.30	159.49	24.93	-15.22	-1,116.63	638.25	7,259.15	7,207.87	51.28	141.549	
12,700.00	7,068.59	4,550.99	4,189.09	162.20	24.62	-14.83	-1,101.50	631.15	7,350.73	7,299.74	50.99	144.156	
12,800.00	7,069.11	4,523.99	4,167.89	164.92	24.31	-14.45	-1,086.36	624.05	7,442.44	7,391.74	50.70	146.801	
12,900.00	7,069.62	4,496.98	4,146.68	167.63	24.01	-14.07	-1,071.23	616.95	7,534.25	7,483.85	50.40	149.482	
13,000.00	7,070.14	4,469.98	4,125.48	170.35	23.70	-13.69	-1,056.09	609.85	7,626.18	7,576.07	50.11	152.195	
13,100.00	7,070.66	4,442.98	4,104.27	173.07	23.39	-13.32	-1,040.96	602.74	7,718.21	7,668.40	49.81	154.943	
13,200.00	7,071.18	4,415.98	4,083.07	175.78	23.08	-12.95	-1,025.82	595.64	7,810.35	7,760.83	49.52	157.728	
13,300.00	7,071.70	4,388.98	4,061.86	178.50	22.78	-12.58	-1,010.69	588.54	7,902.58	7,853.36	49.22	160.544	
13,400.00	7,072.21	4,361.97	4,040.66	181.22	22.47	-12.22	-995.55	581.44	7,994.91	7,945.98	48.93	163.392	
13,500.00	7,072.73	4,334.97	4,019.45	183.94	22.16	-11.87	-980.42	574.34	8,087.33	8,038.70	48.64	166.273	
13,600.00	7,073.25	4,307.97	3,998.25	186.66	21.86	-11.51	-965.28	567.24	8,179.85	8,131.50	48.35	169.189	
13,700.00	7,073.77	4,280.97	3,977.04	189.38	21.55	-11.17	-950.15	560.14	8,272.44	8,224.38	48.06	172.131	
13,800.00	7,074.29	4,253.96	3,955.84	192.10	21.25	-10.82	-935.01	553.04	8,365.12	8,317.35	47.77	175.102	
13,900.00	7,074.81	4,226.96	3,934.63	194.82	20.94	-10.48	-919.88	545.94	8,457.88	8,410.40	47.49	178.105	
14,000.00	7,075.32	4,199.96	3,913.43	197.54	20.64	-10.14	-904.74	538.84	8,550.72	8,503.52	47.21	181.139	
14,100.00	7,075.84	4,172.96	3,892.23	200.27	20.34	-9.81	-889.61	531.74	8,643.64	8,596.71	46.93	184.192	
14,200.00	7,076.36	4,145.95	3,871.02	202.99	20.03	-9.48	-874.47	524.64	8,736.63	8,689.97	46.65	187.273	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HNA-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	4,118.95	3,849.82	205.71	19.73	-9.16	-859.34	517.54	8,829.68	8,783.31	46.38	190.383	
14,400.00	7,077.40	4,091.95	3,828.61	208.44	19.43	-8.84	-844.20	510.44	8,922.81	8,876.70	46.11	193.515	
14,500.00	7,077.92	4,064.95	3,807.41	211.16	19.13	-8.52	-829.07	503.34	9,016.00	8,970.16	45.85	196.663	
14,600.00	7,078.43	4,037.94	3,786.20	213.88	18.82	-8.21	-813.93	496.24	9,109.26	9,063.68	45.58	199.835	
14,700.00	7,078.95	4,010.94	3,765.00	216.61	18.52	-7.90	-798.80	489.14	9,202.58	9,157.26	45.33	203.031	
14,800.00	7,079.47	3,983.94	3,743.79	219.33	18.22	-7.59	-783.66	482.04	9,295.96	9,250.89	45.07	206.239	
14,900.00	7,079.99	3,956.94	3,722.59	222.06	17.92	-7.29	-768.53	474.94	9,389.40	9,344.57	44.83	209.460	
15,000.00	7,080.51	3,929.93	3,701.38	224.78	17.63	-6.99	-753.39	467.84	9,482.90	9,438.31	44.58	212.702	
15,100.00	7,081.03	3,902.93	3,680.18	227.51	17.33	-6.69	-738.26	460.73	9,576.45	9,532.10	44.34	215.962	
15,200.00	7,081.54	3,875.93	3,658.97	230.24	17.03	-6.40	-723.12	453.63	9,670.05	9,625.94	44.11	219.216	
15,300.00	7,082.06	3,848.93	3,637.77	232.96	16.73	-6.11	-707.99	446.53	9,763.71	9,719.82	43.88	222.484	
15,400.00	7,082.58	3,821.93	3,616.56	235.69	16.44	-5.82	-692.85	439.43	9,857.42	9,813.76	43.66	225.768	
15,500.00	7,083.10	3,794.92	3,595.36	238.41	16.14	-5.54	-677.72	432.33	9,951.17	9,907.73	43.44	229.056	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HNC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	70.05	41.18	113.48	120.72				
100.00	100.00	99.00	99.00	0.48	0.48	70.05	41.18	113.48	120.72	119.76	0.96	125.702	
200.00	200.00	199.00	199.00	1.28	1.27	70.05	41.18	113.48	120.72	118.16	2.56	47.218	
300.00	300.00	299.00	299.00	1.77	1.76	70.05	41.18	113.48	120.72	117.19	3.53	34.176	
400.00	400.00	399.00	399.00	2.15	2.15	70.05	41.18	113.48	120.72	116.42	4.30	28.092	
500.00	500.00	499.00	499.00	2.48	2.47	70.05	41.18	113.48	120.72	115.77	4.95	24.385	
600.00	600.00	599.00	599.00	2.77	2.76	70.05	41.18	113.48	120.72	115.19	5.53	21.823	
700.00	700.00	699.00	699.00	3.03	3.03	70.05	41.18	113.48	120.72	114.66	6.06	19.914	
800.00	800.00	799.00	799.00	3.28	3.28	70.05	41.18	113.48	120.72	114.17	6.55	18.420	
900.00	900.00	899.00	899.00	3.51	3.51	70.05	41.18	113.48	120.72	113.70	7.01	17.210 CC, ES	
1,000.00	999.98	998.98	998.98	3.78	3.72	-141.59	41.18	113.48	122.08	114.60	7.48	16.326	
1,083.35	1,083.22	1,082.22	1,082.22	4.28	3.90	-142.72	41.18	113.48	125.34	117.32	8.02	15.632	
1,100.00	1,099.84	1,098.84	1,098.84	4.29	3.93	-143.02	41.18	113.48	126.19	118.12	8.06	15.649	
1,200.00	1,199.64	1,198.64	1,198.64	4.47	4.13	-144.69	41.18	113.48	131.36	122.91	8.45	15.550	
1,300.00	1,299.43	1,298.43	1,298.43	4.70	4.32	-146.24	41.18	113.48	136.63	127.76	8.86	15.414	
1,400.00	1,399.23	1,398.23	1,398.23	4.95	4.51	-147.68	41.18	113.48	141.99	132.71	9.29	15.290	
1,500.00	1,499.02	1,498.02	1,498.02	5.20	4.68	-149.00	41.18	113.48	147.44	137.73	9.71	15.177	
1,600.00	1,598.82	1,597.77	1,597.75	5.47	4.89	-149.61	39.72	114.29	152.98	142.89	10.09	15.164	
1,700.00	1,698.61	1,697.49	1,697.33	5.75	5.51	-148.92	35.24	116.81	158.58	148.11	10.47	15.150 SF	
1,800.00	1,798.41	1,796.96	1,796.43	6.04	6.10	-147.07	27.77	121.00	164.36	153.53	10.83	15.170	
1,900.00	1,898.20	1,895.93	1,894.67	6.34	6.65	-144.21	17.35	126.84	170.64	159.45	11.20	15.239	
2,000.00	1,998.00	1,994.17	1,991.73	6.64	7.19	-140.50	4.09	134.27	177.88	166.31	11.57	15.372	
2,100.00	2,097.79	2,091.47	2,087.28	6.94	7.71	-136.13	-11.89	143.23	186.64	174.66	11.98	15.582	
2,200.00	2,197.59	2,187.62	2,181.03	7.26	8.22	-131.32	-30.46	153.64	197.49	185.06	12.44	15.881	
2,300.00	2,297.38	2,282.42	2,272.73	7.57	8.71	-126.28	-51.44	165.40	210.99	198.03	12.96	16.281	
2,400.00	2,397.18	2,375.70	2,362.12	7.89	9.19	-121.24	-74.66	178.42	227.59	214.05	13.54	16.803	
2,500.00	2,496.97	2,467.30	2,449.03	8.22	9.66	-116.37	-99.92	192.58	247.60	233.42	14.18	17.464	
2,600.00	2,596.77	2,557.09	2,533.27	8.54	10.12	-111.81	-127.02	207.77	271.18	256.34	14.84	18.275	
2,700.00	2,696.57	2,644.95	2,614.71	8.87	10.56	-107.62	-155.75	223.88	298.39	282.88	15.51	19.237	
2,800.00	2,796.36	2,730.78	2,693.26	9.21	10.99	-103.83	-185.91	240.79	329.17	312.99	16.18	20.344	
2,900.00	2,896.16	2,814.50	2,768.86	9.54	11.41	-100.45	-217.30	258.39	363.40	346.57	16.84	21.584	
3,000.00	2,995.95	2,900.00	2,844.94	9.87	11.84	-97.32	-251.32	277.46	400.96	383.42	17.54	22.866	
3,100.00	3,095.75	2,975.39	2,911.03	10.21	12.21	-94.81	-282.95	295.20	441.60	423.51	18.10	24.404	
3,200.00	3,195.54	3,052.49	2,977.61	10.55	12.59	-92.47	-316.86	314.20	485.23	466.54	18.69	25.959	
3,300.00	3,295.34	3,127.33	3,041.21	10.89	12.95	-90.40	-351.26	333.49	531.64	512.37	19.27	27.595	
3,400.00	3,395.13	3,200.00	3,101.97	11.23	13.30	-88.58	-386.04	352.99	580.67	560.85	19.82	29.299	
3,500.00	3,494.93	3,270.26	3,159.73	11.58	13.63	-86.96	-420.93	372.55	632.17	611.83	20.35	31.068	
3,600.00	3,594.72	3,338.38	3,214.78	11.92	13.92	-85.53	-455.93	392.17	685.99	665.19	20.80	32.976	
3,700.00	3,694.52	3,418.81	3,279.11	12.26	14.19	-84.01	-498.03	415.77	741.27	719.89	21.38	34.671	
3,800.00	3,794.31	3,500.52	3,344.47	12.61	14.49	-82.68	-540.81	439.76	796.89	774.89	22.00	36.230	
3,900.00	3,894.11	3,582.24	3,409.83	12.96	14.92	-81.51	-583.59	463.74	852.78	830.15	22.63	37.689	
4,000.00	3,993.90	3,663.95	3,475.19	13.30	15.78	-80.48	-626.37	487.72	908.88	885.63	23.25	39.085	
4,100.00	4,093.70	3,745.67	3,540.55	13.65	16.67	-79.57	-669.15	511.71	965.17	941.29	23.87	40.427	
4,200.00	4,193.49	3,827.39	3,605.91	14.00	17.56	-78.76	-711.94	535.69	1,021.61	997.10	24.50	41.691	
4,300.00	4,293.29	3,909.10	3,671.27	14.35	18.45	-78.04	-754.72	559.68	1,078.17	1,053.03	25.14	42.889	
4,400.00	4,393.08	3,990.82	3,736.63	14.70	19.35	-77.38	-797.50	583.66	1,134.85	1,109.06	25.78	44.019	
4,500.00	4,492.88	4,072.53	3,801.99	15.05	20.25	-76.79	-840.28	607.65	1,191.61	1,165.18	26.43	45.088	
4,600.00	4,592.68	4,154.25	3,867.35	15.40	21.15	-76.24	-883.06	631.63	1,248.46	1,221.38	27.08	46.104	
4,700.00	4,692.47	4,235.96	3,932.71	15.75	22.06	-75.75	-925.84	655.61	1,305.38	1,277.64	27.73	47.068	
4,800.00	4,792.27	4,317.68	3,998.07	16.10	22.97	-75.30	-968.63	679.60	1,362.35	1,333.96	28.39	47.984	
4,900.00	4,892.06	4,399.39	4,063.43	16.45	23.89	-74.88	-1,011.41	703.58	1,419.38	1,390.33	29.05	48.854	
5,000.00	4,991.86	4,481.11	4,128.79	16.81	24.80	-74.49	-1,054.19	727.57	1,476.46	1,446.74	29.72	49.678	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,562.82	4,194.15	17.16	25.72	-74.14	-1,096.97	751.55	1,533.58	1,503.19	30.39	50.462	
5,200.00	5,191.45	4,644.54	4,259.51	17.51	26.64	-73.80	-1,139.75	775.54	1,590.74	1,559.68	31.06	51.209	
5,300.00	5,291.24	4,726.26	4,324.87	17.87	27.56	-73.50	-1,182.53	799.52	1,647.93	1,616.19	31.74	51.920	
5,400.00	5,391.04	4,807.97	4,390.23	18.22	28.49	-73.21	-1,225.32	823.51	1,705.16	1,672.74	32.42	52.597	
5,500.00	5,490.83	4,889.69	4,455.59	18.57	29.41	-72.94	-1,268.10	847.49	1,762.41	1,729.30	33.10	53.242	
5,600.00	5,590.63	4,971.40	4,520.95	18.93	30.34	-72.68	-1,310.88	871.47	1,819.68	1,785.89	33.79	53.856	
5,700.00	5,690.42	5,053.12	4,586.31	19.28	31.27	-72.45	-1,353.66	895.46	1,876.98	1,842.50	34.48	54.443	
5,800.00	5,790.22	5,134.83	4,651.67	19.64	32.19	-72.22	-1,396.44	919.44	1,934.30	1,899.13	35.17	55.003	
5,900.00	5,890.01	5,216.55	4,717.03	19.99	33.12	-72.01	-1,439.22	943.43	1,991.63	1,955.77	35.86	55.538	
6,000.00	5,989.81	5,298.26	4,782.39	20.35	34.05	-71.81	-1,482.00	967.41	2,048.98	2,012.43	36.56	56.050	
6,100.00	6,089.60	5,379.98	4,847.74	20.70	34.98	-71.63	-1,524.79	991.40	2,106.35	2,069.10	37.26	56.539	
6,200.00	6,189.40	5,461.69	4,913.10	21.06	35.92	-71.45	-1,567.57	1,015.38	2,163.74	2,125.78	37.96	57.006	
6,300.00	6,289.19	5,543.40	4,978.47	21.41	36.85	-71.27	-1,610.35	1,039.36	2,221.12	2,181.01	38.66	57.493	
6,400.00	6,388.99	5,625.11	5,043.34	21.77	37.78	-71.08	-1,653.32	1,063.34	2,276.45	2,235.89	39.37	57.980	
6,498.43	6,487.22	5,706.82	5,108.28	22.12	38.71	-70.89	-1,696.29	1,087.32	2,331.54	2,290.98	39.99	58.467	
6,500.00	6,488.79	5,788.53	5,173.21	22.48	39.64	-70.70	-1,739.26	1,111.30	2,386.63	2,345.07	40.70	58.954	
6,550.00	6,538.54	5,870.24	5,238.15	22.84	40.57	-70.51	-1,782.23	1,135.28	2,441.72	2,400.16	41.41	59.441	
6,600.00	6,587.76	5,952.05	5,303.08	23.20	41.50	-70.32	-1,825.20	1,159.26	2,496.81	2,455.25	42.12	59.928	
6,626.16	6,613.18	6,033.86	5,368.02	23.56	42.43	-70.13	-1,868.17	1,183.24	2,551.90	2,510.34	42.83	60.415	
6,650.00	6,636.08	6,115.67	5,432.96	23.92	43.36	-69.94	-1,911.14	1,207.22	2,607.00	2,565.43	43.54	60.902	
6,700.00	6,683.13	6,197.48	5,497.89	24.28	44.29	-69.75	-1,954.11	1,231.20	2,662.09	2,620.52	44.25	61.389	
6,750.00	6,728.55	6,279.29	5,562.83	24.64	45.22	-69.56	-1,997.08	1,255.18	2,717.18	2,675.61	44.96	61.876	
6,800.00	6,771.99	6,361.10	5,627.76	25.00	46.15	-69.37	-2,040.05	1,279.16	2,772.27	2,730.70	45.67	62.363	
6,850.00	6,813.13	6,442.91	5,692.70	25.36	47.08	-69.18	-2,083.02	1,303.14	2,827.36	2,785.79	46.38	62.850	
6,900.00	6,851.64	6,524.72	5,757.64	25.72	48.01	-68.99	-2,125.99	1,327.12	2,882.45	2,840.88	47.09	63.337	
6,950.00	6,887.25	6,606.53	5,822.57	26.08	48.94	-68.80	-2,168.96	1,351.10	2,937.54	2,895.97	47.80	63.824	
7,000.00	6,919.67	6,688.34	5,887.51	26.44	49.87	-68.61	-2,211.93	1,375.08	2,992.63	2,951.06	48.51	64.311	
7,050.00	6,948.65	6,770.15	5,952.45	26.80	50.80	-68.42	-2,254.90	1,399.06	3,047.72	3,006.15	49.22	64.798	
7,100.00	6,973.99	6,851.96	6,017.39	27.16	51.73	-68.23	-2,297.87	1,423.04	3,102.81	3,061.24	49.93	65.285	
7,150.00	6,995.49	6,933.77	6,082.33	27.52	52.66	-68.04	-2,340.84	1,447.02	3,157.90	3,116.33	50.64	65.772	
7,200.00	7,012.97	7,015.58	6,147.27	27.88	53.59	-67.85	-2,383.81	1,471.00	3,213.00	3,171.42	51.35	66.259	
7,250.00	7,026.32	7,097.39	6,212.21	28.24	54.52	-67.66	-2,426.78	1,494.98	3,268.09	3,226.51	52.06	66.746	
7,300.00	7,035.43	7,179.20	6,277.15	28.60	55.45	-67.47	-2,469.75	1,518.96	3,323.18	3,281.60	52.77	67.233	
7,350.00	7,040.22	7,261.01	6,342.09	28.96	56.38	-67.28	-2,512.72	1,542.94	3,378.27	3,336.69	53.48	67.720	
7,377.14	7,041.00	7,342.82	6,406.93	29.32	57.31	-67.09	-2,555.69	1,566.92	3,433.36	3,391.78	54.19	68.207	
7,400.00	7,041.12	7,424.63	6,471.87	29.68	58.24	-66.90	-2,598.66	1,590.90	3,488.45	3,446.87	54.90	68.694	
7,500.00	7,041.64	7,506.44	6,536.81	30.04	59.17	-66.71	-2,641.63	1,614.88	3,543.54	3,501.96	55.61	69.181	
7,600.00	7,042.16	7,588.25	6,601.75	30.40	60.10	-66.52	-2,684.60	1,638.86	3,598.63	3,557.05	56.32	69.668	
7,700.00	7,042.67	7,670.06	6,666.69	30.76	61.03	-66.33	-2,727.57	1,662.84	3,653.72	3,612.14	57.03	70.155	
7,800.00	7,043.19	7,751.87	6,731.63	31.12	61.96	-66.14	-2,770.54	1,686.82	3,708.81	3,667.23	57.74	70.642	
7,900.00	7,043.71	7,833.68	6,796.57	31.48	62.89	-65.95	-2,813.51	1,710.80	3,763.90	3,722.32	58.45	71.129	
8,000.00	7,044.23	7,915.49	6,861.51	31.84	63.82	-65.76	-2,856.48	1,734.78	3,818.99	3,777.41	59.16	71.616	
8,100.00	7,044.75	8,000.30	6,926.45	32.20	64.75	-65.57	-2,899.45	1,758.76	3,874.08	3,832.50	59.87	72.103	
8,200.00	7,045.26	8,082.11	6,991.39	32.56	65.68	-65.38	-2,942.42	1,782.74	3,929.17	3,887.59	60.58	72.590	
8,300.00	7,045.78	8,163.92	7,056.33	32.92	66.61	-65.19	-2,985.39	1,806.72	3,984.26	3,942.68	61.29	73.077	
8,400.00	7,046.30	8,245.73	7,121.27	33.28	67.54	-65.00	-3,028.36	1,830.70	4,039.35	4,000.00	62.00	73.564	
8,500.00	7,046.82	8,327.54	7,186.21	33.64	68.47	-64.81	-3,071.33	1,854.68	4,094.44	4,055.09	62.71	74.051	
8,600.00	7,047.34	8,409.35	7,251.15	34.00	69.40	-64.62	-3,114.30	1,878.66	4,149.53	4,110.18	63.42	74.538	
8,700.00	7,047.86	8,491.16	7,316.09	34.36	70.33	-64.43	-3,157.27	1,902.64	4,204.62	4,165.27	64.13	75.025	
8,800.00	7,048.37	8,572.97	7,381.03	34.72	71.26	-64.24	-3,200.24	1,926.62	4,259.71	4,220.36	64.84	75.512	
8,900.00	7,048.89	8,654.78	7,445.97	35.08	72.19	-64.05	-3,243.21	1,950.60	4,314.80	4,275.45	65.55	76.000	
9,000.00	7,049.41	8,736.59	7,510.91	35.44	73.12	-63.86	-3,286.18	1,974.58	4,369.89	4,330.54	66.26	76.487	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HNC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	10,168.26	7,136.08	65.72	50.97	128.96	-236.29	1,793.07	4,269.13	4,199.56	69.57	61.360	
9,200.00	7,050.45	10,171.44	7,136.09	68.32	50.98	128.31	-233.11	1,793.03	4,369.05	4,299.42	69.63	62.747	
9,300.00	7,050.97	5,414.80	4,875.59	70.93	35.38	-28.85	-1,543.02	1,001.62	4,453.51	4,398.41	55.11	80.814	
9,400.00	7,051.48	5,384.82	4,851.62	73.55	35.04	-28.26	-1,527.32	992.82	4,537.10	4,481.94	55.16	82.249	
9,500.00	7,052.00	5,354.84	4,827.64	76.18	34.70	-27.69	-1,511.63	984.02	4,621.15	4,565.96	55.19	83.729	
9,600.00	7,052.52	5,324.87	4,803.67	78.81	34.36	-27.12	-1,495.93	975.22	4,705.63	4,650.44	55.19	85.255	
9,700.00	7,053.04	5,294.89	4,779.69	81.46	34.02	-26.55	-1,480.24	966.42	4,790.52	4,735.35	55.17	86.825	
9,800.00	7,053.56	5,264.92	4,755.71	84.10	33.67	-26.00	-1,464.55	957.62	4,875.80	4,820.67	55.13	88.438	
9,900.00	7,054.08	5,234.94	4,731.74	86.76	33.33	-25.45	-1,448.85	948.83	4,961.45	4,906.38	55.07	90.094	
10,000.00	7,054.59	5,204.97	4,707.76	89.42	32.99	-24.90	-1,433.16	940.03	5,047.45	4,992.46	54.99	91.794	
10,100.00	7,055.11	5,174.99	4,683.79	92.08	32.65	-24.36	-1,417.47	931.23	5,133.78	5,078.89	54.89	93.536	
10,200.00	7,055.63	5,145.01	4,659.81	94.75	32.31	-23.83	-1,401.77	922.43	5,220.42	5,165.66	54.77	95.320	
10,300.00	7,056.15	5,115.04	4,635.83	97.42	31.97	-23.31	-1,386.08	913.63	5,307.37	5,252.74	54.63	97.146	
10,400.00	7,056.67	5,085.06	4,611.86	100.10	31.63	-22.79	-1,370.39	904.84	5,394.60	5,340.12	54.48	99.013	
10,500.00	7,057.18	5,055.09	4,587.88	102.78	31.29	-22.28	-1,354.69	896.04	5,482.10	5,427.78	54.32	100.921	
10,600.00	7,057.70	5,025.11	4,563.91	105.46	30.95	-21.77	-1,339.00	887.24	5,569.87	5,515.72	54.14	102.871	
10,700.00	7,058.22	4,995.14	4,539.93	108.14	30.61	-21.27	-1,323.30	878.44	5,657.88	5,603.92	53.96	104.862	
10,800.00	7,058.74	4,965.16	4,515.96	110.83	30.27	-20.78	-1,307.61	869.64	5,746.13	5,692.37	53.76	106.893	
10,900.00	7,059.26	4,935.19	4,491.98	113.52	29.93	-20.29	-1,291.92	860.84	5,834.60	5,781.05	53.55	108.965	
11,000.00	7,059.78	4,905.21	4,468.00	116.21	29.59	-19.81	-1,276.22	852.05	5,923.28	5,869.96	53.33	111.079	
11,100.00	7,060.29	4,875.23	4,444.03	118.90	29.25	-19.33	-1,260.53	843.25	6,012.18	5,959.08	53.10	113.231	
11,200.00	7,060.81	4,845.26	4,420.05	121.60	28.91	-18.86	-1,244.84	834.45	6,101.27	6,048.41	52.86	115.424	
11,300.00	7,061.33	4,815.28	4,396.08	124.30	28.57	-18.40	-1,229.14	825.65	6,190.54	6,137.93	52.61	117.658	
11,400.00	7,061.85	4,785.31	4,372.10	127.00	28.23	-17.94	-1,213.45	816.85	6,280.00	6,227.64	52.36	119.931	
11,500.00	7,062.37	4,755.33	4,348.12	129.70	27.89	-17.49	-1,197.76	808.06	6,369.63	6,317.52	52.11	122.243	
11,600.00	7,062.89	4,725.36	4,324.15	132.40	27.55	-17.05	-1,182.06	799.26	6,459.43	6,407.58	51.84	124.596	
11,700.00	7,063.40	4,695.38	4,300.17	135.10	27.22	-16.61	-1,166.37	790.46	6,549.38	6,497.81	51.57	126.989	
11,800.00	7,063.92	4,665.40	4,276.20	137.81	26.88	-16.17	-1,150.68	781.66	6,639.49	6,588.18	51.30	129.419	
11,900.00	7,064.44	4,635.43	4,252.22	140.51	26.54	-15.75	-1,134.98	772.86	6,729.74	6,678.71	51.03	131.889	
12,000.00	7,064.96	4,605.45	4,228.24	143.22	26.20	-15.32	-1,119.29	764.06	6,820.13	6,769.38	50.75	134.399	
12,100.00	7,065.48	4,575.48	4,204.27	145.93	25.86	-14.91	-1,103.59	755.27	6,910.66	6,860.19	50.46	136.944	
12,200.00	7,066.00	4,545.50	4,180.29	148.64	25.53	-14.49	-1,087.90	746.47	7,001.31	6,951.13	50.18	139.528	
12,300.00	7,066.51	4,515.53	4,156.32	151.35	25.19	-14.09	-1,072.21	737.67	7,092.09	7,042.20	49.89	142.152	
12,400.00	7,067.03	4,485.55	4,132.34	154.06	24.85	-13.69	-1,056.51	728.87	7,182.99	7,133.39	49.60	144.811	
12,500.00	7,067.55	4,455.57	4,108.36	156.77	24.52	-13.29	-1,040.82	720.07	7,274.01	7,224.70	49.31	147.505	
12,600.00	7,068.07	4,425.60	4,084.39	159.49	24.18	-12.90	-1,025.13	711.27	7,365.14	7,316.11	49.02	150.238	
12,700.00	7,068.59	4,395.62	4,060.41	162.20	23.84	-12.51	-1,009.43	702.48	7,456.37	7,407.64	48.73	153.006	
12,800.00	7,069.11	4,365.65	4,036.44	164.92	23.51	-12.13	-993.74	693.68	7,547.71	7,499.26	48.44	155.806	
12,900.00	7,069.62	4,335.67	4,012.46	167.63	23.17	-11.76	-978.05	684.88	7,639.14	7,590.99	48.15	158.642	
13,000.00	7,070.14	4,305.70	3,988.49	170.35	22.84	-11.39	-962.35	676.08	7,730.67	7,682.81	47.86	161.513	
13,100.00	7,070.66	4,275.72	3,964.51	173.07	22.50	-11.02	-946.66	667.28	7,822.30	7,774.72	47.58	164.413	
13,200.00	7,071.18	4,245.75	3,940.53	175.78	22.17	-10.66	-930.97	658.49	7,914.01	7,866.72	47.29	167.345	
13,300.00	7,071.70	4,215.77	3,916.56	178.50	21.84	-10.30	-915.27	649.69	8,005.81	7,958.80	47.01	170.310	
13,400.00	7,072.21	4,185.79	3,892.58	181.22	21.50	-9.95	-899.58	640.89	8,097.70	8,050.97	46.73	173.303	
13,500.00	7,072.73	4,155.82	3,868.61	183.94	21.17	-9.61	-883.88	632.09	8,189.66	8,143.21	46.45	176.322	
13,600.00	7,073.25	4,125.84	3,844.63	186.66	20.84	-9.26	-868.19	623.29	8,281.70	8,235.53	46.17	179.372	
13,700.00	7,073.77	4,095.87	3,820.65	189.38	20.51	-8.93	-852.50	614.49	8,373.82	8,327.92	45.90	182.449	
13,800.00	7,074.29	4,065.89	3,796.68	192.10	20.17	-8.59	-836.80	605.70	8,466.01	8,420.38	45.63	185.543	
13,900.00	7,074.81	4,035.92	3,772.70	194.82	19.84	-8.26	-821.11	596.90	8,558.27	8,512.90	45.36	188.665	
14,000.00	7,075.32	4,005.94	3,748.73	197.54	19.51	-7.94	-805.42	588.10	8,650.59	8,605.49	45.10	191.813	
14,100.00	7,075.84	3,975.96	3,724.75	200.27	19.18	-7.62	-789.72	579.30	8,742.99	8,698.15	44.84	194.972	
14,200.00	7,076.36	3,945.99	3,700.77	202.99	18.85	-7.30	-774.03	570.50	8,835.45	8,790.86	44.59	198.151	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 3Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,300.00	7,076.88	3,916.01	3,676.80	205.71	18.53	-6.99	-758.34	561.71	8,927.97	8,883.63	44.34	201.353	
14,400.00	7,077.40	3,886.04	3,652.82	208.44	18.20	-6.68	-742.64	552.91	9,020.55	8,976.45	44.10	204.565	
14,500.00	7,077.92	3,856.06	3,628.85	211.16	17.87	-6.38	-726.95	544.11	9,113.18	9,069.32	43.86	207.786	
14,600.00	7,078.43	3,826.09	3,604.87	213.88	17.54	-6.07	-711.26	535.31	9,205.88	9,162.25	43.62	211.024	
14,700.00	7,078.95	3,796.11	3,580.90	216.61	17.22	-5.78	-695.56	526.51	9,298.63	9,255.23	43.40	214.275	
14,800.00	7,079.47	3,766.13	3,556.92	219.33	16.89	-5.49	-679.87	517.71	9,391.43	9,348.25	43.18	217.517	
14,900.00	7,079.99	3,736.16	3,532.94	222.06	16.57	-5.20	-664.17	508.92	9,484.28	9,441.32	42.96	220.772	
15,000.00	7,080.51	3,706.18	3,508.97	224.78	16.25	-4.91	-648.48	500.12	9,577.19	9,534.44	42.75	224.039	
15,100.00	7,081.03	3,676.21	3,484.99	227.51	15.92	-4.63	-632.79	491.32	9,670.14	9,627.59	42.55	227.284	
15,200.00	7,081.54	3,646.23	3,461.02	230.24	15.59	-4.35	-617.09	482.52	9,763.14	9,720.79	42.35	230.533	
15,300.00	7,082.06	3,616.26	3,437.04	232.96	15.28	-4.08	-601.40	473.72	9,856.19	9,814.03	42.16	233.793	
15,400.00	7,082.58	3,586.28	3,413.06	235.69	14.96	-3.80	-585.71	464.93	9,949.28	9,907.30	41.97	237.033	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-165.37	-431.00	-112.47	445.44				
100.00	100.00	97.00	97.00	0.48	0.47	-165.37	-431.00	-112.47	445.43	444.48	0.95	468.526	
200.00	200.00	197.00	197.00	1.28	1.26	-165.37	-431.00	-112.47	445.43	442.89	2.54	175.324	
300.00	300.00	297.00	297.00	1.77	1.75	-165.37	-431.00	-112.47	445.43	441.91	3.52	126.451	
400.00	400.00	397.00	397.00	2.15	2.14	-165.37	-431.00	-112.47	445.43	441.14	4.29	103.841	
500.00	500.00	497.00	497.00	2.48	2.47	-165.37	-431.00	-112.47	445.43	440.49	4.94	90.096	
600.00	600.00	597.00	597.00	2.77	2.76	-165.37	-431.00	-112.47	445.43	439.91	5.53	80.606	
700.00	700.00	697.00	697.00	3.03	3.02	-165.37	-431.00	-112.47	445.43	439.38	6.06	73.543	
800.00	800.00	797.00	797.00	3.28	3.27	-165.37	-431.00	-112.47	445.43	438.88	6.55	68.019	
900.00	900.00	897.00	897.00	3.51	3.50	-165.37	-431.00	-112.47	445.43	438.42	7.01	63.544	
1,000.00	999.98	996.98	996.98	3.78	3.72	-16.60	-431.00	-112.47	443.76	436.28	7.48	59.320	
1,083.35	1,083.22	1,080.22	1,080.22	4.28	3.89	-16.77	-431.00	-112.47	439.81	431.69	8.12	54.132	
1,100.00	1,099.84	1,096.84	1,096.84	4.29	3.93	-16.81	-431.00	-112.47	438.79	430.62	8.17	53.701	
1,200.00	1,199.64	1,196.64	1,196.64	4.47	4.13	-17.06	-431.00	-112.47	432.67	424.12	8.55	50.611	
1,300.00	1,299.43	1,312.10	1,312.07	4.70	4.61	-17.25	-428.82	-112.69	424.79	415.56	9.23	46.029	
1,400.00	1,399.23	1,427.27	1,427.03	4.95	5.41	-17.23	-422.04	-113.38	413.12	402.93	10.19	40.545	
1,500.00	1,499.02	1,541.24	1,540.43	5.20	6.15	-16.99	-410.80	-114.53	397.74	386.64	11.10	35.843	
1,600.00	1,598.82	1,647.41	1,645.65	5.47	6.69	-16.54	-396.65	-115.97	379.07	367.22	11.85	31.986	
1,700.00	1,698.61	1,745.50	1,742.77	5.75	6.98	-16.05	-382.96	-117.37	359.88	347.49	12.39	29.036	
1,800.00	1,798.41	1,843.60	1,839.89	6.04	7.22	-15.50	-369.27	-118.77	340.72	327.82	12.90	26.416	
1,900.00	1,898.20	1,941.69	1,937.01	6.34	7.47	-14.89	-355.59	-120.16	321.60	308.17	13.43	23.955	
2,000.00	1,998.00	2,039.78	2,034.13	6.64	7.74	-14.20	-341.90	-121.56	302.51	288.54	13.97	21.653	
2,100.00	2,097.79	2,137.87	2,131.26	6.94	8.02	-13.41	-328.21	-122.96	283.47	268.94	14.53	19.506	
2,200.00	2,197.59	2,235.96	2,228.38	7.26	8.31	-12.51	-314.53	-124.35	264.49	249.39	15.11	17.508	
2,300.00	2,297.38	2,334.06	2,325.50	7.57	8.62	-11.48	-300.84	-125.75	245.59	229.89	15.69	15.650	
2,400.00	2,397.18	2,432.15	2,422.62	7.89	8.94	-10.27	-287.15	-127.15	226.77	210.49	16.28	13.925	
2,500.00	2,496.97	2,530.24	2,519.75	8.22	9.26	-8.85	-273.46	-128.54	208.07	191.19	16.88	12.327	
2,600.00	2,596.77	2,628.33	2,616.87	8.54	9.59	-7.15	-259.78	-129.94	189.52	172.04	17.47	10.847	
2,700.00	2,696.57	2,726.43	2,713.99	8.87	9.93	-5.08	-246.09	-131.34	171.16	153.11	18.05	9.482	
2,800.00	2,796.36	2,824.52	2,811.11	9.21	10.28	-2.52	-232.40	-132.73	153.07	134.47	18.61	8.227	
2,900.00	2,896.16	2,922.61	2,908.24	9.54	10.63	0.71	-218.71	-134.13	135.36	116.25	19.11	7.082	
3,000.00	2,995.95	3,020.70	3,005.36	9.87	10.98	4.89	-205.03	-135.53	118.19	98.66	19.54	6.049	
3,100.00	3,095.75	3,118.79	3,102.48	10.21	11.35	10.43	-191.34	-136.92	101.85	82.03	19.82	5.139	
3,200.00	3,195.54	3,216.89	3,199.60	10.55	11.71	17.95	-177.65	-138.32	86.79	66.95	19.84	4.374	
3,300.00	3,295.34	3,314.98	3,296.73	10.89	12.08	28.30	-163.96	-139.72	73.80	54.34	19.47	3.792	
3,400.00	3,395.13	3,413.07	3,393.85	11.23	12.46	42.25	-150.28	-141.11	64.17	45.52	18.65	3.440	
3,500.00	3,494.93	3,511.16	3,490.97	11.58	12.83	59.53	-136.59	-142.51	59.54	41.64	17.90	3.327	
3,525.86	3,520.73	3,536.53	3,516.08	11.66	12.93	64.28	-133.05	-142.87	59.32	41.49	17.83	3.327 CC, ES	
3,600.00	3,594.72	3,609.25	3,588.09	11.92	13.21	77.69	-122.90	-143.91	61.05	42.93	18.12	3.369	
3,700.00	3,694.52	3,707.35	3,685.22	12.26	13.59	93.52	-109.22	-145.30	68.30	48.86	19.44	3.513	
3,800.00	3,794.31	3,805.44	3,782.34	12.61	13.98	105.67	-95.53	-146.70	79.75	58.58	21.17	3.767	
3,900.00	3,894.11	3,903.53	3,879.46	12.96	14.37	114.54	-81.84	-148.10	93.86	71.07	22.79	4.119	
4,000.00	3,993.90	4,001.62	3,976.58	13.30	14.76	121.01	-68.15	-149.49	109.62	85.43	24.19	4.532	
4,100.00	4,093.70	4,099.71	4,073.71	13.65	15.15	125.83	-54.47	-150.89	126.40	101.00	25.40	4.976	
4,200.00	4,193.49	4,197.81	4,170.83	14.00	15.54	129.51	-40.78	-152.29	143.86	117.38	26.48	5.433	
4,300.00	4,293.29	4,295.90	4,267.95	14.35	15.94	132.39	-27.09	-153.68	161.77	134.30	27.47	5.890	
4,400.00	4,393.08	4,393.99	4,365.07	14.70	16.33	134.69	-13.40	-155.08	180.00	151.61	28.39	6.340	
4,500.00	4,492.88	4,492.08	4,462.20	15.05	16.73	136.57	0.28	-156.48	198.45	169.19	29.27	6.781	
4,600.00	4,592.68	4,590.18	4,559.32	15.40	17.13	138.13	13.97	-157.87	217.08	186.97	30.11	7.209	
4,700.00	4,692.47	4,688.27	4,656.44	15.75	17.53	139.44	27.66	-159.27	235.84	204.91	30.93	7.624	
4,800.00	4,792.27	4,786.36	4,753.56	16.10	17.93	140.56	41.34	-160.67	254.71	222.97	31.74	8.025	
4,900.00	4,892.06	4,884.45	4,850.69	16.45	18.34	141.53	55.03	-162.06	273.65	241.12	32.53	8.412	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,982.54	4,947.81	16.81	18.74	142.36	68.72	-163.46	292.66	259.34	33.31	8.785	
5,100.00	5,091.65	5,080.64	5,044.93	17.16	19.15	143.10	82.41	-164.86	311.72	277.63	34.09	9.144	
5,200.00	5,191.45	5,178.73	5,142.05	17.51	19.55	143.75	96.09	-166.25	330.83	295.97	34.86	9.491	
5,300.00	5,291.24	5,276.82	5,239.18	17.87	19.96	144.34	109.78	-167.65	349.97	314.35	35.62	9.825	
5,400.00	5,391.04	5,374.91	5,336.30	18.22	20.37	144.86	123.47	-169.05	369.14	332.76	36.38	10.146	
5,500.00	5,490.83	5,473.00	5,433.42	18.57	20.77	145.33	137.16	-170.44	388.34	351.21	37.14	10.456	
5,600.00	5,590.63	5,571.10	5,530.54	18.93	21.18	145.75	150.84	-171.84	407.57	369.67	37.89	10.755	
5,700.00	5,690.42	5,669.19	5,627.67	19.28	21.59	146.14	164.53	-173.24	426.81	388.16	38.65	11.044	
5,800.00	5,790.22	5,767.28	5,724.79	19.64	22.00	146.49	178.22	-174.63	446.07	406.67	39.40	11.322	
5,900.00	5,890.01	5,865.37	5,821.91	19.99	22.41	146.82	191.91	-176.03	465.35	425.20	40.15	11.591	
6,000.00	5,989.81	5,963.46	5,919.03	20.35	22.83	147.11	205.59	-177.43	484.63	443.74	40.90	11.850	
6,100.00	6,089.60	6,061.56	6,016.16	20.70	23.24	147.39	219.28	-178.82	503.93	462.29	41.65	12.100	
6,200.00	6,189.40	6,159.65	6,113.28	21.06	23.65	147.65	232.97	-180.22	523.25	480.85	42.39	12.343	
6,300.00	6,289.19	6,257.74	6,210.40	21.41	24.06	147.88	246.65	-181.62	542.57	499.42	43.14	12.577	
6,400.00	6,388.99	6,355.83	6,307.52	21.77	24.48	148.10	260.34	-183.01	561.89	518.01	43.89	12.803	
6,498.43	6,487.22	6,452.39	6,403.12	22.12	24.88	148.31	273.81	-184.39	580.93	536.30	44.62	13.019	
6,500.00	6,488.79	6,453.93	6,404.64	22.12	24.89	146.20	274.03	-184.41	581.23	536.60	44.63	13.023	
6,550.00	6,538.54	6,502.87	6,453.11	22.32	25.10	112.09	280.86	-185.11	590.82	545.79	45.04	13.119	
6,600.00	6,587.76	6,551.37	6,501.12	22.59	25.30	102.29	287.63	-185.80	600.30	554.80	45.50	13.194	
6,650.00	6,636.08	6,599.05	6,548.34	22.84	25.50	98.22	294.28	-186.48	609.73	563.81	45.92	13.278	
6,700.00	6,683.13	6,645.55	6,594.38	23.07	25.70	96.33	300.77	-187.14	619.28	572.93	46.35	13.362	
6,750.00	6,728.55	6,690.53	6,638.91	23.29	25.89	95.53	307.04	-187.78	629.18	582.40	46.78	13.448	
6,800.00	6,771.99	6,733.62	6,681.58	23.51	26.07	95.34	313.06	-188.39	639.70	592.48	47.22	13.548	
6,850.00	6,813.13	6,781.05	6,728.48	23.72	26.27	95.71	319.70	-190.43	650.96	603.26	47.70	13.647	
6,900.00	6,851.64	6,832.36	6,778.84	23.94	26.51	96.35	326.91	-196.98	662.70	614.47	48.24	13.739	
6,950.00	6,887.25	6,887.04	6,831.62	24.16	26.76	97.14	334.58	-208.94	674.79	626.02	48.77	13.837	
7,000.00	6,919.67	6,945.72	6,886.71	24.38	26.99	98.06	342.71	-227.36	687.04	637.78	49.26	13.948	
7,050.00	6,948.65	7,009.13	6,943.79	24.62	27.20	99.10	351.28	-253.55	699.24	649.52	49.72	14.063	
7,100.00	6,973.99	7,078.08	7,002.15	24.88	27.41	100.24	360.23	-289.06	711.11	660.92	50.19	14.167	
7,150.00	6,995.49	7,153.37	7,060.54	25.18	27.64	101.44	369.41	-335.62	722.34	671.65	50.69	14.249	
7,200.00	7,012.97	7,235.73	7,116.85	25.51	27.95	102.67	378.56	-394.93	732.54	681.27	51.26	14.289	
7,250.00	7,026.32	7,325.55	7,167.94	25.89	28.38	103.85	387.26	-468.17	741.28	689.33	51.94	14.271	
7,300.00	7,035.43	7,422.61	7,209.66	26.33	29.02	104.89	394.94	-555.34	748.10	695.31	52.79	14.172	
7,350.00	7,040.22	7,525.78	7,237.35	26.84	29.96	105.67	400.89	-654.40	752.57	698.71	53.86	13.973	
7,377.14	7,041.00	7,583.60	7,245.01	27.14	30.60	105.96	403.15	-711.64	753.89	699.36	54.53	13.825	
7,400.00	7,041.12	7,632.91	7,247.01	27.41	31.20	106.08	404.45	-760.87	754.25	699.09	55.17	13.672	
7,400.87	7,041.12	7,623.80	7,246.85	27.42	31.08	106.07	404.24	-751.77	754.25	699.07	55.18	13.668	
7,500.00	7,041.64	7,730.62	7,247.53	28.77	32.56	106.08	406.55	-858.57	754.40	696.29	58.11	12.982	
7,600.00	7,042.16	7,830.62	7,248.05	30.39	34.11	106.07	408.70	-958.54	754.55	693.20	61.35	12.298	
7,700.00	7,042.67	7,930.62	7,248.57	32.22	35.82	106.07	410.85	-1,058.52	754.69	689.83	64.86	11.636	
7,800.00	7,043.19	8,030.62	7,249.08	34.20	37.65	106.07	413.00	-1,158.49	754.84	686.25	68.59	11.005	
7,900.00	7,043.71	8,130.62	7,249.60	36.31	39.59	106.06	415.15	-1,258.47	754.98	682.47	72.51	10.412	
8,000.00	7,044.23	8,230.62	7,250.12	38.52	41.61	106.06	417.29	-1,358.45	755.13	678.53	76.59	9.859	
8,100.00	7,044.75	8,330.62	7,250.64	40.80	43.71	106.06	419.44	-1,458.42	755.27	674.46	80.82	9.346	
8,200.00	7,045.26	8,430.62	7,251.16	43.15	45.88	106.05	421.59	-1,558.40	755.42	670.26	85.15	8.871	
8,300.00	7,045.78	8,530.62	7,251.67	45.54	48.10	106.05	423.74	-1,658.37	755.56	665.97	89.59	8.433	
8,400.00	7,046.30	8,630.62	7,252.19	47.97	50.38	106.05	425.88	-1,758.35	755.71	661.59	94.12	8.029	
8,500.00	7,046.82	8,730.62	7,252.71	50.44	52.69	106.04	428.03	-1,858.32	755.85	657.13	98.72	7.656	
8,600.00	7,047.34	8,830.62	7,253.23	52.94	55.05	106.04	430.18	-1,958.30	756.00	652.61	103.39	7.312	
8,700.00	7,047.86	8,930.62	7,253.75	55.46	57.43	106.04	432.33	-2,058.27	756.14	648.04	108.11	6.994	
8,800.00	7,048.37	9,030.62	7,254.27	58.00	59.85	106.03	434.47	-2,158.25	756.29	643.41	112.88	6.700	
8,900.00	7,048.89	9,130.62	7,254.78	60.56	62.29	106.03	436.62	-2,258.23	756.44	638.74	117.70	6.427	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HC-09-07-65 - OWB - PROPOSAL 1											Offset Site Error: 0.00 usft		
Survey Program: 0-MWD												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
9,000.00	7,049.41	9,230.62	7,255.30	63.13	64.75	106.03	438.77	-2,358.20	756.58	634.03	122.55	6.174	
9,100.00	7,049.93	9,330.62	7,255.82	65.72	67.23	106.03	440.92	-2,458.18	756.73	629.29	127.44	5.938	
9,200.00	7,050.45	9,430.62	7,256.34	68.32	69.74	106.02	443.06	-2,558.15	756.87	624.52	132.35	5.719	
9,300.00	7,050.97	9,530.62	7,256.86	70.93	72.26	106.02	445.21	-2,658.13	757.02	619.72	137.30	5.514	
9,400.00	7,051.48	9,630.62	7,257.38	73.55	74.79	106.02	447.36	-2,758.10	757.16	614.89	142.27	5.322	
9,500.00	7,052.00	9,730.62	7,257.89	76.18	77.34	106.01	449.51	-2,858.08	757.31	610.05	147.26	5.143	
9,600.00	7,052.52	9,830.62	7,258.41	78.81	79.90	106.01	451.66	-2,958.05	757.45	605.18	152.27	4.974	
9,700.00	7,053.04	9,930.62	7,258.93	81.46	82.47	106.01	453.80	-3,058.03	757.60	600.30	157.30	4.816	
9,800.00	7,053.56	10,030.62	7,259.45	84.10	85.05	106.00	455.95	-3,158.00	757.74	595.40	162.34	4.668	
9,900.00	7,054.08	10,130.62	7,259.97	86.76	87.64	106.00	458.10	-3,257.98	757.89	590.49	167.40	4.527	
10,000.00	7,054.59	10,230.62	7,260.49	89.42	90.23	106.00	460.25	-3,357.96	758.03	585.56	172.47	4.395	
10,100.00	7,055.11	10,330.62	7,261.00	92.08	92.84	105.99	462.39	-3,457.93	758.18	580.62	177.56	4.270	
10,200.00	7,055.63	10,430.62	7,261.52	94.75	95.45	105.99	464.54	-3,557.91	758.32	575.67	182.66	4.152	
10,300.00	7,056.15	10,530.62	7,262.04	97.42	98.07	105.99	466.69	-3,657.88	758.47	570.71	187.76	4.040	
10,400.00	7,056.67	10,630.62	7,262.56	100.10	100.70	105.98	468.84	-3,757.86	758.61	565.73	192.88	3.933	
10,500.00	7,057.18	10,730.62	7,263.08	102.78	103.33	105.98	470.98	-3,857.83	758.76	560.76	198.00	3.832	
10,600.00	7,057.70	10,830.62	7,263.59	105.46	105.97	105.98	473.13	-3,957.81	758.90	555.77	203.14	3.736	
10,700.00	7,058.22	10,930.62	7,264.11	108.14	108.61	105.97	475.28	-4,057.78	759.05	550.77	208.28	3.644	
10,800.00	7,058.74	11,030.62	7,264.63	110.83	111.26	105.97	477.43	-4,157.76	759.19	545.77	213.42	3.557	
10,900.00	7,059.26	11,130.62	7,265.15	113.52	113.91	105.97	479.57	-4,257.73	759.34	540.76	218.58	3.474	
11,000.00	7,059.78	11,230.62	7,265.67	116.21	116.56	105.97	481.72	-4,357.71	759.48	535.74	223.74	3.395	
11,100.00	7,060.29	11,330.62	7,266.19	118.90	119.22	105.96	483.87	-4,457.69	759.63	530.72	228.91	3.319	
11,200.00	7,060.81	11,430.62	7,266.70	121.60	121.88	105.96	486.02	-4,557.66	759.77	525.70	234.08	3.246	
11,300.00	7,061.33	11,530.62	7,267.22	124.30	124.55	105.96	488.17	-4,657.64	759.92	520.67	239.25	3.176	
11,400.00	7,061.85	11,630.62	7,267.74	127.00	127.21	105.95	490.31	-4,757.61	760.07	515.63	244.44	3.109	
11,500.00	7,062.37	11,730.62	7,268.26	129.70	129.89	105.95	492.46	-4,857.59	760.21	510.59	249.62	3.045	
11,600.00	7,062.89	11,830.62	7,268.78	132.40	132.56	105.95	494.61	-4,957.56	760.36	505.55	254.81	2.984	
11,700.00	7,063.40	11,930.62	7,269.30	135.10	135.24	105.94	496.76	-5,057.54	760.50	500.50	260.00	2.925	
11,800.00	7,063.92	12,030.62	7,269.81	137.81	137.91	105.94	498.90	-5,157.51	760.65	495.45	265.20	2.868	
11,900.00	7,064.44	12,130.62	7,270.33	140.51	140.59	105.94	501.05	-5,257.49	760.79	490.39	270.40	2.814	
12,000.00	7,064.96	12,230.62	7,270.85	143.22	143.28	105.93	503.20	-5,357.47	760.94	485.33	275.61	2.761	
12,100.00	7,065.48	12,330.62	7,271.37	145.93	145.96	105.93	505.35	-5,457.44	761.08	480.27	280.81	2.710	
12,200.00	7,066.00	12,430.62	7,271.89	148.64	148.65	105.93	507.49	-5,557.42	761.23	475.20	286.02	2.661	
12,300.00	7,066.51	12,530.62	7,272.41	151.35	151.34	105.92	509.64	-5,657.39	761.37	470.14	291.24	2.614	
12,400.00	7,067.03	12,630.62	7,272.92	154.06	154.03	105.92	511.79	-5,757.37	761.52	465.07	296.45	2.569	
12,500.00	7,067.55	12,730.62	7,273.44	156.77	156.72	105.92	513.94	-5,857.34	761.66	459.99	301.67	2.525	
12,600.00	7,068.07	12,830.62	7,273.96	159.49	159.41	105.92	516.08	-5,957.32	761.81	454.92	306.89	2.482	
12,700.00	7,068.59	12,930.62	7,274.48	162.20	162.11	105.91	518.23	-6,057.29	761.95	449.84	312.11	2.441	
12,800.00	7,069.11	13,030.62	7,275.00	164.92	164.80	105.91	520.38	-6,157.27	762.10	444.76	317.34	2.402	
12,900.00	7,069.62	13,130.62	7,275.51	167.63	167.50	105.91	522.53	-6,257.24	762.24	439.68	322.57	2.363	
13,000.00	7,070.14	13,230.62	7,276.03	170.35	170.20	105.90	524.68	-6,357.22	762.39	434.59	327.80	2.326	
13,100.00	7,070.66	13,330.62	7,276.55	173.07	172.90	105.90	526.82	-6,457.20	762.53	429.51	333.03	2.290	
13,200.00	7,071.18	13,430.62	7,277.07	175.78	175.60	105.90	528.97	-6,557.17	762.68	424.42	338.26	2.255	
13,300.00	7,071.70	13,530.62	7,277.59	178.50	178.30	105.89	531.12	-6,657.15	762.83	419.33	343.49	2.221	
13,400.00	7,072.21	13,630.62	7,278.11	181.22	181.01	105.89	533.27	-6,757.12	762.97	414.24	348.73	2.188	
13,500.00	7,072.73	13,730.62	7,278.62	183.94	183.71	105.89	535.41	-6,857.10	763.12	409.15	353.97	2.156	
13,600.00	7,073.25	13,830.62	7,279.14	186.66	186.42	105.88	537.56	-6,957.07	763.26	404.05	359.21	2.125	
13,700.00	7,073.77	13,930.62	7,279.66	189.38	189.12	105.88	539.71	-7,057.05	763.41	398.96	364.45	2.095	
13,800.00	7,074.29	14,030.62	7,280.18	192.10	191.83	105.88	541.86	-7,157.02	763.55	393.86	369.69	2.065	
13,900.00	7,074.81	14,130.62	7,280.70	194.82	194.54	105.87	544.00	-7,257.00	763.70	388.76	374.93	2.037	
14,000.00	7,075.32	14,230.62	7,281.22	197.54	197.25	105.87	546.15	-7,356.97	763.84	383.66	380.18	2.009	
14,100.00	7,075.84	14,330.62	7,281.73	200.27	199.95	105.87	548.30	-7,456.95	763.99	378.56	385.43	1.982 Collision Risk Procedures Req.	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program:		0-MWD						Rule Assigned:				Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,200.00	7,076.36	14,430.62	7,282.25	202.99	202.67	105.87	550.45	-7,556.93	764.13	373.46	390.67	1.956	Collision Risk Procedures Req.	
14,300.00	7,076.88	14,530.62	7,282.77	205.71	205.38	105.86	552.59	-7,656.90	764.28	368.36	395.92	1.930	Collision Risk Procedures Req.	
14,400.00	7,077.40	14,630.62	7,283.29	208.44	208.09	105.86	554.74	-7,756.88	764.42	363.25	401.17	1.905	Collision Risk Procedures Req.	
14,500.00	7,077.92	14,730.62	7,283.81	211.16	210.80	105.86	556.89	-7,856.85	764.57	358.15	406.42	1.881	Collision Risk Procedures Req.	
14,600.00	7,078.43	14,830.62	7,284.33	213.88	213.51	105.85	559.04	-7,956.83	764.71	353.04	411.68	1.858	Collision Risk Procedures Req.	
14,700.00	7,078.95	14,930.62	7,284.84	216.61	216.23	105.85	561.19	-8,056.80	764.86	347.93	416.93	1.835	Collision Risk Procedures Req.	
14,800.00	7,079.47	15,030.62	7,285.36	219.33	218.94	105.85	563.33	-8,156.78	765.00	342.82	422.18	1.812	Collision Risk Procedures Req.	
14,900.00	7,079.99	15,130.62	7,285.88	222.06	221.66	105.84	565.48	-8,256.75	765.15	337.71	427.44	1.790	Collision Risk Procedures Req.	
15,000.00	7,080.51	15,230.62	7,286.40	224.78	224.37	105.84	567.63	-8,356.73	765.30	332.60	432.69	1.769	Collision Risk Procedures Req.	
15,100.00	7,081.03	15,330.62	7,286.92	227.51	227.09	105.84	569.78	-8,456.70	765.44	327.49	437.95	1.748	Collision Risk Procedures Req.	
15,200.00	7,081.54	15,430.62	7,287.43	230.24	229.80	105.83	571.92	-8,556.68	765.59	322.38	443.21	1.727	Collision Risk Procedures Req.	
15,300.00	7,082.06	15,530.62	7,287.95	232.96	232.52	105.83	574.07	-8,656.66	765.73	317.26	448.47	1.707	Collision Risk Procedures Req.	
15,400.00	7,082.58	15,630.62	7,288.47	235.69	235.24	105.83	576.22	-8,756.63	765.88	312.15	453.73	1.688	Collision Risk Procedures Req.	
15,500.00	7,083.10	15,730.61	7,288.99	238.41	237.96	105.83	578.37	-8,856.61	766.02	307.04	458.99	1.669	Collision Risk Procedures Req.	
15,600.00	7,083.62	15,830.61	7,289.51	241.14	240.67	105.82	580.51	-8,956.58	766.17	301.92	464.25	1.650	Collision Risk Procedures Req.	
15,700.00	7,084.13	15,930.61	7,290.03	243.87	243.39	105.82	582.66	-9,056.56	766.31	296.80	469.51	1.632	Collision Risk Procedures Req.	
15,800.00	7,084.65	16,030.61	7,290.54	246.60	246.11	105.82	584.81	-9,156.53	766.46	291.69	474.77	1.614	Collision Risk Procedures Req.	
15,900.00	7,085.17	16,130.61	7,291.06	249.32	248.83	105.81	586.96	-9,256.51	766.60	286.57	480.04	1.597	Collision Risk Procedures Req.	
16,000.00	7,085.69	16,230.61	7,291.58	252.05	251.55	105.81	589.10	-9,356.48	766.75	281.45	485.30	1.580	Collision Risk Procedures Req.	
16,100.00	7,086.21	16,330.61	7,292.10	254.78	254.27	105.81	591.25	-9,456.46	766.89	276.33	490.56	1.563	Collision Risk Procedures Req.	
16,200.00	7,086.73	16,430.61	7,292.62	257.51	256.99	105.80	593.40	-9,556.44	767.04	271.21	495.83	1.547	Collision Risk Procedures Req.	
16,300.00	7,087.24	16,530.61	7,293.14	260.24	259.71	105.80	595.55	-9,656.41	767.18	266.09	501.10	1.531	Collision Risk Procedures Req.	
16,400.00	7,087.76	16,630.61	7,293.65	262.97	262.43	105.80	597.70	-9,756.39	767.33	260.97	506.36	1.515	Collision Risk Procedures Req.	
16,500.00	7,088.28	16,730.61	7,294.17	265.69	265.16	105.79	599.84	-9,856.36	767.48	255.85	511.63	1.500	Collision Risk Procedures Req.	
16,600.00	7,088.80	16,830.61	7,294.69	268.42	267.88	105.79	601.99	-9,956.34	767.62	250.72	516.90	1.485	Collision Avoidance Req.	
16,700.00	7,089.32	16,930.61	7,295.21	271.15	270.60	105.79	604.14	-10,056.31	767.77	245.60	522.17	1.470	Collision Avoidance Req.	
16,800.00	7,089.84	17,030.61	7,295.73	273.88	273.32	105.79	606.29	-10,156.29	767.91	240.48	527.44	1.456	Collision Avoidance Req.	
16,900.00	7,090.35	17,130.61	7,296.25	276.61	276.05	105.78	608.43	-10,256.26	768.06	235.35	532.71	1.442	Collision Avoidance Req.	
17,000.00	7,090.87	17,230.61	7,296.76	279.34	278.77	105.78	610.58	-10,356.24	768.20	230.23	537.98	1.428	Collision Avoidance Req.	
17,024.65	7,091.00	17,255.26	7,296.89	280.01	279.44	105.78	611.11	-10,380.88	768.24	228.96	539.27	1.425	Collision Avoidance Req., SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HNA-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-41.18	28.90	-25.28	38.40				
100.00	100.00	100.00	100.00	0.48	0.48	-41.18	28.90	-25.28	38.40	37.43	0.97	39.781	
200.00	200.00	200.00	200.00	1.28	1.28	-41.18	28.90	-25.28	38.40	35.83	2.56	14.972	
300.00	300.00	300.00	300.00	1.77	1.77	-41.18	28.90	-25.28	38.40	34.86	3.54	10.855	
400.00	400.00	400.00	400.00	2.15	2.15	-41.18	28.90	-25.28	38.40	34.10	4.30	8.927	
500.00	500.00	500.00	500.00	2.48	2.48	-41.18	28.90	-25.28	38.40	33.44	4.95	7.751	
600.00	600.00	600.00	600.00	2.77	2.77	-41.18	28.90	-25.28	38.40	32.86	5.53	6.937	
700.00	700.00	700.00	700.00	3.03	3.03	-41.18	28.90	-25.28	38.40	32.33	6.06	6.331	
800.00	800.00	800.00	800.00	3.28	3.28	-41.18	28.90	-25.28	38.40	31.84	6.56	5.857	
900.00	900.00	900.00	900.00	3.51	3.51	-41.18	28.90	-25.28	38.40	31.38	7.02	5.472 CC, ES	
1,000.00	999.98	999.98	999.98	3.78	3.73	110.11	28.90	-25.28	38.96	31.57	7.39	5.269	
1,083.35	1,083.22	1,083.22	1,083.22	4.28	3.90	115.55	28.90	-25.28	40.56	32.79	7.77	5.221	
1,100.00	1,099.84	1,099.84	1,099.84	4.29	3.93	116.89	28.90	-25.28	41.04	33.22	7.82	5.249	
1,200.00	1,199.64	1,198.08	1,198.06	4.47	4.33	124.18	30.43	-25.97	46.01	37.57	8.43	5.456	
1,300.00	1,299.43	1,295.84	1,295.69	4.70	5.04	129.64	35.00	-28.03	54.98	45.61	9.38	5.863	
1,400.00	1,399.23	1,394.63	1,394.20	4.95	5.22	133.27	41.79	-31.09	66.70	56.90	9.79	6.812	
1,500.00	1,499.02	1,493.86	1,493.14	5.20	5.43	135.80	48.69	-34.20	78.69	68.44	10.24	7.684	
1,600.00	1,598.82	1,593.09	1,592.08	5.47	5.67	137.67	55.59	-37.31	90.79	80.07	10.72	8.472	
1,700.00	1,698.61	1,692.32	1,691.01	5.75	5.92	139.10	62.50	-40.42	102.96	91.75	11.21	9.184	
1,800.00	1,798.41	1,791.54	1,789.95	6.04	6.18	140.22	69.40	-43.53	115.19	103.46	11.72	9.827	
1,900.00	1,898.20	1,890.77	1,888.89	6.34	6.45	141.13	76.30	-46.63	127.45	115.20	12.25	10.407	
2,000.00	1,998.00	1,990.00	1,987.83	6.64	6.73	141.88	83.20	-49.74	139.73	126.95	12.78	10.931	
2,100.00	2,097.79	2,089.23	2,086.77	6.94	7.03	142.50	90.10	-52.85	152.04	138.70	13.33	11.404	
2,200.00	2,197.59	2,188.45	2,185.71	7.26	7.32	143.04	97.00	-55.96	164.36	150.47	13.89	11.832	
2,300.00	2,297.38	2,287.68	2,284.64	7.57	7.63	143.50	103.91	-59.07	176.69	162.23	14.46	12.221	
2,400.00	2,397.18	2,386.91	2,383.58	7.89	7.94	143.90	110.81	-62.18	189.03	174.00	15.03	12.574	
2,500.00	2,496.97	2,486.13	2,482.52	8.22	8.26	144.25	117.71	-65.29	201.38	185.77	15.62	12.896	
2,600.00	2,596.77	2,585.36	2,581.46	8.54	8.58	144.56	124.61	-68.40	213.74	197.53	16.20	13.190	
2,700.00	2,696.57	2,684.59	2,680.40	8.87	8.90	144.83	131.51	-71.51	226.10	209.30	16.80	13.460	
2,800.00	2,796.36	2,783.82	2,779.33	9.21	9.23	145.08	138.42	-74.62	238.47	221.07	17.40	13.707	
2,900.00	2,896.16	2,883.04	2,878.27	9.54	9.56	145.30	145.32	-77.73	250.84	232.84	18.00	13.935	
3,000.00	2,995.95	2,982.27	2,977.21	9.87	9.90	145.50	152.22	-80.84	263.21	244.60	18.61	14.145	
3,100.00	3,095.75	3,081.50	3,076.15	10.21	10.23	145.69	159.12	-83.95	275.59	256.37	19.22	14.339	
3,200.00	3,195.54	3,180.73	3,175.09	10.55	10.57	145.86	166.02	-87.06	287.97	268.13	19.83	14.519	
3,300.00	3,295.34	3,279.95	3,274.03	10.89	10.92	146.01	172.92	-90.17	300.35	279.90	20.45	14.686	
3,400.00	3,395.13	3,379.18	3,372.96	11.23	11.26	146.15	179.83	-93.28	312.73	291.66	21.07	14.842	
3,500.00	3,494.93	3,478.41	3,471.90	11.58	11.61	146.28	186.73	-96.39	325.12	303.42	21.69	14.986	
3,600.00	3,594.72	3,577.64	3,570.84	11.92	11.95	146.40	193.63	-99.50	337.51	315.19	22.32	15.122	
3,700.00	3,694.52	3,676.86	3,669.78	12.26	12.30	146.52	200.53	-102.61	349.89	326.95	22.95	15.248	
3,800.00	3,794.31	3,776.09	3,768.72	12.61	12.65	146.62	207.43	-105.72	362.28	338.71	23.58	15.367	
3,900.00	3,894.11	3,875.32	3,867.66	12.96	13.00	146.72	214.34	-108.83	374.67	350.47	24.21	15.478	
4,000.00	3,993.90	3,974.55	3,966.59	13.30	13.36	146.81	221.24	-111.94	387.07	362.23	24.84	15.583	
4,100.00	4,093.70	4,073.77	4,065.53	13.65	13.71	146.90	228.14	-115.05	399.46	373.99	25.47	15.682	
4,200.00	4,193.49	4,173.00	4,164.47	14.00	14.07	146.98	235.04	-118.16	411.85	385.74	26.11	15.774	
4,300.00	4,293.29	4,272.23	4,263.41	14.35	14.42	147.06	241.94	-121.27	424.25	397.50	26.75	15.862	
4,400.00	4,393.08	4,371.46	4,362.35	14.70	14.78	147.13	248.84	-124.38	436.64	409.26	27.38	15.945	
4,500.00	4,492.88	4,470.68	4,461.28	15.05	15.13	147.20	255.75	-127.49	449.04	421.01	28.02	16.024	
4,600.00	4,592.68	4,569.91	4,560.22	15.40	15.49	147.26	262.65	-130.60	461.43	432.77	28.66	16.098	
4,700.00	4,692.47	4,669.14	4,659.16	15.75	15.85	147.32	269.55	-133.71	473.83	444.53	29.30	16.169	
4,800.00	4,792.27	4,768.36	4,758.10	16.10	16.21	147.38	276.45	-136.82	486.23	456.28	29.95	16.236	
4,900.00	4,892.06	4,867.59	4,857.04	16.45	16.57	147.43	283.35	-139.93	498.63	468.04	30.59	16.300	
5,000.00	4,991.86	4,966.82	4,955.98	16.81	16.93	147.49	290.26	-143.04	511.02	479.79	31.23	16.361	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HNA-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	5,066.05	5,054.91	17.16	17.29	147.54	297.16	-146.15	523.42	491.54	31.88	16.419	
5,200.00	5,191.45	5,165.27	5,153.85	17.51	17.66	147.58	304.06	-149.26	535.82	503.30	32.52	16.474	
5,300.00	5,291.24	5,264.50	5,252.79	17.87	18.02	147.63	310.96	-152.37	548.22	515.05	33.17	16.527	
5,400.00	5,391.04	5,363.73	5,351.73	18.22	18.38	147.67	317.86	-155.48	560.62	526.80	33.82	16.578	
5,500.00	5,490.83	5,462.96	5,450.67	18.57	18.74	147.71	324.76	-158.59	573.02	538.55	34.47	16.626	
5,600.00	5,590.63	5,562.18	5,549.60	18.93	19.11	147.75	331.67	-161.70	585.42	550.31	35.11	16.672	
5,700.00	5,690.42	5,661.41	5,648.54	19.28	19.47	147.79	338.57	-164.81	597.82	562.06	35.76	16.717	
5,800.00	5,790.22	5,760.64	5,747.48	19.64	19.83	147.83	345.47	-167.92	610.22	573.81	36.41	16.759	
5,900.00	5,890.01	5,859.87	5,846.42	19.99	20.20	147.86	352.37	-171.03	622.62	585.56	37.06	16.800	
6,000.00	5,989.81	5,959.09	5,945.36	20.35	20.56	147.90	359.27	-174.14	635.02	597.31	37.71	16.839	
6,100.00	6,089.60	6,058.32	6,044.30	20.70	20.93	147.93	366.18	-177.25	647.43	609.06	38.36	16.877	
6,200.00	6,189.40	6,157.55	6,143.23	21.06	21.29	147.96	373.08	-180.36	659.83	620.81	39.01	16.913	
6,300.00	6,289.19	6,256.78	6,242.17	21.41	21.66	147.99	379.98	-183.47	672.23	632.56	39.66	16.948	
6,400.00	6,388.99	6,356.00	6,341.11	21.77	22.03	148.02	386.88	-186.57	684.63	644.31	40.32	16.981	
6,498.43	6,487.22	6,451.94	6,436.68	22.12	22.39	147.91	393.58	-191.17	696.89	655.95	40.95	17.020	
6,500.00	6,488.79	6,453.43	6,438.15	22.12	22.40	145.81	393.69	-191.33	697.09	656.14	40.96	17.020	
6,550.00	6,538.54	6,500.00	6,484.07	22.32	22.63	111.45	397.01	-198.25	703.41	662.11	41.29	17.035	
6,600.00	6,587.76	6,547.90	6,530.56	22.59	22.87	101.02	400.45	-209.24	709.66	668.05	41.61	17.053	
6,650.00	6,636.08	6,594.80	6,575.01	22.84	23.08	95.98	403.83	-223.73	715.81	673.98	41.84	17.110	
6,700.00	6,683.13	6,641.50	6,617.97	23.07	23.28	92.88	407.18	-241.74	721.80	679.76	42.04	17.168	
6,750.00	6,728.55	6,688.05	6,665.17	23.29	23.48	90.68	410.47	-263.12	727.58	685.32	42.26	17.216	
6,800.00	6,771.99	6,734.47	6,698.39	23.51	23.68	89.00	413.70	-287.70	733.11	690.60	42.51	17.245	
6,850.00	6,813.13	6,780.78	6,735.41	23.72	23.87	87.67	416.85	-315.32	738.34	695.53	42.81	17.247	
6,900.00	6,851.64	6,827.01	6,770.03	23.94	24.08	86.57	419.88	-345.80	743.23	700.06	43.17	17.217	
6,950.00	6,887.25	6,873.18	6,802.03	24.16	24.29	85.66	422.79	-378.93	747.74	704.14	43.60	17.148	
7,000.00	6,919.67	6,919.32	6,831.25	24.38	24.51	84.91	425.56	-414.52	751.84	707.71	44.14	17.035	
7,050.00	6,948.65	6,965.46	6,857.51	24.62	24.75	84.29	428.18	-452.34	755.50	710.72	44.78	16.873	
7,100.00	6,973.99	7,011.60	6,880.66	24.88	25.02	83.79	430.62	-492.17	758.69	713.15	45.54	16.661	
7,150.00	6,995.49	7,057.77	6,900.53	25.18	25.32	83.40	432.87	-533.77	761.38	714.95	46.43	16.399	
7,200.00	7,012.97	7,103.99	6,917.02	25.51	25.66	83.12	434.92	-576.89	763.56	716.11	47.45	16.091	
7,250.00	7,026.32	7,150.00	6,929.93	25.89	26.04	82.94	436.74	-621.00	765.21	716.60	48.60	15.744	
7,300.00	7,035.43	7,196.64	6,939.37	26.33	26.49	82.86	438.36	-666.63	766.31	716.42	49.89	15.360	
7,350.00	7,040.22	7,243.10	6,945.06	26.84	26.99	82.88	439.73	-712.71	766.87	715.59	51.29	14.953	
7,377.14	7,041.00	7,268.36	6,946.58	27.14	27.28	82.93	440.36	-737.92	766.95	714.86	52.08	14.726	
7,380.64	7,041.02	7,271.62	6,946.70	27.18	27.32	82.94	440.44	-741.17	766.95	714.76	52.19	14.696	
7,400.00	7,041.12	7,289.84	6,947.01	27.41	27.54	82.95	440.85	-759.38	766.96	714.19	52.77	14.534	
7,500.00	7,041.64	7,389.84	6,947.53	28.77	28.92	82.95	442.99	-859.36	767.11	711.00	56.11	13.671	
7,600.00	7,042.16	7,489.84	6,948.05	30.39	30.54	82.96	445.14	-959.33	767.26	707.50	59.76	12.839	
7,700.00	7,042.67	7,589.84	6,948.57	32.22	32.35	82.96	447.29	-1,059.31	767.41	703.74	63.67	12.053	
7,800.00	7,043.19	7,689.84	6,949.09	34.20	34.31	82.96	449.44	-1,159.28	767.56	699.78	67.79	11.323	
7,900.00	7,043.71	7,789.84	6,949.60	36.31	36.40	82.96	451.58	-1,259.26	767.71	695.63	72.08	10.651	
8,000.00	7,044.23	7,889.83	6,950.12	38.52	38.58	82.96	453.73	-1,359.23	767.86	691.34	76.52	10.035	
8,100.00	7,044.75	7,989.83	6,950.64	40.80	40.83	82.96	455.88	-1,459.21	768.01	686.93	81.08	9.472	
8,200.00	7,045.26	8,089.83	6,951.16	43.15	43.15	82.96	458.03	-1,559.18	768.16	682.42	85.75	8.959	
8,300.00	7,045.78	8,189.83	6,951.68	45.54	45.52	82.96	460.17	-1,659.16	768.31	677.82	90.50	8.490	
8,400.00	7,046.30	8,289.83	6,952.20	47.97	47.93	82.97	462.32	-1,759.14	768.46	673.14	95.32	8.062	
8,500.00	7,046.82	8,389.83	6,952.71	50.44	50.37	82.97	464.47	-1,859.11	768.61	668.40	100.21	7.670	
8,600.00	7,047.34	8,489.83	6,953.23	52.94	52.85	82.97	466.62	-1,959.09	768.76	663.61	105.15	7.311	
8,700.00	7,047.86	8,589.83	6,953.75	55.46	55.35	82.97	468.77	-2,059.06	768.91	658.77	110.14	6.981	
8,800.00	7,048.37	8,689.83	6,954.27	58.00	57.87	82.97	470.91	-2,159.04	769.06	653.89	115.17	6.678	
8,900.00	7,048.89	8,789.83	6,954.79	60.56	60.41	82.97	473.06	-2,259.01	769.21	648.98	120.23	6.398	
9,000.00	7,049.41	8,889.83	6,955.30	63.13	62.97	82.97	475.21	-2,358.99	769.36	644.03	125.33	6.139	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HNA-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD				Rule Assigned:								Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
9,100.00	7,049.93	8,989.83	6,955.82	65.72	65.55	82.98	477.36	-2,458.96	769.51	639.06	130.45	5.899	
9,200.00	7,050.45	9,089.83	6,956.34	68.32	68.13	82.98	479.50	-2,558.94	769.66	634.06	135.60	5.676	
9,300.00	7,050.97	9,189.83	6,956.86	70.93	70.73	82.98	481.65	-2,658.91	769.81	629.04	140.77	5.468	
9,400.00	7,051.48	9,289.83	6,957.38	73.55	73.34	82.98	483.80	-2,758.89	769.96	624.00	145.96	5.275	
9,500.00	7,052.00	9,389.83	6,957.90	76.18	75.96	82.98	485.95	-2,858.87	770.11	618.94	151.17	5.094	
9,600.00	7,052.52	9,489.83	6,958.41	78.81	78.58	82.98	488.09	-2,958.84	770.26	613.87	156.39	4.925	
9,700.00	7,053.04	9,589.83	6,958.93	81.46	81.22	82.98	490.24	-3,058.82	770.41	608.78	161.63	4.766	
9,800.00	7,053.56	9,689.83	6,959.45	84.10	83.85	82.99	492.39	-3,158.79	770.56	603.68	166.88	4.617	
9,900.00	7,054.08	9,789.83	6,959.97	86.76	86.50	82.99	494.54	-3,258.77	770.71	598.57	172.14	4.477	
10,000.00	7,054.59	9,889.83	6,960.49	89.42	89.15	82.99	496.68	-3,358.74	770.86	593.44	177.42	4.345	
10,100.00	7,055.11	9,989.83	6,961.01	92.08	91.81	82.99	498.83	-3,458.72	771.01	588.31	182.70	4.220	
10,200.00	7,055.63	10,089.83	6,961.52	94.75	94.47	82.99	500.98	-3,558.69	771.16	583.17	187.99	4.102	
10,300.00	7,056.15	10,189.83	6,962.04	97.42	97.13	82.99	503.13	-3,658.67	771.31	578.02	193.29	3.990	
10,400.00	7,056.67	10,289.83	6,962.56	100.10	99.80	82.99	505.28	-3,758.65	771.46	572.86	198.60	3.884	
10,500.00	7,057.18	10,389.83	6,963.08	102.78	102.48	83.00	507.42	-3,858.62	771.61	567.69	203.92	3.784	
10,600.00	7,057.70	10,489.83	6,963.60	105.46	105.15	83.00	509.57	-3,958.60	771.76	562.52	209.24	3.688	
10,700.00	7,058.22	10,589.83	6,964.12	108.14	107.83	83.00	511.72	-4,058.57	771.91	557.35	214.56	3.598	
10,800.00	7,058.74	10,689.83	6,964.63	110.83	110.51	83.00	513.87	-4,158.55	772.06	552.16	219.90	3.511	
10,900.00	7,059.26	10,789.83	6,965.15	113.52	113.20	83.00	516.01	-4,258.52	772.21	546.98	225.23	3.428	
11,000.00	7,059.78	10,889.83	6,965.67	116.21	115.88	83.00	518.16	-4,358.50	772.36	541.78	230.58	3.350	
11,100.00	7,060.29	10,989.83	6,966.19	118.90	118.57	83.00	520.31	-4,458.47	772.51	536.59	235.92	3.274	
11,200.00	7,060.81	11,089.83	6,966.71	121.60	121.26	83.00	522.46	-4,558.45	772.66	531.38	241.28	3.202	
11,300.00	7,061.33	11,189.83	6,967.22	124.30	123.96	83.01	524.60	-4,658.42	772.81	526.18	246.63	3.133	
11,400.00	7,061.85	11,289.83	6,967.74	127.00	126.65	83.01	526.75	-4,758.40	772.96	520.97	251.99	3.067	
11,500.00	7,062.37	11,389.83	6,968.26	129.70	129.35	83.01	528.90	-4,858.38	773.11	515.76	257.35	3.004	
11,600.00	7,062.89	11,489.83	6,968.78	132.40	132.05	83.01	531.05	-4,958.35	773.26	510.54	262.72	2.943	
11,700.00	7,063.40	11,589.83	6,969.30	135.10	134.75	83.01	533.19	-5,058.33	773.41	505.32	268.09	2.885	
11,800.00	7,063.92	11,689.83	6,969.82	137.81	137.45	83.01	535.34	-5,158.30	773.56	500.10	273.46	2.829	
11,900.00	7,064.44	11,789.83	6,970.33	140.51	140.16	83.01	537.49	-5,258.28	773.71	494.88	278.83	2.775	
12,000.00	7,064.96	11,889.83	6,970.85	143.22	142.86	83.02	539.64	-5,358.25	773.86	489.65	284.21	2.723	
12,100.00	7,065.48	11,989.83	6,971.37	145.93	145.57	83.02	541.79	-5,458.23	774.01	484.42	289.59	2.673	
12,200.00	7,066.00	12,089.83	6,971.89	148.64	148.27	83.02	543.93	-5,558.20	774.16	479.19	294.97	2.625	
12,300.00	7,066.51	12,189.83	6,972.41	151.35	150.98	83.02	546.08	-5,658.18	774.31	473.96	300.35	2.578	
12,400.00	7,067.03	12,289.83	6,972.93	154.06	153.69	83.02	548.23	-5,758.15	774.46	468.72	305.74	2.533	
12,500.00	7,067.55	12,389.83	6,973.44	156.77	156.40	83.02	550.38	-5,858.13	774.61	463.48	311.13	2.490	
12,600.00	7,068.07	12,489.83	6,973.96	159.49	159.11	83.02	552.52	-5,958.11	774.76	458.24	316.52	2.448	
12,700.00	7,068.59	12,589.83	6,974.48	162.20	161.82	83.03	554.67	-6,058.08	774.91	453.00	321.91	2.407	
12,800.00	7,069.11	12,689.83	6,975.00	164.92	164.53	83.03	556.82	-6,158.06	775.06	447.76	327.30	2.368	
12,900.00	7,069.62	12,789.83	6,975.52	167.63	167.25	83.03	558.97	-6,258.03	775.21	442.52	332.69	2.330	
13,000.00	7,070.14	12,889.83	6,976.04	170.35	169.96	83.03	561.11	-6,358.01	775.36	437.27	338.09	2.293	
13,100.00	7,070.66	12,989.83	6,976.55	173.07	172.68	83.03	563.26	-6,457.98	775.51	432.02	343.49	2.258	
13,200.00	7,071.18	13,089.83	6,977.07	175.78	175.39	83.03	565.41	-6,557.96	775.66	426.77	348.88	2.223	
13,300.00	7,071.70	13,189.83	6,977.59	178.50	178.11	83.03	567.56	-6,657.93	775.81	421.52	354.28	2.190	
13,400.00	7,072.21	13,289.83	6,978.11	181.22	180.83	83.03	569.71	-6,757.91	775.96	416.27	359.69	2.157	
13,500.00	7,072.73	13,389.83	6,978.63	183.94	183.54	83.04	571.85	-6,857.89	776.11	411.02	365.09	2.126	
13,600.00	7,073.25	13,489.83	6,979.14	186.66	186.26	83.04	574.00	-6,957.86	776.26	405.77	370.49	2.095	
13,700.00	7,073.77	13,589.83	6,979.66	189.38	188.98	83.04	576.15	-7,057.84	776.41	400.51	375.90	2.065	
13,800.00	7,074.29	13,689.83	6,980.18	192.10	191.70	83.04	578.30	-7,157.81	776.56	395.26	381.30	2.037	
13,900.00	7,074.81	13,789.83	6,980.70	194.82	194.42	83.04	580.44	-7,257.79	776.71	390.00	386.71	2.009	
14,000.00	7,075.32	13,889.83	6,981.22	197.54	197.14	83.04	582.59	-7,357.76	776.86	384.74	392.12	1.981	Collision Risk Procedures Req.
14,100.00	7,075.84	13,989.83	6,981.74	200.27	199.86	83.04	584.74	-7,457.74	777.01	379.48	397.53	1.955	Collision Risk Procedures Req.
14,200.00	7,076.36	14,089.83	6,982.25	202.99	202.58	83.05	586.89	-7,557.71	777.16	374.22	402.93	1.929	Collision Risk Procedures Req.

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HNA-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,300.00	7,076.88	14,189.83	6,982.77	205.71	205.30	83.05	589.03	-7,657.69	777.31	368.96	408.34	1.904	Collision Risk Procedures Req.
14,400.00	7,077.40	14,289.83	6,983.29	208.44	208.03	83.05	591.18	-7,757.66	777.46	363.70	413.76	1.879	Collision Risk Procedures Req.
14,500.00	7,077.92	14,389.83	6,983.81	211.16	210.75	83.05	593.33	-7,857.64	777.61	358.44	419.17	1.855	Collision Risk Procedures Req.
14,600.00	7,078.43	14,489.83	6,984.33	213.88	213.47	83.05	595.48	-7,957.62	777.76	353.18	424.58	1.832	Collision Risk Procedures Req.
14,700.00	7,078.95	14,589.83	6,984.85	216.61	216.20	83.05	597.62	-8,057.59	777.91	347.91	429.99	1.809	Collision Risk Procedures Req.
14,800.00	7,079.47	14,689.83	6,985.36	219.33	218.92	83.05	599.77	-8,157.57	778.06	342.65	435.41	1.787	Collision Risk Procedures Req.
14,900.00	7,079.99	14,789.83	6,985.88	222.06	221.64	83.05	601.92	-8,257.54	778.21	337.38	440.82	1.765	Collision Risk Procedures Req.
15,000.00	7,080.51	14,889.83	6,986.40	224.78	224.37	83.06	604.07	-8,357.52	778.36	332.12	446.24	1.744	Collision Risk Procedures Req.
15,100.00	7,081.03	14,989.83	6,986.92	227.51	227.09	83.06	606.22	-8,457.49	778.51	326.85	451.66	1.724	Collision Risk Procedures Req.
15,200.00	7,081.54	15,089.83	6,987.44	230.24	229.82	83.06	608.36	-8,557.47	778.66	321.59	457.07	1.704	Collision Risk Procedures Req.
15,300.00	7,082.06	15,189.83	6,987.96	232.96	232.54	83.06	610.51	-8,657.44	778.81	316.32	462.49	1.684	Collision Risk Procedures Req.
15,400.00	7,082.58	15,289.83	6,988.47	235.69	235.27	83.06	612.66	-8,757.42	778.96	311.05	467.91	1.665	Collision Risk Procedures Req.
15,500.00	7,083.10	15,389.83	6,988.99	238.41	237.99	83.06	614.81	-8,857.39	779.11	305.78	473.33	1.646	Collision Risk Procedures Req.
15,600.00	7,083.62	15,489.83	6,989.51	241.14	240.72	83.06	616.95	-8,957.37	779.26	300.51	478.74	1.628	Collision Risk Procedures Req.
15,700.00	7,084.13	15,589.83	6,990.03	243.87	243.45	83.07	619.10	-9,057.35	779.41	295.24	484.16	1.610	Collision Risk Procedures Req.
15,800.00	7,084.65	15,689.83	6,990.55	246.60	246.17	83.07	621.25	-9,157.32	779.56	289.97	489.58	1.592	Collision Risk Procedures Req.
15,900.00	7,085.17	15,789.83	6,991.06	249.32	248.90	83.07	623.40	-9,257.30	779.71	284.70	495.01	1.575	Collision Risk Procedures Req.
16,000.00	7,085.69	15,889.83	6,991.58	252.05	251.63	83.07	625.54	-9,357.27	779.86	279.43	500.43	1.558	Collision Risk Procedures Req.
16,100.00	7,086.21	15,989.83	6,992.10	254.78	254.35	83.07	627.69	-9,457.25	780.01	274.16	505.85	1.542	Collision Risk Procedures Req.
16,200.00	7,086.73	16,089.83	6,992.62	257.51	257.08	83.07	629.84	-9,557.22	780.16	268.89	511.27	1.526	Collision Risk Procedures Req.
16,300.00	7,087.24	16,189.83	6,993.14	260.24	259.81	83.07	631.99	-9,657.20	780.31	263.62	516.69	1.510	Collision Risk Procedures Req.
16,400.00	7,087.76	16,289.83	6,993.66	262.97	262.54	83.07	634.13	-9,757.17	780.46	258.34	522.12	1.495	Collision Avoidance Req.
16,500.00	7,088.28	16,389.83	6,994.17	265.69	265.27	83.08	636.28	-9,857.15	780.61	253.07	527.54	1.480	Collision Avoidance Req.
16,600.00	7,088.80	16,489.83	6,994.69	268.42	267.99	83.08	638.43	-9,957.13	780.76	247.80	532.96	1.465	Collision Avoidance Req.
16,700.00	7,089.32	16,589.83	6,995.21	271.15	270.72	83.08	640.58	-10,057.10	780.91	242.52	538.39	1.450	Collision Avoidance Req.
16,800.00	7,089.84	16,689.83	6,995.73	273.88	273.45	83.08	642.73	-10,157.08	781.06	237.25	543.81	1.436	Collision Avoidance Req.
16,900.00	7,090.35	16,789.82	6,996.25	276.61	276.18	83.08	644.87	-10,257.05	781.21	231.97	549.24	1.422	Collision Avoidance Req.
17,000.00	7,090.87	16,889.82	6,996.77	279.34	278.91	83.08	647.02	-10,357.03	781.36	226.70	554.66	1.409	Collision Avoidance Req.
17,024.65	7,091.00	16,914.47	6,996.89	280.01	279.58	83.08	647.55	-10,381.67	781.39	225.40	556.00	1.405	Collision Avoidance Req., SF

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HNC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-19.27	32.68	-11.43	34.62				
100.00	100.00	100.00	100.00	0.48	0.48	-19.27	32.68	-11.43	34.62	33.65	0.97	35.868	
200.00	200.00	200.00	200.00	1.28	1.28	-19.27	32.68	-11.43	34.62	32.05	2.56	13.499	
300.00	300.00	300.00	300.00	1.77	1.77	-19.27	32.68	-11.43	34.62	31.08	3.54	9.787	
400.00	400.00	400.00	400.00	2.15	2.15	-19.27	32.68	-11.43	34.62	30.32	4.30	8.049	
500.00	500.00	500.00	500.00	2.48	2.48	-19.27	32.68	-11.43	34.62	29.67	4.95	6.988	
600.00	600.00	600.00	600.00	2.77	2.77	-19.27	32.68	-11.43	34.62	29.08	5.53	6.255	
700.00	700.00	700.00	700.00	3.03	3.03	-19.27	32.68	-11.43	34.62	28.55	6.06	5.708	
800.00	800.00	800.00	800.00	3.28	3.28	-19.27	32.68	-11.43	34.62	28.06	6.56	5.281	
900.00	900.00	900.00	900.00	3.51	3.51	-19.27	32.68	-11.43	34.62	27.60	7.02	4.934 CC, ES	
1,000.00	999.98	999.98	999.98	3.78	3.73	131.71	32.68	-11.43	35.76	28.33	7.43	4.816	
1,083.35	1,083.22	1,082.10	1,082.08	4.28	4.08	136.08	33.81	-11.74	39.81	31.70	8.11	4.910	
1,100.00	1,099.84	1,098.45	1,098.43	4.29	4.15	137.06	34.31	-11.88	41.11	32.91	8.20	5.015	
1,200.00	1,199.64	1,196.33	1,196.18	4.47	4.88	141.50	39.16	-13.23	51.08	41.95	9.12	5.598	
1,300.00	1,299.43	1,293.46	1,292.94	4.70	5.55	143.90	47.15	-15.44	64.57	54.58	9.99	6.466	
1,400.00	1,399.23	1,390.41	1,389.22	4.95	5.85	144.99	58.13	-18.49	81.26	70.77	10.48	7.751	
1,500.00	1,499.02	1,488.86	1,486.89	5.20	6.06	145.63	70.07	-21.80	98.77	87.84	10.93	9.039	
1,600.00	1,598.82	1,587.31	1,584.56	5.47	6.31	146.07	82.00	-25.11	116.29	104.87	11.42	10.186	
1,700.00	1,698.61	1,685.76	1,682.23	5.75	6.57	146.39	93.94	-28.42	133.81	121.88	11.93	11.215	
1,800.00	1,798.41	1,784.21	1,779.89	6.04	6.85	146.65	105.87	-31.73	151.34	138.87	12.47	12.139	
1,900.00	1,898.20	1,882.66	1,877.56	6.34	7.15	146.84	117.81	-35.04	168.87	155.85	13.02	12.970	
2,000.00	1,998.00	1,981.11	1,975.23	6.64	7.46	147.00	129.74	-38.35	186.40	172.81	13.59	13.716	
2,100.00	2,097.79	2,079.56	2,072.90	6.94	7.77	147.14	141.68	-41.66	203.93	189.76	14.17	14.389	
2,200.00	2,197.59	2,178.01	2,170.56	7.26	8.10	147.25	153.62	-44.97	221.47	206.70	14.77	14.995	
2,300.00	2,297.38	2,276.46	2,268.23	7.57	8.43	147.35	165.55	-48.28	239.00	223.63	15.38	15.544	
2,400.00	2,397.18	2,374.91	2,365.90	7.89	8.77	147.43	177.49	-51.59	256.54	240.54	15.99	16.041	
2,500.00	2,496.97	2,473.36	2,463.57	8.22	9.12	147.50	189.42	-54.90	274.07	257.45	16.62	16.493	
2,600.00	2,596.77	2,571.81	2,561.24	8.54	9.47	147.56	201.36	-58.21	291.61	274.36	17.25	16.905	
2,700.00	2,696.57	2,670.26	2,658.90	8.87	9.83	147.62	213.29	-61.52	309.14	291.25	17.89	17.281	
2,800.00	2,796.36	2,768.71	2,756.57	9.21	10.19	147.67	225.23	-64.83	326.68	308.14	18.54	17.625	
2,900.00	2,896.16	2,867.16	2,854.24	9.54	10.56	147.72	237.16	-68.15	344.22	325.03	19.19	17.941	
3,000.00	2,995.95	2,965.61	2,951.91	9.87	10.93	147.76	249.10	-71.46	361.75	341.91	19.84	18.231	
3,100.00	3,095.75	3,064.06	3,049.57	10.21	11.30	147.79	261.03	-74.77	379.29	358.79	20.50	18.499	
3,200.00	3,195.54	3,162.51	3,147.24	10.55	11.68	147.83	272.97	-78.08	396.83	375.66	21.17	18.747	
3,300.00	3,295.34	3,260.96	3,244.91	10.89	12.06	147.86	284.90	-81.39	414.36	392.53	21.84	18.976	
3,400.00	3,395.13	3,359.41	3,342.58	11.23	12.44	147.89	296.84	-84.70	431.90	409.39	22.51	19.189	
3,500.00	3,494.93	3,457.86	3,440.25	11.58	12.82	147.91	308.77	-88.01	449.44	426.26	23.18	19.387	
3,600.00	3,594.72	3,556.31	3,537.91	11.92	13.21	147.94	320.71	-91.32	466.98	443.11	23.86	19.571	
3,700.00	3,694.52	3,654.76	3,635.58	12.26	13.60	147.96	332.64	-94.63	484.51	459.97	24.54	19.743	
3,800.00	3,794.31	3,753.21	3,733.25	12.61	13.98	147.98	344.58	-97.94	502.05	476.83	25.22	19.904	
3,900.00	3,894.11	3,851.66	3,830.92	12.96	14.38	148.00	356.52	-101.25	519.59	493.68	25.91	20.055	
4,000.00	3,993.90	3,950.11	3,928.58	13.30	14.77	148.02	368.45	-104.56	537.13	510.53	26.59	20.197	
4,100.00	4,093.70	4,048.56	4,026.25	13.65	15.16	148.04	380.39	-107.87	554.66	527.38	27.28	20.330	
4,200.00	4,193.49	4,147.01	4,123.92	14.00	15.56	148.05	392.32	-111.18	572.20	544.23	27.97	20.455	
4,300.00	4,293.29	4,245.46	4,221.59	14.35	15.95	148.07	404.26	-114.49	589.74	561.07	28.67	20.573	
4,400.00	4,393.08	4,343.91	4,319.26	14.70	16.35	148.08	416.19	-117.80	607.28	577.92	29.36	20.684	
4,500.00	4,492.88	4,442.36	4,416.92	15.05	16.75	148.09	428.13	-121.11	624.81	594.76	30.05	20.790	
4,600.00	4,592.68	4,540.81	4,514.59	15.40	17.14	148.11	440.06	-124.42	642.35	611.60	30.75	20.889	
4,700.00	4,692.47	4,639.26	4,612.26	15.75	17.54	148.12	452.00	-127.73	659.89	628.44	31.45	20.984	
4,800.00	4,792.27	4,737.71	4,709.93	16.10	17.94	148.13	463.93	-131.04	677.43	645.28	32.15	21.073	
4,900.00	4,892.06	4,836.16	4,807.59	16.45	18.35	148.14	475.87	-134.35	694.97	662.12	32.85	21.158	
5,000.00	4,991.86	4,934.61	4,905.26	16.81	18.75	148.15	487.80	-137.67	712.50	678.96	33.55	21.239	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HNC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	5,033.06	5,002.93	17.16	19.15	148.16	499.74	-140.98	730.04	695.79	34.25	21.316	
5,200.00	5,191.45	5,131.51	5,100.60	17.51	19.55	148.17	511.67	-144.29	747.58	712.63	34.95	21.390	
5,300.00	5,291.24	5,229.96	5,198.27	17.87	19.96	148.18	523.61	-147.60	765.12	729.46	35.65	21.460	
5,400.00	5,391.04	5,328.41	5,295.93	18.22	20.36	148.19	535.54	-150.91	782.66	746.30	36.36	21.527	
5,500.00	5,490.83	5,426.86	5,393.60	18.57	20.77	148.20	547.48	-154.22	800.19	763.13	37.06	21.590	
5,600.00	5,590.63	5,525.31	5,491.27	18.93	21.17	148.20	559.41	-157.53	817.73	779.96	37.77	21.651	
5,700.00	5,690.42	5,623.76	5,588.94	19.28	21.58	148.21	571.35	-160.84	835.27	796.80	38.47	21.710	
5,800.00	5,790.22	5,722.21	5,686.60	19.64	21.98	148.22	583.29	-164.15	852.81	813.63	39.18	21.766	
5,900.00	5,890.01	5,820.66	5,784.27	19.99	22.39	148.22	595.22	-167.46	870.35	830.46	39.89	21.819	
6,000.00	5,989.81	5,919.11	5,881.94	20.35	22.80	148.23	607.16	-170.77	887.88	847.29	40.60	21.871	
6,100.00	6,089.60	6,017.56	5,979.61	20.70	23.20	148.24	619.09	-174.08	905.42	864.12	41.31	21.920	
6,200.00	6,189.40	6,116.01	6,077.28	21.06	23.61	148.24	631.03	-177.39	922.96	880.95	42.01	21.968	
6,300.00	6,289.19	6,214.46	6,174.94	21.41	24.02	148.25	642.96	-180.70	940.50	897.77	42.72	22.013	
6,400.00	6,388.99	6,312.91	6,272.61	21.77	24.43	148.26	654.90	-184.01	958.04	914.60	43.43	22.057	
6,498.43	6,487.22	6,409.82	6,368.75	22.12	24.83	148.26	666.65	-187.27	975.30	931.17	44.13	22.099	
6,500.00	6,488.79	6,411.36	6,370.28	22.12	24.84	146.16	666.83	-187.32	975.57	931.43	44.14	22.100	
6,550.00	6,538.54	6,460.53	6,419.06	22.32	25.04	111.95	672.79	-188.98	984.26	939.75	44.51	22.111	
6,600.00	6,587.76	6,509.33	6,467.47	22.59	25.24	101.91	678.71	-190.62	992.78	947.87	44.92	22.102	
6,650.00	6,636.08	6,557.39	6,515.15	22.84	25.44	97.48	684.54	-192.23	1,001.16	955.90	45.26	22.120	
6,700.00	6,683.13	6,604.36	6,561.74	23.07	25.64	95.14	690.23	-193.81	1,009.46	963.86	45.59	22.140	
6,750.00	6,728.55	6,650.60	6,607.61	23.29	25.82	93.84	695.84	-195.56	1,017.79	971.86	45.93	22.161	
6,800.00	6,771.99	6,699.02	6,655.40	23.51	26.03	93.10	701.75	-200.49	1,026.18	979.87	46.31	22.161	
6,850.00	6,813.13	6,749.36	6,704.44	23.72	26.30	92.68	707.90	-209.90	1,034.54	987.80	46.74	22.132	
6,900.00	6,851.64	6,801.86	6,754.51	23.94	26.54	92.47	714.28	-224.30	1,042.81	995.65	47.16	22.110	
6,950.00	6,887.25	6,856.79	6,805.25	24.16	26.77	92.43	720.85	-244.24	1,050.91	1,003.31	47.59	22.081	
7,000.00	6,919.67	6,914.44	6,856.19	24.38	26.99	92.52	727.58	-270.33	1,058.74	1,010.67	48.07	22.026	
7,050.00	6,948.65	6,975.08	6,906.66	24.62	27.21	92.71	734.38	-303.19	1,066.19	1,017.59	48.61	21.935	
7,100.00	6,973.99	7,038.98	6,955.79	24.88	27.45	92.99	741.18	-343.43	1,073.16	1,023.92	49.24	21.794	
7,150.00	6,995.49	7,106.33	7,002.40	25.18	27.73	93.33	747.83	-391.54	1,079.51	1,029.51	50.00	21.591	
7,200.00	7,012.97	7,177.26	7,045.05	25.51	28.06	93.72	754.16	-447.80	1,085.09	1,034.18	50.91	21.314	
7,250.00	7,026.32	7,251.73	7,082.04	25.89	28.48	94.13	759.97	-512.12	1,089.76	1,037.77	51.99	20.960	
7,300.00	7,035.43	7,329.52	7,111.48	26.33	29.04	94.53	765.02	-583.87	1,093.39	1,040.10	53.29	20.517	
7,350.00	7,040.22	7,410.17	7,131.52	26.84	29.78	94.90	769.05	-661.82	1,095.83	1,041.04	54.79	20.001	
7,377.14	7,041.00	7,454.89	7,137.89	27.14	30.25	95.08	770.73	-706.04	1,096.62	1,040.93	55.68	19.694	
7,400.00	7,041.12	7,493.00	7,140.59	27.41	30.70	95.21	771.84	-744.03	1,096.96	1,040.48	56.48	19.421	
7,500.00	7,041.64	7,600.63	7,141.46	28.77	32.13	95.22	774.15	-851.63	1,097.12	1,037.43	59.69	18.380	
7,600.00	7,042.16	7,700.63	7,141.98	30.39	33.68	95.22	776.26	-951.61	1,097.23	1,034.08	63.15	17.376	
7,700.00	7,042.67	7,800.63	7,142.50	32.22	35.40	95.22	778.37	-1,051.58	1,097.34	1,030.48	66.87	16.410	
7,800.00	7,043.19	7,900.63	7,143.02	34.20	37.26	95.22	780.49	-1,151.56	1,097.46	1,026.64	70.81	15.498	
7,900.00	7,043.71	8,000.63	7,143.53	36.31	39.23	95.22	782.60	-1,251.53	1,097.57	1,022.63	74.95	14.645	
8,000.00	7,044.23	8,100.63	7,144.05	38.52	41.30	95.22	784.71	-1,351.51	1,097.69	1,018.45	79.24	13.853	
8,100.00	7,044.75	8,200.63	7,144.57	40.80	43.44	95.22	786.82	-1,451.49	1,097.80	1,014.14	83.67	13.121	
8,200.00	7,045.26	8,300.63	7,145.09	43.15	45.65	95.22	788.93	-1,551.46	1,097.92	1,009.71	88.21	12.447	
8,300.00	7,045.78	8,400.63	7,145.61	45.54	47.92	95.22	791.04	-1,651.44	1,098.03	1,005.19	92.84	11.827	
8,400.00	7,046.30	8,500.63	7,146.13	47.97	50.23	95.22	793.16	-1,751.42	1,098.15	1,000.58	97.57	11.255	
8,500.00	7,046.82	8,600.63	7,146.65	50.44	52.58	95.22	795.27	-1,851.39	1,098.26	995.90	102.36	10.729	
8,600.00	7,047.34	8,700.63	7,147.16	52.94	54.97	95.21	797.38	-1,951.37	1,098.38	991.16	107.22	10.244	
8,700.00	7,047.86	8,800.63	7,147.68	55.46	57.39	95.21	799.49	-2,051.35	1,098.49	986.36	112.13	9.796	
8,800.00	7,048.37	8,900.63	7,148.20	58.00	59.83	95.21	801.60	-2,151.32	1,098.61	981.52	117.09	9.382	
8,900.00	7,048.89	9,000.63	7,148.72	60.56	62.30	95.21	803.71	-2,251.30	1,098.72	976.63	122.09	8.999	
9,000.00	7,049.41	9,100.63	7,149.24	63.13	64.79	95.21	805.83	-2,351.27	1,098.84	971.70	127.13	8.643	
9,100.00	7,049.93	9,200.63	7,149.76	65.72	67.30	95.21	807.94	-2,451.25	1,098.95	966.75	132.20	8.313	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,050.45	9,300.63	7,150.28	68.32	69.83	95.21	810.05	-2,551.23	1,099.06	961.76	137.30	8.005	
9,300.00	7,050.97	9,400.63	7,150.79	70.93	72.37	95.21	812.16	-2,651.20	1,099.18	956.75	142.43	7.717	
9,400.00	7,051.48	9,500.63	7,151.31	73.55	74.92	95.21	814.27	-2,751.18	1,099.29	951.71	147.58	7.449	
9,500.00	7,052.00	9,600.63	7,151.83	76.18	77.49	95.21	816.38	-2,851.16	1,099.41	946.66	152.75	7.197	
9,600.00	7,052.52	9,700.63	7,152.35	78.81	80.06	95.21	818.50	-2,951.13	1,099.52	941.58	157.94	6.961	
9,700.00	7,053.04	9,800.63	7,152.87	81.46	82.65	95.21	820.61	-3,051.11	1,099.64	936.49	163.15	6.740	
9,800.00	7,053.56	9,900.63	7,153.39	84.10	85.25	95.21	822.72	-3,151.08	1,099.75	931.38	168.37	6.532	
9,900.00	7,054.08	10,000.63	7,153.91	86.76	87.85	95.21	824.83	-3,251.06	1,099.87	926.26	173.61	6.335	
10,000.00	7,054.59	10,100.63	7,154.42	89.42	90.47	95.21	826.94	-3,351.04	1,099.98	921.12	178.86	6.150	
10,100.00	7,055.11	10,200.63	7,154.94	92.08	93.09	95.21	829.05	-3,451.01	1,100.10	915.97	184.12	5.975	
10,200.00	7,055.63	10,300.63	7,155.46	94.75	95.71	95.21	831.17	-3,550.99	1,100.21	910.81	189.40	5.809	
10,300.00	7,056.15	10,400.63	7,155.98	97.42	98.34	95.21	833.28	-3,650.97	1,100.33	905.65	194.68	5.652	
10,400.00	7,056.67	10,500.63	7,156.50	100.10	100.98	95.21	835.39	-3,750.94	1,100.44	900.47	199.97	5.503	
10,500.00	7,057.18	10,600.63	7,157.02	102.78	103.62	95.20	837.50	-3,850.92	1,100.56	895.28	205.27	5.361	
10,600.00	7,057.70	10,700.63	7,157.54	105.46	106.27	95.20	839.61	-3,950.89	1,100.67	890.09	210.58	5.227	
10,700.00	7,058.22	10,800.63	7,158.05	108.14	108.92	95.20	841.73	-4,050.87	1,100.78	884.89	215.90	5.099	
10,800.00	7,058.74	10,900.63	7,158.57	110.83	111.58	95.20	843.84	-4,150.85	1,100.90	879.68	221.22	4.976	
10,900.00	7,059.26	11,000.63	7,159.09	113.52	114.24	95.20	845.95	-4,250.82	1,101.01	874.47	226.55	4.860	
11,000.00	7,059.78	11,100.63	7,159.61	116.21	116.90	95.20	848.06	-4,350.80	1,101.13	869.25	231.88	4.749	
11,100.00	7,060.29	11,200.63	7,160.13	118.90	119.57	95.20	850.17	-4,450.78	1,101.24	864.02	237.22	4.642	
11,200.00	7,060.81	11,300.63	7,160.65	121.60	122.24	95.20	852.28	-4,550.75	1,101.36	858.79	242.57	4.540	
11,300.00	7,061.33	11,400.63	7,161.17	124.30	124.91	95.20	854.40	-4,650.73	1,101.47	853.56	247.92	4.443	
11,400.00	7,061.85	11,500.63	7,161.68	127.00	127.58	95.20	856.51	-4,750.71	1,101.59	848.32	253.27	4.349	
11,500.00	7,062.37	11,600.63	7,162.20	129.70	130.26	95.20	858.62	-4,850.68	1,101.70	843.07	258.63	4.260	
11,600.00	7,062.89	11,700.63	7,162.72	132.40	132.94	95.20	860.73	-4,950.66	1,101.82	837.82	263.99	4.174	
11,700.00	7,063.40	11,800.63	7,163.24	135.10	135.62	95.20	862.84	-5,050.63	1,101.93	832.57	269.36	4.091	
11,800.00	7,063.92	11,900.63	7,163.76	137.81	138.31	95.20	864.95	-5,150.61	1,102.05	827.32	274.73	4.011	
11,900.00	7,064.44	12,000.63	7,164.28	140.51	140.99	95.20	867.07	-5,250.59	1,102.16	822.06	280.10	3.935	
12,000.00	7,064.96	12,100.63	7,164.80	143.22	143.68	95.20	869.18	-5,350.56	1,102.28	816.80	285.48	3.861	
12,100.00	7,065.48	12,200.62	7,165.31	145.93	146.37	95.20	871.29	-5,450.54	1,102.39	811.54	290.86	3.790	
12,200.00	7,066.00	12,300.62	7,165.83	148.64	149.06	95.20	873.40	-5,550.52	1,102.51	806.27	296.24	3.722	
12,300.00	7,066.51	12,400.62	7,166.35	151.35	151.76	95.20	875.51	-5,650.49	1,102.62	801.00	301.62	3.656	
12,400.00	7,067.03	12,500.62	7,166.87	154.06	154.45	95.19	877.62	-5,750.47	1,102.73	795.73	307.01	3.592	
12,500.00	7,067.55	12,600.62	7,167.39	156.77	157.15	95.19	879.74	-5,850.44	1,102.85	790.45	312.40	3.530	
12,600.00	7,068.07	12,700.62	7,167.91	159.49	159.84	95.19	881.85	-5,950.42	1,102.96	785.18	317.79	3.471	
12,700.00	7,068.59	12,800.62	7,168.43	162.20	162.54	95.19	883.96	-6,050.40	1,103.08	779.90	323.18	3.413	
12,800.00	7,069.11	12,900.62	7,168.94	164.92	165.24	95.19	886.07	-6,150.37	1,103.19	774.62	328.58	3.357	
12,900.00	7,069.62	13,000.62	7,169.46	167.63	167.95	95.19	888.18	-6,250.35	1,103.31	769.33	333.97	3.304	
13,000.00	7,070.14	13,100.62	7,169.98	170.35	170.65	95.19	890.29	-6,350.33	1,103.42	764.05	339.37	3.251	
13,100.00	7,070.66	13,200.62	7,170.50	173.07	173.35	95.19	892.41	-6,450.30	1,103.54	758.76	344.77	3.201	
13,200.00	7,071.18	13,300.62	7,171.02	175.78	176.06	95.19	894.52	-6,550.28	1,103.65	753.48	350.18	3.152	
13,300.00	7,071.70	13,400.62	7,171.54	178.50	178.76	95.19	896.63	-6,650.25	1,103.77	748.19	355.58	3.104	
13,400.00	7,072.21	13,500.62	7,172.06	181.22	181.47	95.19	898.74	-6,750.23	1,103.88	742.90	360.98	3.058	
13,500.00	7,072.73	13,600.62	7,172.57	183.94	184.18	95.19	900.85	-6,850.21	1,104.00	737.60	366.39	3.013	
13,600.00	7,073.25	13,700.62	7,173.09	186.66	186.88	95.19	902.97	-6,950.18	1,104.11	732.31	371.80	2.970	
13,700.00	7,073.77	13,800.62	7,173.61	189.38	189.59	95.19	905.08	-7,050.16	1,104.23	727.02	377.21	2.927	
13,800.00	7,074.29	13,900.62	7,174.13	192.10	192.30	95.19	907.19	-7,150.14	1,104.34	721.72	382.62	2.886	
13,900.00	7,074.81	14,000.62	7,174.65	194.82	195.01	95.19	909.30	-7,250.11	1,104.45	716.42	388.03	2.846	
14,000.00	7,075.32	14,100.62	7,175.17	197.54	197.73	95.19	911.41	-7,350.09	1,104.57	711.12	393.45	2.807	
14,100.00	7,075.84	14,200.62	7,175.69	200.27	200.44	95.19	913.52	-7,450.06	1,104.68	705.82	398.86	2.770	
14,200.00	7,076.36	14,300.62	7,176.20	202.99	203.15	95.19	915.64	-7,550.04	1,104.80	700.52	404.28	2.733	
14,300.00	7,076.88	14,400.62	7,176.72	205.71	205.86	95.18	917.75	-7,650.02	1,104.91	695.22	409.69	2.697	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4X-HNC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,400.00	7,077.40	14,500.62	7,177.24	208.44	208.58	95.18	919.86	-7,749.99	1,105.03	689.92	415.11	2.662	
14,500.00	7,077.92	14,600.62	7,177.76	211.16	211.29	95.18	921.97	-7,849.97	1,105.14	684.61	420.53	2.628	
14,600.00	7,078.43	14,700.62	7,178.28	213.88	214.01	95.18	924.08	-7,949.95	1,105.26	679.31	425.95	2.595	
14,700.00	7,078.95	14,800.62	7,178.80	216.61	216.72	95.18	926.19	-8,049.92	1,105.37	674.00	431.37	2.562	
14,800.00	7,079.47	14,900.62	7,179.32	219.33	219.44	95.18	928.31	-8,149.90	1,105.49	668.70	436.79	2.531	
14,900.00	7,079.99	15,000.62	7,179.83	222.06	222.16	95.18	930.42	-8,249.88	1,105.60	663.39	442.21	2.500	
15,000.00	7,080.51	15,100.62	7,180.35	224.78	224.88	95.18	932.53	-8,349.85	1,105.72	658.08	447.63	2.470	
15,100.00	7,081.03	15,200.62	7,180.87	227.51	227.59	95.18	934.64	-8,449.83	1,105.83	652.77	453.06	2.441	
15,200.00	7,081.54	15,300.62	7,181.39	230.24	230.31	95.18	936.75	-8,549.80	1,105.95	647.46	458.48	2.412	
15,300.00	7,082.06	15,400.62	7,181.91	232.96	233.03	95.18	938.86	-8,649.78	1,106.06	642.15	463.91	2.384	
15,400.00	7,082.58	15,500.62	7,182.43	235.69	235.75	95.18	940.98	-8,749.76	1,106.17	636.84	469.33	2.357	
15,500.00	7,083.10	15,600.62	7,182.95	238.41	238.47	95.18	943.09	-8,849.73	1,106.29	631.53	474.76	2.330	
15,600.00	7,083.62	15,700.62	7,183.46	241.14	241.19	95.18	945.20	-8,949.71	1,106.40	626.22	480.19	2.304	
15,700.00	7,084.13	15,800.62	7,183.98	243.87	243.91	95.18	947.31	-9,049.69	1,106.52	620.91	485.61	2.279	
15,800.00	7,084.65	15,900.62	7,184.50	246.60	246.63	95.18	949.42	-9,149.66	1,106.63	615.59	491.04	2.254	
15,900.00	7,085.17	16,000.62	7,185.02	249.32	249.35	95.18	951.53	-9,249.64	1,106.75	610.28	496.47	2.229	
16,000.00	7,085.69	16,100.62	7,185.54	252.05	252.07	95.18	953.65	-9,349.61	1,106.86	604.96	501.90	2.205	
16,100.00	7,086.21	16,200.62	7,186.06	254.78	254.80	95.18	955.76	-9,449.59	1,106.98	599.65	507.33	2.182	
16,200.00	7,086.73	16,300.62	7,186.58	257.51	257.52	95.17	957.87	-9,549.57	1,107.09	594.33	512.76	2.159	
16,300.00	7,087.24	16,400.62	7,187.09	260.24	260.24	95.17	959.98	-9,649.54	1,107.21	589.02	518.19	2.137	
16,400.00	7,087.76	16,500.62	7,187.61	262.97	262.96	95.17	962.09	-9,749.52	1,107.32	583.70	523.62	2.115	
16,500.00	7,088.28	16,600.62	7,188.13	265.69	265.69	95.17	964.21	-9,849.50	1,107.44	578.38	529.05	2.093	
16,600.00	7,088.80	16,700.62	7,188.65	268.42	268.41	95.17	966.32	-9,949.47	1,107.55	573.06	534.49	2.072	
16,700.00	7,089.32	16,800.62	7,189.17	271.15	271.13	95.17	968.43	-10,049.45	1,107.67	567.75	539.92	2.052	
16,800.00	7,089.84	16,900.62	7,189.69	273.88	273.86	95.17	970.54	-10,149.42	1,107.78	562.43	545.35	2.031	
16,900.00	7,090.35	17,000.62	7,190.21	276.61	276.58	95.17	972.65	-10,249.40	1,107.90	557.11	550.79	2.011	
17,000.00	7,090.87	17,100.62	7,190.72	279.34	279.31	95.17	974.76	-10,349.38	1,108.01	551.79	556.22	1.992 Collision Risk Procedures Req.	
17,024.65	7,091.00	17,125.27	7,190.85	280.01	279.98	95.17	975.28	-10,374.02	1,108.04	550.48	557.56	1.987 Collision Risk Procedures Req., SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-159.46	-296.19	-111.00	316.31				
100.00	100.00	98.00	98.00	0.48	0.47	-159.46	-296.19	-111.00	316.30	315.35	0.96	331.022	
200.00	200.00	198.00	198.00	1.28	1.27	-159.46	-296.19	-111.00	316.30	313.75	2.55	124.108	
300.00	300.00	298.00	298.00	1.77	1.76	-159.46	-296.19	-111.00	316.30	312.78	3.53	89.670	
400.00	400.00	398.00	398.00	2.15	2.14	-159.46	-296.19	-111.00	316.30	312.01	4.29	73.672	
500.00	500.00	498.00	498.00	2.48	2.47	-159.46	-296.19	-111.00	316.30	311.36	4.95	63.936	
600.00	600.00	598.00	598.00	2.77	2.76	-159.46	-296.19	-111.00	316.30	310.77	5.53	57.209	
700.00	700.00	698.00	698.00	3.03	3.03	-159.46	-296.19	-111.00	316.30	310.24	6.06	52.200	
800.00	800.00	798.00	798.00	3.28	3.27	-159.46	-296.19	-111.00	316.30	309.75	6.55	48.283	
900.00	900.00	898.00	898.00	3.51	3.50	-159.46	-296.19	-111.00	316.30	309.29	7.01	45.108	
1,000.00	999.98	997.98	997.98	3.78	3.72	-10.67	-296.19	-111.00	314.59	307.10	7.49	41.993	
1,083.35	1,083.22	1,081.22	1,081.22	4.28	3.89	-10.83	-296.19	-111.00	310.54	302.39	8.15	38.094	
1,100.00	1,099.84	1,097.84	1,097.84	4.29	3.93	-10.86	-296.19	-111.00	309.49	301.30	8.20	37.749	
1,200.00	1,199.64	1,197.64	1,197.64	4.47	4.13	-11.09	-296.19	-111.00	303.22	294.64	8.58	35.347	
1,300.00	1,299.43	1,297.43	1,297.43	4.70	4.32	-11.33	-296.19	-111.00	296.94	287.95	9.00	33.011	
1,400.00	1,399.23	1,397.23	1,397.23	4.95	4.50	-11.58	-296.19	-111.00	290.67	281.25	9.42	30.855	
1,500.00	1,499.02	1,492.12	1,492.11	5.20	4.71	-12.07	-297.35	-110.08	285.24	275.43	9.81	29.082	
1,600.00	1,598.82	1,586.82	1,586.68	5.47	5.29	-13.12	-300.95	-107.21	281.64	271.29	10.35	27.213	
1,700.00	1,698.61	1,681.24	1,680.79	5.75	5.87	-14.72	-306.98	-102.41	280.04	269.12	10.92	25.649	
1,723.86	1,722.43	1,703.72	1,703.15	5.82	6.01	-15.18	-308.77	-100.98	279.97	268.92	11.06	25.318 CC, ES	
1,800.00	1,798.41	1,775.20	1,774.13	6.04	6.42	-16.82	-315.38	-95.72	280.66	269.14	11.52	24.359	
1,900.00	1,898.20	1,868.48	1,866.40	6.34	6.95	-19.38	-326.09	-87.20	283.78	271.62	12.16	23.334	
2,000.00	1,998.00	1,960.92	1,957.34	6.64	7.45	-22.28	-339.01	-76.91	289.73	276.89	12.84	22.569	
2,100.00	2,097.79	2,052.31	2,046.69	6.94	7.94	-25.43	-354.04	-64.94	298.79	285.25	13.54	22.067	
2,200.00	2,197.59	2,142.51	2,134.23	7.26	8.42	-28.70	-371.05	-51.40	311.23	296.97	14.26	21.831 SF	
2,300.00	2,297.38	2,231.36	2,219.74	7.57	8.89	-31.98	-389.90	-36.39	327.22	312.25	14.97	21.857	
2,400.00	2,397.18	2,318.72	2,303.05	7.89	9.34	-35.18	-410.45	-20.03	346.88	331.21	15.67	22.136	
2,500.00	2,496.97	2,400.00	2,379.82	8.22	9.76	-38.06	-431.35	-3.39	370.24	353.95	16.29	22.732	
2,600.00	2,596.77	2,488.51	2,462.51	8.54	10.21	-41.05	-456.03	16.26	397.17	380.18	16.99	23.382	
2,700.00	2,696.57	2,570.75	2,538.43	8.87	10.63	-43.64	-480.75	35.94	427.65	410.05	17.60	24.305	
2,800.00	2,796.36	2,651.11	2,611.72	9.21	11.04	-46.00	-506.54	56.47	461.51	443.34	18.17	25.399	
2,900.00	2,896.16	2,729.53	2,682.32	9.54	11.43	-48.11	-533.25	77.73	498.58	479.87	18.71	26.644	
3,000.00	2,995.95	2,800.00	2,744.94	9.87	11.78	-49.86	-558.53	97.86	538.74	519.60	19.14	28.148	
3,100.00	3,095.75	2,880.41	2,815.40	10.21	12.18	-51.69	-588.84	121.99	581.71	561.99	19.72	29.503	
3,200.00	3,195.54	2,952.82	2,877.89	10.55	12.54	-53.18	-617.44	144.77	627.43	607.24	20.18	31.087	
3,300.00	3,295.34	3,023.19	2,937.72	10.89	12.89	-54.51	-646.42	167.84	675.70	655.07	20.63	32.747	
3,400.00	3,395.13	3,091.53	2,994.94	11.23	13.23	-55.69	-675.66	191.11	726.39	705.31	21.08	34.464	
3,500.00	3,494.93	3,172.18	3,061.75	11.58	13.56	-56.94	-711.00	219.25	778.72	757.10	21.62	36.025	
3,600.00	3,594.72	3,256.07	3,131.22	11.92	13.87	-58.08	-747.79	248.54	831.35	809.20	22.15	37.531	
3,700.00	3,694.52	3,339.96	3,200.69	12.26	14.16	-59.10	-784.57	277.83	884.20	861.53	22.67	38.995	
3,800.00	3,794.31	3,423.85	3,270.17	12.61	14.47	-60.00	-821.36	307.11	937.23	914.02	23.21	40.384	
3,900.00	3,894.11	3,507.74	3,339.64	12.96	15.21	-60.80	-858.15	336.40	990.41	966.63	23.78	41.648	
4,000.00	3,993.90	3,591.63	3,409.12	13.30	16.07	-61.53	-894.93	365.69	1,043.72	1,019.38	24.34	42.880	
4,100.00	4,093.70	3,675.52	3,478.59	13.65	16.94	-62.18	-931.72	394.98	1,097.14	1,072.23	24.91	44.044	
4,200.00	4,193.49	3,759.41	3,548.07	14.00	17.81	-62.78	-968.50	424.26	1,150.66	1,125.17	25.49	45.148	
4,300.00	4,293.29	3,843.31	3,617.54	14.35	18.69	-63.32	-1,005.29	453.55	1,204.25	1,178.18	26.07	46.194	
4,400.00	4,393.08	3,927.20	3,687.02	14.70	19.57	-63.82	-1,042.08	482.84	1,257.92	1,231.26	26.66	47.184	
4,500.00	4,492.88	4,011.09	3,756.49	15.05	20.46	-64.27	-1,078.86	512.13	1,311.65	1,284.39	27.26	48.122	
4,600.00	4,592.68	4,094.98	3,825.97	15.40	21.35	-64.69	-1,115.65	541.41	1,365.44	1,337.57	27.86	49.008	
4,700.00	4,692.47	4,178.87	3,895.44	15.75	22.24	-65.08	-1,152.44	570.70	1,419.27	1,390.80	28.47	49.846	
4,800.00	4,792.27	4,262.76	3,964.91	16.10	23.13	-65.45	-1,189.22	599.99	1,473.15	1,444.06	29.09	50.641	
4,900.00	4,892.06	4,346.65	4,034.39	16.45	24.03	-65.78	-1,226.01	629.28	1,527.06	1,497.35	29.71	51.396	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4Y-HC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,430.54	4,103.86	16.81	24.93	-66.09	-1,262.79	658.56	1,581.02	1,550.68	30.34	52.113	
5,100.00	5,091.85	4,514.43	4,173.34	17.16	25.83	-66.39	-1,299.58	687.85	1,635.00	1,604.03	30.97	52.794	
5,200.00	5,191.45	4,598.32	4,242.81	17.51	26.74	-66.66	-1,336.37	717.14	1,689.01	1,657.41	31.61	53.441	
5,300.00	5,291.24	4,682.21	4,312.29	17.87	27.64	-66.92	-1,373.15	746.42	1,743.05	1,710.80	32.25	54.054	
5,400.00	5,391.04	4,766.11	4,381.76	18.22	28.55	-67.16	-1,409.94	775.71	1,797.11	1,764.22	32.89	54.638	
5,500.00	5,490.83	4,850.00	4,451.24	18.57	29.45	-67.39	-1,446.73	805.00	1,851.19	1,817.65	33.54	55.194	
5,600.00	5,590.63	4,933.89	4,520.71	18.93	30.36	-67.60	-1,483.51	834.29	1,905.29	1,871.10	34.19	55.724	
5,700.00	5,690.42	5,017.78	4,590.19	19.28	31.27	-67.81	-1,520.30	863.57	1,959.41	1,924.57	34.85	56.229	
5,800.00	5,790.22	5,101.67	4,659.66	19.64	32.18	-68.00	-1,557.08	892.86	2,013.55	1,978.04	35.51	56.711	
5,900.00	5,890.01	5,185.56	4,729.14	19.99	33.09	-68.18	-1,593.87	922.15	2,067.70	2,031.53	36.17	57.169	
6,000.00	5,989.81	5,269.45	4,798.61	20.35	34.01	-68.35	-1,630.66	951.44	2,121.87	2,085.04	36.83	57.607	
6,100.00	6,089.60	5,353.34	4,868.08	20.70	34.92	-68.52	-1,667.44	980.72	2,176.05	2,138.55	37.50	58.026	
6,200.00	6,189.40	5,437.23	4,937.56	21.06	35.83	-68.67	-1,704.23	1,010.01	2,230.24	2,192.07	38.17	58.425	
6,300.00	6,289.19	5,521.12	5,007.03	21.41	36.75	-68.82	-1,741.02	1,039.30	2,284.44	2,245.60	38.85	58.808	
6,400.00	6,388.99	10,155.87	7,232.90	21.77	50.64	-122.88	-275.38	1,940.73	2,282.32	2,226.55	55.77	40.924	
6,498.43	6,487.22	10,151.03	7,232.87	22.12	50.64	-122.76	-280.22	1,940.79	2,250.88	2,193.96	56.92	39.544	
6,500.00	6,488.79	10,150.96	7,232.87	22.12	50.64	-124.83	-280.29	1,940.79	2,250.41	2,193.48	56.94	39.524	
6,550.00	6,538.54	10,148.58	7,232.86	22.32	50.64	-158.17	-282.67	1,940.82	2,238.21	2,180.61	57.59	38.861	
6,600.00	6,587.76	10,146.37	7,232.85	22.59	50.64	-167.64	-284.88	1,940.85	2,231.35	2,172.90	58.45	38.177	
6,637.90	6,624.50	10,144.81	7,232.84	22.78	50.64	-171.02	-286.44	1,940.86	2,229.77	2,170.63	59.14	37.702	
6,650.00	6,636.08	10,144.34	7,232.84	22.84	50.64	-171.78	-286.91	1,940.87	2,229.93	2,170.57	59.36	37.564	
6,700.00	6,683.13	10,142.51	7,232.83	23.07	50.64	-174.08	-288.75	1,940.89	2,233.99	2,173.70	60.29	37.055	
6,750.00	6,728.55	10,140.88	7,232.82	23.29	50.64	-175.54	-290.37	1,940.91	2,243.45	2,182.26	61.19	36.662	
6,800.00	6,771.99	10,139.49	7,232.81	23.51	50.64	-176.56	-291.76	1,940.93	2,258.19	2,196.13	62.06	36.387	
6,850.00	6,813.13	10,138.33	7,232.81	23.72	50.64	-177.34	-292.92	1,940.94	2,277.98	2,215.11	62.87	36.232	
6,900.00	6,851.64	10,137.41	7,232.80	23.94	50.64	-177.97	-293.84	1,940.95	2,302.56	2,238.94	63.62	36.192	
6,950.00	6,887.25	10,136.74	7,232.80	24.16	50.64	-178.53	-294.51	1,940.96	2,331.57	2,267.28	64.30	36.263	
7,000.00	6,919.67	10,136.33	7,232.80	24.38	50.64	-179.05	-294.92	1,940.96	2,364.66	2,299.76	64.89	36.438	
7,050.00	6,948.65	10,136.17	7,232.80	24.62	50.64	-179.60	-295.08	1,940.97	2,401.39	2,335.98	65.42	36.710	
7,100.00	6,973.99	10,136.28	7,232.80	24.88	50.64	179.79	-294.97	1,940.96	2,441.34	2,375.48	65.86	37.070	
7,150.00	6,995.49	10,136.64	7,232.80	25.18	50.64	179.04	-294.61	1,940.96	2,484.05	2,417.83	66.22	37.510	
7,200.00	7,012.97	10,137.26	7,232.80	25.51	50.64	178.02	-293.99	1,940.95	2,529.06	2,462.55	66.52	38.022	
7,250.00	7,026.32	10,138.14	7,232.81	25.89	50.64	176.45	-293.11	1,940.94	2,575.93	2,509.19	66.74	38.596	
7,300.00	7,035.43	10,139.25	7,232.81	26.33	50.64	173.65	-292.00	1,940.93	2,624.20	2,557.30	66.90	39.225	
7,350.00	7,040.22	10,140.61	7,232.82	26.84	50.64	167.07	-290.64	1,940.91	2,673.44	2,606.44	67.00	39.899	
7,377.14	7,041.00	10,141.44	7,232.83	27.14	50.64	157.85	-289.81	1,940.90	2,700.43	2,633.39	67.04	40.282	
7,400.00	7,041.12	10,142.17	7,232.83	27.41	50.64	157.68	-289.09	1,940.90	2,723.21	2,656.15	67.06	40.609	
7,500.00	7,041.64	10,145.35	7,232.85	28.77	50.64	156.94	-285.91	1,940.86	2,822.88	2,755.73	67.15	42.041	
7,600.00	7,042.16	10,148.52	7,232.86	30.39	50.64	156.20	-282.73	1,940.82	2,922.57	2,855.34	67.23	43.471	
7,700.00	7,042.67	10,151.70	7,232.88	32.22	50.64	155.47	-279.55	1,940.78	3,022.28	2,954.96	67.31	44.900	
7,800.00	7,043.19	10,154.88	7,232.89	34.20	50.64	154.75	-276.37	1,940.75	3,122.00	3,054.61	67.39	46.327	
7,900.00	7,043.71	10,158.06	7,232.91	36.31	50.64	154.04	-273.19	1,940.71	3,221.73	3,154.26	67.47	47.752	
8,000.00	7,044.23	10,161.24	7,232.93	38.52	50.64	153.34	-270.01	1,940.67	3,321.48	3,253.94	67.54	49.175	
8,100.00	7,044.75	10,164.42	7,232.94	40.80	50.64	152.65	-266.83	1,940.63	3,421.24	3,353.62	67.62	50.597	
8,200.00	7,045.26	10,167.60	7,232.96	43.15	50.64	151.96	-263.65	1,940.59	3,521.01	3,453.32	67.69	52.016	
8,300.00	7,045.78	10,170.78	7,232.98	45.54	50.65	151.29	-260.47	1,940.56	3,620.79	3,553.03	67.76	53.433	
8,400.00	7,046.30	10,173.96	7,232.99	47.97	50.65	150.62	-257.29	1,940.52	3,720.58	3,652.75	67.84	54.847	
8,500.00	7,046.82	10,177.14	7,233.01	50.44	50.65	149.96	-254.11	1,940.48	3,820.38	3,752.47	67.91	56.259	
8,600.00	7,047.34	5,523.28	5,008.82	52.94	36.77	-34.43	-1,741.96	1,040.05	3,915.11	3,862.30	52.81	74.141	
8,700.00	7,047.86	5,487.93	4,979.54	55.46	36.38	-33.75	-1,726.46	1,027.71	3,993.44	3,940.35	53.09	75.217	
8,800.00	7,048.37	5,452.58	4,950.27	58.00	36.00	-33.09	-1,710.96	1,015.37	4,072.42	4,019.08	53.34	76.344	
8,900.00	7,048.89	5,417.23	4,920.99	60.56	35.61	-32.42	-1,695.46	1,003.03	4,152.00	4,098.44	53.56	77.522	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4Y-HC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,000.00	7,049.41	5,381.88	4,891.71	63.13	35.23	-31.77	-1,679.95	990.68	4,232.16	4,178.41	53.74	78.749	
9,100.00	7,049.93	5,346.53	4,862.44	65.72	34.84	-31.13	-1,664.45	978.34	4,312.85	4,258.95	53.89	80.024	
9,200.00	7,050.45	5,311.18	4,833.16	68.32	34.46	-30.50	-1,648.95	966.00	4,394.05	4,340.03	54.02	81.347	
9,300.00	7,050.97	5,275.83	4,803.89	70.93	34.07	-29.87	-1,633.45	953.66	4,475.73	4,421.62	54.11	82.716	
9,400.00	7,051.48	5,240.48	4,774.61	73.55	33.69	-29.25	-1,617.95	941.32	4,557.87	4,503.70	54.18	84.130	
9,500.00	7,052.00	5,205.13	4,745.34	76.18	33.31	-28.64	-1,602.45	928.98	4,640.45	4,586.23	54.22	85.589	
9,600.00	7,052.52	5,169.78	4,716.06	78.81	32.92	-28.04	-1,586.95	916.64	4,723.43	4,669.19	54.24	87.092	
9,700.00	7,053.04	5,134.43	4,686.79	81.46	32.54	-27.45	-1,571.45	904.30	4,806.79	4,752.56	54.23	88.638	
9,800.00	7,053.56	5,099.08	4,657.51	84.10	32.15	-26.87	-1,555.95	891.96	4,890.53	4,836.33	54.20	90.228	
9,900.00	7,054.08	5,063.73	4,628.24	86.76	31.77	-26.30	-1,540.45	879.61	4,974.62	4,920.46	54.15	91.860	
10,000.00	7,054.59	5,028.38	4,598.96	89.42	31.39	-25.73	-1,524.94	867.27	5,059.04	5,004.95	54.09	93.534	
10,100.00	7,055.11	4,993.03	4,569.69	92.08	31.00	-25.17	-1,509.44	854.93	5,143.77	5,089.77	54.00	95.250	
10,200.00	7,055.63	4,957.68	4,540.41	94.75	30.62	-24.62	-1,493.94	842.59	5,228.80	5,174.90	53.90	97.007	
10,300.00	7,056.15	4,922.32	4,511.14	97.42	30.24	-24.08	-1,478.44	830.25	5,314.12	5,260.34	53.78	98.805	
10,400.00	7,056.67	4,886.97	4,481.86	100.10	29.85	-23.55	-1,462.94	817.91	5,399.72	5,346.06	53.65	100.644	
10,500.00	7,057.18	4,851.62	4,452.59	102.78	29.47	-23.02	-1,447.44	805.57	5,485.57	5,432.06	53.51	102.523	
10,600.00	7,057.70	4,816.27	4,423.31	105.46	29.09	-22.50	-1,431.94	793.23	5,571.67	5,518.32	53.35	104.443	
10,700.00	7,058.22	4,780.92	4,394.03	108.14	28.71	-21.99	-1,416.44	780.89	5,658.00	5,604.83	53.18	106.402	
10,800.00	7,058.74	4,745.57	4,364.76	110.83	28.32	-21.49	-1,400.94	768.54	5,744.57	5,691.57	52.99	108.401	
10,900.00	7,059.26	4,710.22	4,335.48	113.52	27.94	-21.00	-1,385.44	756.20	5,831.34	5,778.54	52.80	110.441	
11,000.00	7,059.78	4,674.87	4,306.21	116.21	27.56	-20.51	-1,369.93	743.86	5,918.33	5,865.73	52.60	112.518	
11,100.00	7,060.29	4,639.52	4,276.93	118.90	27.18	-20.03	-1,354.43	731.52	6,005.51	5,953.12	52.39	114.635	
11,200.00	7,060.81	4,604.17	4,247.66	121.60	26.80	-19.56	-1,338.93	719.18	6,092.88	6,040.71	52.17	116.793	
11,300.00	7,061.33	4,568.82	4,218.38	124.30	26.42	-19.09	-1,323.43	706.84	6,180.43	6,128.49	51.94	118.987	
11,400.00	7,061.85	4,533.47	4,189.11	127.00	26.04	-18.63	-1,307.93	694.50	6,268.15	6,216.44	51.71	121.220	
11,500.00	7,062.37	4,498.12	4,159.83	129.70	25.66	-18.18	-1,292.43	682.16	6,356.04	6,304.57	51.47	123.494	
11,600.00	7,062.89	4,462.77	4,130.56	132.40	25.28	-17.73	-1,276.93	669.81	6,444.09	6,392.87	51.22	125.802	
11,700.00	7,063.40	4,427.42	4,101.28	135.10	24.90	-17.30	-1,261.43	657.47	6,532.29	6,481.32	50.97	128.150	
11,800.00	7,063.92	4,392.07	4,072.01	137.81	24.52	-16.86	-1,245.93	645.13	6,620.64	6,569.92	50.72	130.536	
11,900.00	7,064.44	4,356.72	4,042.73	140.51	24.14	-16.44	-1,230.42	632.79	6,709.13	6,658.67	50.46	132.956	
12,000.00	7,064.96	4,321.37	4,013.46	143.22	23.76	-16.02	-1,214.92	620.45	6,797.75	6,747.55	50.20	135.415	
12,100.00	7,065.48	4,286.02	3,984.18	145.93	23.38	-15.61	-1,199.42	608.11	6,886.51	6,836.57	49.93	137.910	
12,200.00	7,066.00	4,250.67	3,954.91	148.64	23.00	-15.20	-1,183.92	595.77	6,975.39	6,925.72	49.67	140.439	
12,300.00	7,066.51	4,215.32	3,925.63	151.35	22.63	-14.80	-1,168.42	583.43	7,064.39	7,014.99	49.40	143.006	
12,400.00	7,067.03	4,179.97	3,896.35	154.06	22.25	-14.41	-1,152.92	571.09	7,153.50	7,104.37	49.13	145.605	
12,500.00	7,067.55	4,144.62	3,867.08	156.77	21.87	-14.02	-1,137.42	558.74	7,242.73	7,193.87	48.86	148.238	
12,600.00	7,068.07	4,109.27	3,837.80	159.49	21.50	-13.64	-1,121.92	546.40	7,332.07	7,283.48	48.59	150.908	
12,700.00	7,068.59	4,073.92	3,808.53	162.20	21.12	-13.26	-1,106.42	534.06	7,421.50	7,373.19	48.32	153.605	
12,800.00	7,069.11	4,038.57	3,779.25	164.92	20.75	-12.89	-1,090.92	521.72	7,511.04	7,463.00	48.04	156.336	
12,900.00	7,069.62	4,003.22	3,749.98	167.63	20.37	-12.53	-1,075.41	509.38	7,600.68	7,552.91	47.77	159.102	
13,000.00	7,070.14	3,967.87	3,720.70	170.35	20.00	-12.17	-1,059.91	497.04	7,690.41	7,642.90	47.50	161.890	
13,100.00	7,070.66	3,932.52	3,691.43	173.07	19.63	-11.82	-1,044.41	484.70	7,780.23	7,732.99	47.24	164.710	
13,200.00	7,071.18	3,897.17	3,662.15	175.78	19.26	-11.47	-1,028.91	472.36	7,870.13	7,823.16	46.97	167.563	
13,300.00	7,071.70	3,861.82	3,632.88	178.50	18.88	-11.12	-1,013.41	460.02	7,960.12	7,913.41	46.71	170.432	
13,400.00	7,072.21	3,826.47	3,603.60	181.22	18.51	-10.79	-997.91	447.67	8,050.19	8,003.75	46.44	173.333	
13,500.00	7,072.73	3,791.12	3,574.33	183.94	18.14	-10.45	-982.41	435.33	8,140.34	8,094.15	46.18	176.260	
13,600.00	7,073.25	3,755.77	3,545.05	186.66	17.77	-10.12	-966.91	422.99	8,230.56	8,184.63	45.93	179.200	
13,700.00	7,073.77	3,720.42	3,515.78	189.38	17.40	-9.80	-951.41	410.65	8,320.86	8,275.18	45.68	182.170	
13,800.00	7,074.29	3,685.07	3,486.50	192.10	17.04	-9.48	-935.91	398.31	8,411.23	8,365.80	45.43	185.156	
13,900.00	7,074.81	3,649.72	3,457.23	194.82	16.67	-9.17	-920.40	385.97	8,501.67	8,456.48	45.18	188.154	
14,000.00	7,075.32	3,614.37	3,427.95	197.54	16.31	-8.86	-904.90	373.63	8,592.17	8,547.23	44.94	191.179	
14,100.00	7,075.84	3,579.02	3,398.67	200.27	15.94	-8.55	-889.40	361.29	8,682.74	8,638.03	44.71	194.205	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4Y-HC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,200.00	7,076.36	3,543.67	3,369.40	202.99	15.57	-8.25	-873.90	348.95	8,773.37	8,728.89	44.48	197.243	
14,300.00	7,076.88	3,508.32	3,340.12	205.71	15.22	-7.95	-858.40	336.60	8,864.06	8,819.81	44.25	200.310	
14,400.00	7,077.40	3,472.97	3,310.85	208.44	14.83	-7.66	-842.90	324.26	8,954.81	8,910.77	44.04	203.342	
14,500.00	7,077.92	3,437.62	3,281.57	211.16	14.54	-7.37	-827.40	311.92	9,045.61	9,001.80	43.82	206.444	
14,600.00	7,078.43	3,402.27	3,252.30	213.88	14.41	-7.09	-811.90	299.58	9,136.48	9,092.87	43.61	209.512	
14,700.00	7,078.95	3,366.92	3,223.02	216.61	14.27	-6.81	-796.40	287.24	9,227.39	9,183.98	43.41	212.577	
14,800.00	7,079.47	3,331.57	3,193.75	219.33	14.13	-6.53	-780.89	274.90	9,318.36	9,275.15	43.21	215.640	
14,900.00	7,079.99	3,296.22	3,164.47	222.06	14.02	-6.26	-765.39	262.56	9,409.38	9,366.35	43.02	218.696	
15,000.00	7,080.51	3,260.87	3,135.20	224.78	13.88	-5.99	-749.89	250.22	9,500.44	9,457.60	42.85	221.735	
15,100.00	7,081.03	3,225.52	3,105.92	227.51	13.76	-5.73	-734.39	237.87	9,591.56	9,548.89	42.67	224.771	
15,200.00	7,081.54	3,190.17	3,076.65	230.24	13.63	-5.47	-718.89	225.53	9,682.72	9,640.22	42.50	227.813	
15,300.00	7,082.06	3,154.82	3,047.37	232.96	13.49	-5.21	-703.39	213.19	9,773.93	9,731.59	42.33	230.878	
15,400.00	7,082.58	3,119.47	3,018.10	235.69	13.35	-4.96	-687.89	200.85	9,865.17	9,823.00	42.17	233.938	
15,500.00	7,083.10	3,104.52	3,005.72	238.41	13.29	-4.85	-681.33	195.63	9,956.49	9,914.32	42.17	236.087	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4Y-HNC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	67.96	22.40	55.33	59.69				
100.00	100.00	100.00	100.00	0.48	0.48	67.96	22.40	55.33	59.69	58.73	0.97	61.847	
200.00	200.00	200.00	200.00	1.28	1.28	67.96	22.40	55.33	59.69	57.13	2.56	23.276	
300.00	300.00	300.00	300.00	1.77	1.77	67.96	22.40	55.33	59.69	56.16	3.54	16.876	
400.00	400.00	400.00	400.00	2.15	2.15	67.96	22.40	55.33	59.69	55.39	4.30	13.879	
500.00	500.00	500.00	500.00	2.48	2.48	67.96	22.40	55.33	59.69	54.74	4.95	12.050	
600.00	600.00	600.00	600.00	2.77	2.77	67.96	22.40	55.33	59.69	54.16	5.53	10.785	
700.00	700.00	700.00	700.00	3.03	3.03	67.96	22.40	55.33	59.69	53.63	6.06	9.843	
800.00	800.00	800.00	800.00	3.28	3.28	67.96	22.40	55.33	59.69	53.14	6.56	9.105	
900.00	900.00	900.00	900.00	3.51	3.51	67.96	22.40	55.33	59.69	52.68	7.02	8.507 CC, ES	
1,000.00	999.98	999.98	999.98	3.78	3.73	-144.15	22.40	55.33	61.10	53.62	7.48	8.164	
1,083.35	1,083.22	1,083.22	1,083.22	4.28	3.90	-146.26	22.40	55.33	64.49	56.44	8.05	8.013 SF	
1,100.00	1,099.84	1,099.84	1,099.84	4.29	3.93	-146.78	22.40	55.33	65.37	57.28	8.10	8.076	
1,200.00	1,199.64	1,199.64	1,199.64	4.47	4.13	-149.61	22.40	55.33	70.81	62.33	8.49	8.343	
1,300.00	1,299.43	1,299.43	1,299.43	4.70	4.32	-152.04	22.40	55.33	76.40	67.49	8.91	8.571	
1,400.00	1,399.23	1,399.02	1,399.00	4.95	4.55	-152.93	21.02	56.35	82.23	72.94	9.29	8.855	
1,500.00	1,499.02	1,498.54	1,498.39	5.20	5.22	-151.47	16.86	59.41	88.36	78.69	9.67	9.139	
1,600.00	1,598.82	1,597.76	1,597.22	5.47	5.84	-148.13	9.94	64.49	95.04	84.99	10.05	9.458	
1,700.00	1,698.61	1,696.43	1,695.16	5.75	6.42	-143.40	0.34	71.56	102.79	92.33	10.45	9.832	
1,800.00	1,798.41	1,794.32	1,791.87	6.04	6.97	-137.74	-11.87	80.54	112.25	101.34	10.91	10.286	
1,900.00	1,898.20	1,891.23	1,887.05	6.34	7.51	-131.64	-26.58	91.35	124.09	112.65	11.45	10.840	
2,000.00	1,998.00	1,986.95	1,980.39	6.64	8.03	-125.53	-43.63	103.90	138.87	126.81	12.06	11.516	
2,100.00	2,097.79	2,081.30	2,071.65	6.94	8.53	-119.74	-62.90	118.07	156.95	144.22	12.72	12.334	
2,200.00	2,197.59	2,174.09	2,160.59	7.26	9.02	-114.46	-84.19	133.73	178.52	165.10	13.42	13.303	
2,300.00	2,297.38	2,265.19	2,247.03	7.57	9.50	-109.80	-107.35	150.76	203.63	189.52	14.12	14.423	
2,400.00	2,397.18	2,354.45	2,330.80	7.89	9.96	-105.73	-132.17	169.02	232.23	217.42	14.81	15.684	
2,500.00	2,496.97	2,441.76	2,411.78	8.22	10.41	-102.23	-158.48	188.37	264.19	248.71	15.48	17.071	
2,600.00	2,596.77	2,527.04	2,489.86	8.54	10.84	-99.22	-186.07	208.67	299.37	283.24	16.12	18.569	
2,700.00	2,696.57	2,610.20	2,565.00	8.87	11.26	-96.64	-214.78	229.78	337.61	320.87	16.74	20.163	
2,800.00	2,796.36	2,691.19	2,637.15	9.21	11.67	-94.41	-244.41	251.58	378.77	361.43	17.34	21.841	
2,900.00	2,896.16	2,769.97	2,706.31	9.54	12.07	-92.49	-274.80	273.93	422.69	404.78	17.92	23.590	
3,000.00	2,995.95	2,846.51	2,772.48	9.87	12.44	-90.82	-305.78	296.71	469.23	450.76	18.47	25.403	
3,100.00	3,095.75	2,920.80	2,835.71	10.21	12.81	-89.37	-337.20	319.83	518.26	499.25	19.00	27.271	
3,200.00	3,195.54	3,000.00	2,901.97	10.55	13.20	-87.97	-372.15	345.53	569.68	550.05	19.63	29.017	
3,300.00	3,295.34	3,062.66	2,953.53	10.89	13.50	-86.97	-400.83	366.62	623.23	603.22	20.01	31.147	
3,400.00	3,395.13	3,130.27	3,008.27	11.23	13.80	-85.97	-432.78	390.13	678.94	658.47	20.46	33.178	
3,500.00	3,494.93	3,199.72	3,063.56	11.58	14.09	-85.04	-466.64	415.03	736.59	715.67	20.92	35.218	
3,600.00	3,594.72	3,280.29	3,127.41	11.92	14.36	-84.09	-506.23	444.15	794.89	773.42	21.48	37.014	
3,700.00	3,694.52	3,360.87	3,191.26	12.26	14.82	-83.26	-545.83	473.27	853.33	831.22	22.11	38.601	
3,800.00	3,794.31	3,441.44	3,255.11	12.61	15.75	-82.55	-585.42	502.39	911.86	889.19	22.67	40.228	
3,900.00	3,894.11	3,522.01	3,318.95	12.96	16.67	-81.91	-625.01	531.51	970.48	947.23	23.25	41.733	
4,000.00	3,993.90	3,602.59	3,382.80	13.30	17.60	-81.35	-664.60	560.63	1,029.17	1,005.32	23.85	43.150	
4,100.00	4,093.70	3,683.16	3,446.65	13.65	18.52	-80.85	-704.19	589.75	1,087.92	1,063.46	24.46	44.477	
4,200.00	4,193.49	3,763.73	3,510.50	14.00	19.45	-80.40	-743.79	618.87	1,146.71	1,121.64	25.07	45.734	
4,300.00	4,293.29	3,844.31	3,574.35	14.35	20.38	-79.99	-783.38	647.99	1,205.55	1,179.86	25.69	46.925	
4,400.00	4,393.08	3,924.88	3,638.20	14.70	21.32	-79.62	-822.97	677.11	1,264.43	1,238.12	26.31	48.054	
4,500.00	4,492.88	4,005.45	3,702.04	15.05	22.26	-79.29	-862.56	706.23	1,323.33	1,296.40	26.94	49.124	
4,600.00	4,592.68	4,086.03	3,765.89	15.40	23.20	-78.98	-902.15	735.35	1,382.27	1,354.70	27.57	50.134	
4,700.00	4,692.47	4,166.60	3,829.74	15.75	24.15	-78.70	-941.75	764.47	1,441.23	1,413.02	28.21	51.092	
4,800.00	4,792.27	4,247.18	3,893.59	16.10	25.10	-78.44	-981.34	793.59	1,500.21	1,471.36	28.85	52.002	
4,900.00	4,892.06	4,327.75	3,957.44	16.45	26.05	-78.19	-1,020.93	822.72	1,559.20	1,529.71	29.49	52.866	
5,000.00	4,991.86	4,408.32	4,021.28	16.81	27.00	-77.97	-1,060.52	851.84	1,618.22	1,588.08	30.14	53.688	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,488.90	4,085.13	17.16	27.95	-77.76	-1,100.11	880.96	1,677.25	1,646.46	30.79	54.468	
5,200.00	5,191.45	4,569.47	4,148.98	17.51	28.91	-77.57	-1,139.70	910.08	1,736.29	1,704.84	31.45	55.210	
5,300.00	5,291.24	4,650.04	4,212.83	17.87	29.87	-77.39	-1,179.30	939.20	1,795.35	1,763.24	32.11	55.916	
5,400.00	5,391.04	4,730.62	4,276.68	18.22	30.82	-77.22	-1,218.89	968.32	1,854.41	1,821.64	32.77	56.590	
5,500.00	5,490.83	4,811.19	4,340.52	18.57	31.78	-77.06	-1,258.48	997.44	1,913.49	1,880.06	33.43	57.232	
5,600.00	5,590.63	4,891.76	4,404.37	18.93	32.74	-76.91	-1,298.07	1,026.56	1,972.58	1,938.47	34.10	57.844	
5,700.00	5,690.42	4,972.34	4,468.22	19.28	33.71	-76.77	-1,337.66	1,055.68	2,031.67	1,996.90	34.77	58.428	
5,800.00	5,790.22	5,052.91	4,532.07	19.64	34.67	-76.64	-1,377.26	1,084.80	2,090.77	2,055.32	35.45	58.985	
5,900.00	5,890.01	5,133.49	4,595.92	19.99	35.63	-76.51	-1,416.85	1,113.92	2,149.88	2,113.76	36.12	59.518	
6,000.00	5,989.81	5,214.06	4,659.77	20.35	36.59	-76.39	-1,456.44	1,143.04	2,208.99	2,172.19	36.80	60.028	
6,100.00	6,089.60	5,294.63	4,723.61	20.70	37.56	-76.28	-1,496.03	1,172.16	2,268.11	2,230.63	37.48	60.515	
6,200.00	6,189.40	5,375.21	4,787.46	21.06	38.52	-76.17	-1,535.62	1,201.28	2,327.24	2,289.08	38.16	60.981	
6,300.00	6,289.19	5,455.78	4,851.31	21.41	39.49	-76.07	-1,575.22	1,230.40	2,386.37	2,347.52	38.85	61.427	
6,400.00	6,388.99	5,536.35	4,915.16	21.77	40.46	-75.97	-1,614.81	1,259.52	2,445.51	2,405.97	39.54	61.854	
6,498.43	6,487.22	10,255.11	7,132.93	22.12	56.68	-122.54	-275.53	2,231.87	2,499.06	2,436.57	62.49	39.990	
6,500.00	6,488.79	10,255.03	7,132.92	22.12	56.68	-124.61	-275.61	2,231.87	2,498.71	2,436.20	62.51	39.974	
6,550.00	6,538.54	10,252.66	7,132.91	22.32	56.68	-157.98	-277.98	2,231.90	2,490.23	2,427.12	63.11	39.460	
6,600.00	6,587.76	10,250.45	7,132.90	22.59	56.68	-167.48	-280.19	2,231.93	2,487.06	2,423.16	63.90	38.922	
6,604.60	6,592.26	10,250.25	7,132.90	22.61	56.68	-167.99	-280.39	2,231.93	2,487.03	2,423.06	63.98	38.875	
6,650.00	6,636.08	10,248.42	7,132.89	22.84	56.68	-171.64	-282.22	2,231.95	2,489.24	2,424.50	64.74	38.451	
6,700.00	6,683.13	10,246.59	7,132.88	23.07	56.68	-173.96	-284.05	2,231.98	2,496.76	2,431.18	65.58	38.073	
6,750.00	6,728.55	10,244.98	7,132.87	23.29	56.68	-175.43	-285.66	2,232.00	2,509.49	2,443.10	66.39	37.799	
6,800.00	6,771.99	10,243.59	7,132.87	23.51	56.68	-176.47	-287.05	2,232.01	2,527.27	2,460.11	67.16	37.630	
6,850.00	6,813.13	10,242.44	7,132.86	23.72	56.68	-177.26	-288.20	2,232.03	2,549.86	2,481.98	67.88	37.566	
6,900.00	6,851.64	10,241.53	7,132.85	23.94	56.68	-177.91	-289.11	2,232.04	2,576.96	2,508.43	68.53	37.604	
6,950.00	6,887.25	10,240.87	7,132.85	24.16	56.68	-178.49	-289.77	2,232.05	2,608.24	2,539.12	69.11	37.738	
7,000.00	6,919.67	10,240.47	7,132.85	24.38	56.68	-179.04	-290.17	2,232.05	2,643.30	2,573.67	69.63	37.963	
7,050.00	6,948.65	10,240.33	7,132.85	24.62	56.68	-179.62	-290.31	2,232.05	2,681.74	2,611.67	70.07	38.271	
7,100.00	6,973.99	10,240.45	7,132.85	24.88	56.68	179.72	-290.19	2,232.05	2,723.13	2,652.69	70.44	38.657	
7,150.00	6,995.49	10,240.83	7,132.85	25.18	56.68	178.87	-289.81	2,232.05	2,767.03	2,696.28	70.75	39.112	
7,200.00	7,012.97	10,241.46	7,132.85	25.51	56.68	177.68	-289.18	2,232.04	2,812.99	2,742.01	70.99	39.628	
7,250.00	7,026.32	10,242.35	7,132.86	25.89	56.68	175.76	-288.29	2,232.03	2,860.59	2,789.42	71.16	40.197	
7,300.00	7,035.43	10,243.48	7,132.87	26.33	56.68	171.94	-287.16	2,232.01	2,909.37	2,838.08	71.29	40.813	
7,350.00	7,040.22	10,244.85	7,132.87	26.84	56.68	160.72	-285.79	2,232.00	2,958.92	2,887.57	71.36	41.466	
7,377.14	7,041.00	10,245.69	7,132.88	27.14	56.68	138.42	-284.95	2,231.99	2,986.00	2,914.62	71.38	41.834	
7,400.00	7,041.12	10,246.42	7,132.88	27.41	56.68	138.20	-284.22	2,231.98	3,008.83	2,937.45	71.39	42.148	
7,500.00	7,041.64	10,249.63	7,132.90	28.77	56.68	137.27	-281.01	2,231.94	3,108.72	3,037.29	71.43	43.520	
7,600.00	7,042.16	10,252.84	7,132.91	30.39	56.68	136.36	-277.80	2,231.90	3,208.61	3,137.14	71.47	44.892	
7,700.00	7,042.67	10,256.05	7,132.93	32.22	56.68	135.48	-274.59	2,231.86	3,308.51	3,236.99	71.52	46.261	
7,800.00	7,043.19	10,259.26	7,132.95	34.20	56.67	134.63	-271.38	2,231.82	3,408.41	3,336.84	71.56	47.629	
7,900.00	7,043.71	10,262.47	7,132.96	36.31	56.67	133.80	-268.17	2,231.78	3,508.31	3,436.70	71.61	48.995	
8,000.00	7,044.23	10,265.68	7,132.98	38.52	56.67	133.00	-264.96	2,231.75	3,608.21	3,536.56	71.65	50.359	
8,100.00	7,044.75	5,592.52	4,959.67	40.80	41.13	-31.74	-1,642.41	1,279.82	3,704.41	3,654.09	50.32	73.623	
8,200.00	7,045.26	5,555.82	4,930.58	43.15	40.69	-31.03	-1,624.37	1,266.56	3,780.16	3,729.49	50.67	74.601	
8,300.00	7,045.78	5,519.12	4,901.50	45.54	40.25	-30.33	-1,606.34	1,253.29	3,856.68	3,805.69	50.99	75.639	
8,400.00	7,046.30	5,482.41	4,872.41	47.97	39.81	-29.63	-1,588.30	1,240.03	3,933.90	3,882.63	51.27	76.734	
8,500.00	7,046.82	5,445.71	4,843.33	50.44	39.37	-28.95	-1,570.27	1,226.76	4,011.80	3,960.29	51.51	77.887	
8,600.00	7,047.34	5,409.00	4,814.24	52.94	38.93	-28.27	-1,552.23	1,213.50	4,090.32	4,038.61	51.71	79.098	
8,700.00	7,047.86	5,372.30	4,785.16	55.46	38.49	-27.61	-1,534.20	1,200.23	4,169.45	4,117.57	51.88	80.364	
8,800.00	7,048.37	5,335.59	4,756.07	58.00	38.05	-26.95	-1,516.16	1,186.97	4,249.13	4,197.12	52.02	81.686	
8,900.00	7,048.89	5,298.89	4,726.99	60.56	37.61	-26.30	-1,498.12	1,173.70	4,329.35	4,277.23	52.12	83.064	
9,000.00	7,049.41	5,262.19	4,697.90	63.13	37.17	-25.66	-1,480.09	1,160.43	4,410.07	4,357.88	52.19	84.494	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4Y-HNC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	5,225.48	4,668.82	65.72	36.73	-25.04	-1,462.05	1,147.17	4,491.27	4,439.03	52.24	85.977	
9,200.00	7,050.45	5,188.78	4,639.73	68.32	36.29	-24.42	-1,444.02	1,133.90	4,572.92	4,520.67	52.25	87.514	
9,300.00	7,050.97	5,152.07	4,610.65	70.93	35.85	-23.80	-1,425.98	1,120.64	4,654.99	4,602.75	52.24	89.102	
9,400.00	7,051.48	5,115.37	4,581.56	73.55	35.41	-23.20	-1,407.95	1,107.37	4,737.47	4,685.27	52.21	90.742	
9,500.00	7,052.00	5,078.67	4,552.48	76.18	34.98	-22.61	-1,389.91	1,094.11	4,820.34	4,768.19	52.15	92.433	
9,600.00	7,052.52	5,041.96	4,523.39	78.81	34.54	-22.02	-1,371.88	1,080.84	4,903.56	4,851.49	52.07	94.174	
9,700.00	7,053.04	5,005.26	4,494.31	81.46	34.10	-21.45	-1,353.84	1,067.58	4,987.14	4,935.17	51.97	95.966	
9,800.00	7,053.56	4,968.55	4,465.22	84.10	33.66	-20.88	-1,335.80	1,054.31	5,071.04	5,019.19	51.85	97.807	
9,900.00	7,054.08	4,931.85	4,436.14	86.76	33.22	-20.32	-1,317.77	1,041.05	5,155.26	5,103.55	51.71	99.698	
10,000.00	7,054.59	4,895.14	4,407.05	89.42	32.78	-19.77	-1,299.73	1,027.78	5,239.77	5,188.22	51.55	101.640	
10,100.00	7,055.11	4,858.44	4,377.97	92.08	32.35	-19.23	-1,281.70	1,014.51	5,324.57	5,273.18	51.38	103.628	
10,200.00	7,055.63	4,821.74	4,348.88	94.75	31.91	-18.69	-1,263.66	1,001.25	5,409.63	5,358.44	51.20	105.667	
10,300.00	7,056.15	4,785.03	4,319.80	97.42	31.47	-18.17	-1,245.63	987.98	5,494.96	5,443.96	51.00	107.754	
10,400.00	7,056.67	4,748.33	4,290.71	100.10	31.04	-17.65	-1,227.59	974.72	5,580.53	5,529.75	50.78	109.889	
10,500.00	7,057.18	4,711.62	4,261.63	102.78	30.60	-17.14	-1,209.56	961.45	5,666.33	5,615.77	50.56	112.073	
10,600.00	7,057.70	4,674.92	4,232.54	105.46	30.16	-16.64	-1,191.52	948.19	5,752.36	5,702.04	50.33	114.304	
10,700.00	7,058.22	4,638.22	4,203.46	108.14	29.73	-16.15	-1,173.48	934.92	5,838.61	5,788.53	50.08	116.583	
10,800.00	7,058.74	4,601.51	4,174.37	110.83	29.29	-15.66	-1,155.45	921.66	5,925.06	5,875.23	49.83	118.911	
10,900.00	7,059.26	4,564.81	4,145.28	113.52	28.85	-15.18	-1,137.41	908.39	6,011.70	5,962.14	49.57	121.283	
11,000.00	7,059.78	4,528.10	4,116.20	116.21	28.42	-14.71	-1,119.38	895.13	6,098.54	6,049.24	49.30	123.703	
11,100.00	7,060.29	4,491.40	4,087.11	118.90	27.98	-14.25	-1,101.34	881.86	6,185.55	6,136.52	49.03	126.170	
11,200.00	7,060.81	4,454.69	4,058.03	121.60	27.55	-13.79	-1,083.31	868.59	6,272.74	6,223.99	48.75	128.681	
11,300.00	7,061.33	4,417.99	4,028.94	124.30	27.11	-13.34	-1,065.27	855.33	6,360.09	6,311.62	48.46	131.239	
11,400.00	7,061.85	4,381.29	3,999.86	127.00	26.68	-12.90	-1,047.24	842.06	6,447.60	6,399.42	48.17	133.841	
11,500.00	7,062.37	4,344.58	3,970.77	129.70	26.25	-12.47	-1,029.20	828.80	6,535.26	6,487.38	47.88	136.486	
11,600.00	7,062.89	4,307.88	3,941.69	132.40	25.81	-12.04	-1,011.16	815.53	6,623.07	6,575.48	47.59	139.178	
11,700.00	7,063.40	4,271.17	3,912.60	135.10	25.38	-11.61	-993.13	802.27	6,711.01	6,663.72	47.29	141.908	
11,800.00	7,063.92	4,234.47	3,883.52	137.81	24.95	-11.20	-975.09	789.00	6,799.10	6,752.10	46.99	144.682	
11,900.00	7,064.44	4,197.77	3,854.43	140.51	24.51	-10.79	-957.06	775.74	6,887.31	6,840.62	46.69	147.499	
12,000.00	7,064.96	4,161.06	3,825.35	143.22	24.08	-10.39	-939.02	762.47	6,975.65	6,929.25	46.40	150.351	
12,100.00	7,065.48	4,124.36	3,796.26	145.93	23.65	-9.99	-920.99	749.21	7,064.11	7,018.01	46.10	153.244	
12,200.00	7,066.00	4,087.65	3,767.18	148.64	23.22	-9.60	-902.95	735.94	7,152.68	7,106.88	45.80	156.175	
12,300.00	7,066.51	4,050.95	3,738.09	151.35	22.79	-9.22	-884.92	722.68	7,241.37	7,195.86	45.50	159.139	
12,400.00	7,067.03	4,014.24	3,709.01	154.06	22.36	-8.84	-866.88	709.41	7,330.16	7,284.95	45.21	162.141	
12,500.00	7,067.55	3,977.54	3,679.92	156.77	21.93	-8.47	-848.84	696.14	7,419.06	7,374.14	44.92	165.173	
12,600.00	7,068.07	3,940.84	3,650.84	159.49	21.50	-8.10	-830.81	682.88	7,508.05	7,463.43	44.63	168.235	
12,700.00	7,068.59	3,904.13	3,621.75	162.20	21.08	-7.74	-812.77	669.61	7,597.15	7,552.81	44.34	171.332	
12,800.00	7,069.11	3,867.43	3,592.67	164.92	20.65	-7.38	-794.74	656.35	7,686.33	7,642.27	44.06	174.448	
12,900.00	7,069.62	3,830.72	3,563.58	167.63	20.22	-7.03	-776.70	643.08	7,775.61	7,731.83	43.78	177.593	
13,000.00	7,070.14	3,794.02	3,534.50	170.35	19.80	-6.69	-758.67	629.82	7,864.97	7,821.46	43.51	180.765	
13,100.00	7,070.66	3,757.32	3,505.41	173.07	19.37	-6.35	-740.63	616.55	7,954.42	7,911.18	43.24	183.947	
13,200.00	7,071.18	3,720.61	3,476.33	175.78	18.95	-6.01	-722.60	603.29	8,043.95	8,000.97	42.98	187.156	
13,300.00	7,071.70	3,683.91	3,447.24	178.50	18.53	-5.69	-704.56	590.02	8,133.55	8,090.83	42.72	190.377	
13,400.00	7,072.21	3,647.20	3,418.16	181.22	18.10	-5.36	-686.52	576.76	8,223.23	8,180.76	42.47	193.607	
13,500.00	7,072.73	3,610.50	3,389.07	183.94	17.68	-5.04	-668.49	563.49	8,312.99	8,270.76	42.23	196.856	
13,600.00	7,073.25	3,573.79	3,359.99	186.66	17.26	-4.73	-650.45	550.22	8,402.82	8,360.82	41.99	200.100	
13,700.00	7,073.77	3,537.09	3,330.90	189.38	16.84	-4.42	-632.42	536.96	8,492.71	8,450.95	41.76	203.350	
13,800.00	7,074.29	3,500.39	3,301.82	192.10	16.43	-4.11	-614.38	523.69	8,582.67	8,541.13	41.54	206.615	
13,900.00	7,074.81	3,463.68	3,272.73	194.82	16.01	-3.81	-596.35	510.43	8,672.70	8,631.37	41.33	209.847	
14,000.00	7,075.32	3,426.98	3,243.65	197.54	15.59	-3.51	-578.31	497.16	8,762.79	8,721.67	41.12	213.092	
14,100.00	7,075.84	3,390.27	3,214.56	200.27	15.16	-3.22	-560.28	483.90	8,852.94	8,812.01	40.93	216.320	
14,200.00	7,076.36	3,353.57	3,185.48	202.99	14.76	-2.93	-542.24	470.63	8,943.14	8,902.41	40.74	219.521	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 4Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	3,316.87	3,156.39	205.71	14.49	-2.65	-524.20	457.37	9,033.41	8,992.86	40.55	222.754	
14,400.00	7,077.40	3,280.16	3,127.31	208.44	14.36	-2.37	-506.17	444.10	9,123.73	9,083.35	40.39	225.916	
14,500.00	7,077.92	3,243.46	3,098.22	211.16	14.22	-2.09	-488.13	430.84	9,214.10	9,173.88	40.23	229.044	
14,600.00	7,078.43	3,206.75	3,069.14	213.88	14.11	-1.82	-470.10	417.57	9,304.53	9,264.45	40.08	232.149	
14,700.00	7,078.95	3,179.39	3,047.45	216.61	14.02	-1.62	-456.65	407.68	9,395.01	9,355.00	40.02	234.786	
14,800.00	7,079.47	3,179.39	3,047.45	219.33	14.02	-1.62	-456.65	407.68	9,485.65	9,445.50	40.15	236.268	
14,900.00	7,079.99	3,179.39	3,047.45	222.06	14.02	-1.62	-456.65	407.68	9,576.47	9,536.19	40.28	237.751	
15,000.00	7,080.51	3,143.86	3,019.16	224.78	13.86	-1.37	-439.33	394.94	9,667.25	9,627.11	40.14	240.821	
15,100.00	7,081.03	3,133.18	3,010.61	227.51	13.82	-1.29	-434.18	391.16	9,758.27	9,718.08	40.19	242.776	
15,200.00	7,081.54	3,100.00	2,983.88	230.24	13.68	-1.06	-418.35	379.51	9,849.53	9,809.44	40.09	245.709	
15,300.00	7,082.06	3,100.00	2,983.88	232.96	13.68	-1.06	-418.35	379.51	9,940.76	9,900.54	40.22	247.190	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-59.08	25.10	-41.91	48.85				
100.00	100.00	100.00	100.00	0.48	0.48	-59.08	25.10	-41.91	48.85	47.88	0.97	50.608	
200.00	200.00	200.00	200.00	1.28	1.28	-59.08	25.10	-41.91	48.85	46.28	2.56	19.046	
300.00	300.00	300.00	300.00	1.77	1.77	-59.08	25.10	-41.91	48.85	45.31	3.54	13.810	
400.00	400.00	400.00	400.00	2.15	2.15	-59.08	25.10	-41.91	48.85	44.55	4.30	11.357	
500.00	500.00	500.00	500.00	2.48	2.48	-59.08	25.10	-41.91	48.85	43.89	4.95	9.861	
600.00	600.00	600.00	600.00	2.77	2.77	-59.08	25.10	-41.91	48.85	43.31	5.53	8.825	
700.00	700.00	700.00	700.00	3.03	3.03	-59.08	25.10	-41.91	48.85	42.78	6.06	8.054	
800.00	800.00	800.00	800.00	3.28	3.28	-59.08	25.10	-41.91	48.85	42.29	6.56	7.451	
900.00	900.00	900.00	900.00	3.51	3.51	-59.08	25.10	-41.91	48.85	41.83	7.02	6.961	
933.86	933.86	933.86	933.86	3.59	3.58	90.00	25.10	-41.91	48.85	41.69	7.16	6.826 CC	
1,000.00	999.98	999.98	999.98	3.78	3.73	91.81	25.10	-41.91	48.87	41.48	7.39	6.612	
1,083.35	1,083.22	1,083.22	1,083.22	4.28	3.90	96.60	25.10	-41.91	49.17	41.48	7.69	6.395	
1,100.00	1,099.84	1,099.84	1,099.84	4.29	3.93	97.83	25.10	-41.91	49.31	41.58	7.73	6.380	
1,200.00	1,199.64	1,198.21	1,198.19	4.47	4.17	104.35	25.87	-43.36	52.16	44.03	8.13	6.416	
1,300.00	1,299.43	1,297.97	1,297.91	4.70	4.34	109.72	27.23	-45.92	56.78	48.27	8.51	6.671	
1,400.00	1,399.23	1,397.73	1,397.63	4.95	4.55	114.25	28.60	-48.48	61.82	52.88	8.93	6.919	
1,500.00	1,499.02	1,497.50	1,497.35	5.20	4.77	118.08	29.96	-51.04	67.18	57.81	9.37	7.171	
1,600.00	1,598.82	1,597.26	1,597.07	5.47	5.00	121.33	31.32	-53.61	72.80	62.99	9.81	7.421	
1,700.00	1,698.61	1,697.02	1,696.79	5.75	5.24	124.11	32.68	-56.17	78.62	68.36	10.26	7.665	
1,800.00	1,798.41	1,796.79	1,796.52	6.04	5.48	126.51	34.05	-58.73	84.60	73.89	10.71	7.899	
1,900.00	1,898.20	1,896.55	1,896.24	6.34	5.73	128.58	35.41	-61.29	90.70	79.54	11.17	8.122	
2,000.00	1,998.00	1,996.31	1,995.96	6.64	5.98	130.39	36.77	-63.85	96.91	85.28	11.63	8.334	
2,100.00	2,097.79	2,096.08	2,095.68	6.94	6.24	131.98	38.14	-66.41	103.21	91.11	12.09	8.535	
2,200.00	2,197.59	2,195.84	2,195.40	7.26	6.50	133.39	39.50	-68.98	109.57	97.01	12.56	8.725	
2,300.00	2,297.38	2,295.60	2,295.12	7.57	6.76	134.64	40.86	-71.54	115.99	102.97	13.03	8.904	
2,400.00	2,397.18	2,395.37	2,394.84	7.89	7.03	135.76	42.23	-74.10	122.47	108.97	13.50	9.073	
2,500.00	2,496.97	2,495.13	2,494.56	8.22	7.30	136.77	43.59	-76.66	128.98	115.01	13.97	9.232	
2,600.00	2,596.77	2,594.89	2,594.28	8.54	7.57	137.68	44.95	-79.22	135.53	121.09	14.44	9.383	
2,700.00	2,696.57	2,694.66	2,694.00	8.87	7.84	138.51	46.32	-81.78	142.11	127.19	14.92	9.526	
2,800.00	2,796.36	2,794.42	2,793.73	9.21	8.12	139.26	47.68	-84.35	148.72	133.33	15.39	9.660	
2,900.00	2,896.16	2,894.18	2,893.45	9.54	8.40	139.95	49.04	-86.91	155.35	139.48	15.87	9.788	
3,000.00	2,995.95	2,993.95	2,993.17	9.87	8.67	140.58	50.41	-89.47	162.01	145.66	16.35	9.909	
3,100.00	3,095.75	3,093.71	3,092.89	10.21	8.95	141.16	51.77	-92.03	168.68	151.85	16.83	10.024	
3,200.00	3,195.54	3,193.47	3,192.61	10.55	9.23	141.70	53.13	-94.59	175.36	158.06	17.31	10.133	
3,300.00	3,295.34	3,293.23	3,292.33	10.89	9.52	142.20	54.50	-97.16	182.06	164.28	17.78	10.237	
3,400.00	3,395.13	3,393.00	3,392.05	11.23	9.80	142.66	55.86	-99.72	188.78	170.51	18.26	10.336	
3,500.00	3,494.93	3,492.76	3,491.77	11.58	10.08	143.09	57.22	-102.28	195.50	176.76	18.74	10.430	
3,600.00	3,594.72	3,592.52	3,591.49	11.92	10.37	143.50	58.59	-104.84	202.24	183.01	19.22	10.520	
3,700.00	3,694.52	3,692.29	3,691.21	12.26	10.65	143.87	59.95	-107.40	208.98	189.28	19.70	10.606	
3,800.00	3,794.31	3,792.05	3,790.94	12.61	10.94	144.23	61.31	-109.96	215.73	195.55	20.18	10.688	
3,900.00	3,894.11	3,891.81	3,890.66	12.96	11.23	144.56	62.68	-112.53	222.49	201.83	20.66	10.767	
4,000.00	3,993.90	3,991.58	3,990.38	13.30	11.51	144.87	64.04	-115.09	229.26	208.12	21.14	10.842	
4,100.00	4,093.70	4,091.34	4,090.10	13.65	11.80	145.16	65.40	-117.65	236.03	214.41	21.63	10.915	
4,200.00	4,193.49	4,191.10	4,189.82	14.00	12.09	145.44	66.77	-120.21	242.81	220.71	22.11	10.984	
4,300.00	4,293.29	4,290.87	4,289.54	14.35	12.38	145.70	68.13	-122.77	249.60	227.01	22.59	11.051	
4,400.00	4,393.08	4,390.63	4,389.26	14.70	12.67	145.95	69.49	-125.33	256.39	233.32	23.07	11.115	
4,500.00	4,492.88	4,490.39	4,488.98	15.05	12.96	146.19	70.86	-127.90	263.18	239.64	23.55	11.176	
4,600.00	4,592.68	4,590.16	4,588.70	15.40	13.25	146.41	72.22	-130.46	269.98	245.95	24.03	11.236	
4,700.00	4,692.47	4,689.92	4,688.42	15.75	13.54	146.63	73.58	-133.02	276.79	252.28	24.51	11.293	
4,800.00	4,792.27	4,789.68	4,788.14	16.10	13.83	146.83	74.95	-135.58	283.59	258.60	24.99	11.348	
4,900.00	4,892.06	4,889.45	4,887.87	16.45	14.12	147.02	76.31	-138.14	290.40	264.93	25.47	11.401	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,989.21	4,987.59	16.81	14.42	147.21	77.67	-140.71	297.21	271.26	25.95	11.453	
5,100.00	5,091.65	5,088.97	5,087.31	17.16	14.71	147.38	79.04	-143.27	304.03	277.60	26.43	11.502	
5,200.00	5,191.45	5,188.74	5,187.03	17.51	15.00	147.55	80.40	-145.83	310.85	283.94	26.91	11.550	
5,300.00	5,291.24	5,288.50	5,286.75	17.87	15.29	147.71	81.76	-148.39	317.67	290.28	27.39	11.597	
5,400.00	5,391.04	5,388.26	5,386.47	18.22	15.59	147.87	83.13	-150.95	324.49	296.62	27.87	11.642	
5,500.00	5,490.83	5,488.03	5,486.19	18.57	15.88	148.02	84.49	-153.51	331.32	302.97	28.35	11.685	
5,600.00	5,590.63	5,587.79	5,585.91	18.93	16.17	148.16	85.85	-156.08	338.15	309.31	28.83	11.727	
5,700.00	5,690.42	5,687.55	5,685.63	19.28	16.47	148.29	87.22	-158.64	344.98	315.66	29.31	11.768	
5,800.00	5,790.22	5,787.31	5,785.35	19.64	16.76	148.43	88.58	-161.20	351.81	322.01	29.79	11.808	
5,900.00	5,890.01	5,887.08	5,885.08	19.99	17.05	148.55	89.94	-163.76	358.64	328.37	30.27	11.846	
6,000.00	5,989.81	5,986.84	5,984.80	20.35	17.35	148.67	91.31	-166.32	365.48	334.72	30.75	11.884	
6,100.00	6,089.60	6,086.60	6,084.52	20.70	17.64	148.79	92.67	-168.88	372.31	341.08	31.23	11.920	
6,200.00	6,189.40	6,186.37	6,184.24	21.06	17.94	148.90	94.03	-171.45	379.15	347.44	31.71	11.955	
6,300.00	6,289.19	6,286.13	6,283.96	21.41	18.23	149.01	95.40	-174.01	385.99	353.80	32.19	11.989	
6,400.00	6,388.99	6,385.89	6,383.68	21.77	18.53	149.12	96.76	-176.57	392.83	360.16	32.67	12.023	
6,498.43	6,487.22	6,484.09	6,481.84	22.12	18.82	149.22	98.10	-179.09	399.57	366.42	33.15	12.055	
6,500.00	6,488.79	6,485.66	6,483.40	22.12	18.82	147.13	98.12	-179.13	399.68	366.52	33.15	12.056	
6,550.00	6,538.54	6,535.46	6,533.18	22.32	18.97	113.71	98.80	-180.41	403.07	369.67	33.40	12.068	
6,600.00	6,587.76	6,584.84	6,582.54	22.59	19.11	104.78	99.48	-181.68	406.46	372.79	33.67	12.071	
6,650.00	6,636.08	6,633.43	6,631.11	22.84	19.26	101.75	100.14	-182.93	410.06	376.19	33.87	12.106	
6,700.00	6,683.13	6,680.85	6,678.51	23.07	19.39	101.03	100.79	-184.14	414.17	380.11	34.06	12.160	
6,750.00	6,728.55	6,730.30	6,727.87	23.29	19.59	101.53	101.50	-186.88	419.04	384.78	34.26	12.233	
6,800.00	6,771.99	6,782.05	6,779.07	23.51	19.91	102.50	102.32	-194.22	424.52	390.03	34.49	12.309	
6,850.00	6,813.13	6,835.78	6,831.30	23.72	20.31	103.70	103.27	-206.69	430.53	395.76	34.77	12.382	
6,900.00	6,851.64	6,891.70	6,884.18	23.94	20.72	105.02	104.35	-224.81	436.96	401.84	35.12	12.442	
6,950.00	6,887.25	6,950.00	6,937.14	24.16	21.14	106.41	105.55	-249.08	443.66	408.12	35.54	12.483	
7,000.00	6,919.67	7,010.86	6,989.49	24.38	21.56	107.79	106.89	-280.02	450.47	414.42	36.06	12.493	
7,050.00	6,948.65	7,074.40	7,040.33	24.62	21.97	109.15	108.36	-318.07	457.22	420.55	36.67	12.470	
7,100.00	6,973.99	7,140.74	7,088.56	24.88	22.37	110.43	109.95	-363.52	463.70	426.31	37.38	12.404	
7,150.00	6,995.49	7,209.86	7,132.89	25.18	22.74	111.62	111.64	-416.48	469.70	431.47	38.22	12.288	
7,200.00	7,012.97	7,281.67	7,171.83	25.51	23.08	112.66	113.42	-476.73	475.01	435.74	39.27	12.097	
7,250.00	7,026.32	7,355.93	7,203.85	25.89	23.40	113.53	115.25	-543.65	479.43	438.96	40.47	11.846	
7,300.00	7,035.43	7,432.26	7,227.46	26.33	23.69	114.21	117.09	-616.16	482.78	440.85	41.92	11.515	
7,350.00	7,040.22	7,510.12	7,241.40	26.84	24.00	114.66	118.88	-692.67	484.91	441.34	43.57	11.129	
7,377.14	7,041.00	7,552.78	7,244.60	27.14	24.20	114.80	119.81	-735.20	485.51	440.96	44.56	10.897	
7,400.00	7,041.12	7,582.48	7,245.06	27.41	24.36	114.83	120.45	-764.89	485.62	440.27	45.35	10.709	
7,500.00	7,041.64	7,682.48	7,245.58	28.77	25.14	114.83	122.56	-864.86	485.72	436.96	48.76	9.961	
7,600.00	7,042.16	7,782.48	7,246.09	30.39	26.42	114.82	124.67	-964.84	485.83	433.39	52.44	9.265	
7,700.00	7,042.67	7,882.48	7,246.61	32.22	28.19	114.82	126.78	-1,064.81	485.93	429.61	56.32	8.629	
7,800.00	7,043.19	7,982.48	7,247.13	34.20	30.26	114.81	128.88	-1,164.79	486.03	425.67	60.36	8.052	
7,900.00	7,043.71	8,082.48	7,247.65	36.31	32.52	114.80	130.99	-1,264.77	486.14	421.59	64.55	7.532	
8,000.00	7,044.23	8,182.48	7,248.17	38.52	34.89	114.80	133.10	-1,364.74	486.24	417.40	68.84	7.063	
8,100.00	7,044.75	8,282.48	7,248.69	40.80	37.34	114.79	135.21	-1,464.72	486.34	413.12	73.22	6.642	
8,200.00	7,045.26	8,382.48	7,249.20	43.15	39.84	114.79	137.32	-1,564.70	486.44	408.76	77.68	6.262	
8,300.00	7,045.78	8,482.48	7,249.72	45.54	42.37	114.78	139.43	-1,664.67	486.55	404.34	82.20	5.919	
8,400.00	7,046.30	8,582.48	7,250.24	47.97	44.94	114.78	141.54	-1,764.65	486.65	399.87	86.78	5.608	
8,500.00	7,046.82	8,682.48	7,250.76	50.44	47.52	114.77	143.65	-1,864.62	486.75	395.35	91.40	5.326	
8,600.00	7,047.34	8,782.48	7,251.28	52.94	50.13	114.77	145.76	-1,964.60	486.86	390.80	96.06	5.068	
8,700.00	7,047.86	8,882.48	7,251.79	55.46	52.75	114.76	147.87	-2,064.58	486.96	386.20	100.75	4.833	
8,800.00	7,048.37	8,982.48	7,252.31	58.00	55.38	114.75	149.98	-2,164.55	487.06	381.58	105.48	4.618	
8,900.00	7,048.89	9,082.48	7,252.83	60.56	58.02	114.75	152.09	-2,264.53	487.16	376.94	110.23	4.420	
9,000.00	7,049.41	9,182.48	7,253.35	63.13	60.67	114.74	154.20	-2,364.51	487.27	372.27	115.00	4.237	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,282.48	7,253.87	65.72	63.33	114.74	156.31	-2,464.48	487.37	367.58	119.79	4.068	
9,200.00	7,050.45	9,382.48	7,254.39	68.32	66.00	114.73	158.42	-2,564.46	487.47	362.87	124.60	3.912	
9,300.00	7,050.97	9,482.48	7,254.90	70.93	68.67	114.73	160.53	-2,664.44	487.58	358.15	129.43	3.767	
9,400.00	7,051.48	9,582.48	7,255.42	73.55	71.35	114.72	162.64	-2,764.41	487.68	353.41	134.27	3.632	
9,500.00	7,052.00	9,682.48	7,255.94	76.18	74.03	114.72	164.75	-2,864.39	487.78	348.66	139.12	3.506	
9,600.00	7,052.52	9,782.48	7,256.46	78.81	76.72	114.71	166.86	-2,964.36	487.88	343.90	143.99	3.388	
9,700.00	7,053.04	9,882.48	7,256.98	81.46	79.41	114.70	168.97	-3,064.34	487.99	339.12	148.86	3.278	
9,800.00	7,053.56	9,982.48	7,257.50	84.10	82.10	114.70	171.08	-3,164.32	488.09	334.34	153.75	3.175	
9,900.00	7,054.08	10,082.48	7,258.01	86.76	84.80	114.69	173.19	-3,264.29	488.19	329.55	158.64	3.077	
10,000.00	7,054.59	10,182.48	7,258.53	89.42	87.50	114.69	175.30	-3,364.27	488.30	324.75	163.54	2.986	
10,100.00	7,055.11	10,282.48	7,259.05	92.08	90.20	114.68	177.41	-3,464.25	488.40	319.95	168.45	2.899	
10,200.00	7,055.63	10,382.48	7,259.57	94.75	92.90	114.68	179.52	-3,564.22	488.50	315.14	173.36	2.818	
10,300.00	7,056.15	10,482.48	7,260.09	97.42	95.61	114.67	181.63	-3,664.20	488.60	310.32	178.29	2.741	
10,400.00	7,056.67	10,582.48	7,260.61	100.10	98.32	114.67	183.74	-3,764.18	488.71	305.49	183.21	2.667	
10,500.00	7,057.18	10,682.48	7,261.12	102.78	101.02	114.66	185.85	-3,864.15	488.81	300.66	188.15	2.598	
10,600.00	7,057.70	10,782.48	7,261.64	105.46	103.74	114.65	187.96	-3,964.13	488.91	295.83	193.08	2.532	
10,700.00	7,058.22	10,882.48	7,262.16	108.14	106.45	114.65	190.07	-4,064.10	489.02	290.99	198.03	2.469	
10,800.00	7,058.74	10,982.48	7,262.68	110.83	109.16	114.64	192.18	-4,164.08	489.12	286.15	202.97	2.410	
10,900.00	7,059.26	11,082.48	7,263.20	113.52	111.87	114.64	194.29	-4,264.06	489.22	281.30	207.92	2.353	
11,000.00	7,059.78	11,182.48	7,263.71	116.21	114.59	114.63	196.40	-4,364.03	489.33	276.45	212.88	2.299	
11,100.00	7,060.29	11,282.48	7,264.23	118.90	117.31	114.63	198.51	-4,464.01	489.43	271.60	217.83	2.247	
11,200.00	7,060.81	11,382.48	7,264.75	121.60	120.02	114.62	200.62	-4,563.99	489.53	266.74	222.79	2.197	
11,300.00	7,061.33	11,482.48	7,265.27	124.30	122.74	114.62	202.73	-4,663.96	489.63	261.88	227.76	2.150	
11,400.00	7,061.85	11,582.48	7,265.79	127.00	125.46	114.61	204.84	-4,763.94	489.74	257.01	232.73	2.104	
11,500.00	7,062.37	11,682.48	7,266.31	129.70	128.18	114.60	206.95	-4,863.91	489.84	252.15	237.69	2.061	
11,600.00	7,062.89	11,782.48	7,266.82	132.40	130.90	114.60	209.06	-4,963.89	489.94	247.28	242.67	2.019	
11,700.00	7,063.40	11,882.48	7,267.34	135.10	133.62	114.59	211.17	-5,063.87	490.05	242.40	247.64	1.979 Collision Risk Procedures Req.	
11,800.00	7,063.92	11,982.48	7,267.86	137.81	136.35	114.59	213.28	-5,163.84	490.15	237.53	252.62	1.940 Collision Risk Procedures Req.	
11,900.00	7,064.44	12,082.48	7,268.38	140.51	139.07	114.58	215.39	-5,263.82	490.25	232.65	257.60	1.903 Collision Risk Procedures Req.	
12,000.00	7,064.96	12,182.48	7,268.90	143.22	141.79	114.58	217.50	-5,363.80	490.36	227.77	262.58	1.867 Collision Risk Procedures Req.	
12,100.00	7,065.48	12,282.48	7,269.42	145.93	144.52	114.57	219.61	-5,463.77	490.46	222.89	267.57	1.833 Collision Risk Procedures Req.	
12,200.00	7,066.00	12,382.48	7,269.93	148.64	147.24	114.57	221.72	-5,563.75	490.56	218.01	272.55	1.800 Collision Risk Procedures Req.	
12,300.00	7,066.51	12,482.48	7,270.45	151.35	149.97	114.56	223.83	-5,663.73	490.66	213.13	277.54	1.768 Collision Risk Procedures Req.	
12,400.00	7,067.03	12,582.48	7,270.97	154.06	152.69	114.55	225.94	-5,763.70	490.77	208.24	282.53	1.737 Collision Risk Procedures Req.	
12,500.00	7,067.55	12,682.48	7,271.49	156.77	155.42	114.55	228.05	-5,863.68	490.87	203.35	287.52	1.707 Collision Risk Procedures Req.	
12,600.00	7,068.07	12,782.48	7,272.01	159.49	158.14	114.54	230.16	-5,963.65	490.97	198.46	292.51	1.678 Collision Risk Procedures Req.	
12,700.00	7,068.59	12,882.48	7,272.53	162.20	160.87	114.54	232.27	-6,063.63	491.08	193.57	297.51	1.651 Collision Risk Procedures Req.	
12,800.00	7,069.11	12,982.48	7,273.04	164.92	163.60	114.53	234.38	-6,163.61	491.18	188.68	302.50	1.624 Collision Risk Procedures Req.	
12,900.00	7,069.62	13,082.48	7,273.56	167.63	166.32	114.53	236.49	-6,263.58	491.28	183.78	307.50	1.598 Collision Risk Procedures Req.	
13,000.00	7,070.14	13,182.48	7,274.08	170.35	169.05	114.52	238.60	-6,363.56	491.39	178.88	312.50	1.572 Collision Risk Procedures Req.	
13,100.00	7,070.66	13,282.48	7,274.60	173.07	171.78	114.52	240.71	-6,463.54	491.49	173.99	317.50	1.548 Collision Risk Procedures Req.	
13,200.00	7,071.18	13,382.48	7,275.12	175.78	174.51	114.51	242.82	-6,563.51	491.59	169.09	322.50	1.524 Collision Risk Procedures Req.	
13,300.00	7,071.70	13,482.48	7,275.63	178.50	177.24	114.51	244.93	-6,663.49	491.69	164.19	327.51	1.501 Collision Risk Procedures Req.	
13,400.00	7,072.21	13,582.48	7,276.15	181.22	179.97	114.50	247.04	-6,763.47	491.80	159.29	332.51	1.479 Collision Avoidance Req.	
13,500.00	7,072.73	13,682.48	7,276.67	183.94	182.70	114.49	249.15	-6,863.44	491.90	154.38	337.52	1.457 Collision Avoidance Req.	
13,600.00	7,073.25	13,782.48	7,277.19	186.66	185.42	114.49	251.26	-6,963.42	492.00	149.48	342.52	1.436 Collision Avoidance Req.	
13,700.00	7,073.77	13,882.48	7,277.71	189.38	188.15	114.48	253.37	-7,063.39	492.11	144.58	347.53	1.416 Collision Avoidance Req.	
13,800.00	7,074.29	13,982.48	7,278.23	192.10	190.88	114.48	255.48	-7,163.37	492.21	139.67	352.54	1.396 Collision Avoidance Req.	
13,900.00	7,074.81	14,082.48	7,278.74	194.82	193.61	114.47	257.59	-7,263.35	492.31	134.76	357.55	1.377 Collision Avoidance Req.	
14,000.00	7,075.32	14,182.48	7,279.26	197.54	196.34	114.47	259.70	-7,363.32	492.42	129.85	362.56	1.358 Collision Avoidance Req.	
14,100.00	7,075.84	14,282.48	7,279.78	200.27	199.08	114.46	261.81	-7,463.30	492.52	124.94	367.57	1.340 Collision Avoidance Req.	
14,200.00	7,076.36	14,382.48	7,280.30	202.99	201.81	114.46	263.92	-7,563.28	492.62	120.03	372.59	1.322 Collision Avoidance Req.	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,300.00	7,076.88	14,482.48	7,280.82	205.71	204.54	114.45	266.03	-7,663.25	492.73	115.12	377.60	1.305	Collision Avoidance Req.
14,400.00	7,077.40	14,582.48	7,281.34	208.44	207.27	114.45	268.14	-7,763.23	492.83	110.21	382.62	1.288	Collision Avoidance Req.
14,500.00	7,077.92	14,682.48	7,281.85	211.16	210.00	114.44	270.25	-7,863.20	492.93	105.30	387.63	1.272	Collision Avoidance Req.
14,600.00	7,078.43	14,782.48	7,282.37	213.88	212.73	114.43	272.36	-7,963.18	493.04	100.38	392.65	1.256	Collision Avoidance Req.
14,700.00	7,078.95	14,882.48	7,282.89	216.61	215.46	114.43	274.47	-8,063.16	493.14	95.47	397.67	1.240	Collision Avoidance Req.
14,800.00	7,079.47	14,982.48	7,283.41	219.33	218.19	114.42	276.58	-8,163.13	493.24	90.55	402.69	1.225	Collision Avoidance Req.
14,900.00	7,079.99	15,082.48	7,283.93	222.06	220.93	114.42	278.69	-8,263.11	493.34	85.64	407.71	1.210	Collision Avoidance Req.
15,000.00	7,080.51	15,182.48	7,284.44	224.78	223.66	114.41	280.80	-8,363.09	493.45	80.72	412.73	1.196	Collision Avoidance Req.
15,100.00	7,081.03	15,282.48	7,284.96	227.51	226.39	114.41	282.91	-8,463.06	493.55	75.80	417.75	1.181	Collision Avoidance Req.
15,200.00	7,081.54	15,382.48	7,285.48	230.24	229.12	114.40	285.02	-8,563.04	493.65	70.88	422.77	1.168	Collision Avoidance Req.
15,300.00	7,082.06	15,482.48	7,286.00	232.96	231.86	114.40	287.13	-8,663.02	493.76	65.96	427.79	1.154	Collision Avoidance Req.
15,400.00	7,082.58	15,582.48	7,286.52	235.69	234.59	114.39	289.24	-8,762.99	493.86	61.04	432.82	1.141	Collision Avoidance Req.
15,500.00	7,083.10	15,682.48	7,287.04	238.41	237.32	114.39	291.35	-8,862.97	493.96	56.12	437.84	1.128	Collision Avoidance Req.
15,600.00	7,083.62	15,782.48	7,287.55	241.14	240.05	114.38	293.46	-8,962.94	494.07	51.20	442.87	1.116	Collision Avoidance Req.
15,700.00	7,084.13	15,882.48	7,288.07	243.87	242.79	114.37	295.57	-9,062.92	494.17	46.28	447.89	1.103	Collision Avoidance Req.
15,800.00	7,084.65	15,982.48	7,288.59	246.60	245.52	114.37	297.68	-9,162.90	494.27	41.35	452.92	1.091	Collision Avoidance Req.
15,900.00	7,085.17	16,082.48	7,289.11	249.32	248.25	114.36	299.79	-9,262.87	494.38	36.43	457.95	1.080	Collision Avoidance Req.
16,000.00	7,085.69	16,182.48	7,289.63	252.05	250.99	114.36	301.90	-9,362.85	494.48	31.50	462.98	1.068	Collision Avoidance Req.
16,100.00	7,086.21	16,282.48	7,290.15	254.78	253.72	114.35	304.00	-9,462.83	494.58	26.58	468.00	1.057	Collision Avoidance Req.
16,200.00	7,086.73	16,382.47	7,290.66	257.51	256.45	114.35	306.11	-9,562.80	494.69	21.65	473.03	1.046	Collision Avoidance Req.
16,300.00	7,087.24	16,482.47	7,291.18	260.24	259.19	114.34	308.22	-9,662.78	494.79	16.72	478.06	1.035	Collision Avoidance Req.
16,400.00	7,087.76	16,582.47	7,291.70	262.97	261.92	114.34	310.33	-9,762.76	494.89	11.80	483.10	1.024	Collision Avoidance Req.
16,500.00	7,088.28	16,682.47	7,292.22	265.69	264.65	114.33	312.44	-9,862.73	495.00	6.87	488.13	1.014	Collision Avoidance Req.
16,600.00	7,088.80	16,782.47	7,292.74	268.42	267.39	114.33	314.55	-9,962.71	495.10	1.94	493.16	1.004	Collision Avoidance Req.
16,700.00	7,089.32	16,882.47	7,293.26	271.15	270.12	114.32	316.66	-10,062.68	495.20	-2.99	498.19	0.994	No-Go Zone - Stop Drilling
16,800.00	7,089.84	16,982.47	7,293.77	273.88	272.85	114.32	318.77	-10,162.66	495.30	-7.92	503.22	0.984	No-Go Zone - Stop Drilling
16,900.00	7,090.35	17,082.47	7,294.29	276.61	275.59	114.31	320.88	-10,262.64	495.41	-12.85	508.26	0.975	No-Go Zone - Stop Drilling
17,000.00	7,090.87	17,182.47	7,294.81	279.34	278.32	114.30	322.99	-10,362.61	495.51	-17.78	513.29	0.965	No-Go Zone - Stop Drilling
17,024.65	7,091.00	17,207.12	7,294.94	280.01	279.00	114.30	323.51	-10,387.25	495.54	-19.00	514.53	0.963	No-Go Zone - Stop Drilling, ES, SF

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-165.22	-416.40	-109.83	430.66				
100.00	100.00	97.00	97.00	0.48	0.47	-165.22	-416.40	-109.83	430.65	429.70	0.95	452.974	
200.00	200.00	197.00	197.00	1.28	1.26	-165.22	-416.40	-109.83	430.65	428.11	2.54	169.504	
300.00	300.00	297.00	297.00	1.77	1.75	-165.22	-416.40	-109.83	430.65	427.12	3.52	122.254	
400.00	400.00	397.00	397.00	2.15	2.14	-165.22	-416.40	-109.83	430.65	426.36	4.29	100.394	
500.00	500.00	497.00	497.00	2.48	2.47	-165.22	-416.40	-109.83	430.65	425.70	4.94	87.106	
600.00	600.00	597.00	597.00	2.77	2.76	-165.22	-416.40	-109.83	430.65	425.12	5.53	77.930	
700.00	700.00	697.00	697.00	3.03	3.02	-165.22	-416.40	-109.83	430.65	424.59	6.06	71.102	
800.00	800.00	797.00	797.00	3.28	3.27	-165.22	-416.40	-109.83	430.65	424.10	6.55	65.761	
900.00	900.00	897.00	897.00	3.51	3.50	-165.22	-416.40	-109.83	430.65	423.64	7.01	61.435	
1,000.00	999.98	996.98	996.98	3.78	3.72	-16.45	-416.40	-109.83	428.97	421.49	7.48	57.342	
1,083.35	1,083.22	1,092.50	1,092.48	4.28	4.12	-16.57	-414.94	-110.14	423.86	415.54	8.32	50.940	
1,100.00	1,099.84	1,111.60	1,111.57	4.29	4.24	-16.58	-414.28	-110.28	422.31	413.88	8.43	50.077	
1,200.00	1,199.64	1,222.01	1,221.79	4.47	4.88	-16.46	-408.10	-111.56	411.04	401.88	9.17	44.835	
1,300.00	1,299.43	1,321.25	1,320.80	4.70	5.08	-16.29	-401.46	-112.95	398.81	389.24	9.58	41.635	
1,400.00	1,399.23	1,420.49	1,419.81	4.95	5.31	-16.10	-394.81	-114.33	386.59	376.55	10.04	38.510	
1,500.00	1,499.02	1,519.73	1,518.82	5.20	5.55	-15.90	-388.17	-115.72	374.37	363.84	10.52	35.580	
1,600.00	1,598.82	1,618.97	1,617.83	5.47	5.80	-15.68	-381.53	-117.10	362.15	351.12	11.03	32.847	
1,700.00	1,698.61	1,718.21	1,716.84	5.75	6.07	-15.45	-374.88	-118.48	349.94	338.39	11.55	30.307	
1,800.00	1,798.41	1,817.45	1,815.85	6.04	6.35	-15.20	-368.24	-119.87	337.73	325.65	12.08	27.952	
1,900.00	1,898.20	1,916.70	1,914.86	6.34	6.63	-14.94	-361.60	-121.25	325.53	312.90	12.63	25.771	
2,000.00	1,998.00	2,015.94	2,013.86	6.64	6.93	-14.65	-354.95	-122.64	313.34	300.15	13.19	23.752	
2,100.00	2,097.79	2,115.18	2,112.87	6.94	7.22	-14.34	-348.31	-124.02	301.16	287.39	13.76	21.883	
2,200.00	2,197.59	2,214.42	2,211.88	7.26	7.53	-14.00	-341.66	-125.41	288.98	274.64	14.34	20.152	
2,300.00	2,297.38	2,313.66	2,310.89	7.57	7.84	-13.64	-335.02	-126.79	276.82	261.89	14.93	18.547	
2,400.00	2,397.18	2,412.90	2,409.90	7.89	8.15	-13.24	-328.38	-128.17	264.67	249.15	15.52	17.058	
2,500.00	2,496.97	2,512.14	2,508.91	8.22	8.47	-12.80	-321.73	-129.56	252.53	236.42	16.11	15.674	
2,600.00	2,596.77	2,611.38	2,607.92	8.54	8.79	-12.32	-315.09	-130.94	240.41	223.70	16.71	14.387	
2,700.00	2,696.57	2,710.63	2,706.93	8.87	9.12	-11.79	-308.45	-132.33	228.31	210.99	17.31	13.188	
2,800.00	2,796.36	2,809.87	2,805.94	9.21	9.44	-11.20	-301.80	-133.71	216.23	198.31	17.91	12.070	
2,900.00	2,896.16	2,909.11	2,904.95	9.54	9.77	-10.54	-295.16	-135.10	204.17	185.65	18.52	11.026	
3,000.00	2,995.95	3,008.35	3,003.96	9.87	10.11	-9.79	-288.52	-136.48	192.14	173.03	19.12	10.050	
3,100.00	3,095.75	3,107.59	3,102.96	10.21	10.44	-8.95	-281.87	-137.86	180.15	160.44	19.72	9.137	
3,200.00	3,195.54	3,206.83	3,201.97	10.55	10.78	-7.98	-275.23	-139.25	168.21	147.90	20.31	8.283	
3,300.00	3,295.34	3,306.07	3,300.98	10.89	11.12	-6.87	-268.58	-140.63	156.32	135.43	20.89	7.483	
3,400.00	3,395.13	3,405.32	3,399.99	11.23	11.46	-5.58	-261.94	-142.02	144.49	123.04	21.46	6.734	
3,500.00	3,494.93	3,504.56	3,499.00	11.58	11.80	-4.06	-255.30	-143.40	132.76	110.75	22.01	6.033	
3,600.00	3,594.72	3,603.80	3,598.01	11.92	12.14	-2.25	-248.65	-144.79	121.13	98.60	22.52	5.378	
3,700.00	3,694.52	3,703.04	3,697.02	12.26	12.48	-0.05	-242.01	-146.17	109.64	86.65	23.00	4.767	
3,800.00	3,794.31	3,802.28	3,796.03	12.61	12.83	2.66	-235.37	-147.55	98.36	74.95	23.41	4.202	
3,900.00	3,894.11	3,901.52	3,895.04	12.96	13.17	6.05	-228.72	-148.94	87.35	63.63	23.72	3.683	
4,000.00	3,993.90	4,000.76	3,994.05	13.30	13.52	10.40	-222.08	-150.32	76.72	52.85	23.87	3.214	
4,100.00	4,093.70	4,100.01	4,093.05	13.65	13.87	16.09	-215.43	-151.71	66.68	42.89	23.79	2.803	
4,200.00	4,193.49	4,199.25	4,192.06	14.00	14.22	23.68	-208.79	-153.09	57.51	34.16	23.35	2.463	
4,300.00	4,293.29	4,298.49	4,291.07	14.35	14.56	33.87	-202.15	-154.48	49.71	27.24	22.48	2.212	
4,400.00	4,393.08	4,397.73	4,390.08	14.70	14.91	47.18	-195.50	-155.86	44.02	22.66	21.35	2.061	
4,500.00	4,492.88	4,496.97	4,489.09	15.05	15.27	63.24	-188.86	-157.24	41.30	20.58	20.73	1.993 Collision Risk Procedures Req.	
4,526.56	4,519.39	4,523.33	4,515.39	15.14	15.36	67.74	-187.09	-157.61	41.17	20.42	20.76	1.984 Collision Risk Procedures Req., CC	
4,600.00	4,592.68	4,596.21	4,588.10	15.40	15.62	80.02	-182.22	-158.63	42.15	20.80	21.35	1.974 Collision Risk Procedures Req.	
4,700.00	4,692.47	4,695.45	4,687.11	15.75	15.97	94.94	-175.57	-160.01	46.37	23.23	23.14	2.004	
4,800.00	4,792.27	4,794.70	4,786.12	16.10	16.32	106.76	-168.93	-161.40	53.15	27.83	25.33	2.099	
4,900.00	4,892.06	4,893.94	4,885.13	16.45	16.67	115.64	-162.28	-162.78	61.67	34.35	27.32	2.258	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,993.18	4,984.14	16.81	17.03	122.26	-155.64	-164.17	71.30	42.32	28.97	2.461	
5,100.00	5,091.65	5,092.42	5,083.15	17.16	17.38	127.27	-149.00	-165.55	81.64	51.30	30.35	2.690	
5,200.00	5,191.45	5,191.66	5,182.15	17.51	17.73	131.13	-142.35	-166.93	92.47	60.94	31.52	2.933	
5,300.00	5,291.24	5,290.90	5,281.16	17.87	18.09	134.17	-135.71	-168.32	103.62	71.06	32.56	3.182	
5,400.00	5,391.04	5,390.14	5,380.17	18.22	18.44	136.62	-129.07	-169.70	115.01	81.50	33.51	3.432	
5,500.00	5,490.83	5,489.38	5,479.18	18.57	18.80	138.62	-122.42	-171.09	126.56	92.17	34.39	3.680	
5,600.00	5,590.63	5,588.63	5,578.19	18.93	19.15	140.29	-115.78	-172.47	138.24	103.02	35.22	3.925	
5,700.00	5,690.42	5,687.87	5,677.20	19.28	19.51	141.70	-109.13	-173.85	150.03	114.00	36.02	4.165	
5,800.00	5,790.22	5,787.11	5,776.21	19.64	19.86	142.90	-102.49	-175.24	161.88	125.08	36.80	4.399	
5,900.00	5,890.01	5,886.35	5,875.22	19.99	20.22	143.94	-95.85	-176.62	173.80	136.25	37.55	4.628	
6,000.00	5,989.81	5,985.59	5,974.23	20.35	20.58	144.84	-89.20	-178.01	185.77	147.47	38.30	4.851	
6,100.00	6,089.60	6,084.83	6,073.24	20.70	20.93	145.64	-82.56	-179.39	197.78	158.75	39.03	5.068	
6,200.00	6,189.40	6,184.07	6,172.25	21.06	21.29	146.34	-75.92	-180.78	209.82	170.07	39.75	5.279	
6,300.00	6,289.19	6,283.32	6,271.25	21.41	21.65	146.97	-69.27	-182.16	221.88	181.42	40.46	5.484	
6,400.00	6,388.99	6,382.56	6,370.26	21.77	22.01	147.53	-62.63	-183.54	233.98	192.80	41.17	5.683	
6,498.43	6,487.22	6,480.24	6,467.72	22.12	22.36	148.03	-56.09	-184.91	245.90	204.03	41.86	5.874	
6,500.00	6,488.79	6,481.80	6,469.27	22.12	22.36	145.95	-55.99	-184.93	246.09	204.21	41.87	5.877	
6,550.00	6,538.54	6,531.31	6,518.67	22.32	22.54	112.64	-52.67	-185.62	252.08	209.81	42.27	5.963	
6,600.00	6,587.76	6,580.37	6,567.61	22.59	22.72	104.16	-49.39	-186.30	258.07	215.32	42.75	6.037	
6,650.00	6,636.08	6,629.58	6,616.65	22.84	22.90	101.55	-46.07	-188.44	264.28	221.10	43.18	6.121	
6,700.00	6,683.13	6,679.78	6,666.30	23.07	23.11	100.78	-42.62	-194.89	270.73	227.15	43.58	6.212	
6,750.00	6,728.55	6,730.97	6,716.14	23.29	23.31	100.79	-39.08	-205.92	277.34	233.43	43.91	6.315	
6,800.00	6,771.99	6,783.22	6,765.79	23.51	23.48	101.18	-35.45	-221.73	284.03	239.85	44.18	6.429	
6,850.00	6,813.13	6,836.57	6,814.78	23.72	23.64	101.77	-31.77	-242.49	290.71	246.28	44.43	6.544	
6,900.00	6,851.64	6,891.07	6,862.61	23.94	23.80	102.45	-28.06	-268.31	297.28	252.60	44.67	6.654	
6,950.00	6,887.25	6,946.73	6,908.70	24.16	23.97	103.16	-24.38	-299.26	303.64	258.70	44.95	6.756	
7,000.00	6,919.67	7,003.57	6,952.44	24.38	24.16	103.87	-20.74	-335.34	309.70	264.44	45.27	6.842	
7,050.00	6,948.65	7,061.58	6,993.17	24.62	24.39	104.55	-17.22	-376.46	315.35	269.69	45.66	6.906	
7,100.00	6,973.99	7,120.71	7,030.20	24.88	24.66	105.19	-13.84	-422.40	320.50	274.35	46.15	6.945	
7,150.00	6,995.49	7,180.90	7,062.83	25.18	24.99	105.77	-10.67	-472.85	325.04	278.28	46.76	6.952	
7,200.00	7,012.97	7,242.06	7,090.38	25.51	25.39	106.28	-7.76	-527.34	328.89	281.39	47.50	6.924	
7,250.00	7,026.32	7,304.06	7,112.24	25.89	25.88	106.72	-5.16	-585.27	331.97	283.58	48.40	6.859	
7,300.00	7,035.43	7,366.74	7,127.86	26.33	26.49	107.08	-2.93	-645.90	334.22	284.75	49.47	6.756	
7,350.00	7,040.22	7,429.93	7,136.82	26.84	27.19	107.35	-1.10	-708.39	335.58	284.88	50.70	6.619	
7,377.14	7,041.00	7,464.36	7,138.79	27.14	27.61	107.46	-0.30	-742.75	335.94	284.52	51.42	6.534	
7,400.00	7,041.12	7,489.94	7,139.07	27.41	27.93	107.49	0.22	-768.32	335.98	283.92	52.06	6.454	
7,500.00	7,041.64	7,589.94	7,139.58	28.77	29.38	107.49	2.22	-868.30	335.98	280.85	55.13	6.094	
7,600.00	7,042.16	7,689.94	7,140.10	30.39	31.02	107.49	4.22	-968.28	335.98	277.46	58.52	5.741	
7,700.00	7,042.67	7,789.94	7,140.62	32.22	32.82	107.49	6.21	-1,068.26	335.98	273.82	62.16	5.405	
7,800.00	7,043.19	7,889.94	7,141.14	34.20	34.76	107.49	8.21	-1,168.23	335.98	269.96	66.02	5.089	
7,900.00	7,043.71	7,989.94	7,141.66	36.31	36.81	107.49	10.21	-1,268.21	335.98	265.93	70.05	4.796	
8,000.00	7,044.23	8,089.94	7,142.18	38.52	38.94	107.49	12.20	-1,368.19	335.98	261.74	74.24	4.525	
8,100.00	7,044.75	8,189.94	7,142.69	40.80	41.16	107.49	14.20	-1,468.17	335.98	257.42	78.56	4.277	
8,200.00	7,045.26	8,289.94	7,143.21	43.15	43.43	107.49	16.20	-1,568.15	335.98	253.00	82.98	4.049	
8,300.00	7,045.78	8,389.94	7,143.73	45.54	45.76	107.49	18.19	-1,668.13	335.98	248.49	87.49	3.840	
8,400.00	7,046.30	8,489.94	7,144.25	47.97	48.13	107.49	20.19	-1,768.11	335.98	243.90	92.08	3.649	
8,500.00	7,046.82	8,589.94	7,144.77	50.44	50.54	107.49	22.19	-1,868.09	335.98	239.24	96.74	3.473	
8,600.00	7,047.34	8,689.94	7,145.29	52.94	52.98	107.49	24.18	-1,968.06	335.98	234.53	101.45	3.312	
8,700.00	7,047.86	8,789.94	7,145.80	55.46	55.45	107.49	26.18	-2,068.04	335.98	229.77	106.22	3.163	
8,800.00	7,048.37	8,889.94	7,146.32	58.00	57.94	107.49	28.18	-2,168.02	335.98	224.96	111.02	3.026	
8,900.00	7,048.89	8,989.94	7,146.84	60.56	60.46	107.49	30.17	-2,268.00	335.98	220.11	115.87	2.900	
9,000.00	7,049.41	9,089.94	7,147.36	63.13	62.99	107.49	32.17	-2,367.98	335.98	215.24	120.74	2.783	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,189.94	7,147.88	65.72	65.54	107.49	34.17	-2,467.96	335.98	210.33	125.65	2.674	
9,200.00	7,050.45	9,289.94	7,148.40	68.32	68.10	107.49	36.16	-2,567.94	335.98	205.40	130.58	2.573	
9,300.00	7,050.97	9,389.94	7,148.91	70.93	70.68	107.49	38.16	-2,667.91	335.98	200.44	135.54	2.479	
9,400.00	7,051.48	9,489.94	7,149.43	73.55	73.27	107.49	40.16	-2,767.89	335.98	195.47	140.51	2.391	
9,500.00	7,052.00	9,589.94	7,149.95	76.18	75.87	107.49	42.15	-2,867.87	335.98	190.47	145.51	2.309	
9,600.00	7,052.52	9,689.94	7,150.47	78.81	78.48	107.49	44.15	-2,967.85	335.98	185.46	150.52	2.232	
9,700.00	7,053.04	9,789.94	7,150.99	81.46	81.09	107.49	46.15	-3,067.83	335.98	180.43	155.55	2.160	
9,800.00	7,053.56	9,889.94	7,151.51	84.10	83.72	107.49	48.14	-3,167.81	335.98	175.39	160.59	2.092	
9,900.00	7,054.08	9,989.94	7,152.02	86.76	86.35	107.49	50.14	-3,267.79	335.98	170.34	165.64	2.028	
10,000.00	7,054.59	10,089.94	7,152.54	89.42	88.99	107.49	52.14	-3,367.77	335.98	165.28	170.70	1.968 Collision Risk Procedures Req.	
10,100.00	7,055.11	10,189.94	7,153.06	92.08	91.63	107.49	54.13	-3,467.74	335.98	160.20	175.78	1.911 Collision Risk Procedures Req.	
10,200.00	7,055.63	10,289.94	7,153.58	94.75	94.28	107.49	56.13	-3,567.72	335.98	155.12	180.86	1.858 Collision Risk Procedures Req.	
10,300.00	7,056.15	10,389.94	7,154.10	97.42	96.93	107.49	58.13	-3,667.70	335.98	150.03	185.95	1.807 Collision Risk Procedures Req.	
10,400.00	7,056.67	10,489.94	7,154.61	100.10	99.59	107.49	60.12	-3,767.68	335.98	144.93	191.06	1.759 Collision Risk Procedures Req.	
10,500.00	7,057.18	10,589.94	7,155.13	102.78	102.25	107.49	62.12	-3,867.66	335.98	139.82	196.16	1.713 Collision Risk Procedures Req.	
10,600.00	7,057.70	10,689.94	7,155.65	105.46	104.92	107.49	64.12	-3,967.64	335.98	134.70	201.28	1.669 Collision Risk Procedures Req.	
10,700.00	7,058.22	10,789.94	7,156.17	108.14	107.59	107.49	66.11	-4,067.62	335.98	129.58	206.40	1.628 Collision Risk Procedures Req.	
10,800.00	7,058.74	10,889.94	7,156.69	110.83	110.26	107.49	68.11	-4,167.60	335.98	124.45	211.53	1.588 Collision Risk Procedures Req.	
10,900.00	7,059.26	10,989.94	7,157.21	113.52	112.94	107.49	70.11	-4,267.57	335.98	119.32	216.66	1.551 Collision Risk Procedures Req.	
11,000.00	7,059.78	11,089.94	7,157.72	116.21	115.62	107.49	72.10	-4,367.55	335.98	114.19	221.80	1.515 Collision Risk Procedures Req.	
11,100.00	7,060.29	11,189.94	7,158.24	118.90	118.30	107.49	74.10	-4,467.53	335.98	109.04	226.94	1.480 Collision Avoidance Req.	
11,200.00	7,060.81	11,289.94	7,158.76	121.60	120.98	107.49	76.10	-4,567.51	335.98	103.90	232.08	1.448 Collision Avoidance Req.	
11,300.00	7,061.33	11,389.94	7,159.28	124.30	123.67	107.49	78.09	-4,667.49	335.98	98.75	237.24	1.416 Collision Avoidance Req.	
11,400.00	7,061.85	11,489.94	7,159.80	127.00	126.36	107.49	80.09	-4,767.47	335.98	93.59	242.39	1.386 Collision Avoidance Req.	
11,500.00	7,062.37	11,589.94	7,160.32	129.70	129.05	107.49	82.09	-4,867.45	335.98	88.43	247.55	1.357 Collision Avoidance Req.	
11,600.00	7,062.89	11,689.94	7,160.83	132.40	131.74	107.49	84.08	-4,967.43	335.98	83.27	252.71	1.330 Collision Avoidance Req.	
11,700.00	7,063.40	11,789.94	7,161.35	135.10	134.44	107.49	86.08	-5,067.40	335.98	78.11	257.87	1.303 Collision Avoidance Req.	
11,800.00	7,063.92	11,889.94	7,161.87	137.81	137.13	107.49	88.08	-5,167.38	335.98	72.94	263.04	1.277 Collision Avoidance Req.	
11,900.00	7,064.44	11,989.94	7,162.39	140.51	139.83	107.49	90.07	-5,267.36	335.98	67.77	268.21	1.253 Collision Avoidance Req.	
12,000.00	7,064.96	12,089.94	7,162.91	143.22	142.53	107.49	92.07	-5,367.34	335.98	62.60	273.38	1.229 Collision Avoidance Req.	
12,100.00	7,065.48	12,189.94	7,163.43	145.93	145.23	107.49	94.07	-5,467.32	335.98	57.42	278.56	1.206 Collision Avoidance Req.	
12,200.00	7,066.00	12,289.94	7,163.94	148.64	147.93	107.49	96.06	-5,567.30	335.98	52.24	283.74	1.184 Collision Avoidance Req.	
12,300.00	7,066.51	12,389.94	7,164.46	151.35	150.63	107.49	98.06	-5,667.28	335.98	47.06	288.92	1.163 Collision Avoidance Req.	
12,400.00	7,067.03	12,489.94	7,164.98	154.06	153.34	107.49	100.06	-5,767.26	335.98	41.88	294.10	1.142 Collision Avoidance Req.	
12,500.00	7,067.55	12,589.94	7,165.50	156.77	156.04	107.49	102.05	-5,867.23	335.98	36.70	299.28	1.123 Collision Avoidance Req.	
12,600.00	7,068.07	12,689.94	7,166.02	159.49	158.75	107.49	104.05	-5,967.21	335.98	31.51	304.47	1.103 Collision Avoidance Req.	
12,700.00	7,068.59	12,789.94	7,166.54	162.20	161.46	107.49	106.05	-6,067.19	335.98	26.32	309.66	1.085 Collision Avoidance Req.	
12,800.00	7,069.11	12,889.94	7,167.05	164.92	164.17	107.49	108.04	-6,167.17	335.98	21.13	314.85	1.067 Collision Avoidance Req.	
12,900.00	7,069.62	12,989.94	7,167.57	167.63	166.88	107.49	110.04	-6,267.15	335.98	15.94	320.04	1.050 Collision Avoidance Req.	
13,000.00	7,070.14	13,089.94	7,168.09	170.35	169.59	107.49	112.04	-6,367.13	335.98	10.75	325.23	1.033 Collision Avoidance Req.	
13,100.00	7,070.66	13,189.94	7,168.61	173.07	172.30	107.49	114.03	-6,467.11	335.98	5.55	330.43	1.017 Collision Avoidance Req.	
13,200.00	7,071.18	13,289.94	7,169.13	175.78	175.01	107.49	116.03	-6,567.09	335.98	0.36	335.62	1.001 Collision Avoidance Req.	
13,300.00	7,071.70	13,389.94	7,169.64	178.50	177.72	107.49	118.03	-6,667.06	335.98	-4.84	340.82	0.986 No-Go Zone - Stop Drilling	
13,400.00	7,072.21	13,489.94	7,170.16	181.22	180.44	107.49	120.02	-6,767.04	335.98	-10.04	346.02	0.971 No-Go Zone - Stop Drilling	
13,500.00	7,072.73	13,589.94	7,170.68	183.94	183.15	107.49	122.02	-6,867.02	335.98	-15.24	351.22	0.957 No-Go Zone - Stop Drilling	
13,600.00	7,073.25	13,689.94	7,171.20	186.66	185.87	107.49	124.02	-6,967.00	335.98	-20.44	356.42	0.943 No-Go Zone - Stop Drilling	
13,700.00	7,073.77	13,789.94	7,171.72	189.38	188.58	107.49	126.01	-7,066.98	335.98	-25.64	361.62	0.929 No-Go Zone - Stop Drilling	
13,800.00	7,074.29	13,889.94	7,172.24	192.10	191.30	107.49	128.01	-7,166.96	335.98	-30.84	366.82	0.916 No-Go Zone - Stop Drilling	
13,900.00	7,074.81	13,989.94	7,172.75	194.82	194.02	107.49	130.01	-7,266.94	335.98	-36.05	372.03	0.903 No-Go Zone - Stop Drilling	
14,000.00	7,075.32	14,089.94	7,173.27	197.54	196.73	107.49	132.00	-7,366.91	335.98	-41.25	377.23	0.891 No-Go Zone - Stop Drilling	
14,100.00	7,075.84	14,189.94	7,173.79	200.27	199.45	107.49	134.00	-7,466.89	335.98	-46.46	382.44	0.879 No-Go Zone - Stop Drilling	
14,200.00	7,076.36	14,289.94	7,174.31	202.99	202.17	107.49	136.00	-7,566.87	335.98	-51.66	387.65	0.867 No-Go Zone - Stop Drilling	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	14,389.94	7,174.83	205.71	204.89	107.49	137.99	-7,666.85	335.98	-56.87	392.86	0.855	No-Go Zone - Stop Drilling
14,400.00	7,077.40	14,489.94	7,175.35	208.44	207.61	107.49	139.99	-7,766.83	335.98	-62.08	398.06	0.844	No-Go Zone - Stop Drilling
14,500.00	7,077.92	14,589.94	7,175.86	211.16	210.33	107.49	141.99	-7,866.81	335.98	-67.29	403.27	0.833	No-Go Zone - Stop Drilling
14,600.00	7,078.43	14,689.94	7,176.38	213.88	213.05	107.49	143.98	-7,966.79	335.98	-72.50	408.48	0.823	No-Go Zone - Stop Drilling
14,700.00	7,078.95	14,789.94	7,176.90	216.61	215.77	107.49	145.98	-8,066.77	335.98	-77.71	413.69	0.812	No-Go Zone - Stop Drilling
14,800.00	7,079.47	14,889.94	7,177.42	219.33	218.49	107.49	147.98	-8,166.74	335.98	-82.92	418.91	0.802	No-Go Zone - Stop Drilling
14,900.00	7,079.99	14,989.94	7,177.94	222.06	221.21	107.49	149.97	-8,266.72	335.98	-88.14	424.12	0.792	No-Go Zone - Stop Drilling
15,000.00	7,080.51	15,089.94	7,178.46	224.78	223.93	107.49	151.97	-8,366.70	335.98	-93.35	429.33	0.783	No-Go Zone - Stop Drilling
15,100.00	7,081.03	15,189.94	7,178.97	227.51	226.66	107.49	153.97	-8,466.68	335.98	-98.56	434.55	0.773	No-Go Zone - Stop Drilling
15,200.00	7,081.54	15,289.94	7,179.49	230.24	229.38	107.49	155.96	-8,566.66	335.98	-103.78	439.76	0.764	No-Go Zone - Stop Drilling
15,300.00	7,082.06	15,389.94	7,180.01	232.96	232.10	107.49	157.96	-8,666.64	335.98	-108.99	444.98	0.755	No-Go Zone - Stop Drilling
15,400.00	7,082.58	15,489.94	7,180.53	235.69	234.83	107.49	159.96	-8,766.62	335.98	-114.21	450.19	0.746	No-Go Zone - Stop Drilling
15,500.00	7,083.10	15,589.94	7,181.05	238.41	237.55	107.49	161.95	-8,866.60	335.98	-119.42	455.41	0.738	No-Go Zone - Stop Drilling
15,600.00	7,083.62	15,689.94	7,181.57	241.14	240.27	107.49	163.95	-8,966.57	335.98	-124.64	460.62	0.729	No-Go Zone - Stop Drilling
15,700.00	7,084.13	15,789.94	7,182.08	243.87	243.00	107.49	165.95	-9,066.55	335.98	-129.86	465.84	0.721	No-Go Zone - Stop Drilling
15,800.00	7,084.65	15,889.94	7,182.60	246.60	245.72	107.49	167.94	-9,166.53	335.98	-135.08	471.06	0.713	No-Go Zone - Stop Drilling
15,900.00	7,085.17	15,989.94	7,183.12	249.32	248.45	107.49	169.94	-9,266.51	335.98	-140.29	476.28	0.705	No-Go Zone - Stop Drilling
16,000.00	7,085.69	16,089.94	7,183.64	252.05	251.17	107.49	171.94	-9,366.49	335.98	-145.51	481.50	0.698	No-Go Zone - Stop Drilling
16,100.00	7,086.21	16,189.94	7,184.16	254.78	253.90	107.49	173.93	-9,466.47	335.98	-150.73	486.72	0.690	No-Go Zone - Stop Drilling
16,200.00	7,086.73	16,289.94	7,184.67	257.51	256.62	107.49	175.93	-9,566.45	335.98	-155.95	491.94	0.683	No-Go Zone - Stop Drilling
16,300.00	7,087.24	16,389.94	7,185.19	260.24	259.35	107.49	177.93	-9,666.43	335.98	-161.17	497.16	0.676	No-Go Zone - Stop Drilling
16,400.00	7,087.76	16,489.94	7,185.71	262.97	262.08	107.49	179.92	-9,766.40	335.98	-166.39	502.38	0.669	No-Go Zone - Stop Drilling
16,500.00	7,088.28	16,589.94	7,186.23	265.69	264.80	107.49	181.92	-9,866.38	335.98	-171.61	507.60	0.662	No-Go Zone - Stop Drilling
16,600.00	7,088.80	16,689.94	7,186.75	268.42	267.53	107.49	183.92	-9,966.36	335.98	-176.83	512.82	0.655	No-Go Zone - Stop Drilling
16,700.00	7,089.32	16,789.94	7,187.27	271.15	270.26	107.49	185.91	-10,066.34	335.98	-182.06	518.04	0.649	No-Go Zone - Stop Drilling
16,800.00	7,089.84	16,889.94	7,187.78	273.88	272.98	107.49	187.91	-10,166.32	335.98	-187.28	523.26	0.642	No-Go Zone - Stop Drilling
16,900.00	7,090.35	16,989.94	7,188.30	276.61	275.71	107.49	189.91	-10,266.30	335.98	-192.50	528.48	0.636	No-Go Zone - Stop Drilling
17,000.00	7,090.87	17,089.94	7,188.82	279.34	278.44	107.49	191.90	-10,366.28	335.98	-197.72	533.71	0.630	No-Go Zone - Stop Drilling
17,024.65	7,091.00	17,114.59	7,188.95	280.01	279.11	107.49	192.40	-10,390.92	335.98	-199.01	534.99	0.628	No-Go Zone - Stop Drilling, ES, SF

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	69.10	48.60	127.29	136.26				
100.00	100.00	99.00	99.00	0.48	0.48	69.10	48.60	127.29	136.26	135.30	0.96	141.880	
200.00	200.00	199.00	199.00	1.28	1.27	69.10	48.60	127.29	136.26	133.70	2.56	53.296	
300.00	300.00	299.00	299.00	1.77	1.76	69.10	48.60	127.29	136.26	132.72	3.53	38.574	
400.00	400.00	399.00	399.00	2.15	2.15	69.10	48.60	127.29	136.26	131.96	4.30	31.708	
500.00	500.00	499.00	499.00	2.48	2.47	69.10	48.60	127.29	136.26	131.31	4.95	27.524	
600.00	600.00	599.00	599.00	2.77	2.76	69.10	48.60	127.29	136.26	130.72	5.53	24.631	
700.00	700.00	699.00	699.00	3.03	3.03	69.10	48.60	127.29	136.26	130.19	6.06	22.477	
800.00	800.00	799.00	799.00	3.28	3.28	69.10	48.60	127.29	136.26	129.70	6.55	20.791	
900.00	900.00	899.00	899.00	3.51	3.51	69.10	48.60	127.29	136.26	129.24	7.01	19.425 CC, ES	
1,000.00	999.98	998.98	998.98	3.78	3.72	-142.48	48.60	127.29	137.64	130.16	7.48	18.403	
1,083.35	1,083.22	1,082.22	1,082.22	4.28	3.90	-143.46	48.60	127.29	140.93	132.90	8.02	17.564	
1,100.00	1,099.84	1,098.84	1,098.84	4.29	3.93	-143.71	48.60	127.29	141.78	133.72	8.07	17.571	
1,200.00	1,199.64	1,198.64	1,198.64	4.47	4.13	-145.19	48.60	127.29	146.99	138.54	8.45	17.393	
1,300.00	1,299.43	1,297.36	1,297.34	4.70	4.37	-145.94	47.28	128.29	152.63	143.82	8.82	17.308	
1,400.00	1,399.23	1,395.99	1,395.84	4.95	5.04	-145.43	43.25	131.33	159.02	149.80	9.22	17.248 SF	
1,500.00	1,499.02	1,494.33	1,493.81	5.20	5.68	-143.83	36.54	136.39	166.23	156.61	9.63	17.269	
1,600.00	1,598.82	1,592.13	1,590.91	5.47	6.27	-141.30	27.21	143.43	174.52	164.47	10.06	17.351	
1,700.00	1,698.61	1,689.18	1,686.81	5.75	6.83	-138.05	15.34	152.38	184.27	173.74	10.53	17.500	
1,800.00	1,798.41	1,785.27	1,781.21	6.04	7.37	-134.28	1.03	163.17	195.90	184.85	11.05	17.724	
1,900.00	1,898.20	1,880.20	1,873.82	6.34	7.89	-130.20	-15.57	175.69	209.86	198.23	11.63	18.039	
2,000.00	1,998.00	1,973.78	1,964.40	6.64	8.40	-126.00	-34.33	189.83	226.52	214.26	12.27	18.469	
2,100.00	2,097.79	2,065.85	2,052.73	6.94	8.89	-121.85	-55.08	205.48	246.19	233.26	12.93	19.034	
2,200.00	2,197.59	2,156.26	2,138.60	7.26	9.37	-117.88	-77.64	222.50	269.06	255.43	13.62	19.749	
2,300.00	2,297.38	2,244.88	2,221.86	7.57	9.83	-114.16	-101.86	240.76	295.21	280.90	14.32	20.620	
2,400.00	2,397.18	2,331.59	2,302.39	7.89	10.28	-110.74	-127.53	260.12	324.68	309.67	15.00	21.643	
2,500.00	2,496.97	2,416.31	2,380.10	8.22	10.72	-107.64	-154.48	280.44	357.39	341.72	15.67	22.809	
2,600.00	2,596.77	2,500.00	2,455.84	8.54	11.15	-104.81	-182.88	301.87	393.27	376.94	16.33	24.083	
2,700.00	2,696.57	2,579.48	2,526.79	8.87	11.55	-102.35	-211.49	323.44	432.18	415.24	16.94	25.512	
2,800.00	2,796.36	2,657.84	2,595.73	9.21	11.94	-100.13	-241.22	345.86	473.99	456.45	17.54	27.024	
2,900.00	2,896.16	2,733.99	2,661.73	9.54	12.32	-98.15	-271.55	368.73	518.57	500.46	18.11	28.628	
3,000.00	2,995.95	2,807.94	2,724.84	9.87	12.69	-96.39	-302.32	391.94	565.77	547.11	18.66	30.312	
3,100.00	3,095.75	2,879.69	2,785.09	10.21	13.04	-94.81	-333.42	415.39	615.45	596.26	19.19	32.064	
3,200.00	3,195.54	2,949.24	2,842.55	10.55	13.38	-93.41	-364.70	438.98	667.49	647.78	19.70	33.879	
3,300.00	3,295.34	3,016.61	2,897.29	10.89	13.69	-92.15	-396.05	462.63	721.74	701.58	20.16	35.792	
3,400.00	3,395.13	3,093.66	2,959.10	11.23	13.96	-90.84	-432.79	490.33	777.65	756.98	20.68	37.608	
3,500.00	3,494.93	3,175.09	3,024.38	11.58	14.24	-89.63	-471.65	519.64	833.92	812.67	21.25	39.241	
3,600.00	3,594.72	3,256.52	3,089.67	11.92	14.70	-88.57	-510.51	548.95	890.41	868.52	21.89	40.671	
3,700.00	3,694.52	3,337.95	3,154.95	12.26	15.62	-87.63	-549.36	578.25	947.09	924.63	22.46	42.163	
3,800.00	3,794.31	3,419.38	3,220.23	12.61	16.53	-86.80	-588.22	607.56	1,003.93	980.87	23.06	43.540	
3,900.00	3,894.11	3,500.81	3,285.51	12.96	17.45	-86.05	-627.08	636.86	1,060.90	1,037.24	23.66	44.836	
4,000.00	3,993.90	3,582.24	3,350.79	13.30	18.36	-85.38	-665.94	666.17	1,117.98	1,093.70	24.28	46.051	
4,100.00	4,093.70	3,663.66	3,416.08	13.65	19.28	-84.77	-704.80	695.47	1,175.15	1,150.26	24.90	47.204	
4,200.00	4,193.49	3,745.09	3,481.36	14.00	20.21	-84.22	-743.66	724.78	1,232.41	1,206.89	25.52	48.297	
4,300.00	4,293.29	3,826.52	3,546.64	14.35	21.14	-83.72	-782.52	754.08	1,289.73	1,263.59	26.14	49.333	
4,400.00	4,393.08	3,907.95	3,611.92	14.70	22.07	-83.26	-821.38	783.39	1,347.12	1,320.35	26.77	50.315	
4,500.00	4,492.88	3,989.38	3,677.20	15.05	23.01	-82.84	-860.24	812.70	1,404.56	1,377.15	27.41	51.244	
4,600.00	4,592.68	4,070.81	3,742.49	15.40	23.94	-82.45	-899.09	842.00	1,462.05	1,434.00	28.05	52.124	
4,700.00	4,692.47	4,152.23	3,807.77	15.75	24.88	-82.09	-937.95	871.31	1,519.59	1,490.89	28.69	52.960	
4,800.00	4,792.27	4,233.66	3,873.05	16.10	25.82	-81.75	-976.81	900.61	1,577.16	1,547.82	29.34	53.754	
4,900.00	4,892.06	4,315.09	3,938.33	16.45	26.77	-81.44	-1,015.67	929.92	1,634.76	1,604.77	29.99	54.510	
5,000.00	4,991.86	4,396.52	4,003.61	16.81	27.71	-81.15	-1,054.53	959.22	1,692.39	1,661.75	30.64	55.228	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HC-02-07-65 - OWB - PROPOSAL 1											Offset Site Error: 0.00 usft				
Survey Program: 0-MWD		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.00	5,091.65	4,477.95	4,068.90	17.16	28.66	-80.88	-1,093.39	988.53	1,750.05	1,718.75	31.30	55.910			
5,200.00	5,191.45	4,559.38	4,134.18	17.51	29.60	-80.62	-1,132.25	1,017.83	1,807.74	1,775.78	31.96	56.559			
5,300.00	5,291.24	4,640.80	4,199.46	17.87	30.55	-80.39	-1,171.11	1,047.14	1,865.45	1,832.82	32.63	57.178			
5,400.00	5,391.04	4,722.23	4,264.74	18.22	31.50	-80.16	-1,209.97	1,076.45	1,923.18	1,889.89	33.29	57.769			
5,500.00	5,490.83	4,803.66	4,330.03	18.57	32.45	-79.95	-1,248.82	1,105.75	1,980.92	1,946.96	33.96	58.332			
5,600.00	5,590.63	4,885.09	4,395.31	18.93	33.40	-79.75	-1,287.68	1,135.06	2,038.69	2,004.06	34.63	58.869			
5,700.00	5,690.42	4,966.52	4,460.59	19.28	34.36	-79.56	-1,326.54	1,164.36	2,096.47	2,061.16	35.31	59.381			
5,800.00	5,790.22	5,047.95	4,525.87	19.64	35.31	-79.38	-1,365.40	1,193.67	2,154.26	2,118.28	35.98	59.871			
5,900.00	5,890.01	5,129.37	4,591.15	19.99	36.26	-79.22	-1,404.26	1,222.97	2,212.07	2,175.41	36.66	60.339			
6,000.00	5,989.81	5,210.80	4,656.44	20.35	37.22	-79.06	-1,443.12	1,252.28	2,269.89	2,232.55	37.34	60.787			
6,100.00	6,089.60	5,292.23	4,721.72	20.70	38.17	-78.90	-1,481.98	1,281.59	2,327.72	2,289.69	38.03	61.215			
6,200.00	6,189.40	5,373.66	4,787.00	21.06	39.13	-78.76	-1,520.84	1,310.89	2,385.56	2,346.85	38.71	61.625			
6,300.00	6,289.19	5,455.09	4,852.28	21.41	40.08	-78.62	-1,559.70	1,340.20	2,443.41	2,404.01	39.40	62.017			
6,400.00	6,388.99	5,536.52	4,917.56	21.77	41.04	-78.49	-1,598.56	1,369.50	2,501.27	2,461.18	40.09	62.393			
6,498.43	6,487.22	5,616.67	4,981.82	22.12	41.98	-78.36	-1,636.80	1,398.35	2,558.23	2,517.46	40.77	62.749			
6,500.00	6,488.79	5,617.94	4,982.85	22.12	42.00	-80.36	-1,637.41	1,398.81	2,559.14	2,518.36	40.78	62.755			
6,550.00	6,538.54	5,657.69	5,014.71	22.32	42.46	-111.21	-1,656.38	1,413.11	2,589.45	2,548.30	41.16	62.919			
6,600.00	6,587.76	5,695.39	5,044.93	22.59	42.91	-117.73	-1,674.37	1,426.68	2,622.18	2,580.60	41.58	63.058			
6,650.00	6,636.08	10,354.62	7,233.92	22.84	57.79	-171.69	-281.79	2,371.31	2,647.14	2,582.39	64.75	40.884			
6,700.00	6,683.13	10,352.79	7,233.91	23.07	57.79	-174.00	-283.62	2,371.33	2,653.27	2,587.68	65.59	40.451			
6,750.00	6,728.55	10,351.17	7,233.90	23.29	57.80	-175.47	-285.24	2,371.35	2,664.61	2,598.19	66.42	40.120			
6,800.00	6,771.99	10,349.77	7,233.90	23.51	57.80	-176.51	-286.63	2,371.37	2,680.99	2,613.79	67.20	39.894			
6,850.00	6,813.13	10,348.61	7,233.89	23.72	57.80	-177.29	-287.80	2,371.38	2,702.20	2,634.26	67.94	39.774			
6,900.00	6,851.64	10,347.69	7,233.88	23.94	57.80	-177.94	-288.71	2,371.39	2,727.98	2,659.36	68.62	39.757			
6,950.00	6,887.25	10,347.02	7,233.88	24.16	57.80	-178.50	-289.38	2,371.40	2,757.99	2,688.77	69.23	39.839			
7,000.00	6,919.67	10,346.61	7,233.88	24.38	57.80	-179.04	-289.79	2,371.41	2,791.89	2,722.12	69.77	40.015			
7,050.00	6,948.65	10,346.46	7,233.88	24.62	57.80	-179.60	-289.95	2,371.41	2,829.27	2,759.03	70.24	40.279			
7,100.00	6,973.99	10,346.56	7,233.88	24.88	57.80	-179.78	-289.84	2,371.41	2,869.72	2,799.08	70.64	40.623			
7,150.00	6,995.49	10,346.93	7,233.88	25.18	57.80	-179.00	-289.47	2,371.40	2,912.82	2,841.85	70.97	41.041			
7,200.00	7,012.97	10,347.55	7,233.88	25.51	57.80	-177.94	-288.85	2,371.39	2,958.12	2,886.89	71.24	41.525			
7,250.00	7,026.32	10,348.43	7,233.89	25.89	57.80	-176.30	-287.98	2,371.38	3,005.20	2,933.76	71.44	42.066			
7,300.00	7,035.43	10,349.54	7,233.89	26.33	57.80	-173.30	-286.86	2,371.37	3,053.61	2,982.03	71.58	42.658			
7,350.00	7,040.22	10,350.90	7,233.90	26.84	57.80	-165.95	-285.51	2,371.35	3,102.94	3,031.26	71.67	43.293			
7,377.14	7,041.00	10,351.73	7,233.91	27.14	57.80	-154.92	-284.68	2,371.35	3,129.95	3,058.24	71.70	43.653			
7,400.00	7,041.12	10,352.46	7,233.91	27.41	57.79	-154.76	-283.95	2,371.34	3,152.75	3,081.03	71.72	43.960			
7,500.00	7,041.64	10,355.64	7,233.93	28.77	57.79	-154.06	-280.77	2,371.30	3,252.48	3,180.69	71.79	45.307			
7,600.00	7,042.16	10,358.82	7,233.94	30.39	57.79	-153.36	-277.59	2,371.26	3,352.23	3,280.37	71.86	46.652			
7,700.00	7,042.67	10,362.00	7,233.96	32.22	57.79	-152.68	-274.41	2,371.22	3,451.99	3,380.07	71.92	47.996			
7,800.00	7,043.19	5,710.16	5,056.78	34.20	43.08	-33.74	-1,681.42	1,432.00	3,551.61	3,502.09	49.53	71.708			
7,900.00	7,043.71	5,673.65	5,027.50	36.31	42.65	-33.00	-1,664.00	1,418.85	3,626.50	3,576.52	49.97	72.567			
8,000.00	7,044.23	5,637.13	4,998.22	38.52	42.22	-32.28	-1,646.57	1,405.71	3,702.20	3,651.82	50.38	73.478			
8,100.00	7,044.75	5,600.61	4,968.95	40.80	41.79	-31.56	-1,629.14	1,392.57	3,778.69	3,727.93	50.76	74.445			
8,200.00	7,045.26	5,564.09	4,939.67	43.15	41.36	-30.86	-1,611.71	1,379.42	3,855.90	3,804.81	51.10	75.465			
8,300.00	7,045.78	5,527.57	4,910.39	45.54	40.93	-30.16	-1,594.29	1,366.28	3,933.81	3,882.41	51.39	76.541			
8,400.00	7,046.30	5,491.05	4,881.11	47.97	40.51	-29.48	-1,576.86	1,353.14	4,012.36	3,960.70	51.66	77.671			
8,500.00	7,046.82	5,454.53	4,851.83	50.44	40.08	-28.80	-1,559.43	1,340.00	4,091.52	4,039.63	51.89	78.855			
8,600.00	7,047.34	5,418.01	4,822.56	52.94	39.65	-28.13	-1,542.00	1,326.85	4,171.26	4,119.17	52.08	80.093			
8,700.00	7,047.86	5,381.49	4,793.28	55.46	39.22	-27.47	-1,524.58	1,313.71	4,251.53	4,199.29	52.24	81.383			
8,800.00	7,048.37	5,344.97	4,764.00	58.00	38.79	-26.82	-1,507.15	1,300.57	4,332.33	4,279.96	52.37	82.725			
8,900.00	7,048.89	5,308.45	4,734.72	60.56	38.36	-26.18	-1,489.72	1,287.42	4,413.60	4,361.13	52.47	84.119			
9,000.00	7,049.41	5,271.94	4,705.45	63.13	37.93	-25.55	-1,472.29	1,274.28	4,495.34	4,442.80	52.54	85.563			
9,100.00	7,049.93	5,235.42	4,676.17	65.72	37.51	-24.93	-1,454.87	1,261.14	4,577.51	4,524.93	52.58	87.057			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,050.45	5,198.90	4,646.89	68.32	37.08	-24.32	-1,437.44	1,247.99	4,660.09	4,607.49	52.60	88.601	
9,300.00	7,050.97	5,162.38	4,617.61	70.93	36.65	-23.71	-1,420.01	1,234.85	4,743.05	4,690.47	52.59	90.192	
9,400.00	7,051.48	5,125.86	4,588.33	73.55	36.22	-23.12	-1,402.58	1,221.71	4,826.39	4,773.84	52.56	91.833	
9,500.00	7,052.00	5,089.34	4,559.06	76.18	35.79	-22.54	-1,385.16	1,208.57	4,910.08	4,857.58	52.50	93.522	
9,600.00	7,052.52	5,052.82	4,529.78	78.81	35.37	-21.96	-1,367.73	1,195.42	4,994.10	4,941.68	52.43	95.258	
9,700.00	7,053.04	5,016.30	4,500.50	81.46	34.94	-21.39	-1,350.30	1,182.28	5,078.44	5,026.11	52.33	97.042	
9,800.00	7,053.56	4,979.78	4,471.22	84.10	34.51	-20.83	-1,332.87	1,169.14	5,163.08	5,110.86	52.22	98.873	
9,900.00	7,054.08	4,943.26	4,441.95	86.76	34.08	-20.28	-1,315.45	1,155.99	5,248.01	5,195.92	52.09	100.750	
10,000.00	7,054.59	4,906.74	4,412.67	89.42	33.66	-19.74	-1,298.02	1,142.85	5,333.20	5,281.26	51.94	102.674	
10,100.00	7,055.11	4,870.23	4,383.39	92.08	33.23	-19.21	-1,280.59	1,129.71	5,418.66	5,366.88	51.78	104.643	
10,200.00	7,055.63	4,833.71	4,354.11	94.75	32.80	-18.69	-1,263.16	1,116.56	5,504.37	5,452.76	51.61	106.658	
10,300.00	7,056.15	4,797.19	4,324.84	97.42	32.38	-18.17	-1,245.74	1,103.42	5,590.31	5,538.89	51.42	108.719	
10,400.00	7,056.67	4,760.67	4,295.56	100.10	31.95	-17.66	-1,228.31	1,090.28	5,676.48	5,625.26	51.22	110.825	
10,500.00	7,057.18	4,724.15	4,266.28	102.78	31.52	-17.16	-1,210.88	1,077.14	5,762.86	5,711.85	51.01	112.976	
10,600.00	7,057.70	4,687.63	4,237.00	105.46	31.10	-16.67	-1,193.45	1,063.99	5,849.45	5,798.66	50.79	115.172	
10,700.00	7,058.22	4,651.11	4,207.72	108.14	30.67	-16.18	-1,176.03	1,050.85	5,936.23	5,885.68	50.56	117.412	
10,800.00	7,058.74	4,614.59	4,178.45	110.83	30.25	-15.71	-1,158.60	1,037.71	6,023.21	5,972.89	50.32	119.698	
10,900.00	7,059.26	4,578.07	4,149.17	113.52	29.82	-15.24	-1,141.17	1,024.56	6,110.36	6,060.29	50.07	122.026	
11,000.00	7,059.78	4,541.55	4,119.89	116.21	29.40	-14.78	-1,123.74	1,011.42	6,197.69	6,147.87	49.82	124.398	
11,100.00	7,060.29	4,505.03	4,090.61	118.90	28.97	-14.32	-1,106.32	998.28	6,285.18	6,235.62	49.56	126.814	
11,200.00	7,060.81	4,468.52	4,061.34	121.60	28.55	-13.87	-1,088.89	985.13	6,372.83	6,323.54	49.30	129.271	
11,300.00	7,061.33	4,432.00	4,032.06	124.30	28.12	-13.43	-1,071.46	971.99	6,460.64	6,411.61	49.03	131.771	
11,400.00	7,061.85	4,395.48	4,002.78	127.00	27.70	-13.00	-1,054.03	958.85	6,548.59	6,499.83	48.76	134.314	
11,500.00	7,062.37	4,358.96	3,973.50	129.70	27.27	-12.57	-1,036.61	945.71	6,636.68	6,588.20	48.48	136.895	
11,600.00	7,062.89	4,322.44	3,944.22	132.40	26.85	-12.15	-1,019.18	932.56	6,724.90	6,676.70	48.20	139.519	
11,700.00	7,063.40	4,285.92	3,914.95	135.10	26.43	-11.74	-1,001.75	919.42	6,813.26	6,765.34	47.92	142.182	
11,800.00	7,063.92	4,249.40	3,885.67	137.81	26.01	-11.33	-984.32	906.28	6,901.73	6,854.10	47.64	144.883	
11,900.00	7,064.44	4,212.88	3,856.39	140.51	25.58	-10.93	-966.90	893.13	6,990.33	6,942.98	47.35	147.624	
12,000.00	7,064.96	4,176.36	3,827.11	143.22	25.16	-10.54	-949.47	879.99	7,079.05	7,031.98	47.07	150.400	
12,100.00	7,065.48	4,139.84	3,797.84	145.93	24.74	-10.15	-932.04	866.85	7,167.87	7,121.09	46.78	153.212	
12,200.00	7,066.00	4,103.32	3,768.56	148.64	24.32	-9.77	-914.61	853.70	7,256.81	7,210.31	46.50	156.061	
12,300.00	7,066.51	4,066.81	3,739.28	151.35	23.90	-9.39	-897.19	840.56	7,345.84	7,299.62	46.22	158.940	
12,400.00	7,067.03	4,030.29	3,710.00	154.06	23.48	-9.02	-879.76	827.42	7,434.98	7,389.04	45.94	161.853	
12,500.00	7,067.55	3,993.77	3,680.72	156.77	23.06	-8.66	-862.33	814.28	7,524.21	7,478.55	45.66	164.800	
12,600.00	7,068.07	3,957.25	3,651.45	159.49	22.64	-8.30	-844.90	801.13	7,613.53	7,568.15	45.38	167.770	
12,700.00	7,068.59	3,920.73	3,622.17	162.20	22.22	-7.95	-827.48	787.99	7,702.94	7,657.83	45.11	170.773	
12,800.00	7,069.11	3,884.21	3,592.89	164.92	21.80	-7.60	-810.05	774.85	7,792.44	7,747.60	44.84	173.800	
12,900.00	7,069.62	3,847.69	3,563.61	167.63	21.38	-7.26	-792.62	761.70	7,882.02	7,837.45	44.57	176.850	
13,000.00	7,070.14	3,811.17	3,534.34	170.35	20.96	-6.92	-775.19	748.56	7,971.68	7,927.38	44.31	179.927	
13,100.00	7,070.66	3,774.65	3,505.06	173.07	20.55	-6.59	-757.77	735.42	8,061.42	8,017.38	44.05	183.018	
13,200.00	7,071.18	3,738.13	3,475.78	175.78	20.13	-6.26	-740.34	722.27	8,151.24	8,107.45	43.79	186.129	
13,300.00	7,071.70	3,701.62	3,446.50	178.50	19.72	-5.94	-722.91	709.13	8,241.13	8,197.58	43.54	189.263	
13,400.00	7,072.21	3,665.10	3,417.22	181.22	19.30	-5.62	-705.48	695.99	8,331.09	8,287.78	43.30	192.398	
13,500.00	7,072.73	3,628.58	3,387.95	183.94	18.89	-5.31	-688.06	682.85	8,421.11	8,378.05	43.06	195.552	
13,600.00	7,073.25	3,592.06	3,358.67	186.66	18.47	-5.00	-670.63	669.70	8,511.21	8,468.37	42.83	198.717	
13,700.00	7,073.77	3,555.54	3,329.39	189.38	18.06	-4.70	-653.20	656.56	8,601.36	8,558.75	42.61	201.877	
13,800.00	7,074.29	3,519.02	3,300.11	192.10	17.65	-4.40	-635.77	643.42	8,691.58	8,649.19	42.39	205.051	
13,900.00	7,074.81	3,482.50	3,270.84	194.82	17.24	-4.11	-618.35	630.27	8,781.86	8,739.68	42.18	208.221	
14,000.00	7,075.32	3,445.98	3,241.56	197.54	16.83	-3.82	-600.92	617.13	8,872.20	8,830.22	41.97	211.384	
14,100.00	7,075.84	3,409.46	3,212.28	200.27	16.43	-3.53	-583.49	603.99	8,962.59	8,920.82	41.77	214.555	
14,200.00	7,076.36	3,372.94	3,183.00	202.99	16.01	-3.25	-566.06	590.84	9,053.04	9,011.45	41.59	217.699	
14,300.00	7,076.88	3,336.42	3,153.72	205.71	15.61	-2.97	-548.64	577.70	9,143.54	9,102.13	41.40	220.838	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,400.00	7,077.40	3,299.91	3,124.45	208.44	15.22	-2.70	-531.21	564.56	9,234.09	9,192.86	41.23	223.981		
14,500.00	7,077.92	3,263.39	3,095.17	211.16	14.77	-2.43	-513.78	551.42	9,324.69	9,283.62	41.07	227.052		
14,600.00	7,078.43	3,226.87	3,065.89	213.88	14.45	-2.16	-496.35	538.27	9,415.34	9,374.44	40.91	230.167		
14,700.00	7,078.95	3,190.35	3,036.61	216.61	14.30	-1.90	-478.93	525.13	9,506.04	9,465.28	40.76	233.231		
14,800.00	7,079.47	3,153.83	3,007.34	219.33	14.15	-1.64	-461.50	511.99	9,596.78	9,556.16	40.62	236.247		
14,900.00	7,079.99	3,117.31	2,978.06	222.06	14.03	-1.39	-444.07	498.84	9,687.57	9,647.08	40.49	239.238		
15,000.00	7,080.51	3,080.79	2,948.78	224.78	13.91	-1.14	-426.64	485.70	9,778.41	9,738.03	40.38	242.171		
15,100.00	7,081.03	3,044.27	2,919.50	227.51	13.79	-0.89	-409.22	472.56	9,869.28	9,829.01	40.27	245.051		
15,200.00	7,081.54	3,035.30	2,912.31	230.24	13.76	-0.83	-404.94	469.33	9,960.23	9,919.88	40.35	246.847		

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HNA-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	69.64	52.38	141.14	150.55				
100.00	100.00	99.00	99.00	0.48	0.48	69.64	52.38	141.14	150.55	149.59	0.96	156.764	
200.00	200.00	199.00	199.00	1.28	1.27	69.64	52.38	141.14	150.55	147.99	2.56	58.887	
300.00	300.00	299.00	299.00	1.77	1.76	69.64	52.38	141.14	150.55	147.02	3.53	42.621	
400.00	400.00	399.00	399.00	2.15	2.15	69.64	52.38	141.14	150.55	146.25	4.30	35.034	
500.00	500.00	499.00	499.00	2.48	2.47	69.64	52.38	141.14	150.55	145.60	4.95	30.411	
600.00	600.00	599.00	599.00	2.77	2.76	69.64	52.38	141.14	150.55	145.02	5.53	27.215	
700.00	700.00	699.00	699.00	3.03	3.03	69.64	52.38	141.14	150.55	144.49	6.06	24.835	
800.00	800.00	799.00	799.00	3.28	3.28	69.64	52.38	141.14	150.55	144.00	6.55	22.972	
900.00	900.00	899.00	899.00	3.51	3.51	69.64	52.38	141.14	150.55	143.54	7.01	21.463 CC, ES	
1,000.00	999.98	998.98	998.98	3.78	3.72	-141.90	52.38	141.14	151.92	144.44	7.48	20.315	
1,083.35	1,083.22	1,082.22	1,082.22	4.28	3.90	-142.80	52.38	141.14	155.18	147.17	8.02	19.354	
1,100.00	1,099.84	1,098.84	1,098.84	4.29	3.93	-143.04	52.38	141.14	156.03	147.97	8.06	19.350	
1,200.00	1,199.64	1,197.12	1,197.10	4.47	4.18	-143.82	51.10	142.18	161.65	153.25	8.40	19.238	
1,300.00	1,299.43	1,295.30	1,295.15	4.70	4.88	-143.44	47.21	145.33	168.25	159.43	8.82	19.073	
1,400.00	1,399.23	1,393.17	1,392.65	4.95	5.53	-142.05	40.73	150.58	175.89	166.64	9.25	19.016 SF	
1,500.00	1,499.02	1,490.50	1,489.29	5.20	6.13	-139.81	31.73	157.87	184.77	175.06	9.71	19.034	
1,600.00	1,598.82	1,587.07	1,584.73	5.47	6.71	-136.89	20.28	167.14	195.22	185.02	10.21	19.125	
1,700.00	1,698.61	1,682.69	1,678.68	5.75	7.25	-133.49	6.49	178.31	207.63	196.87	10.76	19.296	
1,800.00	1,798.41	1,777.14	1,770.85	6.04	7.78	-129.80	-9.52	191.28	222.36	211.00	11.37	19.564	
1,900.00	1,898.20	1,870.26	1,861.01	6.34	8.29	-126.00	-27.60	205.93	239.76	227.75	12.02	19.951	
2,000.00	1,998.00	1,961.87	1,948.93	6.64	8.79	-122.21	-47.61	222.13	260.09	247.39	12.70	20.479	
2,100.00	2,097.79	2,051.84	2,034.42	6.94	9.27	-118.57	-69.37	239.76	283.51	270.11	13.40	21.160	
2,200.00	2,197.59	2,140.03	2,117.34	7.26	9.73	-115.14	-92.72	258.67	310.13	296.03	14.10	21.999	
2,300.00	2,297.38	2,226.33	2,197.54	7.57	10.18	-111.97	-117.47	278.72	339.95	325.16	14.79	22.991	
2,400.00	2,397.18	2,310.66	2,274.94	7.89	10.62	-109.07	-143.46	299.78	372.93	357.47	15.46	24.128	
2,500.00	2,496.97	2,392.93	2,349.48	8.22	11.05	-106.45	-170.52	321.69	409.00	392.89	16.11	25.395	
2,600.00	2,596.77	2,473.10	2,421.12	8.54	11.45	-104.09	-198.47	344.33	448.04	431.30	16.73	26.779	
2,700.00	2,696.57	2,551.11	2,489.85	8.87	11.85	-101.97	-227.15	367.57	489.93	472.60	17.33	28.269	
2,800.00	2,796.36	2,626.95	2,555.67	9.21	12.23	-100.08	-256.42	391.28	534.54	516.63	17.91	29.853	
2,900.00	2,896.16	2,700.00	2,618.11	9.54	12.60	-98.39	-285.88	415.14	581.74	563.29	18.45	31.536	
3,000.00	2,995.95	2,772.07	2,678.74	9.87	12.95	-96.86	-316.16	439.66	631.40	612.41	18.99	33.257	
3,100.00	3,095.75	2,841.36	2,736.09	10.21	13.29	-95.49	-346.37	464.13	683.38	663.89	19.49	35.060	
3,200.00	3,195.54	2,900.00	2,783.88	10.55	13.58	-94.41	-372.77	485.52	737.64	717.78	19.85	37.154	
3,300.00	3,295.34	2,973.50	2,842.78	10.89	13.92	-93.16	-406.93	513.19	793.86	773.41	20.45	38.825	
3,400.00	3,395.13	3,036.42	2,892.29	11.23	14.19	-92.16	-437.10	537.62	852.11	831.26	20.85	40.865	
3,500.00	3,494.93	3,110.58	2,949.90	11.58	14.46	-91.08	-473.38	567.02	911.82	890.47	21.36	42.696	
3,600.00	3,594.72	3,189.43	3,011.13	11.92	15.21	-90.06	-512.00	598.29	971.80	949.84	21.96	44.250	
3,700.00	3,694.52	3,268.28	3,072.36	12.26	16.17	-89.16	-550.61	629.57	1,031.97	1,009.43	22.53	45.801	
3,800.00	3,794.31	3,347.14	3,133.58	12.61	17.12	-88.35	-589.23	660.85	1,092.28	1,069.16	23.12	47.248	
3,900.00	3,894.11	3,425.99	3,194.81	12.96	18.07	-87.63	-627.84	692.13	1,152.71	1,129.00	23.71	48.618	
4,000.00	3,993.90	3,504.84	3,256.03	13.30	19.03	-86.98	-666.45	723.40	1,213.26	1,188.95	24.31	49.914	
4,100.00	4,093.70	3,583.70	3,317.26	13.65	19.99	-86.39	-705.07	754.68	1,273.89	1,248.98	24.91	51.133	
4,200.00	4,193.49	3,662.55	3,378.48	14.00	20.95	-85.85	-743.68	785.96	1,334.60	1,309.08	25.52	52.288	
4,300.00	4,293.29	3,741.40	3,439.71	14.35	21.92	-85.36	-782.30	817.24	1,395.39	1,369.25	26.14	53.384	
4,400.00	4,393.08	3,820.26	3,500.93	14.70	22.90	-84.91	-820.91	848.51	1,456.23	1,429.47	26.76	54.425	
4,500.00	4,492.88	3,899.11	3,562.16	15.05	23.87	-84.49	-859.52	879.79	1,517.12	1,489.74	27.38	55.413	
4,600.00	4,592.68	3,977.97	3,623.39	15.40	24.85	-84.11	-898.14	911.07	1,578.07	1,550.06	28.01	56.345	
4,700.00	4,692.47	4,056.82	3,684.61	15.75	25.83	-83.75	-936.75	942.35	1,639.05	1,610.41	28.64	57.232	
4,800.00	4,792.27	4,135.67	3,745.84	16.10	26.81	-83.42	-975.37	973.62	1,700.07	1,670.80	29.27	58.075	
4,900.00	4,892.06	4,214.53	3,807.06	16.45	27.79	-83.12	-1,013.98	1,004.90	1,761.12	1,731.21	29.91	58.877	
5,000.00	4,991.86	4,293.38	3,868.29	16.81	28.77	-82.83	-1,052.59	1,036.18	1,822.21	1,791.65	30.55	59.640	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HNA-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,372.23	3,929.51	17.16	29.76	-82.56	-1,091.21	1,067.46	1,883.32	1,852.12	31.20	60.363	
5,200.00	5,191.45	4,451.09	3,990.74	17.51	30.75	-82.31	-1,129.82	1,098.74	1,944.45	1,912.61	31.85	61.053	
5,300.00	5,291.24	4,529.94	4,051.97	17.87	31.73	-82.07	-1,168.43	1,130.01	2,005.61	1,973.11	32.50	61.711	
5,400.00	5,391.04	4,608.80	4,113.19	18.22	32.72	-81.85	-1,207.05	1,161.29	2,066.79	2,033.64	33.15	62.338	
5,500.00	5,490.83	4,687.65	4,174.42	18.57	33.71	-81.64	-1,245.66	1,192.57	2,127.99	2,094.17	33.81	62.936	
5,600.00	5,590.63	4,766.50	4,235.64	18.93	34.70	-81.44	-1,284.28	1,223.85	2,189.20	2,154.73	34.47	63.505	
5,700.00	5,690.42	4,845.36	4,296.87	19.28	35.70	-81.26	-1,322.89	1,255.12	2,250.43	2,215.29	35.14	64.049	
5,800.00	5,790.22	4,924.21	4,358.09	19.64	36.69	-81.08	-1,361.50	1,286.40	2,311.67	2,275.87	35.80	64.569	
5,900.00	5,890.01	5,003.06	4,419.32	19.99	37.68	-80.91	-1,400.12	1,317.68	2,372.93	2,336.46	36.47	65.067	
6,000.00	5,989.81	5,081.92	4,480.54	20.35	38.68	-80.75	-1,438.73	1,348.96	2,434.20	2,397.06	37.14	65.541	
6,100.00	6,089.60	5,160.77	4,541.77	20.70	39.67	-80.60	-1,477.35	1,380.23	2,495.48	2,457.66	37.81	65.995	
6,200.00	6,189.40	5,239.63	4,603.00	21.06	40.66	-80.45	-1,515.96	1,411.51	2,556.77	2,518.28	38.49	66.429	
6,300.00	6,289.19	5,318.48	4,664.22	21.41	41.66	-80.32	-1,554.57	1,442.79	2,618.07	2,578.90	39.17	66.845	
6,400.00	6,388.99	5,397.33	4,725.45	21.77	42.66	-80.18	-1,593.19	1,474.07	2,679.38	2,639.53	39.85	67.244	
6,498.43	6,487.22	5,474.95	4,785.71	22.12	43.64	-80.06	-1,631.20	1,504.85	2,739.73	2,699.22	40.52	67.620	
6,500.00	6,488.79	5,476.19	4,786.67	22.12	43.65	-82.05	-1,631.80	1,505.34	2,740.70	2,700.17	40.53	67.627	
6,550.00	6,538.54	5,514.56	4,816.47	22.32	44.14	-112.74	-1,650.59	1,520.56	2,772.72	2,731.82	40.90	67.797	
6,600.00	6,587.76	10,190.00	6,949.96	22.59	61.20	-167.24	-275.90	2,571.22	2,789.64	2,722.28	67.36	41.412	
6,650.00	6,636.08	10,187.97	6,949.95	22.84	61.21	-171.43	-277.93	2,571.25	2,796.26	2,728.13	68.14	41.039	
6,700.00	6,683.13	10,186.14	6,949.94	23.07	61.21	-173.76	-279.76	2,571.27	2,808.03	2,739.13	68.90	40.754	
6,750.00	6,728.55	10,184.52	6,949.93	23.29	61.21	-175.25	-281.38	2,571.29	2,824.79	2,755.15	69.63	40.567	
6,800.00	6,771.99	10,183.12	6,949.93	23.51	61.21	-176.31	-282.78	2,571.30	2,846.32	2,776.00	70.32	40.477	
6,850.00	6,813.13	10,181.96	6,949.92	23.72	61.21	-177.12	-283.94	2,571.32	2,872.36	2,801.41	70.95	40.485	
6,900.00	6,851.64	10,181.04	6,949.92	23.94	61.22	-177.78	-284.85	2,571.33	2,902.59	2,831.07	71.52	40.585	
6,950.00	6,887.25	10,180.38	6,949.91	24.16	61.22	-178.38	-285.52	2,571.34	2,936.65	2,864.63	72.02	40.774	
7,000.00	6,919.67	10,179.96	6,949.91	24.38	61.22	-178.97	-285.93	2,571.34	2,974.17	2,901.71	72.46	41.045	
7,050.00	6,948.65	10,179.81	6,949.91	24.62	61.22	-179.59	-286.09	2,571.34	3,014.72	2,941.89	72.83	41.392	
7,100.00	6,973.99	10,179.92	6,949.91	24.88	61.22	-179.67	-285.98	2,571.34	3,057.89	2,984.75	73.14	41.808	
7,150.00	6,995.49	10,180.28	6,949.91	25.18	61.22	-178.69	-285.61	2,571.34	3,103.25	3,029.86	73.39	42.285	
7,200.00	7,012.97	10,180.91	6,949.92	25.51	61.22	-177.20	-284.99	2,571.33	3,150.37	3,076.79	73.58	42.817	
7,250.00	7,026.32	10,181.78	6,949.92	25.89	61.22	-174.51	-284.12	2,571.32	3,198.81	3,125.09	73.71	43.396	
7,300.00	7,035.43	10,182.90	6,949.93	26.33	61.21	-167.84	-283.00	2,571.31	3,248.15	3,174.36	73.80	44.015	
7,350.00	7,040.22	10,184.26	6,949.93	26.84	61.21	-130.89	-281.64	2,571.29	3,298.00	3,224.16	73.84	44.666	
7,377.14	7,041.00	10,185.09	6,949.94	27.14	61.21	-55.54	-280.81	2,571.28	3,325.12	3,251.28	73.84	45.030	
7,400.00	7,041.12	10,185.81	6,949.94	27.41	61.21	-55.73	-280.08	2,571.27	3,347.97	3,274.12	73.84	45.340	
7,500.00	7,041.64	10,189.00	6,949.96	28.77	61.20	-56.51	-276.90	2,571.23	3,447.89	3,374.05	73.84	46.694	
7,600.00	7,042.16	10,192.18	6,949.97	30.39	61.20	-57.26	-273.72	2,571.20	3,547.82	3,473.98	73.84	48.046	
7,700.00	7,042.67	10,195.36	6,949.99	32.22	61.20	-57.98	-270.54	2,571.16	3,647.75	3,573.90	73.84	49.398	
7,800.00	7,043.19	5,518.03	4,819.16	34.20	44.18	-30.21	-1,652.29	1,521.94	3,743.28	3,694.67	48.60	77.015	
7,900.00	7,043.71	5,477.80	4,787.93	36.31	43.67	-29.48	-1,632.59	1,505.98	3,816.74	3,767.76	48.97	77.934	
8,000.00	7,044.23	5,437.57	4,756.69	38.52	43.16	-28.77	-1,612.89	1,490.03	3,890.96	3,841.65	49.31	78.907	
8,100.00	7,044.75	5,397.33	4,725.45	40.80	42.66	-28.07	-1,593.19	1,474.07	3,965.91	3,916.30	49.61	79.937	
8,200.00	7,045.26	5,357.10	4,694.21	43.15	42.15	-27.37	-1,573.49	1,458.11	4,041.54	3,991.66	49.88	81.023	
8,300.00	7,045.78	5,316.87	4,662.97	45.54	41.64	-26.69	-1,553.79	1,442.15	4,117.82	4,067.71	50.11	82.169	
8,400.00	7,046.30	5,276.64	4,631.73	47.97	41.13	-26.01	-1,534.09	1,426.19	4,194.71	4,144.40	50.31	83.372	
8,500.00	7,046.82	5,236.41	4,600.50	50.44	40.62	-25.35	-1,514.38	1,410.23	4,272.18	4,221.70	50.48	84.634	
8,600.00	7,047.34	5,196.17	4,569.26	52.94	40.12	-24.70	-1,494.68	1,394.28	4,350.20	4,299.59	50.61	85.954	
8,700.00	7,047.86	5,155.94	4,538.02	55.46	39.61	-24.05	-1,474.98	1,378.32	4,428.73	4,378.02	50.71	87.331	
8,800.00	7,048.37	5,115.71	4,506.78	58.00	39.10	-23.42	-1,455.28	1,362.36	4,507.76	4,456.97	50.78	88.766	
8,900.00	7,048.89	5,075.48	4,475.54	60.56	38.59	-22.79	-1,435.58	1,346.40	4,587.25	4,536.42	50.82	90.257	
9,000.00	7,049.41	5,035.24	4,444.31	63.13	38.09	-22.17	-1,415.88	1,330.44	4,667.18	4,616.34	50.84	91.804	
9,100.00	7,049.93	4,995.01	4,413.07	65.72	37.58	-21.57	-1,396.18	1,314.48	4,747.53	4,696.71	50.83	93.408	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HNA-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,050.45	4,954.78	4,381.83	68.32	37.07	-20.97	-1,376.47	1,298.53	4,828.28	4,777.49	50.79	95.066	
9,300.00	7,050.97	4,914.55	4,350.59	70.93	36.57	-20.38	-1,356.77	1,282.57	4,909.41	4,858.69	50.73	96.780	
9,400.00	7,051.48	4,874.32	4,319.35	73.55	36.06	-19.81	-1,337.07	1,266.61	4,990.90	4,940.26	50.64	98.549	
9,500.00	7,052.00	4,834.08	4,288.11	76.18	35.55	-19.24	-1,317.37	1,250.65	5,072.74	5,022.20	50.54	100.372	
9,600.00	7,052.52	4,793.85	4,256.88	78.81	35.05	-18.68	-1,297.67	1,234.69	5,154.90	5,104.48	50.41	102.250	
9,700.00	7,053.04	4,753.62	4,225.64	81.46	34.54	-18.12	-1,277.97	1,218.74	5,237.37	5,187.10	50.27	104.181	
9,800.00	7,053.56	4,713.39	4,194.40	84.10	34.04	-17.58	-1,258.27	1,202.78	5,320.14	5,270.03	50.11	106.166	
9,900.00	7,054.08	4,673.15	4,163.16	86.76	33.53	-17.05	-1,238.56	1,186.82	5,403.19	5,353.26	49.94	108.204	
10,000.00	7,054.59	4,632.92	4,131.92	89.42	33.03	-16.52	-1,218.86	1,170.86	5,486.51	5,436.77	49.74	110.296	
10,100.00	7,055.11	4,592.69	4,100.69	92.08	32.52	-16.01	-1,199.16	1,154.90	5,570.10	5,520.56	49.54	112.441	
10,200.00	7,055.63	4,552.46	4,069.45	94.75	32.02	-15.50	-1,179.46	1,138.94	5,653.92	5,604.60	49.32	114.636	
10,300.00	7,056.15	4,512.23	4,038.21	97.42	31.51	-15.00	-1,159.76	1,122.99	5,737.99	5,688.90	49.09	116.886	
10,400.00	7,056.67	4,471.99	4,006.97	100.10	31.01	-14.51	-1,140.06	1,107.03	5,822.28	5,773.43	48.85	119.187	
10,500.00	7,057.18	4,431.76	3,975.73	102.78	30.50	-14.02	-1,120.36	1,091.07	5,906.78	5,858.18	48.60	121.539	
10,600.00	7,057.70	4,391.53	3,944.49	105.46	30.00	-13.54	-1,100.65	1,075.11	5,991.49	5,943.15	48.34	123.943	
10,700.00	7,058.22	4,351.30	3,913.26	108.14	29.50	-13.08	-1,080.95	1,059.15	6,076.41	6,028.33	48.07	126.395	
10,800.00	7,058.74	4,311.06	3,882.02	110.83	28.99	-12.61	-1,061.25	1,043.19	6,161.51	6,113.71	47.80	128.900	
10,900.00	7,059.26	4,270.83	3,850.78	113.52	28.49	-12.16	-1,041.55	1,027.24	6,246.79	6,199.27	47.52	131.452	
11,000.00	7,059.78	4,230.60	3,819.54	116.21	27.99	-11.71	-1,021.85	1,011.28	6,332.25	6,285.01	47.24	134.053	
11,100.00	7,060.29	4,190.37	3,788.30	118.90	27.49	-11.28	-1,002.15	995.32	6,417.88	6,370.93	46.95	136.704	
11,200.00	7,060.81	4,150.13	3,757.07	121.60	26.99	-10.84	-982.45	979.36	6,503.66	6,457.01	46.66	139.398	
11,300.00	7,061.33	4,109.90	3,725.83	124.30	26.49	-10.42	-962.75	963.40	6,589.61	6,543.25	46.36	142.141	
11,400.00	7,061.85	4,069.67	3,694.59	127.00	25.99	-10.00	-943.04	947.44	6,675.70	6,629.64	46.06	144.926	
11,500.00	7,062.37	4,029.44	3,663.35	129.70	25.49	-9.59	-923.34	931.49	6,761.93	6,716.17	45.76	147.756	
11,600.00	7,062.89	3,989.21	3,632.11	132.40	24.99	-9.18	-903.64	915.53	6,848.31	6,802.84	45.46	150.630	
11,700.00	7,063.40	3,948.97	3,600.87	135.10	24.49	-8.79	-883.94	899.57	6,934.81	6,889.65	45.17	153.540	
11,800.00	7,063.92	3,908.74	3,569.64	137.81	23.99	-8.39	-864.24	883.61	7,021.45	6,976.58	44.87	156.494	
11,900.00	7,064.44	3,868.51	3,538.40	140.51	23.49	-8.01	-844.54	867.65	7,108.21	7,063.63	44.57	159.481	
12,000.00	7,064.96	3,828.28	3,507.16	143.22	22.99	-7.63	-824.84	851.69	7,195.08	7,150.81	44.28	162.505	
12,100.00	7,065.48	3,788.04	3,475.92	145.93	22.50	-7.26	-805.13	835.74	7,282.07	7,238.09	43.98	165.564	
12,200.00	7,066.00	3,747.81	3,444.68	148.64	22.00	-6.89	-785.43	819.78	7,369.17	7,325.48	43.70	168.649	
12,300.00	7,066.51	3,707.58	3,413.45	151.35	21.51	-6.53	-765.73	803.82	7,456.38	7,412.97	43.41	171.770	
12,400.00	7,067.03	3,667.35	3,382.21	154.06	21.01	-6.17	-746.03	787.86	7,543.69	7,500.56	43.13	174.909	
12,500.00	7,067.55	3,627.12	3,350.97	156.77	20.52	-5.82	-726.33	771.90	7,631.10	7,588.25	42.85	178.075	
12,600.00	7,068.07	3,586.88	3,319.73	159.49	20.03	-5.47	-706.63	755.95	7,718.61	7,676.03	42.58	181.264	
12,700.00	7,068.59	3,546.65	3,288.49	162.20	19.54	-5.14	-686.93	739.99	7,806.21	7,763.89	42.32	184.463	
12,800.00	7,069.11	3,506.42	3,257.25	164.92	19.05	-4.80	-667.22	724.03	7,893.89	7,851.84	42.06	187.688	
12,900.00	7,069.62	3,466.19	3,226.02	167.63	18.56	-4.47	-647.52	708.07	7,981.67	7,939.86	41.81	190.910	
13,000.00	7,070.14	3,425.95	3,194.78	170.35	18.07	-4.15	-627.82	692.11	8,069.53	8,027.96	41.56	194.147	
13,100.00	7,070.66	3,385.72	3,163.54	173.07	17.59	-3.83	-608.12	676.15	8,157.47	8,116.14	41.33	197.388	
13,200.00	7,071.18	3,345.49	3,132.30	175.78	17.10	-3.51	-588.42	660.20	8,245.49	8,204.39	41.10	200.621	
13,300.00	7,071.70	3,305.26	3,101.06	178.50	16.62	-3.21	-568.72	644.24	8,333.58	8,292.70	40.88	203.866	
13,400.00	7,072.21	3,265.03	3,069.83	181.22	16.13	-2.90	-549.02	628.28	8,421.75	8,381.08	40.67	207.078	
13,500.00	7,072.73	3,224.79	3,038.59	183.94	15.65	-2.60	-529.31	612.32	8,509.99	8,469.52	40.47	210.293	
13,600.00	7,073.25	3,184.56	3,007.35	186.66	15.14	-2.30	-509.61	596.36	8,598.30	8,558.02	40.28	213.470	
13,700.00	7,073.77	3,144.33	2,976.11	189.38	14.69	-2.01	-489.91	580.40	8,686.68	8,646.58	40.10	216.625	
13,800.00	7,074.29	3,104.10	2,944.87	192.10	14.44	-1.73	-470.21	564.45	8,775.12	8,735.19	39.92	219.791	
13,900.00	7,074.81	3,063.86	2,913.64	194.82	14.29	-1.44	-450.51	548.49	8,863.62	8,823.85	39.77	222.859	
14,000.00	7,075.32	3,053.18	2,905.34	197.54	14.26	-1.37	-445.28	544.25	8,952.24	8,912.39	39.84	224.690	
14,100.00	7,075.84	3,032.28	2,889.07	200.27	14.17	-1.23	-435.09	536.00	9,041.00	9,001.16	39.84	226.956	
14,200.00	7,076.36	3,020.41	2,879.78	202.99	14.13	-1.15	-429.34	531.34	9,129.96	9,090.06	39.90	228.845	
14,300.00	7,076.88	3,000.00	2,863.74	205.71	14.05	-1.01	-419.54	523.40	9,219.11	9,179.21	39.90	231.082	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HNA-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,400.00	7,077.40	3,000.00	2,863.74	208.44	14.05	-1.01	-419.54	523.40	9,308.40	9,268.36	40.04	232.486	
14,500.00	7,077.92	3,000.00	2,863.74	211.16	14.05	-1.01	-419.54	523.40	9,397.91	9,357.73	40.18	233.894	
14,600.00	7,078.43	3,000.00	2,863.74	213.88	14.05	-1.01	-419.54	523.40	9,487.63	9,447.31	40.32	235.304	
14,700.00	7,078.95	2,962.89	2,834.35	216.61	13.87	-0.77	-401.93	509.14	9,577.31	9,537.12	40.18	238.337	
14,800.00	7,079.47	2,951.74	2,825.46	219.33	13.81	-0.69	-396.70	504.90	9,667.26	9,627.02	40.24	240.231	
14,900.00	7,079.99	2,940.71	2,816.64	222.06	13.76	-0.62	-391.55	500.73	9,757.36	9,717.06	40.30	242.119	
15,000.00	7,080.51	2,900.00	2,783.88	224.78	13.58	-0.37	-372.77	485.52	9,847.77	9,807.62	40.15	245.266	
15,100.00	7,081.03	2,900.00	2,783.88	227.51	13.58	-0.37	-372.77	485.52	9,938.07	9,897.79	40.29	246.678	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-153.43	-223.33	-111.71	249.72				
100.00	100.00	98.00	98.00	0.48	0.47	-153.43	-223.33	-111.71	249.71	248.75	0.96	261.328	
200.00	200.00	198.00	198.00	1.28	1.27	-153.43	-223.33	-111.71	249.71	247.16	2.55	97.978	
300.00	300.00	298.00	298.00	1.77	1.76	-153.43	-223.33	-111.71	249.71	246.18	3.53	70.790	
400.00	400.00	398.00	398.00	2.15	2.14	-153.43	-223.33	-111.71	249.71	245.41	4.29	58.161	
500.00	500.00	498.00	498.00	2.48	2.47	-153.43	-223.33	-111.71	249.71	244.76	4.95	50.474	
600.00	600.00	598.00	598.00	2.77	2.76	-153.43	-223.33	-111.71	249.71	244.18	5.53	45.164	
700.00	700.00	698.00	698.00	3.03	3.03	-153.43	-223.33	-111.71	249.71	243.65	6.06	41.210	
800.00	800.00	798.00	798.00	3.28	3.27	-153.43	-223.33	-111.71	249.71	243.16	6.55	38.117	
900.00	900.00	898.00	898.00	3.51	3.50	-153.43	-223.33	-111.71	249.71	242.70	7.01	35.611	
1,000.00	999.98	997.98	997.98	3.78	3.72	-4.61	-223.33	-111.71	247.97	240.47	7.50	33.070	
1,083.35	1,083.22	1,079.47	1,079.46	4.28	3.94	-4.94	-224.06	-110.88	244.15	236.03	8.13	30.044	
1,100.00	1,099.84	1,095.72	1,095.70	4.29	3.99	-5.08	-224.38	-110.51	243.23	235.07	8.16	29.815	
1,200.00	1,199.64	1,193.20	1,193.05	4.47	4.71	-6.35	-227.63	-106.82	238.24	229.68	8.56	27.828	
1,300.00	1,299.43	1,290.31	1,289.82	4.70	5.38	-8.44	-233.04	-100.68	234.45	225.43	9.03	25.977	
1,400.00	1,399.23	1,386.84	1,385.66	4.95	5.99	-11.32	-240.55	-92.13	232.22	222.68	9.55	24.325	
1,458.50	1,457.61	1,442.94	1,441.18	5.10	6.33	-13.36	-245.90	-86.05	231.84	221.95	9.89	23.449 CC	
1,500.00	1,499.02	1,482.56	1,480.28	5.20	6.57	-14.94	-250.11	-81.27	232.05	221.91	10.14	22.884 ES	
1,600.00	1,598.82	1,577.27	1,573.38	5.47	7.13	-19.18	-261.62	-68.19	234.50	223.69	10.81	21.684	
1,700.00	1,698.61	1,670.80	1,664.69	5.75	7.66	-23.86	-274.97	-53.02	240.18	228.61	11.56	20.770	
1,800.00	1,798.41	1,762.97	1,753.98	6.04	8.17	-28.77	-290.05	-35.89	249.61	237.24	12.37	20.184	
1,900.00	1,898.20	1,853.61	1,841.04	6.34	8.67	-33.69	-306.72	-16.94	263.18	249.99	13.19	19.953 SF	
2,000.00	1,998.00	1,942.60	1,925.68	6.64	9.15	-38.44	-324.85	3.66	281.12	267.12	14.00	20.077	
2,100.00	2,097.79	2,029.81	2,007.77	6.94	9.61	-42.86	-344.29	25.75	303.46	288.68	14.78	20.536	
2,200.00	2,197.59	2,115.13	2,087.18	7.26	10.06	-46.89	-364.90	49.17	330.09	314.59	15.50	21.293	
2,300.00	2,297.38	2,200.00	2,165.21	7.57	10.51	-50.55	-386.95	74.22	360.81	344.62	16.20	22.277	
2,400.00	2,397.18	2,279.79	2,237.64	7.89	10.92	-53.65	-409.05	99.35	395.37	378.57	16.80	23.536	
2,500.00	2,496.97	2,359.01	2,308.61	8.22	11.33	-56.42	-432.31	125.78	433.50	416.12	17.38	24.947	
2,600.00	2,596.77	2,436.10	2,376.70	8.54	11.72	-58.82	-456.18	152.90	474.94	457.02	17.92	26.508	
2,700.00	2,696.57	2,511.04	2,441.95	8.87	12.10	-60.91	-480.54	180.58	519.45	501.02	18.42	28.193	
2,800.00	2,796.36	2,583.82	2,504.36	9.21	12.47	-62.72	-505.27	208.68	566.80	547.89	18.91	29.981	
2,900.00	2,896.16	2,654.45	2,564.00	9.54	12.82	-64.29	-530.25	237.08	616.79	597.43	19.36	31.857	
3,000.00	2,995.95	2,722.93	2,620.92	9.87	13.15	-65.65	-555.40	265.65	669.24	649.44	19.80	33.804	
3,100.00	3,095.75	2,789.28	2,675.20	10.21	13.48	-66.85	-580.62	294.31	723.98	703.77	20.22	35.807	
3,200.00	3,195.54	2,853.54	2,726.90	10.55	13.78	-67.89	-605.83	322.96	780.87	760.26	20.62	37.875	
3,300.00	3,295.34	2,915.74	2,776.12	10.89	14.07	-68.81	-630.95	351.51	839.77	818.79	20.98	40.020	
3,400.00	3,395.13	2,994.01	2,837.49	11.23	14.38	-69.84	-663.04	387.98	899.79	878.32	21.47	41.912	
3,500.00	3,494.93	3,072.97	2,899.40	11.58	15.23	-70.75	-695.41	424.76	959.99	937.96	22.02	43.588	
3,600.00	3,594.72	3,151.92	2,961.31	11.92	16.22	-71.56	-727.78	461.55	1,020.32	997.79	22.53	45.285	
3,700.00	3,694.52	3,230.87	3,023.22	12.26	17.19	-72.28	-760.15	498.33	1,080.77	1,057.71	23.06	46.862	
3,800.00	3,794.31	3,309.83	3,085.12	12.61	18.16	-72.92	-792.52	535.12	1,141.32	1,117.71	23.60	48.352	
3,900.00	3,894.11	3,388.78	3,147.03	12.96	19.14	-73.50	-824.89	571.90	1,201.95	1,177.79	24.16	49.753	
4,000.00	3,993.90	3,467.73	3,208.94	13.30	20.12	-74.03	-857.26	608.69	1,262.65	1,237.93	24.72	51.077	
4,100.00	4,093.70	3,546.69	3,270.85	13.65	21.10	-74.51	-889.63	645.47	1,323.42	1,298.13	25.29	52.332	
4,200.00	4,193.49	3,625.64	3,332.76	14.00	22.09	-74.94	-922.01	682.26	1,384.24	1,358.38	25.86	53.523	
4,300.00	4,293.29	3,704.59	3,394.66	14.35	23.08	-75.34	-954.38	719.04	1,445.10	1,418.66	26.44	54.652	
4,400.00	4,393.08	3,783.55	3,456.57	14.70	24.08	-75.71	-986.75	755.83	1,506.01	1,478.98	27.03	55.717	
4,500.00	4,492.88	3,862.50	3,518.48	15.05	25.07	-76.05	-1,019.12	792.61	1,566.95	1,539.33	27.62	56.727	
4,600.00	4,592.68	3,941.45	3,580.39	15.40	26.07	-76.36	-1,051.49	829.40	1,627.93	1,599.71	28.22	57.686	
4,700.00	4,692.47	4,020.40	3,642.30	15.75	27.07	-76.65	-1,083.86	866.18	1,688.93	1,660.11	28.82	58.597	
4,800.00	4,792.27	4,099.36	3,704.20	16.10	28.08	-76.92	-1,116.23	902.97	1,749.96	1,720.53	29.43	59.463	
4,900.00	4,892.06	4,178.31	3,766.11	16.45	29.08	-77.18	-1,148.60	939.76	1,811.01	1,780.97	30.04	60.282	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HNC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,257.26	3,828.02	16.81	30.08	-77.41	-1,180.97	976.54	1,872.08	1,841.42	30.66	61.062	
5,100.00	5,091.65	4,336.22	3,889.93	17.16	31.09	-77.64	-1,213.34	1,013.33	1,933.18	1,901.90	31.28	61.804	
5,200.00	5,191.45	4,415.17	3,951.84	17.51	32.10	-77.84	-1,245.71	1,050.11	1,994.28	1,962.38	31.90	62.511	
5,300.00	5,291.24	4,494.12	4,013.74	17.87	33.11	-78.04	-1,278.08	1,086.90	2,055.41	2,022.88	32.53	63.183	
5,400.00	5,391.04	4,573.08	4,075.65	18.22	34.12	-78.23	-1,310.45	1,123.68	2,116.55	2,083.39	33.16	63.823	
5,500.00	5,490.83	4,652.03	4,137.56	18.57	35.13	-78.40	-1,342.82	1,160.47	2,177.70	2,143.90	33.80	64.433	
5,600.00	5,590.63	4,730.98	4,199.47	18.93	36.14	-78.56	-1,375.19	1,197.25	2,238.86	2,204.43	34.44	65.015	
5,700.00	5,690.42	4,809.94	4,261.38	19.28	37.15	-78.72	-1,407.56	1,234.04	2,300.04	2,264.96	35.08	65.571	
5,800.00	5,790.22	4,888.89	4,323.28	19.64	38.16	-78.87	-1,439.93	1,270.82	2,361.22	2,325.50	35.72	66.101	
5,900.00	5,890.01	4,967.84	4,385.19	19.99	39.17	-79.01	-1,472.30	1,307.61	2,422.42	2,386.05	36.37	66.606	
6,000.00	5,989.81	5,046.80	4,447.10	20.35	40.19	-79.14	-1,504.67	1,344.39	2,483.62	2,446.60	37.02	67.090	
6,100.00	6,089.60	5,125.75	4,509.01	20.70	41.20	-79.27	-1,537.04	1,381.18	2,544.83	2,507.16	37.67	67.552	
6,200.00	6,189.40	5,204.70	4,570.92	21.06	42.22	-79.39	-1,569.41	1,417.96	2,606.05	2,567.72	38.33	67.994	
6,300.00	6,289.19	5,283.66	4,632.82	21.41	43.23	-79.51	-1,601.78	1,454.75	2,667.28	2,628.29	38.99	68.417	
6,400.00	6,388.99	5,362.61	4,694.73	21.77	44.25	-79.62	-1,634.16	1,491.54	2,728.51	2,688.86	39.65	68.821	
6,498.43	6,487.22	5,440.32	4,755.67	22.12	45.25	-79.72	-1,666.02	1,527.74	2,788.79	2,748.49	40.30	69.203	
6,500.00	6,488.79	5,441.56	4,756.64	22.12	45.26	-81.72	-1,666.53	1,528.32	2,789.75	2,749.44	40.31	69.210	
6,550.00	6,538.54	5,479.83	4,786.64	22.32	45.76	-112.51	-1,682.21	1,546.15	2,821.73	2,781.06	40.67	69.387	
6,600.00	6,587.76	5,515.61	4,814.70	22.59	46.22	-118.91	-1,696.89	1,562.82	2,856.10	2,815.03	41.07	69.540	
6,650.00	6,636.08	5,548.64	4,840.60	22.84	46.64	-119.39	-1,710.43	1,578.21	2,892.62	2,851.20	41.43	69.827	
6,700.00	6,683.13	5,578.67	4,864.15	23.07	47.03	-117.29	-1,722.74	1,592.20	2,931.03	2,889.27	41.76	70.181	
6,750.00	6,728.55	5,605.47	4,885.16	23.29	47.37	-113.54	-1,733.73	1,604.69	2,971.07	2,928.99	42.09	70.590	
6,800.00	6,771.99	5,628.84	4,903.48	23.51	47.67	-108.42	-1,743.31	1,615.57	3,012.47	2,970.06	42.40	71.042	
6,850.00	6,813.13	5,648.59	4,918.97	23.72	47.93	-102.09	-1,751.40	1,624.78	3,054.93	3,012.22	42.71	71.527	
6,900.00	6,851.64	5,664.57	4,931.50	23.94	48.13	-94.70	-1,757.96	1,632.22	3,098.17	3,055.16	43.01	72.035	
6,950.00	6,887.25	5,676.67	4,940.99	24.16	48.29	-86.53	-1,762.92	1,637.86	3,141.89	3,098.59	43.30	72.554	
7,000.00	6,919.67	5,684.80	4,947.36	24.38	48.39	-77.98	-1,766.25	1,641.65	3,185.80	3,142.20	43.60	73.073	
7,050.00	6,948.65	5,688.88	4,950.56	24.62	48.45	-69.52	-1,767.93	1,643.55	3,229.58	3,185.69	43.89	73.584	
7,100.00	6,973.99	5,688.90	4,950.58	24.88	48.45	-61.58	-1,767.93	1,643.56	3,272.93	3,228.75	44.18	74.077	
7,150.00	6,995.49	5,684.84	4,947.40	25.18	48.40	-54.43	-1,766.27	1,641.67	3,315.55	3,271.08	44.48	74.548	
7,200.00	7,012.97	5,676.74	4,941.05	25.51	48.29	-48.19	-1,762.95	1,637.89	3,357.13	3,312.36	44.77	74.991	
7,250.00	7,026.32	5,664.67	4,931.58	25.89	48.14	-42.86	-1,758.00	1,632.27	3,397.37	3,352.31	45.06	75.402	
7,300.00	7,035.43	5,648.71	4,919.07	26.33	47.93	-38.34	-1,751.46	1,624.83	3,435.97	3,390.63	45.34	75.781	
7,350.00	7,040.22	5,628.99	4,903.60	26.84	47.68	-34.53	-1,743.37	1,615.64	3,472.64	3,427.02	45.62	76.126	
7,377.14	7,041.00	5,616.76	4,894.01	27.14	47.52	-32.72	-1,738.35	1,609.95	3,491.64	3,445.92	45.72	76.363	
7,400.00	7,041.12	5,606.01	4,885.59	27.41	47.38	-32.54	-1,733.95	1,604.94	3,507.39	3,461.59	45.80	76.576	
7,500.00	7,041.64	5,559.02	4,848.74	28.77	46.77	-31.74	-1,714.68	1,583.04	3,576.78	3,530.62	46.16	77.489	
7,600.00	7,042.16	5,512.03	4,811.89	30.39	46.17	-30.95	-1,695.42	1,561.15	3,646.99	3,600.48	46.51	78.413	
7,700.00	7,042.67	5,465.03	4,775.04	32.22	45.57	-30.18	-1,676.15	1,539.25	3,717.97	3,671.13	46.85	79.364	
7,800.00	7,043.19	5,418.04	4,738.19	34.20	44.96	-29.42	-1,656.88	1,517.36	3,789.68	3,742.52	47.16	80.351	
7,900.00	7,043.71	5,371.04	4,701.35	36.31	44.36	-28.67	-1,637.61	1,495.47	3,862.08	3,814.62	47.46	81.378	
8,000.00	7,044.23	5,324.05	4,664.50	38.52	43.75	-27.94	-1,618.35	1,473.57	3,935.12	3,887.39	47.73	82.451	
8,100.00	7,044.75	5,277.06	4,627.65	40.80	43.15	-27.22	-1,599.08	1,451.68	4,008.77	3,960.80	47.97	83.573	
8,200.00	7,045.26	5,230.06	4,590.80	43.15	42.54	-26.51	-1,579.81	1,429.78	4,083.01	4,034.83	48.18	84.745	
8,300.00	7,045.78	5,183.07	4,553.95	45.54	41.94	-25.81	-1,560.54	1,407.89	4,157.79	4,109.42	48.36	85.969	
8,400.00	7,046.30	5,136.08	4,517.10	47.97	41.33	-25.13	-1,541.28	1,385.99	4,233.09	4,184.57	48.52	87.245	
8,500.00	7,046.82	5,089.08	4,480.26	50.44	40.73	-24.46	-1,522.01	1,364.10	4,308.89	4,260.24	48.65	88.575	
8,600.00	7,047.34	5,042.09	4,443.41	52.94	40.13	-23.80	-1,502.74	1,342.20	4,385.15	4,336.40	48.75	89.958	
8,700.00	7,047.86	4,995.10	4,406.56	55.46	39.52	-23.16	-1,483.48	1,320.31	4,461.85	4,413.03	48.82	91.395	
8,800.00	7,048.37	4,948.10	4,369.71	58.00	38.92	-22.52	-1,464.21	1,298.41	4,538.98	4,490.11	48.87	92.884	
8,900.00	7,048.89	4,901.11	4,332.86	60.56	38.32	-21.90	-1,444.94	1,276.52	4,616.50	4,567.61	48.89	94.429	
9,000.00	7,049.41	4,854.11	4,296.02	63.13	37.72	-21.29	-1,425.67	1,254.62	4,694.40	4,645.52	48.89	96.025	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	4,807.12	4,259.17	65.72	37.11	-20.69	-1,406.41	1,232.73	4,772.67	4,723.81	48.86	97.676	
9,200.00	7,050.45	4,760.13	4,222.32	68.32	36.51	-20.10	-1,387.14	1,210.83	4,851.28	4,802.46	48.82	99.378	
9,300.00	7,050.97	4,713.13	4,185.47	70.93	35.91	-19.53	-1,367.87	1,188.94	4,930.21	4,881.46	48.75	101.135	
9,400.00	7,051.48	4,666.14	4,148.62	73.55	35.31	-18.96	-1,348.61	1,167.04	5,009.46	4,960.79	48.66	102.942	
9,500.00	7,052.00	4,619.15	4,111.77	76.18	34.71	-18.40	-1,329.34	1,145.15	5,089.00	5,040.44	48.56	104.802	
9,600.00	7,052.52	4,572.15	4,074.93	78.81	34.10	-17.86	-1,310.07	1,123.25	5,168.83	5,120.39	48.44	106.713	
9,700.00	7,053.04	4,525.16	4,038.08	81.46	33.50	-17.32	-1,290.80	1,101.36	5,248.93	5,200.63	48.30	108.676	
9,800.00	7,053.56	4,478.17	4,001.23	84.10	32.90	-16.80	-1,271.54	1,079.46	5,329.28	5,281.14	48.15	110.690	
9,900.00	7,054.08	4,431.17	3,964.38	86.76	32.30	-16.28	-1,252.27	1,057.57	5,409.88	5,361.90	47.98	112.754	
10,000.00	7,054.59	4,384.18	3,927.53	89.42	31.70	-15.78	-1,233.00	1,035.67	5,490.72	5,442.92	47.80	114.869	
10,100.00	7,055.11	4,337.18	3,890.69	92.08	31.10	-15.28	-1,213.74	1,013.78	5,571.79	5,524.18	47.61	117.033	
10,200.00	7,055.63	4,290.19	3,853.84	94.75	30.50	-14.80	-1,194.47	991.88	5,653.06	5,605.66	47.41	119.247	
10,300.00	7,056.15	4,243.20	3,816.99	97.42	29.91	-14.32	-1,175.20	969.99	5,734.55	5,687.36	47.19	121.508	
10,400.00	7,056.67	4,196.20	3,780.14	100.10	29.31	-13.85	-1,155.93	948.09	5,816.24	5,769.26	46.97	123.819	
10,500.00	7,057.18	4,149.21	3,743.29	102.78	28.71	-13.39	-1,136.67	926.20	5,898.11	5,851.36	46.75	126.174	
10,600.00	7,057.70	4,102.22	3,706.44	105.46	28.11	-12.94	-1,117.40	904.30	5,980.17	5,933.66	46.51	128.580	
10,700.00	7,058.22	4,055.22	3,669.60	108.14	27.52	-12.49	-1,098.13	882.41	6,062.40	6,016.13	46.27	131.026	
10,800.00	7,058.74	4,008.23	3,632.75	110.83	26.92	-12.06	-1,078.87	860.51	6,144.79	6,098.77	46.02	133.521	
10,900.00	7,059.26	3,961.24	3,595.90	113.52	26.32	-11.63	-1,059.60	838.62	6,227.35	6,181.58	45.77	136.056	
11,000.00	7,059.78	3,914.24	3,559.05	116.21	25.73	-11.21	-1,040.33	816.72	6,310.07	6,264.55	45.52	138.636	
11,100.00	7,060.29	3,867.25	3,522.20	118.90	25.13	-10.80	-1,021.06	794.83	6,392.93	6,347.67	45.26	141.254	
11,200.00	7,060.81	3,820.25	3,485.36	121.60	24.54	-10.40	-1,001.80	772.93	6,475.93	6,430.94	45.00	143.915	
11,300.00	7,061.33	3,773.26	3,448.51	124.30	23.95	-10.00	-982.53	751.04	6,559.08	6,514.34	44.74	146.611	
11,400.00	7,061.85	3,726.27	3,411.66	127.00	23.36	-9.61	-963.26	729.14	6,642.35	6,597.88	44.48	149.345	
11,500.00	7,062.37	3,679.27	3,374.81	129.70	22.77	-9.23	-944.00	707.25	6,725.75	6,681.54	44.22	152.113	
11,600.00	7,062.89	3,632.28	3,337.96	132.40	22.18	-8.85	-924.73	685.35	6,809.28	6,765.32	43.96	154.912	
11,700.00	7,063.40	3,585.29	3,301.12	135.10	21.59	-8.48	-905.46	663.46	6,892.92	6,849.23	43.70	157.744	
11,800.00	7,063.92	3,538.29	3,264.27	137.81	21.00	-8.12	-886.19	641.56	6,976.68	6,933.24	43.44	160.599	
11,900.00	7,064.44	3,491.30	3,227.42	140.51	20.41	-7.77	-866.93	619.67	7,060.55	7,017.36	43.19	163.486	
12,000.00	7,064.96	3,444.31	3,190.57	143.22	19.83	-7.42	-847.66	597.77	7,144.52	7,101.58	42.94	166.387	
12,100.00	7,065.48	3,397.31	3,153.72	145.93	19.25	-7.07	-828.39	575.88	7,228.60	7,185.90	42.69	169.319	
12,200.00	7,066.00	3,350.32	3,116.87	148.64	18.66	-6.73	-809.12	553.98	7,312.77	7,270.32	42.45	172.252	
12,300.00	7,066.51	3,303.32	3,080.03	151.35	18.09	-6.40	-789.86	532.09	7,397.04	7,354.82	42.22	175.215	
12,400.00	7,067.03	3,256.33	3,043.18	154.06	17.50	-6.08	-770.59	510.19	7,481.40	7,439.41	41.99	178.168	
12,500.00	7,067.55	3,209.34	3,006.33	156.77	16.93	-5.76	-751.32	488.30	7,565.86	7,524.09	41.77	181.145	
12,600.00	7,068.07	3,162.34	2,969.48	159.49	16.35	-5.44	-732.06	466.40	7,650.39	7,608.84	41.55	184.105	
12,700.00	7,068.59	3,115.35	2,932.63	162.20	15.78	-5.13	-712.79	444.51	7,735.01	7,693.67	41.35	187.080	
12,800.00	7,069.11	3,068.36	2,895.79	164.92	15.18	-4.83	-693.52	422.61	7,819.72	7,778.56	41.15	190.011	
12,900.00	7,069.62	3,021.36	2,858.94	167.63	14.63	-4.53	-674.25	400.72	7,904.50	7,863.53	40.96	192.963	
13,000.00	7,070.14	2,974.37	2,822.09	170.35	14.24	-4.23	-654.99	378.82	7,989.35	7,948.58	40.78	195.931	
13,100.00	7,070.66	2,927.38	2,785.24	173.07	14.07	-3.94	-635.72	356.93	8,074.28	8,033.67	40.61	198.801	
13,200.00	7,071.18	2,907.08	2,769.32	175.78	14.04	-3.82	-627.41	347.49	8,159.34	8,118.69	40.65	200.726	
13,300.00	7,071.70	2,900.00	2,763.74	178.50	14.02	-3.78	-624.53	344.21	8,244.67	8,203.90	40.77	202.226	
13,400.00	7,072.21	2,900.00	2,763.74	181.22	14.02	-3.78	-624.53	344.21	8,330.31	8,289.37	40.93	203.502	
13,500.00	7,072.73	2,900.00	2,763.74	183.94	14.02	-3.78	-624.53	344.21	8,416.26	8,375.17	41.10	204.789	
13,600.00	7,073.25	2,853.87	2,727.16	186.66	13.78	-3.51	-605.96	323.11	8,502.09	8,461.20	40.89	207.914	
13,700.00	7,073.77	2,840.97	2,716.85	189.38	13.72	-3.43	-600.83	317.28	8,588.37	8,547.42	40.95	209.721	
13,800.00	7,074.29	2,800.00	2,683.88	192.10	13.53	-3.20	-584.77	299.03	8,675.05	8,634.25	40.80	212.631	
13,900.00	7,074.81	2,800.00	2,683.88	194.82	13.53	-3.20	-584.77	299.03	8,761.67	8,720.71	40.95	213.939	
14,000.00	7,075.32	2,800.00	2,683.88	197.54	13.53	-3.20	-584.77	299.03	8,848.57	8,807.46	41.11	215.256	
14,100.00	7,075.84	2,800.00	2,683.88	200.27	13.53	-3.20	-584.77	299.03	8,935.75	8,894.49	41.26	216.580	
14,200.00	7,076.36	2,800.00	2,683.88	202.99	13.53	-3.20	-584.77	299.03	9,023.19	8,981.78	41.41	217.911	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 5Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,300.00	7,076.88	2,800.00	2,683.88	205.71	13.53	-3.20	-584.77	299.03	9,110.89	9,069.34	41.56	219.249	
14,400.00	7,077.40	2,754.88	2,647.17	208.44	13.31	-2.95	-567.44	279.33	9,198.44	9,157.05	41.39	222.257	
14,500.00	7,077.92	2,743.15	2,637.56	211.16	13.25	-2.89	-563.00	274.29	9,286.39	9,244.94	41.45	224.029	
14,600.00	7,078.43	2,700.00	2,601.97	213.88	13.05	-2.66	-546.88	255.97	9,374.74	9,333.43	41.31	226.944	
14,700.00	7,078.95	2,700.00	2,601.97	216.61	13.05	-2.66	-546.88	255.97	9,462.95	9,421.50	41.45	228.291	
14,800.00	7,079.47	2,700.00	2,601.97	219.33	13.05	-2.66	-546.88	255.97	9,551.40	9,509.80	41.59	229.644	
14,900.00	7,079.99	2,700.00	2,601.97	222.06	13.05	-2.66	-546.88	255.97	9,640.06	9,598.33	41.73	231.000	
15,000.00	7,080.51	2,700.00	2,601.97	224.78	13.05	-2.66	-546.88	255.97	9,728.95	9,687.08	41.87	232.361	
15,100.00	7,081.03	2,700.00	2,601.97	227.51	13.05	-2.66	-546.88	255.97	9,818.06	9,776.05	42.01	233.725	
15,200.00	7,081.54	2,700.00	2,601.97	230.24	13.05	-2.66	-546.88	255.97	9,907.37	9,865.23	42.14	235.093	
15,300.00	7,082.06	2,654.19	2,563.78	232.96	12.82	-2.43	-530.16	236.97	9,996.47	9,954.47	42.00	238.007	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-105.26	-3.78	-13.85	14.36				
100.00	100.00	100.00	100.00	0.48	0.48	-105.26	-3.78	-13.85	14.36	13.39	0.97	14.875	
200.00	200.00	200.00	200.00	1.28	1.28	-105.26	-3.78	-13.85	14.36	11.79	2.56	5.598	
300.00	300.00	300.00	300.00	1.77	1.77	-105.26	-3.78	-13.85	14.36	10.82	3.54	4.059	
400.00	400.00	400.00	400.00	2.15	2.15	-105.26	-3.78	-13.85	14.36	10.06	4.30	3.338	
500.00	500.00	500.00	500.00	2.48	2.48	-105.26	-3.78	-13.85	14.36	9.40	4.95	2.898	
600.00	600.00	600.00	600.00	2.77	2.77	-105.26	-3.78	-13.85	14.36	8.82	5.53	2.594	
700.00	700.00	700.00	700.00	3.03	3.03	-105.26	-3.78	-13.85	14.36	8.29	6.06	2.367	CC
800.00	800.00	799.72	799.70	3.28	3.33	-110.97	-5.46	-14.26	15.27	8.74	6.53	2.338	
900.00	900.00	899.20	899.04	3.51	4.21	-124.18	-10.51	-15.47	18.73	11.35	7.38	2.538	
1,000.00	999.98	998.35	997.81	3.78	4.96	12.49	-18.87	-17.49	24.12	15.69	8.43	2.861	
1,083.35	1,083.22	1,081.10	1,080.00	4.28	5.15	4.62	-28.19	-19.74	28.75	19.52	9.22	3.117	
1,100.00	1,099.84	1,097.72	1,096.50	4.29	5.18	3.31	-30.15	-20.21	29.56	20.28	9.28	3.185	
1,200.00	1,199.64	1,197.52	1,195.56	4.47	5.41	-3.21	-41.88	-23.04	34.73	24.96	9.77	3.554	
1,300.00	1,299.43	1,297.32	1,294.63	4.70	5.67	-8.00	-53.62	-25.87	40.23	29.93	10.30	3.906	
1,400.00	1,399.23	1,397.12	1,393.70	4.95	5.96	-11.62	-65.35	-28.70	45.94	35.10	10.84	4.239	
1,500.00	1,499.02	1,496.92	1,492.77	5.20	6.25	-14.43	-77.09	-31.54	51.80	40.41	11.39	4.548	
1,600.00	1,598.82	1,596.72	1,591.83	5.47	6.56	-16.67	-88.83	-34.37	57.75	45.79	11.96	4.830	
1,700.00	1,698.61	1,696.52	1,690.90	5.75	6.89	-18.49	-100.56	-37.20	63.77	51.23	12.54	5.086	
1,800.00	1,798.41	1,796.32	1,789.97	6.04	7.22	-19.99	-112.30	-40.03	69.85	56.71	13.13	5.318	
1,900.00	1,898.20	1,896.12	1,889.03	6.34	7.56	-21.25	-124.03	-42.86	75.97	62.22	13.74	5.528	
2,000.00	1,998.00	1,995.92	1,988.10	6.64	7.91	-22.32	-135.77	-45.69	82.11	67.76	14.36	5.719	
2,100.00	2,097.79	2,095.72	2,087.17	6.94	8.26	-23.25	-147.51	-48.52	88.29	73.30	14.99	5.892	
2,200.00	2,197.59	2,195.52	2,186.23	7.26	8.62	-24.05	-159.24	-51.35	94.48	78.86	15.62	6.049	
2,300.00	2,297.38	2,295.32	2,285.30	7.57	8.99	-24.75	-170.98	-54.18	100.69	84.43	16.26	6.192	
2,400.00	2,397.18	2,395.12	2,384.37	7.89	9.36	-25.37	-182.72	-57.01	106.91	90.00	16.91	6.323	
2,500.00	2,496.97	2,494.92	2,483.44	8.22	9.73	-25.92	-194.45	-59.85	113.14	95.58	17.56	6.443	
2,600.00	2,596.77	2,594.72	2,582.50	8.54	10.11	-26.42	-206.19	-62.68	119.39	101.17	18.22	6.553	
2,700.00	2,696.57	2,694.52	2,681.57	8.87	10.49	-26.87	-217.92	-65.51	125.64	106.76	18.88	6.654	
2,800.00	2,796.36	2,794.32	2,780.64	9.21	10.87	-27.27	-229.66	-68.34	131.89	112.35	19.55	6.748	
2,900.00	2,896.16	2,894.12	2,879.70	9.54	11.26	-27.64	-241.40	-71.17	138.16	117.94	20.22	6.834	
3,000.00	2,995.95	2,993.92	2,978.77	9.87	11.65	-27.97	-253.13	-74.00	144.43	123.54	20.89	6.914	
3,100.00	3,095.75	3,093.72	3,077.84	10.21	12.04	-28.28	-264.87	-76.83	150.70	129.14	21.56	6.989	
3,200.00	3,195.54	3,193.52	3,176.90	10.55	12.43	-28.56	-276.60	-79.66	156.98	134.74	22.24	7.058	
3,300.00	3,295.34	3,293.32	3,275.97	10.89	12.82	-28.82	-288.34	-82.49	163.26	140.34	22.92	7.123	
3,400.00	3,395.13	3,393.12	3,375.04	11.23	13.22	-29.07	-300.08	-85.32	169.54	145.94	23.60	7.184	
3,500.00	3,494.93	3,492.92	3,474.11	11.58	13.61	-29.29	-311.81	-88.15	175.83	151.54	24.29	7.240	
3,600.00	3,594.72	3,592.72	3,573.17	11.92	14.01	-29.50	-323.55	-90.99	182.12	157.15	24.97	7.293	
3,700.00	3,694.52	3,692.52	3,672.24	12.26	14.41	-29.69	-335.28	-93.82	188.41	162.75	25.66	7.343	
3,800.00	3,794.31	3,792.32	3,771.31	12.61	14.81	-29.88	-347.02	-96.65	194.70	168.36	26.35	7.390	
3,900.00	3,894.11	3,892.11	3,870.37	12.96	15.21	-30.05	-358.76	-99.48	201.00	173.96	27.03	7.435	
4,000.00	3,993.90	3,991.91	3,969.44	13.30	15.61	-30.21	-370.49	-102.31	207.29	179.57	27.73	7.477	
4,100.00	4,093.70	4,091.71	4,068.51	13.65	16.02	-30.36	-382.23	-105.14	213.59	185.18	28.42	7.516	
4,200.00	4,193.49	4,191.51	4,167.57	14.00	16.42	-30.50	-393.96	-107.97	219.89	190.78	29.11	7.554	
4,300.00	4,293.29	4,291.31	4,266.64	14.35	16.83	-30.64	-405.70	-110.80	226.19	196.39	29.80	7.589	
4,400.00	4,393.08	4,391.11	4,365.71	14.70	17.23	-30.76	-417.44	-113.63	232.50	202.00	30.50	7.623	
4,500.00	4,492.88	4,490.91	4,464.78	15.05	17.64	-30.88	-429.17	-116.46	238.80	207.61	31.19	7.655	
4,600.00	4,592.68	4,590.71	4,563.84	15.40	18.04	-31.00	-440.91	-119.30	245.10	213.21	31.89	7.686	
4,700.00	4,692.47	4,690.51	4,662.91	15.75	18.45	-31.11	-452.64	-122.13	251.41	218.82	32.59	7.715	
4,800.00	4,792.27	4,790.31	4,761.98	16.10	18.86	-31.21	-464.38	-124.96	257.71	224.43	33.29	7.743	
4,900.00	4,892.06	4,890.11	4,861.04	16.45	19.27	-31.31	-476.12	-127.79	264.02	230.04	33.98	7.769	
5,000.00	4,991.86	4,989.91	4,960.11	16.81	19.67	-31.40	-487.85	-130.62	270.33	235.65	34.68	7.794	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,091.65	5,089.71	5,059.18	17.16	20.08	-31.49	-499.59	-133.45	276.64	241.26	35.38	7.819	
5,200.00	5,191.45	5,189.51	5,158.24	17.51	20.49	-31.58	-511.32	-136.28	282.95	246.86	36.08	7.842	
5,300.00	5,291.24	5,289.31	5,257.31	17.87	20.90	-31.66	-523.06	-139.11	289.26	252.47	36.78	7.864	
5,400.00	5,391.04	5,389.11	5,356.38	18.22	21.31	-31.74	-534.80	-141.94	295.57	258.08	37.48	7.885	
5,500.00	5,490.83	5,488.91	5,455.45	18.57	21.72	-31.81	-546.53	-144.77	301.88	263.69	38.18	7.906	
5,600.00	5,590.63	5,588.71	5,554.51	18.93	22.13	-31.88	-558.27	-147.61	308.19	269.30	38.89	7.925	
5,700.00	5,690.42	5,688.51	5,653.58	19.28	22.54	-31.95	-570.00	-150.44	314.50	274.91	39.59	7.944	
5,800.00	5,790.22	5,788.31	5,752.65	19.64	22.96	-32.02	-581.74	-153.27	320.81	280.52	40.29	7.962	
5,900.00	5,890.01	5,888.11	5,851.71	19.99	23.37	-32.08	-593.48	-156.10	327.12	286.13	40.99	7.980	
6,000.00	5,989.81	5,987.91	5,950.78	20.35	23.78	-32.14	-605.21	-158.93	333.44	291.74	41.70	7.997	
6,100.00	6,089.60	6,087.71	6,049.85	20.70	24.19	-32.20	-616.95	-161.76	339.75	297.35	42.40	8.013	
6,200.00	6,189.40	6,187.51	6,148.92	21.06	24.60	-32.26	-628.68	-164.59	346.06	302.96	43.11	8.028	
6,300.00	6,289.19	6,287.31	6,247.98	21.41	25.02	-32.31	-640.42	-167.42	352.38	308.57	43.81	8.043	
6,400.00	6,388.99	6,387.11	6,347.05	21.77	25.43	-32.37	-652.16	-170.25	358.69	314.18	44.51	8.058	
6,498.43	6,487.22	6,485.35	6,444.56	22.12	25.84	-32.42	-663.71	-173.04	364.91	319.70	45.21	8.072	
6,500.00	6,488.79	6,486.91	6,446.12	22.12	25.84	-34.48	-663.89	-173.08	365.01	319.79	45.22	8.072	
6,550.00	6,538.54	6,536.73	6,495.57	22.32	26.05	-68.01	-669.75	-174.50	368.27	322.77	45.50	8.094	
6,600.00	6,587.76	6,586.13	6,544.60	22.59	26.25	-78.25	-675.56	-175.90	371.79	326.14	45.66	8.143	
6,650.00	6,636.08	6,634.74	6,592.85	22.84	26.45	-83.70	-681.28	-177.28	375.78	330.21	45.57	8.246	
6,700.00	6,683.13	6,682.18	6,639.95	23.07	26.65	-87.72	-686.86	-178.62	380.57	335.27	45.29	8.402	
6,750.00	6,728.55	6,728.10	6,685.53	23.29	26.84	-91.19	-692.26	-179.93	386.58	341.76	44.82	8.625	
6,800.00	6,771.99	6,780.22	6,737.15	23.51	27.05	-94.69	-698.33	-183.48	393.88	349.59	44.30	8.892	
6,850.00	6,813.13	6,835.43	6,791.26	23.72	27.31	-97.86	-704.59	-192.36	402.03	358.17	43.86	9.167	
6,900.00	6,851.64	6,893.59	6,847.07	23.94	27.56	-100.76	-710.92	-207.34	410.82	367.35	43.47	9.451	
6,950.00	6,887.25	6,955.03	6,904.09	24.16	27.78	-103.43	-717.26	-229.26	420.02	376.87	43.16	9.732	
7,000.00	6,919.67	7,020.09	6,961.58	24.38	27.98	-105.89	-723.49	-259.02	429.37	386.38	42.99	9.987	
7,050.00	6,948.65	7,089.06	7,018.45	24.62	28.19	-108.14	-729.47	-297.50	438.55	395.54	43.01	10.197	
7,100.00	6,973.99	7,162.13	7,073.25	24.88	28.41	-110.15	-735.01	-345.44	447.24	404.00	43.24	10.343	
7,150.00	6,995.49	7,239.34	7,124.10	25.18	28.68	-111.89	-739.87	-403.26	455.08	411.37	43.72	10.410	
7,200.00	7,012.97	7,320.48	7,168.72	25.51	29.04	-113.33	-743.79	-470.83	461.74	417.26	44.47	10.382	
7,250.00	7,026.32	7,405.06	7,204.69	25.89	29.54	-114.42	-746.50	-547.25	466.88	421.34	45.54	10.253	
7,300.00	7,035.43	7,492.26	7,229.67	26.33	30.23	-115.11	-747.76	-630.69	470.24	423.30	46.94	10.017	
7,350.00	7,040.22	7,580.95	7,241.91	26.84	31.13	-115.38	-747.41	-718.44	471.64	422.95	48.70	9.685	
7,377.14	7,041.00	7,622.38	7,243.05	27.14	31.62	-115.37	-746.69	-759.84	471.61	422.00	49.61	9.506	
7,377.14	7,041.00	7,622.38	7,243.05	27.14	31.62	-115.37	-746.69	-759.84	471.61	422.00	49.61	9.506	
7,400.00	7,041.12	7,645.24	7,243.16	27.41	31.91	-115.37	-746.23	-782.70	471.61	421.45	50.17	9.401	
7,500.00	7,041.64	7,745.24	7,243.68	28.77	33.30	-115.37	-744.24	-882.68	471.61	418.84	52.77	8.937	
7,600.00	7,042.16	7,845.24	7,244.20	30.39	34.87	-115.37	-742.24	-982.66	471.61	415.91	55.71	8.466	
7,700.00	7,042.67	7,945.24	7,244.72	32.22	36.59	-115.37	-740.24	-1,082.64	471.61	412.70	58.92	8.005	
7,800.00	7,043.19	8,045.24	7,245.24	34.20	38.45	-115.37	-738.25	-1,182.62	471.61	409.25	62.36	7.562	
7,900.00	7,043.71	8,145.24	7,245.76	36.31	40.40	-115.37	-736.25	-1,282.60	471.61	405.61	66.00	7.145	
8,000.00	7,044.23	8,245.24	7,246.27	38.52	42.45	-115.37	-734.25	-1,382.57	471.61	401.80	69.81	6.756	
8,100.00	7,044.75	8,345.24	7,246.79	40.80	44.58	-115.37	-732.26	-1,482.55	471.62	397.85	73.76	6.394	
8,200.00	7,045.26	8,445.24	7,247.31	43.15	46.77	-115.37	-730.26	-1,582.53	471.62	393.78	77.83	6.060	
8,300.00	7,045.78	8,545.24	7,247.83	45.54	49.01	-115.37	-728.26	-1,682.51	471.62	389.61	82.00	5.751	
8,400.00	7,046.30	8,645.24	7,248.35	47.97	51.30	-115.37	-726.27	-1,782.49	471.62	385.36	86.26	5.467	
8,500.00	7,046.82	8,745.24	7,248.87	50.44	53.63	-115.37	-724.27	-1,882.47	471.62	381.02	90.59	5.206	
8,600.00	7,047.34	8,845.24	7,249.38	52.94	56.00	-115.37	-722.28	-1,982.45	471.62	376.62	94.99	4.965	
8,700.00	7,047.86	8,945.24	7,249.90	55.46	58.40	-115.37	-720.28	-2,082.43	471.62	372.17	99.45	4.742	
8,800.00	7,048.37	9,045.24	7,250.42	58.00	60.83	-115.37	-718.28	-2,182.40	471.62	367.66	103.95	4.537	
8,900.00	7,048.89	9,145.24	7,250.94	60.56	63.28	-115.37	-716.29	-2,282.38	471.62	363.12	108.50	4.347	
9,000.00	7,049.41	9,245.24	7,251.46	63.13	65.76	-115.37	-714.29	-2,382.36	471.62	358.53	113.08	4.171	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,100.00	7,049.93	9,345.24	7,251.97	65.72	68.25	-115.37	-712.29	-2,482.34	471.62	353.91	117.70	4.007	
9,200.00	7,050.45	9,445.24	7,252.49	68.32	70.76	-115.37	-710.30	-2,582.32	471.62	349.27	122.35	3.855	
9,300.00	7,050.97	9,545.24	7,253.01	70.93	73.29	-115.37	-708.30	-2,682.30	471.62	344.59	127.02	3.713	
9,400.00	7,051.48	9,645.24	7,253.53	73.55	75.83	-115.37	-706.30	-2,782.28	471.62	339.89	131.72	3.580	
9,500.00	7,052.00	9,745.24	7,254.05	76.18	78.39	-115.37	-704.31	-2,882.26	471.62	335.17	136.44	3.457	
9,600.00	7,052.52	9,845.24	7,254.57	78.81	80.95	-115.37	-702.31	-2,982.23	471.62	330.44	141.18	3.341	
9,700.00	7,053.04	9,945.24	7,255.08	81.46	83.53	-115.37	-700.31	-3,082.21	471.62	325.68	145.94	3.232	
9,800.00	7,053.56	10,045.24	7,255.60	84.10	86.12	-115.37	-698.32	-3,182.19	471.62	320.91	150.71	3.129	
9,900.00	7,054.08	10,145.24	7,256.12	86.76	88.71	-115.37	-696.32	-3,282.17	471.62	316.12	155.49	3.033	
10,000.00	7,054.59	10,245.24	7,256.64	89.42	91.31	-115.37	-694.32	-3,382.15	471.62	311.32	160.29	2.942	
10,100.00	7,055.11	10,345.24	7,257.16	92.08	93.93	-115.37	-692.33	-3,482.13	471.62	306.51	165.10	2.857	
10,200.00	7,055.63	10,445.24	7,257.68	94.75	96.54	-115.37	-690.33	-3,582.11	471.62	301.69	169.92	2.775	
10,300.00	7,056.15	10,545.24	7,258.19	97.42	99.17	-115.37	-688.33	-3,682.09	471.62	296.86	174.75	2.699	
10,400.00	7,056.67	10,645.24	7,258.71	100.10	101.80	-115.37	-686.34	-3,782.06	471.62	292.02	179.59	2.626	
10,500.00	7,057.18	10,745.24	7,259.23	102.78	104.43	-115.37	-684.34	-3,882.04	471.62	287.17	184.44	2.557	
10,600.00	7,057.70	10,845.24	7,259.75	105.46	107.07	-115.37	-682.34	-3,982.02	471.62	282.32	189.30	2.491	
10,700.00	7,058.22	10,945.24	7,260.27	108.14	109.72	-115.37	-680.35	-4,082.00	471.62	277.45	194.16	2.429	
10,800.00	7,058.74	11,045.24	7,260.79	110.83	112.37	-115.37	-678.35	-4,181.98	471.62	272.58	199.03	2.370	
10,900.00	7,059.26	11,145.24	7,261.30	113.52	115.02	-115.37	-676.35	-4,281.96	471.62	267.71	203.91	2.313	
11,000.00	7,059.78	11,245.24	7,261.82	116.21	117.68	-115.37	-674.36	-4,381.94	471.62	262.83	208.79	2.259	
11,100.00	7,060.29	11,345.24	7,262.34	118.90	120.34	-115.37	-672.36	-4,481.92	471.62	257.94	213.68	2.207	
11,200.00	7,060.81	11,445.24	7,262.86	121.60	123.00	-115.37	-670.36	-4,581.89	471.62	253.05	218.57	2.158	
11,300.00	7,061.33	11,545.24	7,263.38	124.30	125.67	-115.37	-668.37	-4,681.87	471.62	248.15	223.47	2.110	
11,400.00	7,061.85	11,645.24	7,263.89	127.00	128.34	-115.37	-666.37	-4,781.85	471.62	243.25	228.37	2.065	
11,500.00	7,062.37	11,745.24	7,264.41	129.70	131.01	-115.37	-664.37	-4,881.83	471.62	238.34	233.27	2.022	
11,600.00	7,062.89	11,845.24	7,264.93	132.40	133.68	-115.37	-662.38	-4,981.81	471.62	233.43	238.18	1.980 Collision Risk Procedures Req.	
11,700.00	7,063.40	11,945.24	7,265.45	135.10	136.36	-115.37	-660.38	-5,081.79	471.62	228.52	243.10	1.940 Collision Risk Procedures Req.	
11,800.00	7,063.92	12,045.24	7,265.97	137.81	139.04	-115.37	-658.38	-5,181.77	471.62	223.60	248.01	1.902 Collision Risk Procedures Req.	
11,900.00	7,064.44	12,145.24	7,266.49	140.51	141.72	-115.37	-656.39	-5,281.74	471.62	218.69	252.93	1.865 Collision Risk Procedures Req.	
12,000.00	7,064.96	12,245.24	7,267.00	143.22	144.41	-115.37	-654.39	-5,381.72	471.62	213.76	257.85	1.829 Collision Risk Procedures Req.	
12,100.00	7,065.48	12,345.24	7,267.52	145.93	147.09	-115.37	-652.39	-5,481.70	471.62	208.84	262.78	1.795 Collision Risk Procedures Req.	
12,200.00	7,066.00	12,445.24	7,268.04	148.64	149.78	-115.37	-650.40	-5,581.68	471.62	203.91	267.71	1.762 Collision Risk Procedures Req.	
12,300.00	7,066.51	12,545.24	7,268.56	151.35	152.47	-115.37	-648.40	-5,681.66	471.62	198.98	272.64	1.730 Collision Risk Procedures Req.	
12,400.00	7,067.03	12,645.24	7,269.08	154.06	155.16	-115.37	-646.41	-5,781.64	471.62	194.05	277.57	1.699 Collision Risk Procedures Req.	
12,500.00	7,067.55	12,745.24	7,269.60	156.77	157.86	-115.37	-644.41	-5,881.62	471.62	189.11	282.50	1.669 Collision Risk Procedures Req.	
12,600.00	7,068.07	12,845.24	7,270.11	159.49	160.55	-115.37	-642.41	-5,981.60	471.62	184.17	287.44	1.641 Collision Risk Procedures Req.	
12,700.00	7,068.59	12,945.24	7,270.63	162.20	163.25	-115.37	-640.42	-6,081.57	471.62	179.24	292.38	1.613 Collision Risk Procedures Req.	
12,800.00	7,069.11	13,045.24	7,271.15	164.92	165.94	-115.37	-638.42	-6,181.55	471.62	174.29	297.32	1.586 Collision Risk Procedures Req.	
12,900.00	7,069.62	13,145.24	7,271.67	167.63	168.64	-115.37	-636.42	-6,281.53	471.62	169.35	302.27	1.560 Collision Risk Procedures Req.	
13,000.00	7,070.14	13,245.24	7,272.19	170.35	171.34	-115.37	-634.43	-6,381.51	471.62	164.41	307.21	1.535 Collision Risk Procedures Req.	
13,100.00	7,070.66	13,345.24	7,272.71	173.07	174.04	-115.37	-632.43	-6,481.49	471.62	159.46	312.16	1.511 Collision Risk Procedures Req.	
13,200.00	7,071.18	13,445.24	7,273.22	175.78	176.74	-115.37	-630.43	-6,581.47	471.62	154.51	317.11	1.487 Collision Avoidance Req.	
13,300.00	7,071.70	13,545.24	7,273.74	178.50	179.45	-115.37	-628.44	-6,681.45	471.62	149.56	322.05	1.464 Collision Avoidance Req.	
13,400.00	7,072.21	13,645.24	7,274.26	181.22	182.15	-115.37	-626.44	-6,781.43	471.62	144.61	327.01	1.442 Collision Avoidance Req.	
13,500.00	7,072.73	13,745.24	7,274.78	183.94	184.85	-115.37	-624.44	-6,881.40	471.62	139.66	331.96	1.421 Collision Avoidance Req.	
13,600.00	7,073.25	13,845.24	7,275.30	186.66	187.56	-115.37	-622.45	-6,981.38	471.62	134.70	336.91	1.400 Collision Avoidance Req.	
13,700.00	7,073.77	13,945.24	7,275.81	189.38	190.27	-115.37	-620.45	-7,081.36	471.62	129.75	341.87	1.380 Collision Avoidance Req.	
13,800.00	7,074.29	14,045.24	7,276.33	192.10	192.98	-115.37	-618.45	-7,181.34	471.62	124.79	346.82	1.360 Collision Avoidance Req.	
13,900.00	7,074.81	14,145.24	7,276.85	194.82	195.68	-115.37	-616.46	-7,281.32	471.62	119.84	351.78	1.341 Collision Avoidance Req.	
14,000.00	7,075.32	14,245.24	7,277.37	197.54	198.39	-115.37	-614.46	-7,381.30	471.62	114.88	356.74	1.322 Collision Avoidance Req.	
14,100.00	7,075.84	14,345.24	7,277.89	200.27	201.10	-115.37	-612.46	-7,481.28	471.62	109.92	361.70	1.304 Collision Avoidance Req.	
14,200.00	7,076.36	14,445.24	7,278.41	202.99	203.81	-115.37	-610.47	-7,581.26	471.62	104.96	366.66	1.286 Collision Avoidance Req.	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program:		0-MWD						Rule Assigned:				Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
14,300.00	7,076.88	14,545.24	7,278.92	205.71	206.52	-115.37	-608.47	-7,681.23	471.62	99.99	371.62	1.269	Collision Avoidance Req.	
14,400.00	7,077.40	14,645.24	7,279.44	208.44	209.24	-115.37	-606.47	-7,781.21	471.62	95.03	376.58	1.252	Collision Avoidance Req.	
14,500.00	7,077.92	14,745.24	7,279.96	211.16	211.95	-115.37	-604.48	-7,881.19	471.62	90.07	381.55	1.236	Collision Avoidance Req.	
14,600.00	7,078.43	14,845.24	7,280.48	213.88	214.66	-115.37	-602.48	-7,981.17	471.62	85.10	386.51	1.220	Collision Avoidance Req.	
14,700.00	7,078.95	14,945.24	7,281.00	216.61	217.38	-115.37	-600.48	-8,081.15	471.62	80.14	391.48	1.205	Collision Avoidance Req.	
14,800.00	7,079.47	15,045.24	7,281.52	219.33	220.09	-115.37	-598.49	-8,181.13	471.62	75.17	396.44	1.190	Collision Avoidance Req.	
14,900.00	7,079.99	15,145.24	7,282.03	222.06	222.81	-115.37	-596.49	-8,281.11	471.62	70.21	401.41	1.175	Collision Avoidance Req.	
15,000.00	7,080.51	15,245.24	7,282.55	224.78	225.52	-115.37	-594.49	-8,381.09	471.62	65.24	406.38	1.161	Collision Avoidance Req.	
15,100.00	7,081.03	15,345.24	7,283.07	227.51	228.24	-115.37	-592.50	-8,481.06	471.62	60.27	411.35	1.147	Collision Avoidance Req.	
15,200.00	7,081.54	15,445.24	7,283.59	230.24	230.95	-115.37	-590.50	-8,581.04	471.62	55.30	416.32	1.133	Collision Avoidance Req.	
15,300.00	7,082.06	15,545.24	7,284.11	232.96	233.67	-115.37	-588.50	-8,681.02	471.62	50.33	421.29	1.119	Collision Avoidance Req.	
15,400.00	7,082.58	15,645.24	7,284.63	235.69	236.39	-115.37	-586.51	-8,781.00	471.62	45.36	426.26	1.106	Collision Avoidance Req.	
15,500.00	7,083.10	15,745.24	7,285.14	238.41	239.11	-115.37	-584.51	-8,880.98	471.62	40.39	431.23	1.094	Collision Avoidance Req.	
15,600.00	7,083.62	15,845.24	7,285.66	241.14	241.83	-115.37	-582.51	-8,980.96	471.62	35.42	436.20	1.081	Collision Avoidance Req.	
15,700.00	7,084.13	15,945.24	7,286.18	243.87	244.54	-115.37	-580.52	-9,080.94	471.62	30.45	441.17	1.069	Collision Avoidance Req.	
15,800.00	7,084.65	16,045.24	7,286.70	246.60	247.26	-115.37	-578.52	-9,180.92	471.62	25.47	446.14	1.057	Collision Avoidance Req.	
15,900.00	7,085.17	16,145.24	7,287.22	249.32	249.98	-115.37	-576.52	-9,280.89	471.62	20.50	451.12	1.045	Collision Avoidance Req.	
16,000.00	7,085.69	16,245.24	7,287.73	252.05	252.70	-115.37	-574.53	-9,380.87	471.62	15.53	456.09	1.034	Collision Avoidance Req.	
16,100.00	7,086.21	16,345.24	7,288.25	254.78	255.42	-115.37	-572.53	-9,480.85	471.62	10.55	461.07	1.023	Collision Avoidance Req.	
16,200.00	7,086.73	16,445.24	7,288.77	257.51	258.14	-115.37	-570.53	-9,580.83	471.62	5.58	466.04	1.012	Collision Avoidance Req.	
16,300.00	7,087.24	16,545.24	7,289.29	260.24	260.87	-115.37	-568.54	-9,680.81	471.62	0.60	471.02	1.001	Collision Avoidance Req.	
16,400.00	7,087.76	16,645.24	7,289.81	262.97	263.59	-115.37	-566.54	-9,780.79	471.62	-4.37	475.99	0.991	No-Go Zone - Stop Drilling	
16,500.00	7,088.28	16,745.24	7,290.33	265.69	266.31	-115.37	-564.55	-9,880.77	471.62	-9.35	480.97	0.981	No-Go Zone - Stop Drilling	
16,600.00	7,088.80	16,845.24	7,290.84	268.42	269.03	-115.37	-562.55	-9,980.74	471.62	-14.33	485.94	0.971	No-Go Zone - Stop Drilling	
16,700.00	7,089.32	16,945.24	7,291.36	271.15	271.75	-115.37	-560.55	-10,080.72	471.62	-19.30	490.92	0.961	No-Go Zone - Stop Drilling	
16,800.00	7,089.84	17,045.24	7,291.88	273.88	274.48	-115.37	-558.56	-10,180.70	471.62	-24.28	495.90	0.951	No-Go Zone - Stop Drilling	
16,900.00	7,090.35	17,145.24	7,292.40	276.61	277.20	-115.37	-556.56	-10,280.68	471.62	-29.26	500.88	0.942	No-Go Zone - Stop Drilling	
17,000.00	7,090.87	17,245.24	7,292.92	279.34	279.92	-115.37	-554.56	-10,380.66	471.62	-34.24	505.85	0.932	No-Go Zone - Stop Drilling	
17,000.78	7,090.88	17,246.02	7,292.92	279.36	279.94	-115.37	-554.55	-10,381.44	471.62	-34.28	505.89	0.932	No-Go Zone - Stop Drilling	
17,024.65	7,091.00	17,261.24	7,293.00	280.01	280.36	-115.37	-554.24	-10,396.66	471.70	-35.31	507.00	0.930	No-Go Zone - Stop Drilling, ES, SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-72.40	17.68	-55.72	58.46				
100.00	100.00	100.00	100.00	0.48	0.48	-72.40	17.68	-55.72	58.46	57.49	0.97	60.567	
200.00	200.00	200.00	200.00	1.28	1.28	-72.40	17.68	-55.72	58.46	55.89	2.56	22.794	
300.00	300.00	300.00	300.00	1.77	1.77	-72.40	17.68	-55.72	58.46	54.92	3.54	16.527	
400.00	400.00	400.00	400.00	2.15	2.15	-72.40	17.68	-55.72	58.46	54.16	4.30	13.592	
500.00	500.00	500.00	500.00	2.48	2.48	-72.40	17.68	-55.72	58.46	53.50	4.95	11.801	
600.00	600.00	600.00	600.00	2.77	2.77	-72.40	17.68	-55.72	58.46	52.92	5.53	10.562	
700.00	700.00	700.00	700.00	3.03	3.03	-72.40	17.68	-55.72	58.46	52.39	6.06	9.639	
800.00	800.00	800.00	800.00	3.28	3.28	-72.40	17.68	-55.72	58.46	51.90	6.56	8.917	
900.00	900.00	900.13	900.11	3.51	3.56	-74.11	15.97	-56.11	58.34	51.39	6.95	8.395	
1,000.00	999.98	1,000.11	999.95	3.78	4.39	71.22	10.86	-57.27	57.71	50.38	7.32	7.879	
1,083.35	1,083.22	1,083.33	1,082.87	4.28	4.89	68.08	4.02	-58.83	56.53	48.88	7.65	7.392	
1,100.00	1,099.84	1,099.96	1,099.42	4.29	4.93	67.39	2.40	-59.20	56.24	48.57	7.67	7.334	
1,200.00	1,199.64	1,199.86	1,198.81	4.47	5.12	63.09	-7.36	-61.42	54.68	46.64	8.04	6.799	
1,300.00	1,299.43	1,299.76	1,298.21	4.70	5.36	58.56	-17.13	-63.65	53.46	44.95	8.51	6.281	
1,400.00	1,399.23	1,399.66	1,397.61	4.95	5.62	53.85	-26.90	-65.87	52.58	43.56	9.02	5.829	
1,500.00	1,499.02	1,499.57	1,497.01	5.20	5.89	49.02	-36.66	-68.09	52.07	42.49	9.57	5.439	
1,585.45	1,584.29	1,584.93	1,581.94	5.43	6.14	44.84	-45.01	-69.99	51.93	41.84	10.09	5.148 CC	
1,600.00	1,598.82	1,599.47	1,596.40	5.47	6.18	44.13	-46.43	-70.32	51.93	41.76	10.18	5.103	
1,700.00	1,698.61	1,699.37	1,695.80	5.75	6.48	39.24	-56.20	-72.54	52.18	41.35	10.83	4.817	
1,800.00	1,798.41	1,799.27	1,795.20	6.04	6.79	34.44	-65.96	-74.76	52.80	41.27	11.53	4.579	
1,900.00	1,898.20	1,899.17	1,894.60	6.34	7.11	29.78	-75.73	-76.99	53.78	41.51	12.27	4.384	
2,000.00	1,998.00	1,999.07	1,994.00	6.64	7.44	25.32	-85.50	-79.21	55.10	42.07	13.03	4.229	
2,100.00	2,097.79	2,098.97	2,093.39	6.94	7.78	21.09	-95.26	-81.43	56.75	42.93	13.81	4.109	
2,200.00	2,197.59	2,198.87	2,192.79	7.26	8.12	17.11	-105.03	-83.66	58.68	44.08	14.60	4.019	
2,300.00	2,297.38	2,298.77	2,292.19	7.57	8.46	13.41	-114.80	-85.88	60.88	45.48	15.39	3.954	
2,400.00	2,397.18	2,398.68	2,391.59	7.89	8.81	9.98	-124.56	-88.10	63.31	47.13	16.18	3.912	
2,500.00	2,496.97	2,498.58	2,490.98	8.22	9.17	6.81	-134.33	-90.33	65.95	48.99	16.97	3.887	
2,600.00	2,596.77	2,598.48	2,590.38	8.54	9.52	3.89	-144.10	-92.55	68.78	51.04	17.74	3.877	
2,700.00	2,696.57	2,698.38	2,689.78	8.87	9.89	1.21	-153.86	-94.77	71.78	53.27	18.50	3.879	
2,800.00	2,796.36	2,798.28	2,789.18	9.21	10.25	-1.25	-163.63	-96.99	74.92	55.66	19.26	3.890	
2,900.00	2,896.16	2,898.18	2,888.57	9.54	10.62	-3.51	-173.40	-99.22	78.18	58.18	20.00	3.909	
3,000.00	2,995.95	2,998.08	2,987.97	9.87	10.99	-5.58	-183.16	-101.44	81.56	60.83	20.73	3.934	
3,100.00	3,095.75	3,097.98	3,087.37	10.21	11.36	-7.49	-192.93	-103.66	85.03	63.58	21.46	3.963	
3,200.00	3,195.54	3,197.88	3,186.77	10.55	11.73	-9.25	-202.70	-105.89	88.60	66.42	22.17	3.996	
3,300.00	3,295.34	3,297.79	3,286.17	10.89	12.11	-10.87	-212.46	-108.11	92.23	69.35	22.88	4.031	
3,400.00	3,395.13	3,397.69	3,385.56	11.23	12.48	-12.36	-222.23	-110.33	95.94	72.36	23.58	4.068	
3,500.00	3,494.93	3,497.59	3,484.96	11.58	12.86	-13.75	-232.00	-112.56	99.71	75.43	24.28	4.107	
3,600.00	3,594.72	3,597.49	3,584.36	11.92	13.24	-15.03	-241.76	-114.78	103.53	78.56	24.97	4.146	
3,700.00	3,694.52	3,697.39	3,683.76	12.26	13.62	-16.22	-251.53	-117.00	107.40	81.74	25.65	4.186	
3,800.00	3,794.31	3,797.29	3,783.15	12.61	14.00	-17.33	-261.30	-119.23	111.31	84.98	26.34	4.227	
3,900.00	3,894.11	3,897.19	3,882.55	12.96	14.39	-18.36	-271.06	-121.45	115.26	88.25	27.01	4.267	
4,000.00	3,993.90	3,997.09	3,981.95	13.30	14.77	-19.32	-280.83	-123.67	119.25	91.56	27.69	4.307	
4,100.00	4,093.70	4,096.99	4,081.35	13.65	15.16	-20.22	-290.60	-125.90	123.27	94.91	28.36	4.347	
4,200.00	4,193.49	4,196.90	4,180.74	14.00	15.54	-21.07	-300.36	-128.12	127.31	98.28	29.03	4.386	
4,300.00	4,293.29	4,296.80	4,280.14	14.35	15.93	-21.86	-310.13	-130.34	131.38	101.69	29.69	4.424	
4,400.00	4,393.08	4,396.70	4,379.54	14.70	16.31	-22.60	-319.90	-132.57	135.48	105.12	30.36	4.463	
4,500.00	4,492.88	4,496.60	4,478.94	15.05	16.70	-23.30	-329.66	-134.79	139.60	108.57	31.02	4.500	
4,600.00	4,592.68	4,596.50	4,578.34	15.40	17.09	-23.96	-339.43	-137.01	143.73	112.05	31.68	4.537	
4,700.00	4,692.47	4,696.40	4,677.73	15.75	17.48	-24.58	-349.20	-139.24	147.89	115.54	32.34	4.573	
4,800.00	4,792.27	4,796.30	4,777.13	16.10	17.87	-25.17	-358.96	-141.46	152.06	119.06	33.00	4.608	
4,900.00	4,892.06	4,896.20	4,876.53	16.45	18.26	-25.73	-368.73	-143.68	156.24	122.59	33.66	4.642	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,996.10	4,975.93	16.81	18.65	-26.26	-378.50	-145.91	160.44	126.13	34.31	4.676	
5,100.00	5,091.85	5,096.01	5,075.32	17.16	19.04	-26.76	-388.26	-148.13	164.66	129.69	34.97	4.709	
5,200.00	5,191.45	5,195.91	5,174.72	17.51	19.43	-27.24	-398.03	-150.35	168.88	133.26	35.62	4.741	
5,300.00	5,291.24	5,295.81	5,274.12	17.87	19.82	-27.69	-407.80	-152.58	173.12	136.84	36.27	4.773	
5,400.00	5,391.04	5,395.71	5,373.52	18.22	20.22	-28.12	-417.56	-154.80	177.36	140.44	36.93	4.803	
5,500.00	5,490.83	5,495.61	5,472.91	18.57	20.61	-28.53	-427.33	-157.02	181.62	144.04	37.58	4.833	
5,600.00	5,590.63	5,595.51	5,572.31	18.93	21.00	-28.92	-437.10	-159.25	185.88	147.65	38.23	4.862	
5,700.00	5,690.42	5,695.41	5,671.71	19.28	21.39	-29.30	-446.86	-161.47	190.16	151.28	38.88	4.891	
5,800.00	5,790.22	5,795.31	5,771.11	19.64	21.79	-29.66	-456.63	-163.69	194.44	154.91	39.53	4.919	
5,900.00	5,890.01	5,895.21	5,870.51	19.99	22.18	-30.00	-466.40	-165.92	198.72	158.55	40.18	4.946	
6,000.00	5,989.81	5,995.12	5,969.90	20.35	22.57	-30.33	-476.16	-168.14	203.02	162.19	40.83	4.973	
6,100.00	6,089.60	6,095.02	6,069.30	20.70	22.97	-30.64	-485.93	-170.36	207.32	165.84	41.48	4.999	
6,200.00	6,189.40	6,194.92	6,168.70	21.06	23.36	-30.94	-495.70	-172.59	211.63	169.50	42.12	5.024	
6,300.00	6,289.19	6,294.82	6,268.10	21.41	23.76	-31.23	-505.46	-174.81	215.94	173.17	42.77	5.049	
6,400.00	6,388.99	6,394.72	6,367.49	21.77	24.15	-31.51	-515.23	-177.03	220.26	176.84	43.42	5.073	
6,498.43	6,487.22	6,493.06	6,465.33	22.12	24.54	-31.77	-524.84	-179.22	224.51	180.46	44.06	5.096	
6,500.00	6,488.79	6,494.62	6,466.89	22.12	24.55	-33.85	-525.00	-179.26	224.58	180.52	44.07	5.097	
6,550.00	6,538.54	6,544.48	6,516.49	22.32	24.75	-67.80	-529.87	-180.37	226.83	182.56	44.28	5.123	
6,600.00	6,587.76	6,593.89	6,565.66	22.59	24.94	-78.87	-534.70	-181.47	229.39	185.12	44.27	5.182	
6,650.00	6,636.08	6,644.31	6,615.78	22.84	25.14	-85.32	-539.60	-183.76	232.49	188.51	43.98	5.286	
6,700.00	6,683.13	6,696.19	6,666.96	23.07	25.38	-89.86	-544.51	-190.56	235.97	192.29	43.69	5.402	
6,750.00	6,728.55	6,749.14	6,718.35	23.29	25.60	-93.44	-549.34	-202.26	239.77	196.41	43.36	5.530	
6,800.00	6,771.99	6,803.19	6,769.48	23.51	25.79	-96.44	-554.04	-219.07	243.80	200.77	43.02	5.667	
6,850.00	6,813.13	6,858.37	6,819.84	23.72	25.96	-99.02	-558.55	-241.14	247.97	205.22	42.75	5.801	
6,900.00	6,851.64	6,914.70	6,868.82	23.94	26.11	-101.27	-562.81	-268.57	252.19	209.61	42.57	5.923	
6,950.00	6,887.25	6,972.16	6,915.79	24.16	26.27	-103.25	-566.77	-301.39	256.35	213.81	42.54	6.026	
7,000.00	6,919.67	7,030.73	6,960.07	24.38	26.45	-104.96	-570.34	-339.52	260.35	217.69	42.66	6.103	
7,050.00	6,948.65	7,090.36	7,000.94	24.62	26.65	-106.44	-573.47	-382.79	264.09	221.13	42.97	6.147	
7,100.00	6,973.99	7,150.97	7,037.68	24.88	26.89	-107.69	-576.10	-430.90	267.47	224.01	43.46	6.154	
7,150.00	6,995.49	7,212.47	7,069.58	25.18	27.20	-108.71	-578.15	-483.40	270.40	226.21	44.19	6.119	
7,200.00	7,012.97	7,274.72	7,095.99	25.51	27.59	-109.51	-579.58	-539.72	272.80	227.68	45.12	6.046	
7,250.00	7,026.32	7,337.56	7,116.33	25.89	28.07	-110.08	-580.35	-599.14	274.61	228.33	46.28	5.934	
7,300.00	7,035.43	7,400.82	7,130.15	26.33	28.65	-110.44	-580.43	-660.83	275.77	228.12	47.64	5.789	
7,350.00	7,040.22	7,464.30	7,137.13	26.84	29.35	-110.58	-579.80	-723.90	276.25	227.04	49.21	5.614	
7,377.14	7,041.00	7,497.57	7,138.02	27.14	29.75	-110.56	-579.20	-757.14	276.23	226.15	50.08	5.516	
7,400.00	7,041.12	7,520.43	7,138.14	27.41	30.06	-110.56	-578.73	-780.00	276.22	225.54	50.68	5.450	
7,500.00	7,041.64	7,620.43	7,138.66	28.77	31.47	-110.57	-576.70	-879.98	276.19	222.71	53.47	5.165	
7,600.00	7,042.16	7,720.43	7,139.18	30.39	33.08	-110.57	-574.67	-979.96	276.15	219.55	56.60	4.879	
7,700.00	7,042.67	7,820.43	7,139.70	32.22	34.84	-110.57	-572.63	-1,079.93	276.12	216.10	60.02	4.601	
7,800.00	7,043.19	7,920.43	7,140.21	34.20	36.74	-110.58	-570.60	-1,179.91	276.08	212.42	63.66	4.337	
7,900.00	7,043.71	8,020.43	7,140.73	36.31	38.74	-110.58	-568.56	-1,279.89	276.05	208.54	67.50	4.089	
8,000.00	7,044.23	8,120.43	7,141.25	38.52	40.83	-110.58	-566.53	-1,379.87	276.01	204.50	71.51	3.860	
8,100.00	7,044.75	8,220.43	7,141.77	40.80	43.00	-110.58	-564.49	-1,479.84	275.97	200.32	75.66	3.648	
8,200.00	7,045.26	8,320.43	7,142.29	43.15	45.23	-110.59	-562.46	-1,579.82	275.94	196.02	79.92	3.453	
8,300.00	7,045.78	8,420.43	7,142.81	45.54	47.51	-110.59	-560.42	-1,679.80	275.90	191.62	84.28	3.274	
8,400.00	7,046.30	8,520.43	7,143.32	47.97	49.84	-110.59	-558.39	-1,779.78	275.87	187.14	88.73	3.109	
8,500.00	7,046.82	8,620.43	7,143.84	50.44	52.21	-110.59	-556.36	-1,879.76	275.83	182.59	93.25	2.958	
8,600.00	7,047.34	8,720.43	7,144.36	52.94	54.61	-110.60	-554.32	-1,979.73	275.80	177.97	97.83	2.819	
8,700.00	7,047.86	8,820.43	7,144.88	55.46	57.04	-110.60	-552.29	-2,079.71	275.76	173.30	102.47	2.691	
8,800.00	7,048.37	8,920.43	7,145.40	58.00	59.50	-110.60	-550.25	-2,179.69	275.73	168.58	107.15	2.573	
8,900.00	7,048.89	9,020.43	7,145.92	60.56	61.98	-110.61	-548.22	-2,279.67	275.69	163.81	111.88	2.464	
9,000.00	7,049.41	9,120.43	7,146.43	63.13	64.48	-110.61	-546.18	-2,379.65	275.66	159.02	116.64	2.363	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,220.43	7,146.95	65.72	67.00	-110.61	-544.15	-2,479.62	275.62	154.19	121.43	2.270	
9,200.00	7,050.45	9,320.43	7,147.47	68.32	69.54	-110.61	-542.12	-2,579.60	275.59	149.33	126.26	2.183	
9,300.00	7,050.97	9,420.43	7,147.99	70.93	72.09	-110.62	-540.08	-2,679.58	275.55	144.45	131.10	2.102	
9,400.00	7,051.48	9,520.43	7,148.51	73.55	74.65	-110.62	-538.05	-2,779.56	275.52	139.54	135.97	2.026	
9,500.00	7,052.00	9,620.43	7,149.03	76.18	77.23	-110.62	-536.01	-2,879.54	275.48	134.62	140.86	1.956 Collision Risk Procedures Req.	
9,600.00	7,052.52	9,720.43	7,149.54	78.81	79.81	-110.62	-533.98	-2,979.51	275.44	129.67	145.77	1.890 Collision Risk Procedures Req.	
9,700.00	7,053.04	9,820.43	7,150.06	81.46	82.41	-110.63	-531.94	-3,079.49	275.41	124.71	150.70	1.828 Collision Risk Procedures Req.	
9,800.00	7,053.56	9,920.43	7,150.58	84.10	85.01	-110.63	-529.91	-3,179.47	275.37	119.74	155.64	1.769 Collision Risk Procedures Req.	
9,900.00	7,054.08	10,020.43	7,151.10	86.76	87.62	-110.63	-527.88	-3,279.45	275.34	114.75	160.59	1.715 Collision Risk Procedures Req.	
10,000.00	7,054.59	10,120.43	7,151.62	89.42	90.24	-110.64	-525.84	-3,379.43	275.30	109.75	165.55	1.663 Collision Risk Procedures Req.	
10,100.00	7,055.11	10,220.43	7,152.13	92.08	92.87	-110.64	-523.81	-3,479.40	275.27	104.74	170.53	1.614 Collision Risk Procedures Req.	
10,200.00	7,055.63	10,320.43	7,152.65	94.75	95.50	-110.64	-521.77	-3,579.38	275.23	99.72	175.52	1.568 Collision Risk Procedures Req.	
10,300.00	7,056.15	10,420.43	7,153.17	97.42	98.14	-110.64	-519.74	-3,679.36	275.20	94.69	180.51	1.525 Collision Risk Procedures Req.	
10,400.00	7,056.67	10,520.43	7,153.69	100.10	100.78	-110.65	-517.70	-3,779.34	275.16	89.65	185.52	1.483 Collision Avoidance Req.	
10,500.00	7,057.18	10,620.43	7,154.21	102.78	103.43	-110.65	-515.67	-3,879.32	275.13	84.60	190.53	1.444 Collision Avoidance Req.	
10,600.00	7,057.70	10,720.43	7,154.73	105.46	106.08	-110.65	-513.63	-3,979.29	275.09	79.55	195.55	1.407 Collision Avoidance Req.	
10,700.00	7,058.22	10,820.43	7,155.24	108.14	108.74	-110.66	-511.60	-4,079.27	275.06	74.48	200.57	1.371 Collision Avoidance Req.	
10,800.00	7,058.74	10,920.43	7,155.76	110.83	111.40	-110.66	-509.57	-4,179.25	275.02	69.42	205.60	1.338 Collision Avoidance Req.	
10,900.00	7,059.26	11,020.43	7,156.28	113.52	114.06	-110.66	-507.53	-4,279.23	274.99	64.35	210.64	1.305 Collision Avoidance Req.	
11,000.00	7,059.78	11,120.43	7,156.80	116.21	116.73	-110.66	-505.50	-4,379.21	274.95	59.27	215.68	1.275 Collision Avoidance Req.	
11,100.00	7,060.29	11,220.43	7,157.32	118.90	119.40	-110.67	-503.46	-4,479.18	274.92	54.18	220.73	1.245 Collision Avoidance Req.	
11,200.00	7,060.81	11,320.43	7,157.84	121.60	122.08	-110.67	-501.43	-4,579.16	274.88	49.10	225.78	1.217 Collision Avoidance Req.	
11,300.00	7,061.33	11,420.43	7,158.35	124.30	124.75	-110.67	-499.39	-4,679.14	274.84	44.00	230.84	1.191 Collision Avoidance Req.	
11,400.00	7,061.85	11,520.43	7,158.87	127.00	127.43	-110.67	-497.36	-4,779.12	274.81	38.91	235.90	1.165 Collision Avoidance Req.	
11,500.00	7,062.37	11,620.43	7,159.39	129.70	130.11	-110.68	-495.33	-4,879.10	274.77	33.81	240.97	1.140 Collision Avoidance Req.	
11,600.00	7,062.89	11,720.43	7,159.91	132.40	132.80	-110.68	-493.29	-4,979.07	274.74	28.71	246.03	1.117 Collision Avoidance Req.	
11,700.00	7,063.40	11,820.43	7,160.43	135.10	135.48	-110.68	-491.26	-5,079.05	274.70	23.60	251.10	1.094 Collision Avoidance Req.	
11,800.00	7,063.92	11,920.43	7,160.95	137.81	138.17	-110.69	-489.22	-5,179.03	274.67	18.49	256.18	1.072 Collision Avoidance Req.	
11,900.00	7,064.44	12,020.43	7,161.46	140.51	140.86	-110.69	-487.19	-5,279.01	274.63	13.38	261.25	1.051 Collision Avoidance Req.	
12,000.00	7,064.96	12,120.43	7,161.98	143.22	143.55	-110.69	-485.15	-5,378.99	274.60	8.26	266.33	1.031 Collision Avoidance Req.	
12,100.00	7,065.48	12,220.43	7,162.50	145.93	146.24	-110.69	-483.12	-5,478.96	274.56	3.15	271.42	1.012 Collision Avoidance Req.	
12,200.00	7,066.00	12,320.43	7,163.02	148.64	148.94	-110.70	-481.09	-5,578.94	274.53	-1.97	276.50	0.993 No-Go Zone - Stop Drilling	
12,300.00	7,066.51	12,420.43	7,163.54	151.35	151.63	-110.70	-479.05	-5,678.92	274.49	-7.10	281.59	0.975 No-Go Zone - Stop Drilling	
12,400.00	7,067.03	12,520.43	7,164.05	154.06	154.33	-110.70	-477.02	-5,778.90	274.46	-12.22	286.68	0.957 No-Go Zone - Stop Drilling	
12,500.00	7,067.55	12,620.43	7,164.57	156.77	157.03	-110.71	-474.98	-5,878.88	274.42	-17.35	291.77	0.941 No-Go Zone - Stop Drilling	
12,600.00	7,068.07	12,720.43	7,165.09	159.49	159.73	-110.71	-472.95	-5,978.85	274.39	-22.47	296.86	0.924 No-Go Zone - Stop Drilling	
12,700.00	7,068.59	12,820.43	7,165.61	162.20	162.43	-110.71	-470.91	-6,078.83	274.35	-27.60	301.95	0.909 No-Go Zone - Stop Drilling	
12,800.00	7,069.11	12,920.43	7,166.13	164.92	165.13	-110.71	-468.88	-6,178.81	274.32	-32.74	307.05	0.893 No-Go Zone - Stop Drilling	
12,900.00	7,069.62	13,020.43	7,166.65	167.63	167.84	-110.72	-466.85	-6,278.79	274.28	-37.87	312.15	0.879 No-Go Zone - Stop Drilling	
13,000.00	7,070.14	13,120.43	7,167.16	170.35	170.54	-110.72	-464.81	-6,378.76	274.24	-43.00	317.25	0.864 No-Go Zone - Stop Drilling	
13,100.00	7,070.66	13,220.43	7,167.68	173.07	173.25	-110.72	-462.78	-6,478.74	274.21	-48.14	322.35	0.851 No-Go Zone - Stop Drilling	
13,200.00	7,071.18	13,320.43	7,168.20	175.78	175.95	-110.72	-460.74	-6,578.72	274.17	-53.28	327.45	0.837 No-Go Zone - Stop Drilling	
13,300.00	7,071.70	13,420.43	7,168.72	178.50	178.66	-110.73	-458.71	-6,678.70	274.14	-58.42	332.55	0.824 No-Go Zone - Stop Drilling	
13,400.00	7,072.21	13,520.43	7,169.24	181.22	181.37	-110.73	-456.67	-6,778.68	274.10	-63.56	337.66	0.812 No-Go Zone - Stop Drilling	
13,500.00	7,072.73	13,620.43	7,169.76	183.94	184.08	-110.73	-454.64	-6,878.65	274.07	-68.70	342.76	0.800 No-Go Zone - Stop Drilling	
13,600.00	7,073.25	13,720.43	7,170.27	186.66	186.79	-110.74	-452.60	-6,978.63	274.03	-73.84	347.87	0.788 No-Go Zone - Stop Drilling	
13,700.00	7,073.77	13,820.43	7,170.79	189.38	189.50	-110.74	-450.57	-7,078.61	274.00	-78.98	352.98	0.776 No-Go Zone - Stop Drilling	
13,800.00	7,074.29	13,920.43	7,171.31	192.10	192.21	-110.74	-448.54	-7,178.59	273.96	-84.13	358.09	0.765 No-Go Zone - Stop Drilling	
13,900.00	7,074.81	14,020.43	7,171.83	194.82	194.93	-110.74	-446.50	-7,278.57	273.93	-89.27	363.20	0.754 No-Go Zone - Stop Drilling	
14,000.00	7,075.32	14,120.43	7,172.35	197.54	197.64	-110.75	-444.47	-7,378.54	273.89	-94.42	368.31	0.744 No-Go Zone - Stop Drilling	
14,100.00	7,075.84	14,220.43	7,172.87	200.27	200.35	-110.75	-442.43	-7,478.52	273.86	-99.56	373.42	0.733 No-Go Zone - Stop Drilling	
14,200.00	7,076.36	14,320.43	7,173.38	202.99	203.07	-110.75	-440.40	-7,578.50	273.82	-104.71	378.53	0.723 No-Go Zone - Stop Drilling	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	14,420.43	7,173.90	205.71	205.78	-110.76	-438.36	-7,678.48	273.79	-109.86	383.65	0.714	No-Go Zone - Stop Drilling
14,400.00	7,077.40	14,520.43	7,174.42	208.44	208.50	-110.76	-436.33	-7,778.46	273.75	-115.01	388.76	0.704	No-Go Zone - Stop Drilling
14,500.00	7,077.92	14,620.43	7,174.94	211.16	211.21	-110.76	-434.30	-7,878.43	273.72	-120.16	393.87	0.695	No-Go Zone - Stop Drilling
14,600.00	7,078.43	14,720.43	7,175.46	213.88	213.93	-110.76	-432.26	-7,978.41	273.68	-125.31	398.99	0.686	No-Go Zone - Stop Drilling
14,700.00	7,078.95	14,820.43	7,175.97	216.61	216.65	-110.77	-430.23	-8,078.39	273.64	-130.46	404.10	0.677	No-Go Zone - Stop Drilling
14,800.00	7,079.47	14,920.43	7,176.49	219.33	219.37	-110.77	-428.19	-8,178.37	273.61	-135.61	409.22	0.669	No-Go Zone - Stop Drilling
14,900.00	7,079.99	15,020.43	7,177.01	222.06	222.08	-110.77	-426.16	-8,278.35	273.57	-140.76	414.34	0.660	No-Go Zone - Stop Drilling
15,000.00	7,080.51	15,120.43	7,177.53	224.78	224.80	-110.77	-424.12	-8,378.32	273.54	-145.92	419.46	0.652	No-Go Zone - Stop Drilling
15,100.00	7,081.03	15,220.43	7,178.05	227.51	227.52	-110.78	-422.09	-8,478.30	273.50	-151.07	424.57	0.644	No-Go Zone - Stop Drilling
15,200.00	7,081.54	15,320.43	7,178.57	230.24	230.24	-110.78	-420.06	-8,578.28	273.47	-156.22	429.69	0.636	No-Go Zone - Stop Drilling
15,300.00	7,082.06	15,420.43	7,179.08	232.96	232.96	-110.78	-418.02	-8,678.26	273.43	-161.38	434.81	0.629	No-Go Zone - Stop Drilling
15,400.00	7,082.58	15,520.43	7,179.60	235.69	235.68	-110.79	-415.99	-8,778.24	273.40	-166.53	439.93	0.621	No-Go Zone - Stop Drilling
15,500.00	7,083.10	15,620.43	7,180.12	238.41	238.40	-110.79	-413.95	-8,878.21	273.36	-171.69	445.05	0.614	No-Go Zone - Stop Drilling
15,600.00	7,083.62	15,720.43	7,180.64	241.14	241.12	-110.79	-411.92	-8,978.19	273.33	-176.84	450.17	0.607	No-Go Zone - Stop Drilling
15,700.00	7,084.13	15,820.43	7,181.16	243.87	243.85	-110.79	-409.88	-9,078.17	273.29	-182.00	455.29	0.600	No-Go Zone - Stop Drilling
15,800.00	7,084.65	15,920.43	7,181.68	246.60	246.57	-110.80	-407.85	-9,178.15	273.26	-187.16	460.41	0.594	No-Go Zone - Stop Drilling
15,900.00	7,085.17	16,020.43	7,182.19	249.32	249.29	-110.80	-405.81	-9,278.13	273.22	-192.31	465.53	0.587	No-Go Zone - Stop Drilling
16,000.00	7,085.69	16,120.43	7,182.71	252.05	252.01	-110.80	-403.78	-9,378.10	273.19	-197.47	470.66	0.580	No-Go Zone - Stop Drilling
16,100.00	7,086.21	16,220.43	7,183.23	254.78	254.74	-110.81	-401.75	-9,478.08	273.15	-202.63	475.78	0.574	No-Go Zone - Stop Drilling
16,200.00	7,086.73	16,320.43	7,183.75	257.51	257.46	-110.81	-399.71	-9,578.06	273.12	-207.78	480.90	0.568	No-Go Zone - Stop Drilling
16,300.00	7,087.24	16,420.43	7,184.27	260.24	260.18	-110.81	-397.68	-9,678.04	273.08	-212.94	486.02	0.562	No-Go Zone - Stop Drilling
16,400.00	7,087.76	16,520.43	7,184.79	262.97	262.91	-110.81	-395.64	-9,778.02	273.05	-218.10	491.15	0.556	No-Go Zone - Stop Drilling
16,500.00	7,088.28	16,620.43	7,185.30	265.69	265.63	-110.82	-393.61	-9,877.99	273.01	-223.26	496.27	0.550	No-Go Zone - Stop Drilling
16,600.00	7,088.80	16,720.43	7,185.82	268.42	268.35	-110.82	-391.57	-9,977.97	272.97	-228.42	501.39	0.544	No-Go Zone - Stop Drilling
16,700.00	7,089.32	16,820.43	7,186.34	271.15	271.08	-110.82	-389.54	-10,077.95	272.94	-233.58	506.52	0.539	No-Go Zone - Stop Drilling
16,800.00	7,089.84	16,920.43	7,186.86	273.88	273.80	-110.83	-387.51	-10,177.93	272.90	-238.73	511.64	0.533	No-Go Zone - Stop Drilling
16,900.00	7,090.35	17,020.43	7,187.38	276.61	276.53	-110.83	-385.47	-10,277.91	272.87	-243.89	516.76	0.528	No-Go Zone - Stop Drilling
17,000.00	7,090.87	17,120.43	7,187.89	279.34	279.25	-110.83	-383.44	-10,377.88	272.83	-249.05	521.89	0.523	No-Go Zone - Stop Drilling
17,020.47	7,090.98	17,140.80	7,188.00	279.90	279.81	-110.83	-383.02	-10,398.25	272.83	-250.11	522.94	0.522	No-Go Zone - Stop Drilling
17,024.65	7,091.00	17,140.80	7,188.00	280.01	279.81	-110.83	-383.02	-10,398.25	272.86	-250.28	523.14	0.522	No-Go Zone - Stop Drilling, ES, SF

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-158.46	-281.61	-111.14	302.76				
100.00	100.00	97.00	97.00	0.48	0.47	-158.46	-281.61	-111.14	302.75	301.80	0.95	318.446	
200.00	200.00	197.00	197.00	1.28	1.26	-158.46	-281.61	-111.14	302.75	300.21	2.54	119.164	
300.00	300.00	297.00	297.00	1.77	1.75	-158.46	-281.61	-111.14	302.75	299.23	3.52	85.946	
400.00	400.00	397.00	397.00	2.15	2.14	-158.46	-281.61	-111.14	302.75	298.46	4.29	70.578	
500.00	500.00	497.00	497.00	2.48	2.47	-158.46	-281.61	-111.14	302.75	297.81	4.94	61.236	
600.00	600.00	597.00	597.00	2.77	2.76	-158.46	-281.61	-111.14	302.75	297.22	5.53	54.786	
700.00	700.00	697.00	697.00	3.03	3.02	-158.46	-281.61	-111.14	302.75	296.69	6.06	49.985	
800.00	800.00	797.00	797.00	3.28	3.27	-158.46	-281.61	-111.14	302.75	296.20	6.55	46.231	
900.00	900.00	897.00	897.00	3.51	3.50	-158.46	-281.61	-111.14	302.75	295.74	7.01	43.189	
1,000.00	999.98	994.02	994.00	3.78	3.79	-9.95	-282.58	-109.94	301.50	294.07	7.43	40.565	
1,083.35	1,083.22	1,074.60	1,074.49	4.28	4.38	-10.78	-284.94	-106.99	298.65	290.52	8.13	36.725	
1,100.00	1,099.84	1,090.66	1,090.52	4.29	4.52	-11.01	-285.58	-106.19	297.94	289.77	8.18	36.435	
1,200.00	1,199.64	1,186.87	1,186.39	4.47	5.21	-12.71	-290.59	-99.95	294.46	285.85	8.61	34.187	
1,300.00	1,299.43	1,282.48	1,281.35	4.70	5.84	-15.02	-297.56	-91.25	292.53	283.40	9.13	32.044	
1,349.96	1,349.29	1,329.97	1,328.36	4.82	6.13	-16.39	-301.75	-86.01	292.27	282.86	9.41	31.055 CC	
1,400.00	1,399.23	1,377.30	1,375.10	4.95	6.42	-17.89	-306.42	-80.19	292.55	282.85	9.71	30.139 ES	
1,500.00	1,499.02	1,471.13	1,467.36	5.20	6.98	-21.24	-317.10	-66.87	294.97	284.61	10.35	28.490	
1,600.00	1,598.82	1,563.79	1,557.87	5.47	7.52	-24.97	-329.49	-51.40	300.25	289.18	11.07	27.131	
1,700.00	1,698.61	1,655.11	1,646.40	5.75	8.03	-28.94	-343.49	-33.94	308.85	297.01	11.83	26.098	
1,800.00	1,798.41	1,744.93	1,732.74	6.04	8.53	-33.01	-358.97	-14.62	321.14	308.50	12.63	25.420	
1,900.00	1,898.20	1,833.13	1,816.71	6.34	9.01	-37.06	-375.82	6.39	337.38	323.94	13.44	25.104 SF	
2,000.00	1,998.00	1,919.58	1,898.19	6.64	9.48	-40.96	-393.89	28.94	357.73	343.50	14.23	25.140	
2,100.00	2,097.79	2,000.00	1,973.17	6.94	9.91	-44.45	-412.07	51.63	382.20	367.26	14.93	25.593	
2,200.00	2,197.59	2,086.84	2,053.18	7.26	10.37	-48.02	-433.18	77.96	410.64	394.94	15.70	26.155	
2,300.00	2,297.38	2,167.51	2,126.56	7.57	10.79	-51.11	-454.13	104.11	442.96	426.59	16.37	27.062	
2,400.00	2,397.18	2,246.12	2,197.13	7.89	11.20	-53.89	-475.79	131.13	478.93	461.94	16.99	28.190	
2,500.00	2,496.97	2,322.65	2,264.89	8.22	11.59	-56.38	-498.03	158.87	518.34	500.78	17.57	29.505	
2,600.00	2,596.77	2,400.00	2,332.39	8.54	11.99	-58.67	-521.65	188.34	560.97	542.82	18.15	30.907	
2,700.00	2,696.57	2,469.36	2,392.04	8.87	12.34	-60.55	-543.79	215.97	606.57	587.95	18.62	32.583	
2,800.00	2,796.36	2,539.54	2,451.49	9.21	12.69	-62.29	-567.10	245.06	654.96	635.86	19.09	34.301	
2,900.00	2,896.16	2,600.00	2,501.97	9.54	12.99	-63.66	-587.92	271.03	705.99	686.55	19.44	36.315	
3,000.00	2,995.95	2,673.58	2,562.44	9.87	13.35	-65.19	-614.14	303.74	759.35	739.37	19.98	38.006	
3,100.00	3,095.75	2,737.50	2,614.07	10.21	13.65	-66.40	-637.70	333.13	815.01	794.62	20.38	39.982	
3,200.00	3,195.54	2,800.16	2,663.87	10.55	13.96	-67.49	-661.48	362.81	872.78	851.99	20.78	41.993	
3,300.00	3,295.34	2,879.38	2,726.35	10.89	14.26	-68.73	-691.95	400.82	931.64	910.37	21.27	43.797	
3,400.00	3,395.13	2,958.61	2,788.83	11.23	15.08	-69.82	-722.41	438.82	990.76	968.92	21.83	45.376	
3,500.00	3,494.93	3,037.83	2,851.32	11.58	16.07	-70.80	-752.87	476.83	1,050.10	1,027.76	22.34	47.002	
3,600.00	3,594.72	3,117.06	2,913.80	11.92	17.04	-71.68	-783.33	514.84	1,109.62	1,086.75	22.87	48.518	
3,700.00	3,694.52	3,196.28	2,976.28	12.26	18.01	-72.46	-813.79	552.84	1,169.29	1,145.88	23.41	49.949	
3,800.00	3,794.31	3,275.51	3,038.77	12.61	18.99	-73.18	-844.25	590.85	1,229.10	1,205.14	23.96	51.294	
3,900.00	3,894.11	3,354.73	3,101.25	12.96	19.97	-73.83	-874.72	628.85	1,289.02	1,264.50	24.52	52.573	
4,000.00	3,993.90	3,433.96	3,163.74	13.30	20.95	-74.42	-905.18	666.86	1,349.04	1,323.96	25.08	53.788	
4,100.00	4,093.70	3,513.18	3,226.22	13.65	21.94	-74.96	-935.64	704.87	1,409.15	1,383.50	25.65	54.940	
4,200.00	4,193.49	3,592.41	3,288.70	14.00	22.94	-75.46	-966.10	742.87	1,469.33	1,443.10	26.22	56.029	
4,300.00	4,293.29	3,671.63	3,351.19	14.35	23.93	-75.92	-996.56	780.88	1,529.58	1,502.77	26.81	57.059	
4,400.00	4,393.08	3,750.86	3,413.67	14.70	24.93	-76.34	-1,027.02	818.88	1,589.88	1,562.49	27.39	58.037	
4,500.00	4,492.88	3,830.08	3,476.15	15.05	25.93	-76.74	-1,057.49	856.89	1,650.24	1,622.26	27.99	58.966	
4,600.00	4,592.68	3,909.31	3,538.64	15.40	26.93	-77.11	-1,087.95	894.89	1,710.65	1,682.06	28.58	59.849	
4,700.00	4,692.47	3,988.53	3,601.12	15.75	27.93	-77.45	-1,118.41	932.90	1,771.10	1,741.91	29.18	60.686	
4,800.00	4,792.27	4,067.76	3,663.61	16.10	28.94	-77.77	-1,148.87	970.91	1,831.58	1,801.79	29.79	61.479	
4,900.00	4,892.06	4,146.98	3,726.09	16.45	29.94	-78.07	-1,179.33	1,008.91	1,892.10	1,861.70	30.40	62.234	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,226.21	3,788.57	16.81	30.95	-78.35	-1,209.79	1,046.92	1,952.65	1,921.63	31.02	62.953	
5,100.00	5,091.85	4,305.43	3,851.06	17.16	31.96	-78.62	-1,240.25	1,084.92	2,013.23	1,981.60	31.64	63.638	
5,200.00	5,191.45	4,384.66	3,913.54	17.51	32.97	-78.87	-1,270.72	1,122.93	2,073.84	2,041.58	32.26	64.287	
5,300.00	5,291.24	4,463.88	3,976.02	17.87	33.98	-79.10	-1,301.18	1,160.94	2,134.47	2,101.58	32.89	64.906	
5,400.00	5,391.04	4,543.11	4,038.51	18.22	34.99	-79.32	-1,331.64	1,198.94	2,195.12	2,161.60	33.52	65.496	
5,500.00	5,490.83	4,622.33	4,100.99	18.57	36.00	-79.53	-1,362.10	1,236.95	2,255.79	2,221.64	34.15	66.059	
5,600.00	5,590.63	4,701.56	4,163.48	18.93	37.01	-79.73	-1,392.56	1,274.95	2,316.48	2,281.69	34.78	66.596	
5,700.00	5,690.42	4,780.78	4,225.96	19.28	38.03	-79.92	-1,423.02	1,312.96	2,377.18	2,341.76	35.42	67.107	
5,800.00	5,790.22	4,860.00	4,288.44	19.64	39.04	-80.10	-1,453.49	1,350.97	2,437.90	2,401.84	36.07	67.595	
5,900.00	5,890.01	4,939.23	4,350.93	19.99	40.05	-80.27	-1,483.95	1,388.97	2,498.64	2,461.93	36.71	68.062	
6,000.00	5,989.81	5,018.45	4,413.41	20.35	41.07	-80.44	-1,514.41	1,426.98	2,559.39	2,522.03	37.36	68.507	
6,100.00	6,089.60	5,097.68	4,475.89	20.70	42.08	-80.59	-1,544.87	1,464.98	2,620.15	2,582.14	38.01	68.933	
6,200.00	6,189.40	5,176.90	4,538.38	21.06	43.10	-80.74	-1,575.33	1,502.99	2,680.93	2,642.26	38.66	69.340	
6,300.00	6,289.19	5,256.13	4,600.86	21.41	44.12	-80.88	-1,605.79	1,541.00	2,741.71	2,702.39	39.32	69.728	
6,400.00	6,388.99	5,335.35	4,663.34	21.77	45.13	-81.02	-1,636.26	1,579.00	2,802.50	2,762.53	39.98	70.101	
6,498.43	6,487.22	5,413.34	4,724.85	22.12	46.13	-81.15	-1,666.24	1,616.41	2,862.36	2,821.73	40.63	70.453	
6,500.00	6,488.79	5,414.58	4,725.83	22.12	46.15	-83.15	-1,666.72	1,617.01	2,863.31	2,822.67	40.64	70.459	
6,550.00	6,538.54	5,452.95	4,756.09	22.32	46.64	-114.05	-1,681.47	1,635.41	2,895.11	2,854.11	41.00	70.619	
6,600.00	6,587.76	5,488.78	4,784.35	22.59	47.10	-120.58	-1,695.25	1,652.60	2,929.37	2,887.97	41.40	70.750	
6,650.00	6,636.08	5,521.80	4,810.39	22.84	47.53	-121.17	-1,707.94	1,668.44	2,965.85	2,924.08	41.76	71.015	
6,700.00	6,683.13	5,551.75	4,834.02	23.07	47.91	-119.18	-1,719.46	1,682.81	3,004.29	2,962.18	42.11	71.351	
6,750.00	6,728.55	5,578.42	4,855.05	23.29	48.25	-115.51	-1,729.71	1,695.61	3,044.42	3,001.99	42.43	71.747	
6,800.00	6,771.99	5,601.59	4,873.32	23.51	48.55	-110.43	-1,738.62	1,706.72	3,085.97	3,043.22	42.75	72.191	
6,850.00	6,813.13	5,621.09	4,888.71	23.72	48.80	-104.05	-1,746.12	1,716.08	3,128.64	3,085.59	43.05	72.673	
6,900.00	6,851.64	5,636.78	4,901.08	23.94	49.00	-96.51	-1,752.15	1,723.60	3,172.16	3,128.81	43.34	73.184	
6,950.00	6,887.25	5,648.53	4,910.34	24.16	49.15	-88.06	-1,756.67	1,729.24	3,216.20	3,172.57	43.63	73.712	
7,000.00	6,919.67	5,656.25	4,916.43	24.38	49.25	-79.15	-1,759.64	1,732.94	3,260.47	3,216.55	43.91	74.246	
7,050.00	6,948.65	5,659.88	4,919.30	24.62	49.30	-70.28	-1,761.04	1,734.69	3,304.65	3,260.46	44.19	74.777	
7,100.00	6,973.99	5,659.40	4,918.92	24.88	49.29	-61.95	-1,760.85	1,734.46	3,348.44	3,303.96	44.47	75.296	
7,150.00	6,995.49	5,654.82	4,915.30	25.18	49.23	-54.48	-1,759.09	1,732.25	3,391.51	3,346.76	44.75	75.796	
7,200.00	7,012.97	5,646.15	4,908.47	25.51	49.12	-48.00	-1,755.76	1,728.10	3,433.56	3,388.54	45.02	76.273	
7,250.00	7,026.32	5,633.48	4,898.47	25.89	48.96	-42.49	-1,750.88	1,722.02	3,474.28	3,428.99	45.28	76.721	
7,300.00	7,035.43	5,616.90	4,885.40	26.33	48.75	-37.87	-1,744.51	1,714.06	3,513.37	3,467.82	45.55	77.138	
7,350.00	7,040.22	5,596.53	4,869.33	26.84	48.49	-34.00	-1,736.68	1,704.29	3,550.53	3,504.73	45.80	77.522	
7,377.14	7,041.00	5,583.94	4,859.40	27.14	48.32	-32.17	-1,731.84	1,698.25	3,569.80	3,523.90	45.90	77.780	
7,400.00	7,041.12	5,572.89	4,850.69	27.41	48.18	-31.98	-1,727.59	1,692.95	3,585.76	3,539.80	45.97	78.010	
7,500.00	7,041.64	5,524.57	4,812.58	28.77	47.56	-31.19	-1,709.01	1,669.77	3,656.06	3,609.78	46.28	78.999	
7,600.00	7,042.16	5,476.25	4,774.47	30.39	46.94	-30.42	-1,690.43	1,646.59	3,727.09	3,680.50	46.59	79.994	
7,700.00	7,042.67	5,427.93	4,736.36	32.22	46.32	-29.66	-1,671.85	1,623.41	3,798.81	3,751.92	46.89	81.011	
7,800.00	7,043.19	5,379.61	4,698.25	34.20	45.70	-28.91	-1,653.27	1,600.23	3,871.18	3,824.00	47.18	82.058	
7,900.00	7,043.71	5,331.29	4,660.14	36.31	45.08	-28.18	-1,634.69	1,577.05	3,944.16	3,896.73	47.44	83.141	
8,000.00	7,044.23	5,282.97	4,622.03	38.52	44.46	-27.46	-1,616.11	1,553.87	4,017.73	3,970.05	47.68	84.264	
8,100.00	7,044.75	5,234.65	4,583.92	40.80	43.84	-26.75	-1,597.53	1,530.69	4,091.85	4,043.95	47.90	85.431	
8,200.00	7,045.26	5,186.32	4,545.81	43.15	43.22	-26.06	-1,578.95	1,507.51	4,166.49	4,118.40	48.09	86.643	
8,300.00	7,045.78	5,138.00	4,507.70	45.54	42.60	-25.38	-1,560.38	1,484.33	4,241.62	4,193.37	48.25	87.903	
8,400.00	7,046.30	5,089.68	4,469.59	47.97	41.98	-24.71	-1,541.80	1,461.15	4,317.22	4,268.83	48.39	89.211	
8,500.00	7,046.82	5,041.36	4,431.48	50.44	41.36	-24.06	-1,523.22	1,437.97	4,393.27	4,344.76	48.51	90.568	
8,600.00	7,047.34	4,993.04	4,393.37	52.94	40.74	-23.42	-1,504.64	1,414.79	4,469.74	4,421.14	48.60	91.974	
8,700.00	7,047.86	4,944.72	4,355.26	55.46	40.13	-22.79	-1,486.06	1,391.61	4,546.60	4,497.94	48.66	93.430	
8,800.00	7,048.37	4,896.40	4,317.15	58.00	39.51	-22.17	-1,467.48	1,368.43	4,623.85	4,575.14	48.70	94.937	
8,900.00	7,048.89	4,848.08	4,279.04	60.56	38.89	-21.57	-1,448.90	1,345.24	4,701.45	4,652.73	48.72	96.492	
9,000.00	7,049.41	4,799.76	4,240.93	63.13	38.27	-20.97	-1,430.32	1,322.06	4,779.40	4,730.68	48.72	98.098	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	4,751.44	4,202.82	65.72	37.65	-20.39	-1,411.74	1,298.88	4,857.68	4,808.98	48.70	99.752	
9,200.00	7,050.45	4,703.12	4,164.71	68.32	37.03	-19.82	-1,393.16	1,275.70	4,936.27	4,887.62	48.65	101.457	
9,300.00	7,050.97	4,654.79	4,126.60	70.93	36.42	-19.26	-1,374.58	1,252.52	5,015.16	4,966.57	48.59	103.209	
9,400.00	7,051.48	4,606.47	4,088.49	73.55	35.80	-18.71	-1,356.00	1,229.34	5,094.33	5,045.82	48.51	105.013	
9,500.00	7,052.00	4,558.15	4,050.37	76.18	35.18	-18.18	-1,337.43	1,206.16	5,173.77	5,125.35	48.42	106.862	
9,600.00	7,052.52	4,509.83	4,012.26	78.81	34.57	-17.65	-1,318.85	1,182.98	5,253.46	5,205.16	48.30	108.762	
9,700.00	7,053.04	4,461.51	3,974.15	81.46	33.95	-17.13	-1,300.27	1,159.80	5,333.41	5,285.23	48.18	110.708	
9,800.00	7,053.56	4,413.19	3,936.04	84.10	33.33	-16.62	-1,281.69	1,136.62	5,413.59	5,365.55	48.03	112.703	
9,900.00	7,054.08	4,364.87	3,897.93	86.76	32.72	-16.13	-1,263.11	1,113.44	5,493.99	5,446.11	47.88	114.743	
10,000.00	7,054.59	4,316.55	3,859.82	89.42	32.10	-15.64	-1,244.53	1,090.26	5,574.61	5,526.89	47.71	116.832	
10,100.00	7,055.11	4,268.23	3,821.71	92.08	31.49	-15.16	-1,225.95	1,067.08	5,655.43	5,607.89	47.54	118.965	
10,200.00	7,055.63	4,219.91	3,783.60	94.75	30.87	-14.69	-1,207.37	1,043.90	5,736.46	5,689.10	47.35	121.144	
10,300.00	7,056.15	4,171.58	3,745.49	97.42	30.26	-14.23	-1,188.79	1,020.72	5,817.67	5,770.51	47.16	123.368	
10,400.00	7,056.67	4,123.26	3,707.38	100.10	29.64	-13.78	-1,170.21	997.53	5,899.06	5,852.11	46.95	125.636	
10,500.00	7,057.18	4,074.94	3,669.27	102.78	29.03	-13.34	-1,151.63	974.35	5,980.63	5,933.89	46.74	127.947	
10,600.00	7,057.70	4,026.62	3,631.16	105.46	28.42	-12.90	-1,133.05	951.17	6,062.36	6,015.84	46.53	130.301	
10,700.00	7,058.22	3,978.30	3,593.05	108.14	27.80	-12.47	-1,114.47	927.99	6,144.26	6,097.95	46.30	132.696	
10,800.00	7,058.74	3,929.98	3,554.94	110.83	27.19	-12.06	-1,095.90	904.81	6,226.30	6,180.23	46.08	135.132	
10,900.00	7,059.26	3,881.66	3,516.83	113.52	26.58	-11.65	-1,077.32	881.63	6,308.50	6,262.66	45.84	137.608	
11,000.00	7,059.78	3,833.34	3,478.72	116.21	25.97	-11.24	-1,058.74	858.45	6,390.84	6,345.23	45.61	140.121	
11,100.00	7,060.29	3,785.02	3,440.61	118.90	25.36	-10.85	-1,040.16	835.27	6,473.31	6,427.94	45.37	142.672	
11,200.00	7,060.81	3,736.70	3,402.50	121.60	24.75	-10.46	-1,021.58	812.09	6,555.92	6,510.79	45.13	145.257	
11,300.00	7,061.33	3,688.37	3,364.39	124.30	24.14	-10.08	-1,003.00	788.91	6,638.65	6,593.76	44.89	147.879	
11,400.00	7,061.85	3,640.05	3,326.28	127.00	23.53	-9.70	-984.42	765.73	6,721.51	6,676.86	44.65	150.529	
11,500.00	7,062.37	3,591.73	3,288.17	129.70	22.93	-9.34	-965.84	742.55	6,804.48	6,760.07	44.41	153.214	
11,600.00	7,062.89	3,543.41	3,250.06	132.40	22.32	-8.98	-947.26	719.37	6,887.57	6,843.40	44.17	155.922	
11,700.00	7,063.40	3,495.09	3,211.95	135.10	21.72	-8.62	-928.68	696.19	6,970.77	6,926.83	43.93	158.664	
11,800.00	7,063.92	3,446.77	3,173.84	137.81	21.11	-8.28	-910.10	673.01	7,054.07	7,010.37	43.70	161.420	
11,900.00	7,064.44	3,398.45	3,135.73	140.51	20.51	-7.93	-891.52	649.82	7,137.47	7,094.00	43.47	164.209	
12,000.00	7,064.96	3,350.13	3,097.62	143.22	19.91	-7.60	-872.94	626.64	7,220.97	7,177.73	43.24	167.004	
12,100.00	7,065.48	3,301.81	3,059.51	145.93	19.31	-7.27	-854.37	603.46	7,304.57	7,261.55	43.01	169.830	
12,200.00	7,066.00	3,253.49	3,021.40	148.64	18.71	-6.95	-835.79	580.28	7,388.25	7,345.46	42.79	172.652	
12,300.00	7,066.51	3,205.16	2,983.29	151.35	18.12	-6.63	-817.21	557.10	7,472.03	7,429.45	42.58	175.501	
12,400.00	7,067.03	3,156.84	2,945.18	154.06	17.52	-6.32	-798.63	533.92	7,555.89	7,513.52	42.37	178.340	
12,500.00	7,067.55	3,108.52	2,907.07	156.77	16.93	-6.01	-780.05	510.74	7,639.84	7,597.67	42.16	181.199	
12,600.00	7,068.07	3,060.20	2,868.96	159.49	16.34	-5.71	-761.47	487.56	7,723.86	7,681.89	41.97	184.037	
12,700.00	7,068.59	3,011.88	2,830.85	162.20	15.76	-5.41	-742.89	464.38	7,807.96	7,766.18	41.78	186.891	
12,800.00	7,069.11	2,963.56	2,792.74	164.92	15.14	-5.12	-724.31	441.20	7,892.14	7,850.54	41.60	189.704	
12,900.00	7,069.62	2,915.24	2,754.63	167.63	14.58	-4.83	-705.73	418.02	7,976.39	7,934.96	41.43	192.541	
13,000.00	7,070.14	2,866.92	2,716.52	170.35	14.17	-4.55	-687.15	394.84	8,060.71	8,019.45	41.26	195.370	
13,100.00	7,070.66	2,818.60	2,678.41	173.07	13.95	-4.28	-668.57	371.66	8,145.10	8,103.99	41.11	198.137	
13,200.00	7,071.18	2,796.84	2,661.25	175.78	13.94	-4.15	-660.21	361.22	8,229.59	8,188.44	41.15	199.999	
13,300.00	7,071.70	2,796.84	2,661.25	178.50	13.94	-4.15	-660.21	361.22	8,314.41	8,273.08	41.32	201.215	
13,400.00	7,072.21	2,796.84	2,661.25	181.22	13.94	-4.15	-660.21	361.22	8,399.55	8,358.06	41.49	202.443	
13,500.00	7,072.73	2,748.93	2,623.22	183.94	13.70	-3.89	-641.99	338.48	8,484.54	8,443.25	41.29	205.470	
13,600.00	7,073.25	2,735.81	2,612.72	186.66	13.64	-3.82	-637.06	332.34	8,570.03	8,528.66	41.36	207.198	
13,700.00	7,073.77	2,700.00	2,583.88	189.38	13.48	-3.62	-623.79	315.78	8,655.86	8,614.60	41.26	209.767	
13,800.00	7,074.29	2,700.00	2,583.88	192.10	13.48	-3.62	-623.79	315.78	8,741.73	8,700.31	41.43	211.020	
13,900.00	7,074.81	2,700.00	2,583.88	194.82	13.48	-3.62	-623.79	315.78	8,827.91	8,786.32	41.59	212.284	
14,000.00	7,075.32	2,700.00	2,583.88	197.54	13.48	-3.62	-623.79	315.78	8,914.36	8,872.62	41.74	213.556	
14,100.00	7,075.84	2,700.00	2,583.88	200.27	13.48	-3.62	-623.79	315.78	9,001.10	8,959.21	41.90	214.836	
14,200.00	7,076.36	2,660.40	2,551.68	202.99	13.28	-3.42	-609.37	297.79	9,087.79	9,046.02	41.78	217.528	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	2,648.36	2,541.83	205.71	13.22	-3.36	-605.04	292.39	9,174.85	9,133.00	41.85	219.241	
14,400.00	7,077.40	2,600.00	2,501.97	208.44	12.99	-3.12	-587.92	271.03	9,262.38	9,220.70	41.68	222.227	
14,500.00	7,077.92	2,600.00	2,501.97	211.16	12.99	-3.12	-587.92	271.03	9,349.68	9,307.85	41.83	223.521	
14,600.00	7,078.43	2,600.00	2,501.97	213.88	12.99	-3.12	-587.92	271.03	9,437.24	9,395.27	41.98	224.822	
14,700.00	7,078.95	2,600.00	2,501.97	216.61	12.99	-3.12	-587.92	271.03	9,525.05	9,482.93	42.12	226.129	
14,800.00	7,079.47	2,600.00	2,501.97	219.33	12.99	-3.12	-587.92	271.03	9,613.09	9,570.83	42.27	227.441	
14,900.00	7,079.99	2,600.00	2,501.97	222.06	12.99	-3.12	-587.92	271.03	9,701.37	9,658.96	42.41	228.759	
15,000.00	7,080.51	2,600.00	2,501.97	224.78	12.99	-3.12	-587.92	271.03	9,789.87	9,747.32	42.55	230.081	
15,100.00	7,081.03	2,557.08	2,466.21	227.51	12.78	-2.91	-573.07	252.51	9,878.22	9,835.79	42.43	232.804	
15,200.00	7,081.54	2,546.27	2,457.14	230.24	12.72	-2.86	-569.39	247.91	9,966.95	9,924.44	42.51	234.478	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HNB-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-151.82	-208.75	-111.85	236.84				
100.00	100.00	98.00	98.00	0.48	0.47	-151.82	-208.75	-111.85	236.83	235.87	0.96	247.849	
200.00	200.00	198.00	198.00	1.28	1.27	-151.82	-208.75	-111.85	236.83	234.28	2.55	92.924	
300.00	300.00	298.00	298.00	1.77	1.76	-151.82	-208.75	-111.85	236.83	233.30	3.53	67.139	
400.00	400.00	398.00	398.00	2.15	2.14	-151.82	-208.75	-111.85	236.83	232.54	4.29	55.161	
500.00	500.00	498.00	498.00	2.48	2.47	-151.82	-208.75	-111.85	236.83	231.88	4.95	47.871	
600.00	600.00	598.00	598.00	2.77	2.76	-151.82	-208.75	-111.85	236.83	231.30	5.53	42.834	
700.00	700.00	698.00	698.00	3.03	3.03	-151.82	-208.75	-111.85	236.83	230.77	6.06	39.084	
800.00	800.00	798.00	798.00	3.28	3.27	-151.82	-208.75	-111.85	236.83	230.28	6.55	36.151	
900.00	900.00	896.53	896.51	3.51	3.58	-152.20	-209.76	-110.58	237.13	230.18	6.95	34.108	
1,000.00	999.98	994.79	994.64	3.78	4.38	-4.57	-212.88	-106.67	236.39	228.94	7.45	31.736	
1,083.35	1,083.22	1,076.31	1,075.89	4.28	4.98	-6.26	-217.05	-101.44	233.81	225.67	8.14	28.715	
1,100.00	1,099.84	1,092.54	1,092.04	4.29	5.10	-6.67	-218.05	-100.18	233.15	224.96	8.19	28.455	
1,200.00	1,199.64	1,189.62	1,188.42	4.47	5.75	-9.64	-225.24	-91.16	230.02	221.37	8.65	26.589	
1,300.00	1,299.43	1,285.86	1,283.53	4.70	6.36	-13.40	-234.36	-79.71	228.75	219.53	9.22	24.819	
1,305.80	1,305.22	1,291.41	1,289.00	4.72	6.39	-13.64	-234.95	-78.97	228.74	219.49	9.25	24.723 CC, ES	
1,400.00	1,399.23	1,381.05	1,377.08	4.95	6.93	-17.86	-245.35	-65.92	229.96	220.08	9.88	23.280	
1,500.00	1,499.02	1,475.02	1,468.79	5.20	7.48	-22.83	-258.08	-49.94	234.33	223.70	10.64	22.033	
1,600.00	1,598.82	1,567.58	1,558.43	5.47	8.01	-28.10	-272.45	-31.91	242.50	231.03	11.47	21.144	
1,700.00	1,698.61	1,658.58	1,645.79	5.75	8.52	-33.42	-288.33	-11.98	254.94	242.60	12.34	20.659	
1,800.00	1,798.41	1,747.88	1,730.68	6.04	9.01	-38.57	-305.59	9.68	271.93	258.72	13.21	20.587 SF	
1,900.00	1,898.20	1,835.36	1,812.97	6.34	9.49	-43.38	-324.08	32.89	293.54	279.49	14.04	20.905	
2,000.00	1,998.00	1,920.91	1,892.53	6.64	9.95	-47.76	-343.67	57.48	319.65	304.83	14.82	21.570	
2,100.00	2,097.79	2,000.00	1,965.21	6.94	10.37	-51.45	-363.10	81.85	350.09	334.62	15.47	22.628	
2,200.00	2,197.59	2,085.92	2,043.17	7.26	10.82	-55.07	-385.60	110.10	384.46	368.26	16.20	23.734	
2,300.00	2,297.38	2,165.25	2,114.16	7.57	11.23	-58.04	-407.67	137.79	422.57	405.76	16.81	25.141	
2,400.00	2,397.18	2,242.43	2,182.25	7.89	11.63	-60.62	-430.31	166.20	464.09	446.72	17.37	26.713	
2,500.00	2,496.97	2,317.42	2,247.46	8.22	12.02	-62.84	-453.39	195.17	508.76	490.86	17.90	28.421	
2,600.00	2,596.77	2,390.23	2,309.81	8.54	12.39	-64.76	-476.81	224.56	556.33	537.93	18.40	30.237	
2,700.00	2,696.57	2,460.85	2,369.36	8.87	12.74	-66.42	-500.46	254.24	606.58	587.71	18.87	32.148	
2,800.00	2,796.36	2,529.30	2,426.17	9.21	13.08	-67.87	-524.25	284.10	659.32	640.00	19.32	34.134	
2,900.00	2,896.16	2,600.00	2,483.88	9.54	13.43	-69.20	-549.71	316.05	714.39	694.58	19.81	36.056	
3,000.00	2,995.95	2,659.79	2,531.88	9.87	13.71	-70.22	-571.92	343.93	771.59	751.44	20.15	38.288	
3,100.00	3,095.75	2,721.90	2,580.95	10.21	13.98	-71.18	-595.65	373.71	830.82	810.30	20.52	40.481	
3,200.00	3,195.54	2,785.31	2,630.17	10.55	14.32	-72.07	-620.56	404.96	891.95	871.01	20.94	42.591	
3,300.00	3,295.34	2,858.26	2,686.29	10.89	15.08	-72.99	-649.60	441.41	954.14	932.72	21.43	44.533	
3,400.00	3,395.13	2,935.56	2,745.76	11.23	16.10	-73.84	-680.37	480.04	1,016.50	994.58	21.92	46.381	
3,500.00	3,494.93	3,012.86	2,805.24	11.58	17.09	-74.61	-711.15	518.66	1,078.98	1,056.55	22.44	48.088	
3,600.00	3,594.72	3,090.16	2,864.71	11.92	18.09	-75.28	-741.92	557.28	1,141.57	1,118.60	22.97	49.691	
3,700.00	3,694.52	3,167.46	2,924.18	12.26	19.09	-75.89	-772.70	595.91	1,204.25	1,180.73	23.52	51.201	
3,800.00	3,794.31	3,244.77	2,983.65	12.61	20.10	-76.44	-803.47	634.53	1,267.00	1,242.93	24.07	52.635	
3,900.00	3,894.11	3,322.07	3,043.12	12.96	21.11	-76.94	-834.25	673.15	1,329.82	1,305.19	24.63	53.994	
4,000.00	3,993.90	3,399.37	3,102.59	13.30	22.13	-77.40	-865.02	711.77	1,392.69	1,367.50	25.19	55.282	
4,100.00	4,093.70	3,476.67	3,162.06	13.65	23.15	-77.81	-895.80	750.40	1,455.62	1,429.85	25.77	56.494	
4,200.00	4,193.49	3,553.97	3,221.53	14.00	24.17	-78.20	-926.57	789.02	1,518.58	1,492.24	26.34	57.644	
4,300.00	4,293.29	3,631.27	3,281.00	14.35	25.19	-78.55	-957.35	827.64	1,581.59	1,554.66	26.93	58.736	
4,400.00	4,393.08	3,708.58	3,340.47	14.70	26.22	-78.87	-988.12	866.26	1,644.62	1,617.11	27.51	59.773	
4,500.00	4,492.88	3,785.88	3,399.94	15.05	27.25	-79.17	-1,018.90	904.89	1,707.69	1,679.58	28.11	60.754	
4,600.00	4,592.68	3,863.18	3,459.41	15.40	28.28	-79.45	-1,049.67	943.51	1,770.78	1,742.08	28.71	61.684	
4,700.00	4,692.47	3,940.48	3,518.88	15.75	29.31	-79.71	-1,080.45	982.13	1,833.90	1,804.59	29.31	62.569	
4,800.00	4,792.27	4,017.78	3,578.35	16.10	30.34	-79.96	-1,111.22	1,020.75	1,897.04	1,867.12	29.92	63.410	
4,900.00	4,892.06	4,095.08	3,637.82	16.45	31.37	-80.18	-1,142.00	1,059.38	1,960.20	1,929.67	30.53	64.210	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HNB-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,172.39	3,697.29	16.81	32.41	-80.40	-1,172.77	1,098.00	2,023.37	1,992.23	31.14	64.969	
5,100.00	5,091.85	4,249.69	3,756.76	17.16	33.44	-80.60	-1,203.55	1,136.62	2,086.57	2,054.80	31.76	65.691	
5,200.00	5,191.45	4,326.99	3,816.23	17.51	34.48	-80.79	-1,234.32	1,175.24	2,149.77	2,117.39	32.39	66.381	
5,300.00	5,291.24	4,404.29	3,875.70	17.87	35.52	-80.96	-1,265.10	1,213.87	2,212.99	2,179.98	33.01	67.037	
5,400.00	5,391.04	4,481.59	3,935.18	18.22	36.56	-81.13	-1,295.87	1,252.49	2,276.22	2,242.58	33.64	67.662	
5,500.00	5,490.83	4,558.89	3,994.65	18.57	37.60	-81.29	-1,326.65	1,291.11	2,339.47	2,305.19	34.27	68.258	
5,600.00	5,590.63	4,636.20	4,054.12	18.93	38.63	-81.44	-1,357.42	1,329.74	2,402.72	2,367.81	34.91	68.827	
5,700.00	5,690.42	4,713.50	4,113.59	19.28	39.67	-81.59	-1,388.20	1,368.36	2,465.98	2,430.43	35.55	69.370	
5,800.00	5,790.22	4,790.80	4,173.06	19.64	40.72	-81.72	-1,418.97	1,406.98	2,529.25	2,493.06	36.19	69.888	
5,900.00	5,890.01	4,868.10	4,232.53	19.99	41.76	-81.85	-1,449.75	1,445.60	2,592.53	2,555.70	36.83	70.383	
6,000.00	5,989.81	4,945.40	4,292.00	20.35	42.80	-81.97	-1,480.52	1,484.23	2,655.82	2,618.34	37.48	70.856	
6,100.00	6,089.60	5,022.70	4,351.47	20.70	43.84	-82.09	-1,511.30	1,522.85	2,719.11	2,680.98	38.13	71.309	
6,200.00	6,189.40	5,100.01	4,410.94	21.06	44.88	-82.20	-1,542.07	1,561.47	2,782.42	2,743.63	38.78	71.742	
6,300.00	6,289.19	5,177.31	4,470.41	21.41	45.93	-82.31	-1,572.84	1,600.09	2,845.72	2,806.28	39.44	72.155	
6,400.00	6,388.99	5,254.61	4,529.88	21.77	46.97	-82.41	-1,603.62	1,638.72	2,909.04	2,868.94	40.10	72.551	
6,498.43	6,487.22	5,330.70	4,588.42	22.12	48.00	-82.51	-1,633.91	1,676.73	2,971.36	2,930.62	40.75	72.925	
6,500.00	6,488.79	5,331.91	4,589.35	22.12	48.01	-84.51	-1,634.39	1,677.34	2,972.35	2,931.60	40.76	72.932	
6,550.00	6,538.54	5,369.27	4,618.09	22.32	48.52	-115.29	-1,649.27	1,696.01	3,005.40	2,964.28	41.11	73.101	
6,600.00	6,587.76	5,404.02	4,644.83	22.59	48.99	-121.65	-1,663.10	1,713.37	3,040.87	2,999.35	41.52	73.237	
6,650.00	6,636.08	5,435.89	4,669.34	22.84	49.42	-122.01	-1,675.79	1,729.29	3,078.52	3,036.64	41.88	73.504	
6,700.00	6,683.13	5,464.63	4,691.46	23.07	49.81	-119.70	-1,687.23	1,743.65	3,118.07	3,075.85	42.23	73.844	
6,750.00	6,728.55	5,490.03	4,711.00	23.29	50.15	-115.60	-1,697.35	1,756.34	3,159.26	3,116.70	42.55	74.244	
6,800.00	6,771.99	5,511.90	4,727.82	23.51	50.44	-109.96	-1,706.05	1,767.27	3,201.78	3,158.91	42.86	74.695	
6,850.00	6,813.13	5,530.07	4,741.80	23.72	50.69	-102.88	-1,713.28	1,776.34	3,245.34	3,202.18	43.16	75.186	
6,900.00	6,851.64	5,544.39	4,752.82	23.94	50.88	-94.56	-1,718.99	1,783.50	3,289.65	3,246.19	43.45	75.707	
6,950.00	6,887.25	5,554.77	4,760.80	24.16	51.02	-85.34	-1,723.12	1,788.69	3,334.38	3,290.65	43.73	76.247	
7,000.00	6,919.67	5,561.12	4,765.69	24.38	51.11	-75.80	-1,725.65	1,791.86	3,379.23	3,335.22	44.00	76.793	
7,050.00	6,948.65	5,563.39	4,767.44	24.62	51.14	-66.56	-1,726.55	1,793.00	3,423.87	3,379.60	44.27	77.337	
7,100.00	6,973.99	5,561.57	4,766.04	24.88	51.12	-58.12	-1,725.83	1,792.09	3,468.00	3,423.46	44.54	77.869	
7,150.00	6,995.49	5,555.67	4,761.50	25.18	51.04	-50.74	-1,723.48	1,789.14	3,511.29	3,466.49	44.80	78.383	
7,200.00	7,012.97	5,545.74	4,753.86	25.51	50.90	-44.49	-1,719.52	1,784.18	3,553.43	3,508.37	45.05	78.872	
7,250.00	7,026.32	5,531.85	4,743.17	25.89	50.71	-39.27	-1,713.99	1,777.24	3,594.11	3,548.81	45.31	79.331	
7,300.00	7,035.43	5,514.10	4,729.52	26.33	50.47	-34.94	-1,706.93	1,768.37	3,633.04	3,587.49	45.55	79.758	
7,350.00	7,040.22	5,492.64	4,713.00	26.84	50.18	-31.34	-1,698.38	1,757.64	3,669.92	3,624.13	45.79	80.150	
7,377.14	7,041.00	5,479.49	4,702.89	27.14	50.01	-29.65	-1,693.15	1,751.08	3,688.98	3,643.11	45.87	80.419	
7,400.00	7,041.12	5,467.98	4,694.03	27.41	49.85	-29.47	-1,688.57	1,745.32	3,704.76	3,658.83	45.93	80.661	
7,500.00	7,041.64	5,417.63	4,655.30	28.77	49.17	-28.71	-1,668.52	1,720.17	3,774.20	3,728.01	46.19	81.704	
7,600.00	7,042.16	5,367.28	4,616.56	30.39	48.49	-27.95	-1,648.48	1,695.01	3,844.33	3,797.88	46.46	82.752	
7,700.00	7,042.67	5,316.93	4,577.83	32.22	47.81	-27.22	-1,628.43	1,669.86	3,915.11	3,868.41	46.71	83.824	
7,800.00	7,043.19	5,266.58	4,539.09	34.20	47.13	-26.49	-1,608.39	1,644.70	3,986.51	3,939.57	46.94	84.925	
7,900.00	7,043.71	5,216.23	4,500.36	36.31	46.45	-25.78	-1,588.34	1,619.54	4,058.49	4,011.33	47.16	86.064	
8,000.00	7,044.23	5,165.88	4,461.62	38.52	45.77	-25.08	-1,568.30	1,594.39	4,131.02	4,083.67	47.35	87.244	
8,100.00	7,044.75	5,115.54	4,422.89	40.80	45.09	-24.40	-1,548.25	1,569.23	4,204.08	4,156.56	47.52	88.469	
8,200.00	7,045.26	5,065.19	4,384.15	43.15	44.41	-23.73	-1,528.21	1,544.07	4,277.64	4,229.97	47.67	89.740	
8,300.00	7,045.78	5,014.84	4,345.42	45.54	43.73	-23.07	-1,508.16	1,518.92	4,351.67	4,303.88	47.79	91.061	
8,400.00	7,046.30	4,964.49	4,306.68	47.97	43.06	-22.42	-1,488.12	1,493.76	4,426.14	4,378.26	47.89	92.431	
8,500.00	7,046.82	4,914.14	4,267.95	50.44	42.38	-21.79	-1,468.07	1,468.61	4,501.04	4,453.08	47.96	93.853	
8,600.00	7,047.34	4,863.79	4,229.21	52.94	41.70	-21.16	-1,448.03	1,443.45	4,576.35	4,528.34	48.01	95.325	
8,700.00	7,047.86	4,813.44	4,190.48	55.46	41.02	-20.55	-1,427.98	1,418.29	4,652.04	4,604.01	48.03	96.851	
8,800.00	7,048.37	4,763.09	4,151.74	58.00	40.34	-19.96	-1,407.94	1,393.14	4,728.10	4,680.07	48.04	98.428	
8,900.00	7,048.89	4,712.74	4,113.01	60.56	39.66	-19.37	-1,387.89	1,367.98	4,804.51	4,756.50	48.02	100.058	
9,000.00	7,049.41	4,662.39	4,074.27	63.13	38.99	-18.79	-1,367.85	1,342.82	4,881.26	4,833.28	47.98	101.739	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HNB-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	4,612.04	4,035.54	65.72	38.31	-18.23	-1,347.81	1,317.67	4,958.32	4,910.40	47.92	103.474	
9,200.00	7,050.45	4,561.70	3,996.80	68.32	37.63	-17.68	-1,327.76	1,292.51	5,035.68	4,987.84	47.84	105.260	
9,300.00	7,050.97	4,511.35	3,958.06	70.93	36.96	-17.13	-1,307.72	1,267.36	5,113.33	5,065.59	47.74	107.099	
9,400.00	7,051.48	4,461.00	3,919.33	73.55	36.28	-16.60	-1,287.67	1,242.20	5,191.26	5,143.63	47.63	108.989	
9,500.00	7,052.00	4,410.65	3,880.59	76.18	35.60	-16.08	-1,267.63	1,217.04	5,269.46	5,221.96	47.50	110.931	
9,600.00	7,052.52	4,360.30	3,841.86	78.81	34.93	-15.57	-1,247.58	1,191.89	5,347.90	5,300.55	47.36	112.923	
9,700.00	7,053.04	4,309.95	3,803.12	81.46	34.25	-15.07	-1,227.54	1,166.73	5,426.59	5,379.39	47.20	114.967	
9,800.00	7,053.56	4,259.60	3,764.39	84.10	33.58	-14.58	-1,207.49	1,141.57	5,505.51	5,458.48	47.03	117.059	
9,900.00	7,054.08	4,209.25	3,725.65	86.76	32.90	-14.09	-1,187.45	1,116.42	5,584.65	5,537.80	46.85	119.203	
10,000.00	7,054.59	4,158.90	3,686.92	89.42	32.23	-13.62	-1,167.40	1,091.26	5,664.01	5,617.35	46.66	121.394	
10,100.00	7,055.11	4,108.55	3,648.18	92.08	31.55	-13.16	-1,147.36	1,066.11	5,743.56	5,697.11	46.46	123.636	
10,200.00	7,055.63	4,058.20	3,609.45	94.75	30.88	-12.70	-1,127.31	1,040.95	5,823.31	5,777.07	46.25	125.922	
10,300.00	7,056.15	4,007.85	3,570.71	97.42	30.21	-12.25	-1,107.27	1,015.79	5,903.25	5,857.23	46.03	128.258	
10,400.00	7,056.67	3,957.51	3,531.98	100.10	29.54	-11.81	-1,087.22	990.64	5,983.37	5,937.57	45.80	130.636	
10,500.00	7,057.18	3,907.16	3,493.24	102.78	28.86	-11.38	-1,067.18	965.48	6,063.66	6,018.09	45.57	133.062	
10,600.00	7,057.70	3,856.81	3,454.51	105.46	28.19	-10.96	-1,047.14	940.33	6,144.12	6,098.78	45.33	135.528	
10,700.00	7,058.22	3,806.46	3,415.77	108.14	27.52	-10.55	-1,027.09	915.17	6,224.73	6,179.64	45.09	138.040	
10,800.00	7,058.74	3,756.11	3,377.04	110.83	26.85	-10.14	-1,007.05	890.01	6,305.50	6,260.65	44.85	140.589	
10,900.00	7,059.26	3,705.76	3,338.30	113.52	26.18	-9.74	-987.00	864.86	6,386.42	6,341.81	44.60	143.181	
11,000.00	7,059.78	3,655.41	3,299.57	116.21	25.51	-9.35	-966.96	839.70	6,467.48	6,423.12	44.36	145.805	
11,100.00	7,060.29	3,605.06	3,260.83	118.90	24.85	-8.97	-946.91	814.54	6,548.67	6,504.56	44.11	148.471	
11,200.00	7,060.81	3,554.71	3,222.10	121.60	24.18	-8.59	-926.87	789.39	6,630.00	6,586.14	43.86	151.163	
11,300.00	7,061.33	3,504.36	3,183.36	124.30	23.51	-8.22	-906.82	764.23	6,711.45	6,667.84	43.61	153.895	
11,400.00	7,061.85	3,454.01	3,144.63	127.00	22.85	-7.86	-886.78	739.08	6,793.03	6,749.66	43.37	156.646	
11,500.00	7,062.37	3,403.67	3,105.89	129.70	22.19	-7.50	-866.73	713.92	6,874.72	6,831.60	43.12	159.433	
11,600.00	7,062.89	3,353.32	3,067.16	132.40	21.52	-7.15	-846.69	688.76	6,956.53	6,913.65	42.88	162.233	
11,700.00	7,063.40	3,302.97	3,028.42	135.10	20.86	-6.80	-826.64	663.61	7,038.44	6,995.80	42.64	165.065	
11,800.00	7,063.92	3,252.62	2,989.69	137.81	20.20	-6.47	-806.60	638.45	7,120.47	7,078.06	42.41	167.901	
11,900.00	7,064.44	3,202.27	2,950.95	140.51	19.55	-6.13	-786.55	613.29	7,202.59	7,160.41	42.18	170.765	
12,000.00	7,064.96	3,151.92	2,912.22	143.22	18.89	-5.81	-766.51	588.14	7,284.82	7,242.86	41.96	173.623	
12,100.00	7,065.48	3,101.57	2,873.48	145.93	18.24	-5.49	-746.46	562.98	7,367.13	7,325.40	41.74	176.506	
12,200.00	7,066.00	3,051.22	2,834.75	148.64	17.59	-5.17	-726.42	537.83	7,449.55	7,408.01	41.53	179.369	
12,300.00	7,066.51	3,000.87	2,796.01	151.35	16.94	-4.86	-706.38	512.67	7,532.05	7,490.72	41.33	182.255	
12,400.00	7,067.03	2,950.52	2,757.28	154.06	16.29	-4.56	-686.33	487.51	7,614.64	7,573.50	41.14	185.103	
12,500.00	7,067.55	2,900.17	2,718.54	156.77	15.66	-4.26	-666.29	462.36	7,697.31	7,656.36	40.95	187.975	
12,600.00	7,068.07	2,849.83	2,679.81	159.49	14.97	-3.97	-646.24	437.20	7,780.06	7,739.27	40.79	190.754	
12,700.00	7,068.59	2,799.48	2,641.07	162.20	14.42	-3.68	-626.20	412.04	7,862.89	7,822.27	40.62	193.584	
12,800.00	7,069.11	2,749.13	2,602.33	164.92	13.87	-3.40	-606.16	386.88	7,945.88	7,905.17	40.46	196.467	
12,900.00	7,069.62	2,698.78	2,563.58	167.63	13.32	-3.13	-586.12	361.72	8,029.25	7,988.35	40.30	199.354	
13,000.00	7,070.14	2,648.43	2,524.83	170.35	12.77	-2.86	-566.08	336.56	8,112.65	8,071.87	40.14	202.246	
13,100.00	7,070.66	2,598.08	2,486.08	173.07	12.22	-2.60	-546.04	311.40	8,196.48	8,155.62	40.00	205.144	
13,200.00	7,071.18	2,547.73	2,447.33	175.78	11.67	-2.34	-526.00	286.24	8,280.65	8,239.84	39.86	208.047	
13,300.00	7,071.70	2,497.38	2,408.58	178.50	11.12	-2.08	-505.96	261.08	8,364.96	8,323.97	39.72	210.955	
13,400.00	7,072.21	2,447.03	2,369.83	181.22	10.57	-1.82	-485.92	235.92	8,449.61	8,408.45	39.58	213.868	
13,500.00	7,072.73	2,396.68	2,331.08	183.94	10.02	-1.56	-465.88	210.76	8,534.59	8,493.26	39.44	216.786	
13,600.00	7,073.25	2,346.33	2,292.33	186.66	9.47	-1.30	-445.84	185.60	8,619.62	8,578.38	39.30	219.700	
13,700.00	7,073.77	2,295.98	2,253.58	189.38	8.92	-1.04	-425.80	160.44	8,705.00	8,663.69	39.16	222.618	
13,800.00	7,074.29	2,245.63	2,214.83	192.10	8.37	-0.78	-405.76	135.28	8,790.62	8,749.24	39.02	225.536	
13,900.00	7,074.81	2,195.28	2,176.08	194.82	7.82	-0.52	-385.72	110.12	8,876.60	8,835.32	38.88	228.454	
14,000.00	7,075.32	2,144.93	2,137.33	197.54	7.27	-0.26	-365.68	84.96	8,962.58	8,921.14	38.74	231.372	
14,100.00	7,075.84	2,094.58	2,098.58	200.27	6.72	-0.00	-345.64	59.80	9,048.85	9,007.25	38.60	234.290	
14,200.00	7,076.36	2,044.23	2,059.83	202.99	6.17	0.26	-325.60	34.64	9,135.40	9,093.65	38.46	237.208	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HNB-02-07-65 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,300.00	7,076.88	2,600.00	2,483.88	205.71	13.43	-2.61	-549.71	316.05	9,222.23	9,180.31	41.91	220.038		
14,400.00	7,077.40	2,600.00	2,483.88	208.44	13.43	-2.61	-549.71	316.05	9,309.31	9,267.25	42.06	221.312		
14,500.00	7,077.92	2,551.32	2,444.25	211.16	13.18	-2.38	-532.08	293.93	9,396.17	9,354.27	41.91	224.216		
14,600.00	7,078.43	2,539.55	2,434.61	213.88	13.13	-2.32	-527.89	288.67	9,483.51	9,441.53	41.98	225.885		
14,700.00	7,078.95	2,500.00	2,401.97	216.61	12.94	-2.14	-513.96	271.19	9,571.20	9,529.30	41.89	228.467		
14,800.00	7,079.47	2,500.00	2,401.97	219.33	12.94	-2.14	-513.96	271.19	9,658.81	9,616.77	42.04	229.751		
14,900.00	7,079.99	2,500.00	2,401.97	222.06	12.94	-2.14	-513.96	271.19	9,746.66	9,704.48	42.19	231.041		
15,000.00	7,080.51	2,500.00	2,401.97	224.78	12.94	-2.14	-513.96	271.19	9,834.75	9,792.42	42.33	232.336		
15,100.00	7,081.03	2,500.00	2,401.97	227.51	12.94	-2.14	-513.96	271.19	9,923.06	9,880.59	42.47	233.636		

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-157.38	-267.04	-111.28	289.31				
100.00	100.00	97.00	97.00	0.48	0.47	-157.38	-267.04	-111.28	289.30	288.35	0.95	304.298	
200.00	200.00	197.00	197.00	1.28	1.26	-157.38	-267.04	-111.28	289.30	286.76	2.54	113.870	
300.00	300.00	297.00	297.00	1.77	1.75	-157.38	-267.04	-111.28	289.30	285.78	3.52	82.127	
400.00	400.00	397.00	397.00	2.15	2.14	-157.38	-267.04	-111.28	289.30	285.01	4.29	67.442	
500.00	500.00	497.00	497.00	2.48	2.47	-157.38	-267.04	-111.28	289.30	284.36	4.94	58.516	
600.00	600.00	597.00	597.00	2.77	2.76	-157.38	-267.04	-111.28	289.30	283.77	5.53	52.352	
700.00	700.00	697.00	697.00	3.03	3.02	-157.38	-267.04	-111.28	289.30	283.24	6.06	47.765	
800.00	800.00	794.67	794.66	3.28	3.36	-157.68	-267.97	-110.03	289.69	283.20	6.49	44.659	
900.00	900.00	892.05	891.91	3.51	4.18	-158.61	-270.87	-106.11	290.95	283.98	6.98	41.699	
1,000.00	999.98	988.99	988.50	3.78	4.92	-11.35	-275.70	-99.58	291.54	284.04	7.50	38.848	
1,083.35	1,083.22	1,069.25	1,068.22	4.28	5.48	-13.25	-281.17	-92.18	290.43	282.20	8.23	35.271	
1,100.00	1,099.84	1,085.21	1,084.05	4.29	5.59	-13.69	-282.42	-90.50	290.11	281.81	8.30	34.964	
1,190.44	1,190.10	1,171.47	1,169.35	4.46	6.15	-16.35	-290.06	-80.17	289.26	280.49	8.77	32.978 CC	
1,200.00	1,199.64	1,180.54	1,178.29	4.47	6.21	-16.66	-290.95	-78.96	289.27	280.45	8.82	32.783 ES	
1,300.00	1,299.43	1,274.85	1,271.00	4.70	6.79	-20.15	-301.23	-65.08	290.71	281.25	9.46	30.731	
1,400.00	1,399.23	1,367.96	1,361.92	4.95	7.34	-24.07	-313.15	-48.97	294.95	284.77	10.18	28.980	
1,500.00	1,499.02	1,459.68	1,450.81	5.20	7.87	-28.26	-326.60	-30.79	302.50	291.53	10.97	27.587	
1,600.00	1,598.82	1,549.88	1,537.47	5.47	8.39	-32.58	-341.47	-10.68	313.79	301.99	11.80	26.595	
1,700.00	1,698.61	1,638.41	1,621.71	5.75	8.88	-36.89	-357.64	11.17	329.14	316.49	12.65	26.021	
1,800.00	1,798.41	1,725.15	1,703.41	6.04	9.36	-41.06	-374.98	34.60	348.72	335.24	13.49	25.857 SF	
1,900.00	1,898.20	1,810.00	1,782.44	6.34	9.82	-44.98	-393.35	59.43	372.57	358.28	14.29	26.070	
2,000.00	1,998.00	1,892.89	1,858.72	6.64	10.26	-48.61	-412.64	85.50	400.58	385.53	15.05	26.617	
2,100.00	2,097.79	1,973.74	1,932.19	6.94	10.69	-51.90	-432.70	112.62	432.60	416.84	15.76	27.453	
2,200.00	2,197.59	2,052.51	2,002.82	7.26	11.10	-54.86	-453.43	140.64	468.39	451.98	16.41	28.537	
2,300.00	2,297.38	2,129.15	2,070.61	7.57	11.50	-57.50	-474.71	169.39	507.73	490.71	17.02	29.830	
2,400.00	2,397.18	2,200.00	2,132.39	7.89	11.87	-59.73	-495.32	197.26	550.38	532.84	17.53	31.389	
2,500.00	2,496.97	2,276.02	2,197.71	8.22	12.26	-61.91	-518.44	228.51	596.05	577.94	18.11	32.905	
2,600.00	2,596.77	2,346.23	2,257.11	8.54	12.61	-63.74	-540.71	258.60	644.58	625.97	18.61	34.638	
2,700.00	2,696.57	2,414.31	2,313.81	8.87	12.95	-65.36	-563.12	288.89	695.74	676.67	19.08	36.470	
2,800.00	2,796.36	2,480.27	2,367.88	9.21	13.28	-66.79	-585.60	319.27	749.36	729.84	19.52	38.387	
2,900.00	2,896.16	2,544.16	2,419.41	9.54	13.58	-68.05	-608.06	349.63	805.25	785.32	19.94	40.388	
3,000.00	2,995.95	2,600.00	2,463.74	9.87	13.87	-69.07	-628.25	376.92	863.31	843.04	20.27	42.597	
3,100.00	3,095.75	2,668.70	2,517.38	10.21	14.14	-70.22	-653.78	411.43	923.27	902.61	20.67	44.674	
3,200.00	3,195.54	2,746.48	2,577.71	10.55	14.93	-71.39	-682.98	450.89	984.13	962.91	21.22	46.381	
3,300.00	3,295.34	2,824.26	2,638.04	10.89	15.93	-72.42	-712.18	490.36	1,045.22	1,023.50	21.72	48.129	
3,400.00	3,395.13	2,902.04	2,698.37	11.23	16.93	-73.35	-741.38	529.83	1,106.51	1,084.27	22.24	49.754	
3,500.00	3,494.93	2,979.82	2,758.69	11.58	17.92	-74.18	-770.58	569.29	1,167.97	1,145.19	22.78	51.271	
3,600.00	3,594.72	3,057.60	2,819.02	11.92	18.93	-74.93	-799.78	608.76	1,229.56	1,206.24	23.33	52.714	
3,700.00	3,694.52	3,135.38	2,879.35	12.26	19.94	-75.60	-828.98	648.22	1,291.28	1,267.41	23.87	54.086	
3,800.00	3,794.31	3,213.16	2,939.68	12.61	20.95	-76.22	-858.18	687.69	1,353.10	1,328.67	24.43	55.386	
3,900.00	3,894.11	3,290.94	3,000.01	12.96	21.96	-76.79	-887.38	727.16	1,415.02	1,390.02	24.99	56.615	
4,000.00	3,993.90	3,368.72	3,060.34	13.30	22.98	-77.31	-916.58	766.62	1,477.01	1,451.44	25.56	57.776	
4,100.00	4,093.70	3,446.50	3,120.67	13.65	24.00	-77.78	-945.78	806.09	1,539.07	1,512.93	26.14	58.878	
4,200.00	4,193.49	3,524.28	3,181.00	14.00	25.02	-78.22	-974.98	845.55	1,601.19	1,574.47	26.72	59.924	
4,300.00	4,293.29	3,602.06	3,241.32	14.35	26.05	-78.63	-1,004.18	885.02	1,663.37	1,636.06	27.31	60.918	
4,400.00	4,393.08	3,679.84	3,301.65	14.70	27.07	-79.01	-1,033.38	924.49	1,725.60	1,697.70	27.90	61.856	
4,500.00	4,492.88	3,757.63	3,361.98	15.05	28.10	-79.37	-1,062.58	963.95	1,787.87	1,759.37	28.49	62.747	
4,600.00	4,592.68	3,835.41	3,422.31	15.40	29.13	-79.70	-1,091.78	1,003.42	1,850.18	1,821.08	29.09	63.595	
4,700.00	4,692.47	3,913.19	3,482.64	15.75	30.16	-80.00	-1,120.98	1,042.89	1,912.52	1,882.82	29.70	64.401	
4,800.00	4,792.27	3,990.97	3,542.97	16.10	31.19	-80.29	-1,150.18	1,082.35	1,974.90	1,944.59	30.31	65.166	
4,900.00	4,892.06	4,068.75	3,603.30	16.45	32.23	-80.56	-1,179.38	1,121.82	2,037.30	2,006.38	30.92	65.892	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,146.53	3,663.62	16.81	33.26	-80.82	-1,208.58	1,161.28	2,099.74	2,068.20	31.54	66.584	
5,100.00	5,091.85	4,224.31	3,723.95	17.16	34.29	-81.06	-1,237.78	1,200.75	2,162.19	2,130.04	32.15	67.243	
5,200.00	5,191.45	4,302.09	3,784.28	17.51	35.33	-81.29	-1,266.98	1,240.22	2,224.67	2,191.89	32.78	67.871	
5,300.00	5,291.24	4,379.87	3,844.61	17.87	36.37	-81.50	-1,296.18	1,279.68	2,287.17	2,253.77	33.40	68.468	
5,400.00	5,391.04	4,457.65	3,904.94	18.22	37.40	-81.71	-1,325.38	1,319.15	2,349.69	2,315.65	34.04	69.037	
5,500.00	5,490.83	4,535.43	3,965.27	18.57	38.44	-81.90	-1,354.58	1,358.62	2,412.23	2,377.56	34.67	69.580	
5,600.00	5,590.63	4,613.21	4,025.60	18.93	39.48	-82.08	-1,383.78	1,398.08	2,474.78	2,439.47	35.30	70.099	
5,700.00	5,690.42	4,690.99	4,085.92	19.28	40.52	-82.26	-1,412.98	1,437.55	2,537.34	2,501.40	35.94	70.593	
5,800.00	5,790.22	4,768.77	4,146.25	19.64	41.56	-82.43	-1,442.18	1,477.01	2,599.92	2,563.34	36.59	71.065	
5,900.00	5,890.01	4,846.55	4,206.58	19.99	42.59	-82.58	-1,471.38	1,516.48	2,662.52	2,625.29	37.23	71.515	
6,000.00	5,989.81	4,924.33	4,266.91	20.35	43.63	-82.73	-1,500.58	1,555.95	2,725.12	2,687.24	37.88	71.946	
6,100.00	6,089.60	5,002.11	4,327.24	20.70	44.67	-82.88	-1,529.78	1,595.41	2,787.74	2,749.21	38.53	72.358	
6,200.00	6,189.40	5,079.89	4,387.57	21.06	45.72	-83.02	-1,558.98	1,634.88	2,850.36	2,811.18	39.18	72.751	
6,300.00	6,289.19	5,157.67	4,447.90	21.41	46.76	-83.15	-1,588.19	1,674.34	2,913.00	2,873.16	39.83	73.127	
6,400.00	6,388.99	5,235.45	4,508.23	21.77	47.80	-83.28	-1,617.39	1,713.81	2,975.64	2,935.15	40.49	73.487	
6,498.43	6,487.22	5,312.01	4,567.61	22.12	48.82	-83.40	-1,646.13	1,752.66	3,037.31	2,996.17	41.14	73.828	
6,500.00	6,488.79	5,313.23	4,568.55	22.12	48.84	-85.40	-1,646.58	1,753.28	3,038.30	2,997.15	41.15	73.833	
6,550.00	6,538.54	5,350.81	4,597.70	22.32	49.34	-116.29	-1,660.69	1,772.35	3,071.04	3,029.53	41.51	73.984	
6,600.00	6,587.76	5,385.75	4,624.80	22.59	49.81	-122.77	-1,673.81	1,790.07	3,106.26	3,064.34	41.92	74.099	
6,650.00	6,636.08	5,417.77	4,649.64	22.84	50.24	-123.26	-1,685.83	1,806.32	3,143.71	3,101.43	42.29	74.345	
6,700.00	6,683.13	5,446.63	4,672.02	23.07	50.63	-121.10	-1,696.66	1,820.96	3,183.13	3,140.50	42.63	74.667	
6,750.00	6,728.55	5,472.11	4,691.78	23.29	50.97	-117.13	-1,706.23	1,833.89	3,224.23	3,181.27	42.96	75.053	
6,800.00	6,771.99	5,494.01	4,708.77	23.51	51.26	-111.60	-1,714.45	1,845.01	3,266.73	3,223.46	43.27	75.494	
6,850.00	6,813.13	5,512.18	4,722.86	23.72	51.50	-104.60	-1,721.27	1,854.22	3,310.33	3,266.76	43.57	75.979	
6,900.00	6,851.64	5,526.46	4,733.94	23.94	51.70	-96.25	-1,726.64	1,861.47	3,354.71	3,310.86	43.85	76.498	
6,950.00	6,887.25	5,536.77	4,741.93	24.16	51.83	-86.91	-1,730.50	1,866.70	3,399.58	3,355.45	44.13	77.041	
7,000.00	6,919.67	5,543.00	4,746.77	24.38	51.92	-77.13	-1,732.84	1,869.86	3,444.60	3,400.21	44.39	77.595	
7,050.00	6,948.65	5,545.12	4,748.42	24.62	51.95	-67.59	-1,733.64	1,870.94	3,489.47	3,444.82	44.65	78.150	
7,100.00	6,973.99	5,543.12	4,746.86	24.88	51.92	-58.85	-1,732.89	1,869.92	3,533.85	3,488.95	44.90	78.699	
7,150.00	6,995.49	5,537.00	4,742.11	25.18	51.84	-51.22	-1,730.59	1,866.82	3,577.44	3,532.29	45.15	79.232	
7,200.00	7,012.97	5,526.81	4,734.21	25.51	51.70	-44.76	-1,726.77	1,861.65	3,619.90	3,574.51	45.39	79.743	
7,250.00	7,026.32	5,512.63	4,723.21	25.89	51.51	-39.39	-1,721.44	1,854.45	3,660.93	3,615.30	45.63	80.228	
7,300.00	7,035.43	5,494.57	4,709.21	26.33	51.27	-34.95	-1,714.66	1,845.29	3,700.23	3,654.37	45.86	80.681	
7,350.00	7,040.22	5,472.77	4,692.29	26.84	50.98	-31.29	-1,706.48	1,834.23	3,737.50	3,691.41	46.09	81.099	
7,377.14	7,041.00	5,459.42	4,681.95	27.14	50.80	-29.57	-1,701.47	1,827.46	3,756.77	3,710.61	46.16	81.383	
7,400.00	7,041.12	5,447.75	4,672.89	27.41	50.64	-29.40	-1,697.08	1,821.53	3,772.73	3,726.51	46.21	81.637	
7,500.00	7,041.64	5,396.67	4,633.27	28.77	49.96	-28.64	-1,677.91	1,795.61	3,842.92	3,796.47	46.45	82.727	
7,600.00	7,042.16	5,345.59	4,593.65	30.39	49.27	-27.91	-1,658.73	1,769.70	3,913.75	3,867.05	46.69	83.817	
7,700.00	7,042.67	5,294.51	4,554.04	32.22	48.59	-27.18	-1,639.56	1,743.78	3,985.17	3,938.24	46.92	84.927	
7,800.00	7,043.19	5,243.44	4,514.42	34.20	47.90	-26.47	-1,620.38	1,717.86	4,057.15	4,010.01	47.14	86.061	
7,900.00	7,043.71	5,192.36	4,474.80	36.31	47.22	-25.78	-1,601.21	1,691.95	4,129.68	4,082.33	47.34	87.228	
8,000.00	7,044.23	5,141.28	4,435.19	38.52	46.54	-25.09	-1,582.03	1,666.03	4,202.70	4,155.18	47.53	88.431	
8,100.00	7,044.75	5,090.20	4,395.57	40.80	45.85	-24.42	-1,562.86	1,640.11	4,276.21	4,228.53	47.69	89.674	
8,200.00	7,045.26	5,039.13	4,355.95	43.15	45.17	-23.77	-1,543.68	1,614.20	4,350.18	4,302.35	47.83	90.959	
8,300.00	7,045.78	4,988.05	4,316.33	45.54	44.49	-23.12	-1,524.51	1,588.28	4,424.58	4,376.64	47.94	92.289	
8,400.00	7,046.30	4,936.97	4,276.72	47.97	43.80	-22.49	-1,505.33	1,562.36	4,499.39	4,451.35	48.04	93.663	
8,500.00	7,046.82	4,885.89	4,237.10	50.44	43.12	-21.87	-1,486.16	1,536.44	4,574.60	4,526.49	48.11	95.085	
8,600.00	7,047.34	4,834.82	4,197.48	52.94	42.44	-21.27	-1,466.98	1,510.53	4,650.17	4,602.01	48.16	96.554	
8,700.00	7,047.86	4,783.74	4,157.87	55.46	41.76	-20.67	-1,447.80	1,484.61	4,726.11	4,677.92	48.19	98.071	
8,800.00	7,048.37	4,732.66	4,118.25	58.00	41.07	-20.09	-1,428.63	1,458.69	4,802.38	4,754.18	48.20	99.635	
8,900.00	7,048.89	4,681.59	4,078.63	60.56	40.39	-19.52	-1,409.45	1,432.78	4,878.97	4,830.79	48.19	101.249	
9,000.00	7,049.41	4,630.51	4,039.01	63.13	39.71	-18.96	-1,390.28	1,406.86	4,955.88	4,907.72	48.16	102.910	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	4,579.43	3,999.40	65.72	39.03	-18.41	-1,371.10	1,380.94	5,033.07	4,984.96	48.11	104.620	
9,200.00	7,050.45	4,528.35	3,959.78	68.32	38.35	-17.87	-1,351.93	1,355.03	5,110.55	5,062.50	48.04	106.378	
9,300.00	7,050.97	4,477.28	3,920.16	70.93	37.66	-17.35	-1,332.75	1,329.11	5,188.29	5,140.33	47.96	108.184	
9,400.00	7,051.48	4,426.20	3,880.55	73.55	36.98	-16.83	-1,313.58	1,303.19	5,266.29	5,218.43	47.86	110.038	
9,500.00	7,052.00	4,375.12	3,840.93	76.18	36.30	-16.32	-1,294.40	1,277.27	5,344.53	5,296.79	47.74	111.939	
9,600.00	7,052.52	4,324.04	3,801.31	78.81	35.62	-15.82	-1,275.23	1,251.36	5,423.01	5,375.39	47.62	113.888	
9,700.00	7,053.04	4,272.97	3,761.69	81.46	34.94	-15.34	-1,256.05	1,225.44	5,501.71	5,454.23	47.48	115.883	
9,800.00	7,053.56	4,221.89	3,722.08	84.10	34.26	-14.86	-1,236.88	1,199.52	5,580.63	5,533.30	47.32	117.924	
9,900.00	7,054.08	4,170.81	3,682.46	86.76	33.58	-14.39	-1,217.70	1,173.61	5,659.75	5,612.59	47.16	120.011	
10,000.00	7,054.59	4,119.73	3,642.84	89.42	32.90	-13.93	-1,198.52	1,147.69	5,739.07	5,692.08	46.99	122.144	
10,100.00	7,055.11	4,068.66	3,603.23	92.08	32.22	-13.48	-1,179.35	1,121.77	5,818.58	5,771.77	46.80	124.320	
10,200.00	7,055.63	4,017.58	3,563.61	94.75	31.55	-13.04	-1,160.17	1,095.86	5,898.26	5,851.65	46.61	126.541	
10,300.00	7,056.15	3,966.50	3,523.99	97.42	30.87	-12.61	-1,141.00	1,069.94	5,978.13	5,931.71	46.41	128.803	
10,400.00	7,056.67	3,915.42	3,484.37	100.10	30.19	-12.18	-1,121.82	1,044.02	6,058.16	6,011.95	46.21	131.109	
10,500.00	7,057.18	3,864.35	3,444.76	102.78	29.51	-11.77	-1,102.65	1,018.10	6,138.35	6,092.35	46.00	133.454	
10,600.00	7,057.70	3,813.27	3,405.14	105.46	28.84	-11.36	-1,083.47	992.19	6,218.69	6,172.92	45.78	135.842	
10,700.00	7,058.22	3,762.19	3,365.52	108.14	28.16	-10.96	-1,064.30	966.27	6,299.19	6,253.63	45.56	138.265	
10,800.00	7,058.74	3,711.11	3,325.91	110.83	27.49	-10.56	-1,045.12	940.35	6,379.83	6,334.49	45.33	140.729	
10,900.00	7,059.26	3,660.04	3,286.29	113.52	26.81	-10.18	-1,025.95	914.44	6,460.60	6,415.49	45.11	143.226	
11,000.00	7,059.78	3,608.96	3,246.67	116.21	26.14	-9.80	-1,006.77	888.52	6,541.51	6,496.63	44.88	145.761	
11,100.00	7,060.29	3,557.88	3,207.05	118.90	25.46	-9.43	-987.60	862.60	6,622.54	6,577.89	44.65	148.324	
11,200.00	7,060.81	3,506.80	3,167.44	121.60	24.79	-9.06	-968.42	836.69	6,703.70	6,659.28	44.42	150.923	
11,300.00	7,061.33	3,455.73	3,127.82	124.30	24.12	-8.70	-949.25	810.77	6,784.98	6,740.79	44.19	153.545	
11,400.00	7,061.85	3,404.65	3,088.20	127.00	23.45	-8.35	-930.07	784.85	6,866.37	6,822.41	43.96	156.202	
11,500.00	7,062.37	3,353.57	3,048.59	129.70	22.78	-8.01	-910.89	758.93	6,947.87	6,904.14	43.73	158.874	
11,600.00	7,062.89	3,302.50	3,008.97	132.40	22.11	-7.67	-891.72	733.02	7,029.48	6,985.97	43.50	161.579	
11,700.00	7,063.40	3,251.42	2,969.35	135.10	21.45	-7.33	-872.54	707.10	7,111.19	7,067.90	43.28	164.292	
11,800.00	7,063.92	3,200.34	2,929.73	137.81	20.78	-7.01	-853.37	681.18	7,192.99	7,149.93	43.06	167.034	
11,900.00	7,064.44	3,149.26	2,890.12	140.51	20.12	-6.69	-834.19	655.27	7,274.90	7,232.05	42.85	169.776	
12,000.00	7,064.96	3,098.19	2,850.50	143.22	19.45	-6.37	-815.02	629.35	7,356.90	7,314.26	42.64	172.543	
12,100.00	7,065.48	3,047.11	2,810.88	145.93	18.79	-6.06	-795.84	603.43	7,438.99	7,396.55	42.44	175.302	
12,200.00	7,066.00	2,996.03	2,771.27	148.64	18.14	-5.76	-776.67	577.52	7,521.16	7,478.93	42.23	178.081	
12,300.00	7,066.51	2,944.95	2,731.65	151.35	17.48	-5.46	-757.49	551.60	7,603.42	7,561.38	42.04	180.842	
12,400.00	7,067.03	2,893.88	2,692.03	154.06	16.82	-5.16	-738.32	525.68	7,685.76	7,643.90	41.86	183.617	
12,500.00	7,067.55	2,842.80	2,652.42	156.77	16.17	-4.87	-719.14	499.77	7,768.18	7,726.50	41.68	186.363	
12,600.00	7,068.07	2,791.72	2,612.80	159.49	15.52	-4.59	-699.97	473.85	7,850.67	7,809.16	41.51	189.113	
12,700.00	7,068.59	2,740.64	2,573.18	162.20	14.86	-4.31	-680.79	447.93	7,933.24	7,891.88	41.36	191.806	
12,800.00	7,069.11	2,689.57	2,533.56	164.92	14.28	-4.04	-661.61	422.01	8,015.88	7,974.67	41.21	194.510	
12,900.00	7,069.62	2,638.49	2,493.94	167.63	13.63	-3.76	-642.43	405.43	8,098.61	8,057.42	41.19	196.600	
13,000.00	7,070.14	2,587.41	2,454.32	170.35	13.00	-3.48	-623.25	405.43	8,181.67	8,140.28	41.38	197.706	
13,100.00	7,070.66	2,536.33	2,414.70	173.07	12.37	-3.20	-604.07	388.44	8,264.85	8,223.50	41.35	199.893	
13,200.00	7,071.18	2,485.25	2,375.08	175.78	11.74	-2.92	-584.89	376.92	8,348.41	8,307.03	41.38	201.739	
13,300.00	7,071.70	2,434.17	2,335.46	178.50	11.11	-2.64	-565.71	376.92	8,432.22	8,390.65	41.56	202.876	
13,400.00	7,072.21	2,383.09	2,295.84	181.22	10.48	-2.36	-546.53	376.92	8,516.38	8,474.63	41.74	204.027	
13,500.00	7,072.73	2,332.01	2,256.22	183.94	9.85	-2.08	-527.35	376.92	8,600.87	8,558.96	41.92	205.190	
13,600.00	7,073.25	2,280.93	2,216.60	186.66	9.22	-1.80	-508.17	354.82	8,685.27	8,643.50	41.77	207.949	
13,700.00	7,073.77	2,229.85	2,176.98	189.38	8.59	-1.52	-488.99	348.47	8,770.13	8,728.28	41.85	209.585	
13,800.00	7,074.29	2,178.77	2,137.36	192.10	7.96	-1.24	-469.81	328.54	8,855.41	8,813.68	41.73	212.215	
13,900.00	7,074.81	2,127.69	2,097.74	194.82	7.33	-0.96	-450.63	328.54	8,940.63	8,898.73	41.90	213.403	
14,000.00	7,075.32	2,076.61	2,058.12	197.54	6.70	-0.68	-431.45	328.54	9,026.15	8,984.09	42.06	214.602	
14,100.00	7,075.84	2,025.53	2,018.50	200.27	6.07	-0.40	-412.27	328.54	9,111.97	9,069.75	42.22	215.810	
14,200.00	7,076.36	1,974.45	1,978.88	202.99	5.44	-0.12	-393.09	328.54	9,198.08	9,155.70	42.38	217.027	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 6Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	2,500.00	2,383.88	205.71	13.38	-3.08	-592.46	328.54	9,284.47	9,241.93	42.54	218.253	
14,400.00	7,077.40	2,454.07	2,346.51	208.44	13.14	-2.87	-576.58	307.08	9,370.69	9,328.28	42.41	220.979	
14,500.00	7,077.92	2,442.14	2,336.73	211.16	13.09	-2.81	-572.51	301.59	9,457.35	9,414.87	42.49	222.597	
14,600.00	7,078.43	2,400.00	2,301.97	213.88	12.88	-2.63	-558.35	282.44	9,544.41	9,502.03	42.38	225.185	
14,700.00	7,078.95	2,400.00	2,301.97	216.61	12.88	-2.63	-558.35	282.44	9,631.36	9,588.83	42.54	226.424	
14,800.00	7,079.47	2,400.00	2,301.97	219.33	12.88	-2.63	-558.35	282.44	9,718.57	9,675.88	42.69	227.669	
14,900.00	7,079.99	2,400.00	2,301.97	222.06	12.88	-2.63	-558.35	282.44	9,806.01	9,763.18	42.84	228.922	
15,000.00	7,080.51	2,400.00	2,301.97	224.78	12.88	-2.63	-558.35	282.44	9,893.70	9,850.71	42.98	230.180	
15,100.00	7,081.03	2,400.00	2,301.97	227.51	12.88	-2.63	-558.35	282.44	9,981.61	9,938.48	43.13	231.443	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-85.56	6.48	-83.39	83.64				
100.00	100.00	100.00	100.00	0.48	0.48	-85.56	6.48	-83.39	83.64	82.67	0.97	86.657	
200.00	200.00	200.00	200.00	1.28	1.28	-85.56	6.48	-83.39	83.64	81.08	2.56	32.613	
300.00	300.00	300.00	300.00	1.77	1.77	-85.56	6.48	-83.39	83.64	80.10	3.54	23.646	
400.00	400.00	400.00	400.00	2.15	2.15	-85.56	6.48	-83.39	83.64	79.34	4.30	19.446	
500.00	500.00	500.00	500.00	2.48	2.48	-85.56	6.48	-83.39	83.64	78.69	4.95	16.884	CC
500.05	500.05	500.05	500.05	2.48	2.48	-85.56	6.48	-83.39	83.64	78.69	4.95	16.883	
600.00	600.00	599.95	599.93	2.77	2.83	-86.75	4.74	-83.53	83.66	78.21	5.46	15.333	
700.00	700.00	699.65	699.49	3.03	3.83	-90.31	-0.46	-83.95	83.96	77.98	5.98	14.040	ES
800.00	800.00	798.88	798.34	3.28	4.65	-96.10	-9.05	-84.65	85.15	78.63	6.52	13.063	
900.00	900.00	897.39	896.11	3.51	5.36	-103.75	-20.95	-85.62	88.23	81.07	7.17	12.314	
1,000.00	999.98	995.21	992.74	3.78	6.02	36.86	-36.08	-86.85	92.93	84.93	8.00	11.619	
1,083.35	1,083.22	1,076.79	1,072.92	4.28	6.27	30.26	-51.10	-88.08	97.27	88.43	8.84	10.999	
1,100.00	1,099.84	1,093.28	1,089.10	4.29	6.31	29.02	-54.24	-88.33	98.14	89.20	8.94	10.974	
1,200.00	1,199.64	1,192.32	1,186.32	4.47	6.57	22.06	-73.15	-89.87	104.28	94.57	9.71	10.735	
1,300.00	1,299.43	1,291.37	1,283.53	4.70	6.86	15.95	-92.05	-91.41	111.80	101.29	10.51	10.633	
1,400.00	1,399.23	1,390.41	1,380.74	4.95	7.17	10.65	-110.95	-92.95	120.43	109.14	11.29	10.664	
1,500.00	1,499.02	1,489.46	1,477.95	5.20	7.50	6.08	-129.86	-94.49	129.95	117.90	12.05	10.781	
1,600.00	1,598.82	1,588.50	1,575.16	5.47	7.84	2.15	-148.76	-96.03	140.19	127.39	12.80	10.952	
1,700.00	1,698.61	1,687.54	1,672.37	5.75	8.19	-1.23	-167.67	-97.57	150.99	137.45	13.54	11.154	
1,800.00	1,798.41	1,786.59	1,769.59	6.04	8.55	-4.16	-186.57	-99.11	162.24	147.98	14.27	11.372	
1,900.00	1,898.20	1,885.63	1,866.80	6.34	8.92	-6.70	-205.47	-100.65	173.87	158.87	14.99	11.597	
2,000.00	1,998.00	1,984.68	1,964.01	6.64	9.30	-8.92	-224.38	-102.19	185.78	170.07	15.72	11.821	
2,100.00	2,097.79	2,083.72	2,061.22	6.94	9.69	-10.88	-243.28	-103.73	197.94	181.51	16.44	12.041	
2,200.00	2,197.59	2,182.77	2,158.43	7.26	10.08	-12.60	-262.18	-105.27	210.31	193.14	17.16	12.254	
2,300.00	2,297.38	2,281.81	2,255.64	7.57	10.48	-14.14	-281.09	-106.81	222.84	204.95	17.89	12.459	
2,400.00	2,397.18	2,380.86	2,352.86	7.89	10.88	-15.51	-299.99	-108.35	235.51	216.90	18.61	12.655	
2,500.00	2,496.97	2,479.90	2,450.07	8.22	11.29	-16.74	-318.89	-109.89	248.30	228.96	19.34	12.841	
2,600.00	2,596.77	2,578.95	2,547.28	8.54	11.71	-17.85	-337.80	-111.43	261.19	241.12	20.06	13.018	
2,700.00	2,696.57	2,677.99	2,644.49	8.87	12.12	-18.85	-356.70	-112.96	274.17	253.38	20.79	13.186	
2,800.00	2,796.36	2,777.04	2,741.70	9.21	12.54	-19.77	-375.60	-114.50	287.22	265.70	21.52	13.345	
2,900.00	2,896.16	2,876.08	2,838.91	9.54	12.96	-20.60	-394.51	-116.04	300.34	278.09	22.26	13.496	
3,000.00	2,995.95	2,975.12	2,936.13	9.87	13.39	-21.37	-413.41	-117.58	313.52	290.53	22.99	13.638	
3,100.00	3,095.75	3,074.17	3,033.34	10.21	13.81	-22.07	-432.32	-119.12	326.75	303.03	23.72	13.774	
3,200.00	3,195.54	3,173.21	3,130.55	10.55	14.24	-22.72	-451.22	-120.66	340.02	315.57	24.46	13.902	
3,300.00	3,295.34	3,272.26	3,227.76	10.89	14.67	-23.32	-470.12	-122.20	353.34	328.14	25.20	14.024	
3,400.00	3,395.13	3,371.30	3,324.97	11.23	15.11	-23.87	-489.03	-123.74	366.68	340.75	25.93	14.139	
3,500.00	3,494.93	3,470.35	3,422.18	11.58	15.54	-24.39	-507.93	-125.28	380.06	353.39	26.67	14.249	
3,600.00	3,594.72	3,569.39	3,519.40	11.92	15.98	-24.87	-526.83	-126.82	393.47	366.06	27.41	14.353	
3,700.00	3,694.52	3,668.44	3,616.61	12.26	16.42	-25.32	-545.74	-128.36	406.91	378.75	28.15	14.453	
3,800.00	3,794.31	3,767.48	3,713.82	12.61	16.85	-25.74	-564.64	-129.90	420.36	391.47	28.90	14.547	
3,900.00	3,894.11	3,866.53	3,811.03	12.96	17.30	-26.14	-583.54	-131.44	433.84	404.20	29.64	14.637	
4,000.00	3,993.90	3,965.57	3,908.24	13.30	17.74	-26.51	-602.45	-132.98	447.34	416.95	30.38	14.723	
4,100.00	4,093.70	4,064.61	4,005.46	13.65	18.18	-26.86	-621.35	-134.52	460.85	429.72	31.13	14.805	
4,200.00	4,193.49	4,163.66	4,102.67	14.00	18.62	-27.19	-640.25	-136.06	474.38	442.51	31.87	14.884	
4,300.00	4,293.29	4,262.70	4,199.88	14.35	19.07	-27.50	-659.16	-137.60	487.93	455.31	32.62	14.959	
4,400.00	4,393.08	4,361.75	4,297.09	14.70	19.51	-27.79	-678.06	-139.14	501.48	468.12	33.36	15.030	
4,500.00	4,492.88	4,460.79	4,394.30	15.05	19.96	-28.07	-696.97	-140.68	515.05	480.94	34.11	15.099	
4,600.00	4,592.68	4,559.84	4,491.51	15.40	20.40	-28.34	-715.87	-142.21	528.64	493.78	34.86	15.165	
4,700.00	4,692.47	4,658.88	4,588.73	15.75	20.85	-28.59	-734.77	-143.75	542.23	506.62	35.61	15.228	
4,800.00	4,792.27	4,757.93	4,685.94	16.10	21.30	-28.83	-753.68	-145.29	555.83	519.47	36.36	15.289	
4,900.00	4,892.06	4,856.97	4,783.15	16.45	21.75	-29.06	-772.58	-146.83	569.44	532.34	37.10	15.347	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft		
Survey Program:		0-MWD										Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor		
5,000.00	4,991.86	4,956.02	4,880.36	16.81	22.20	-29.27	-791.48	-148.37	583.06	545.21	37.85	15.403			
5,100.00	5,091.65	5,055.06	4,977.57	17.16	22.65	-29.48	-810.39	-149.91	596.69	558.08	38.60	15.457			
5,200.00	5,191.45	5,154.11	5,074.78	17.51	23.10	-29.68	-829.29	-151.45	610.32	570.97	39.35	15.508			
5,300.00	5,291.24	5,253.15	5,172.00	17.87	23.55	-29.87	-848.19	-152.99	623.96	583.86	40.11	15.558			
5,400.00	5,391.04	5,352.19	5,269.21	18.22	24.00	-30.05	-867.10	-154.53	637.61	596.75	40.86	15.606			
5,500.00	5,490.83	5,451.24	5,366.42	18.57	24.45	-30.22	-886.00	-156.07	651.26	609.66	41.61	15.652			
5,600.00	5,590.63	5,550.28	5,463.63	18.93	24.90	-30.39	-904.91	-157.61	664.92	622.56	42.36	15.697			
5,700.00	5,690.42	5,649.33	5,560.84	19.28	25.36	-30.55	-923.81	-159.15	678.59	635.48	43.11	15.740			
5,800.00	5,790.22	5,748.37	5,658.05	19.64	25.81	-30.70	-942.71	-160.69	692.26	648.39	43.86	15.782			
5,900.00	5,890.01	5,847.42	5,755.27	19.99	26.26	-30.85	-961.62	-162.23	705.93	661.32	44.62	15.822			
6,000.00	5,989.81	5,946.46	5,852.48	20.35	26.72	-30.99	-980.52	-163.77	719.61	674.24	45.37	15.861			
6,100.00	6,089.60	6,045.51	5,949.69	20.70	27.17	-31.13	-999.42	-165.31	733.29	687.17	46.12	15.899			
6,200.00	6,189.40	6,144.55	6,046.90	21.06	27.62	-31.26	-1,018.33	-166.85	746.98	700.11	46.88	15.935			
6,300.00	6,289.19	6,243.60	6,144.11	21.41	28.08	-31.39	-1,037.23	-168.39	760.67	713.04	47.63	15.971			
6,400.00	6,388.99	6,342.64	6,241.32	21.77	28.53	-31.51	-1,056.13	-169.92	774.37	725.98	48.38	16.005			
6,498.43	6,487.22	6,440.13	6,337.01	22.12	28.98	-31.63	-1,074.74	-171.44	787.85	738.72	49.13	16.038			
6,500.00	6,488.79	6,441.69	6,338.54	22.12	28.99	-33.68	-1,075.04	-171.46	788.06	738.93	49.14	16.038			
6,550.00	6,538.54	6,491.09	6,387.03	22.32	29.22	-66.67	-1,084.47	-172.23	794.98	745.48	49.49	16.062			
6,600.00	6,587.76	6,540.02	6,435.06	22.59	29.44	-76.05	-1,093.81	-172.99	802.02	752.20	49.83	16.097			
6,650.00	6,636.08	6,588.11	6,482.25	22.84	29.66	-80.33	-1,102.98	-173.74	809.26	759.23	50.03	16.175			
6,700.00	6,683.13	6,634.98	6,528.25	23.07	29.88	-82.95	-1,111.93	-174.47	816.81	766.65	50.16	16.284			
6,750.00	6,728.55	6,680.28	6,572.72	23.29	30.09	-84.86	-1,120.58	-175.17	824.85	774.62	50.23	16.421			
6,800.00	6,771.99	6,723.67	6,615.30	23.51	30.29	-86.40	-1,128.86	-175.85	833.59	783.34	50.24	16.591			
6,850.00	6,813.13	6,764.81	6,655.68	23.72	30.47	-87.69	-1,136.71	-176.49	843.25	793.04	50.21	16.794			
6,900.00	6,851.64	6,806.60	6,696.70	23.94	30.67	-88.88	-1,144.68	-177.24	854.08	803.91	50.17	17.025			
6,950.00	6,887.25	6,862.88	6,751.74	24.16	30.92	-90.49	-1,155.30	-181.93	865.74	815.48	50.26	17.226			
7,000.00	6,919.67	6,925.08	6,811.75	24.38	31.22	-92.11	-1,166.75	-193.49	877.87	827.39	50.48	17.391			
7,050.00	6,948.65	6,994.85	6,877.17	24.62	31.52	-93.80	-1,179.05	-214.23	890.22	839.44	50.77	17.533			
7,100.00	6,973.99	7,074.20	6,947.97	24.88	31.78	-95.58	-1,192.13	-247.43	902.41	851.27	51.14	17.646			
7,150.00	6,995.49	7,165.47	7,022.97	25.18	32.03	-97.44	-1,205.67	-297.48	913.97	862.34	51.63	17.703			
7,200.00	7,012.97	7,270.91	7,098.68	25.51	32.33	-99.29	-1,218.88	-369.45	924.27	871.95	52.31	17.668			
7,250.00	7,026.32	7,391.66	7,167.87	25.89	32.80	-100.93	-1,230.27	-467.48	932.52	879.21	53.31	17.493			
7,300.00	7,035.43	7,526.10	7,219.38	26.33	33.68	-102.06	-1,237.66	-591.10	937.90	883.11	54.79	17.119			
7,350.00	7,040.22	7,668.50	7,241.64	26.84	35.09	-102.39	-1,239.00	-731.38	939.74	882.89	56.86	16.529			
7,377.14	7,041.00	7,707.14	7,242.11	27.14	35.55	-102.36	-1,238.27	-770.01	939.60	881.92	57.68	16.291			
7,400.00	7,041.12	7,730.01	7,242.23	27.41	35.84	-102.36	-1,237.80	-792.87	939.59	881.32	58.27	16.124			
7,500.00	7,041.64	7,830.01	7,242.75	28.77	37.19	-102.36	-1,235.77	-892.85	939.55	878.50	61.05	15.389			
7,600.00	7,042.16	7,930.01	7,243.26	30.39	38.69	-102.36	-1,233.73	-992.83	939.52	875.35	64.16	14.643			
7,700.00	7,042.67	8,030.01	7,243.78	32.22	40.32	-102.36	-1,231.70	-1,092.80	939.48	871.93	67.55	13.908			
7,800.00	7,043.19	8,130.01	7,244.30	34.20	42.05	-102.36	-1,229.66	-1,192.78	939.44	868.27	71.18	13.199			
7,900.00	7,043.71	8,230.01	7,244.82	36.31	43.88	-102.36	-1,227.63	-1,292.76	939.41	864.40	75.01	12.524			
8,000.00	7,044.23	8,330.01	7,245.34	38.52	45.80	-102.36	-1,225.60	-1,392.74	939.37	860.36	79.01	11.889			
8,100.00	7,044.75	8,430.01	7,245.86	40.80	47.78	-102.36	-1,223.56	-1,492.72	939.33	856.17	83.16	11.295			
8,200.00	7,045.26	8,530.01	7,246.37	43.15	49.84	-102.36	-1,221.53	-1,592.69	939.30	851.85	87.45	10.741			
8,300.00	7,045.78	8,630.01	7,246.89	45.54	51.95	-102.36	-1,219.49	-1,692.67	939.26	847.42	91.84	10.227			
8,400.00	7,046.30	8,730.01	7,247.41	47.97	54.11	-102.36	-1,217.46	-1,792.65	939.22	842.89	96.33	9.750			
8,500.00	7,046.82	8,830.01	7,247.93	50.44	56.32	-102.36	-1,215.43	-1,892.63	939.19	838.28	100.90	9.308			
8,600.00	7,047.34	8,930.01	7,248.45	52.94	58.57	-102.37	-1,213.39	-1,992.61	939.15	833.60	105.55	8.898			
8,700.00	7,047.86	9,030.01	7,248.96	55.46	60.86	-102.37	-1,211.36	-2,092.58	939.11	828.86	110.26	8.518			
8,800.00	7,048.37	9,130.01	7,249.48	58.00	63.18	-102.37	-1,209.32	-2,192.56	939.07	824.05	115.02	8.164			
8,900.00	7,048.89	9,230.01	7,250.00	60.56	65.54	-102.37	-1,207.29	-2,292.54	939.04	819.20	119.84	7.836			
9,000.00	7,049.41	9,330.01	7,250.52	63.13	67.92	-102.37	-1,205.25	-2,392.52	939.00	814.30	124.70	7.530			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,430.01	7,251.04	65.72	70.32	-102.37	-1,203.22	-2,492.50	938.96	809.37	129.60	7.245	
9,200.00	7,050.45	9,530.01	7,251.56	68.32	72.75	-102.37	-1,201.19	-2,592.47	938.93	804.40	134.53	6.979	
9,300.00	7,050.97	9,630.01	7,252.07	70.93	75.19	-102.37	-1,199.15	-2,692.45	938.89	799.40	139.49	6.731	
9,400.00	7,051.48	9,730.01	7,252.59	73.55	77.66	-102.37	-1,197.12	-2,792.43	938.85	794.37	144.49	6.498	
9,500.00	7,052.00	9,830.01	7,253.11	76.18	80.14	-102.37	-1,195.08	-2,892.41	938.82	789.31	149.50	6.280	
9,600.00	7,052.52	9,930.01	7,253.63	78.81	82.64	-102.37	-1,193.05	-2,992.38	938.78	784.24	154.54	6.075	
9,700.00	7,053.04	10,030.01	7,254.15	81.46	85.15	-102.37	-1,191.01	-3,092.36	938.74	779.14	159.60	5.882	
9,800.00	7,053.56	10,130.01	7,254.67	84.10	87.68	-102.37	-1,188.98	-3,192.34	938.71	774.02	164.68	5.700	
9,900.00	7,054.08	10,230.01	7,255.18	86.76	90.21	-102.37	-1,186.95	-3,292.32	938.67	768.89	169.78	5.529	
10,000.00	7,054.59	10,330.01	7,255.70	89.42	92.76	-102.37	-1,184.91	-3,392.30	938.63	763.74	174.89	5.367	
10,100.00	7,055.11	10,430.01	7,256.22	92.08	95.32	-102.37	-1,182.88	-3,492.27	938.60	758.57	180.02	5.214	
10,200.00	7,055.63	10,530.01	7,256.74	94.75	97.89	-102.37	-1,180.84	-3,592.25	938.56	753.40	185.16	5.069	
10,300.00	7,056.15	10,630.01	7,257.26	97.42	100.46	-102.37	-1,178.81	-3,692.23	938.52	748.21	190.31	4.931	
10,400.00	7,056.67	10,730.01	7,257.77	100.10	103.05	-102.37	-1,176.77	-3,792.21	938.49	743.01	195.48	4.801	
10,500.00	7,057.18	10,830.01	7,258.29	102.78	105.64	-102.37	-1,174.74	-3,892.19	938.45	737.80	200.65	4.677	
10,600.00	7,057.70	10,930.01	7,258.81	105.46	108.24	-102.37	-1,172.71	-3,992.16	938.41	732.58	205.84	4.559	
10,700.00	7,058.22	11,030.01	7,259.33	108.14	110.84	-102.38	-1,170.67	-4,092.14	938.38	727.35	211.03	4.447	
10,800.00	7,058.74	11,130.01	7,259.85	110.83	113.45	-102.38	-1,168.64	-4,192.12	938.34	722.11	216.23	4.340	
10,900.00	7,059.26	11,230.01	7,260.37	113.52	116.07	-102.38	-1,166.60	-4,292.10	938.30	716.87	221.44	4.237	
11,000.00	7,059.78	11,330.01	7,260.88	116.21	118.69	-102.38	-1,164.57	-4,392.08	938.27	711.62	226.65	4.140	
11,100.00	7,060.29	11,430.01	7,261.40	118.90	121.32	-102.38	-1,162.53	-4,492.05	938.23	706.36	231.87	4.046	
11,200.00	7,060.81	11,530.01	7,261.92	121.60	123.95	-102.38	-1,160.50	-4,592.03	938.19	701.09	237.10	3.957	
11,300.00	7,061.33	11,630.01	7,262.44	124.30	126.59	-102.38	-1,158.47	-4,692.01	938.16	695.82	242.33	3.871	
11,400.00	7,061.85	11,730.01	7,262.96	127.00	129.23	-102.38	-1,156.43	-4,791.99	938.12	690.55	247.57	3.789	
11,500.00	7,062.37	11,830.01	7,263.48	129.70	131.87	-102.38	-1,154.40	-4,891.97	938.08	685.27	252.82	3.711	
11,600.00	7,062.89	11,930.01	7,263.99	132.40	134.52	-102.38	-1,152.36	-4,991.94	938.04	679.98	258.06	3.635	
11,700.00	7,063.40	12,030.01	7,264.51	135.10	137.17	-102.38	-1,150.33	-5,091.92	938.01	674.69	263.32	3.562	
11,800.00	7,063.92	12,130.01	7,265.03	137.81	139.82	-102.38	-1,148.29	-5,191.90	937.97	669.40	268.57	3.492	
11,900.00	7,064.44	12,230.01	7,265.55	140.51	142.48	-102.38	-1,146.26	-5,291.88	937.93	664.10	273.84	3.425	
12,000.00	7,064.96	12,330.01	7,266.07	143.22	145.14	-102.38	-1,144.23	-5,391.86	937.90	658.80	279.10	3.360	
12,100.00	7,065.48	12,430.01	7,266.58	145.93	147.81	-102.38	-1,142.19	-5,491.83	937.86	653.49	284.37	3.298	
12,200.00	7,066.00	12,530.01	7,267.10	148.64	150.47	-102.38	-1,140.16	-5,591.81	937.82	648.18	289.64	3.238	
12,300.00	7,066.51	12,630.01	7,267.62	151.35	153.14	-102.38	-1,138.12	-5,691.79	937.79	642.87	294.92	3.180	
12,400.00	7,067.03	12,730.01	7,268.14	154.06	155.81	-102.38	-1,136.09	-5,791.77	937.75	637.56	300.19	3.124	
12,500.00	7,067.55	12,830.01	7,268.66	156.77	158.48	-102.38	-1,134.05	-5,891.75	937.71	632.24	305.48	3.070	
12,600.00	7,068.07	12,930.01	7,269.18	159.49	161.16	-102.38	-1,132.02	-5,991.72	937.68	626.92	310.76	3.017	
12,700.00	7,068.59	13,030.01	7,269.69	162.20	163.84	-102.39	-1,129.99	-6,091.70	937.64	621.59	316.05	2.967	
12,800.00	7,069.11	13,130.01	7,270.21	164.92	166.52	-102.39	-1,127.95	-6,191.68	937.60	616.27	321.33	2.918	
12,900.00	7,069.62	13,230.01	7,270.73	167.63	169.20	-102.39	-1,125.92	-6,291.66	937.57	610.94	326.63	2.870	
13,000.00	7,070.14	13,330.01	7,271.25	170.35	171.88	-102.39	-1,123.88	-6,391.64	937.53	605.61	331.92	2.825	
13,100.00	7,070.66	13,430.01	7,271.77	173.07	174.56	-102.39	-1,121.85	-6,491.61	937.49	600.28	337.21	2.780	
13,200.00	7,071.18	13,530.01	7,272.29	175.78	177.25	-102.39	-1,119.81	-6,591.59	937.46	594.95	342.51	2.737	
13,300.00	7,071.70	13,630.01	7,272.80	178.50	179.94	-102.39	-1,117.78	-6,691.57	937.42	589.61	347.81	2.695	
13,400.00	7,072.21	13,730.01	7,273.32	181.22	182.63	-102.39	-1,115.75	-6,791.55	937.38	584.27	353.11	2.655	
13,500.00	7,072.73	13,830.01	7,273.84	183.94	185.32	-102.39	-1,113.71	-6,891.53	937.35	578.93	358.41	2.615	
13,600.00	7,073.25	13,930.01	7,274.36	186.66	188.01	-102.39	-1,111.68	-6,991.50	937.31	573.59	363.72	2.577	
13,700.00	7,073.77	14,030.01	7,274.88	189.38	190.70	-102.39	-1,109.64	-7,091.48	937.27	568.25	369.02	2.540	
13,800.00	7,074.29	14,130.01	7,275.39	192.10	193.40	-102.39	-1,107.61	-7,191.46	937.24	562.90	374.33	2.504	
13,900.00	7,074.81	14,230.01	7,275.91	194.82	196.09	-102.39	-1,105.57	-7,291.44	937.20	557.56	379.64	2.469	
14,000.00	7,075.32	14,330.01	7,276.43	197.54	198.79	-102.39	-1,103.54	-7,391.42	937.16	552.21	384.95	2.434	
14,100.00	7,075.84	14,430.01	7,276.95	200.27	201.49	-102.39	-1,101.51	-7,491.39	937.13	546.86	390.26	2.401	
14,200.00	7,076.36	14,530.01	7,277.47	202.99	204.18	-102.39	-1,099.47	-7,591.37	937.09	541.51	395.58	2.369	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program:		0-MWD		Rule Assigned:						Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	14,630.01	7,277.99	205.71	206.88	-102.39	-1,097.44	-7,691.35	937.05	536.16	400.89	2.337	
14,400.00	7,077.40	14,730.01	7,278.50	208.44	209.58	-102.39	-1,095.40	-7,791.33	937.01	530.81	406.20	2.307	
14,500.00	7,077.92	14,830.01	7,279.02	211.16	212.29	-102.39	-1,093.37	-7,891.30	936.98	525.46	411.52	2.277	
14,600.00	7,078.43	14,930.01	7,279.54	213.88	214.99	-102.39	-1,091.33	-7,991.28	936.94	520.10	416.84	2.248	
14,700.00	7,078.95	15,030.01	7,280.06	216.61	217.69	-102.40	-1,089.30	-8,091.26	936.90	514.75	422.16	2.219	
14,800.00	7,079.47	15,130.01	7,280.58	219.33	220.40	-102.40	-1,087.27	-8,191.24	936.87	509.39	427.48	2.192	
14,900.00	7,079.99	15,230.01	7,281.10	222.06	223.10	-102.40	-1,085.23	-8,291.22	936.83	504.03	432.80	2.165	
15,000.00	7,080.51	15,330.01	7,281.61	224.78	225.81	-102.40	-1,083.20	-8,391.19	936.79	498.68	438.12	2.138	
15,100.00	7,081.03	15,430.01	7,282.13	227.51	228.51	-102.40	-1,081.16	-8,491.17	936.76	493.32	443.44	2.112	
15,200.00	7,081.54	15,530.01	7,282.65	230.24	231.22	-102.40	-1,079.13	-8,591.15	936.72	487.96	448.76	2.087	
15,300.00	7,082.06	15,630.01	7,283.17	232.96	233.93	-102.40	-1,077.09	-8,691.13	936.68	482.59	454.09	2.063	
15,400.00	7,082.58	15,730.01	7,283.69	235.69	236.64	-102.40	-1,075.06	-8,791.11	936.65	477.23	459.41	2.039	
15,500.00	7,083.10	15,830.01	7,284.21	238.41	239.35	-102.40	-1,073.03	-8,891.08	936.61	471.87	464.74	2.015	
15,600.00	7,083.62	15,930.01	7,284.72	241.14	242.06	-102.40	-1,070.99	-8,991.06	936.57	466.51	470.07	1.992	Collision Risk Procedures Req.
15,700.00	7,084.13	16,030.01	7,285.24	243.87	244.77	-102.40	-1,068.96	-9,091.04	936.54	461.14	475.39	1.970	Collision Risk Procedures Req.
15,800.00	7,084.65	16,130.01	7,285.76	246.60	247.48	-102.40	-1,066.92	-9,191.02	936.50	455.78	480.72	1.948	Collision Risk Procedures Req.
15,900.00	7,085.17	16,230.01	7,286.28	249.32	250.19	-102.40	-1,064.89	-9,291.00	936.46	450.41	486.05	1.927	Collision Risk Procedures Req.
16,000.00	7,085.69	16,330.01	7,286.80	252.05	252.90	-102.40	-1,062.85	-9,390.97	936.43	445.05	491.38	1.906	Collision Risk Procedures Req.
16,100.00	7,086.21	16,430.01	7,287.31	254.78	255.62	-102.40	-1,060.82	-9,490.95	936.39	439.68	496.71	1.885	Collision Risk Procedures Req.
16,200.00	7,086.73	16,530.01	7,287.83	257.51	258.33	-102.40	-1,058.79	-9,590.93	936.35	434.31	502.04	1.865	Collision Risk Procedures Req.
16,300.00	7,087.24	16,630.01	7,288.35	260.24	261.04	-102.40	-1,056.75	-9,690.91	936.32	428.95	507.37	1.845	Collision Risk Procedures Req.
16,400.00	7,087.76	16,730.01	7,288.87	262.97	263.76	-102.40	-1,054.72	-9,790.89	936.28	423.58	512.70	1.826	Collision Risk Procedures Req.
16,500.00	7,088.28	16,830.01	7,289.39	265.69	266.47	-102.40	-1,052.68	-9,890.86	936.24	418.21	518.03	1.807	Collision Risk Procedures Req.
16,600.00	7,088.80	16,930.01	7,289.91	268.42	269.19	-102.40	-1,050.65	-9,990.84	936.21	412.84	523.37	1.789	Collision Risk Procedures Req.
16,700.00	7,089.32	17,030.01	7,290.42	271.15	271.90	-102.40	-1,048.61	-10,090.82	936.17	407.47	528.70	1.771	Collision Risk Procedures Req.
16,800.00	7,089.84	17,130.01	7,290.94	273.88	274.62	-102.41	-1,046.58	-10,190.80	936.13	402.10	534.03	1.753	Collision Risk Procedures Req.
16,900.00	7,090.35	17,230.01	7,291.46	276.61	277.34	-102.41	-1,044.55	-10,290.78	936.10	396.73	539.37	1.736	Collision Risk Procedures Req.
17,000.00	7,090.87	17,330.01	7,291.98	279.34	280.05	-102.41	-1,042.51	-10,390.75	936.06	391.36	544.70	1.718	Collision Risk Procedures Req.
17,004.51	7,090.90	17,334.15	7,292.00	279.46	280.16	-102.41	-1,042.43	-10,394.90	936.06	391.12	544.94	1.718	Collision Risk Procedures Req.
17,024.65	7,091.00	17,334.15	7,292.00	280.01	280.16	-102.41	-1,042.43	-10,394.90	936.27	390.59	545.68	1.716	Collision Risk Procedures Req., SF

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HNA-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-78.70	13.90	-69.57	70.95				
100.00	100.00	100.00	100.00	0.48	0.48	-78.70	13.90	-69.57	70.95	69.98	0.97	73.507	
200.00	200.00	200.00	200.00	1.28	1.28	-78.70	13.90	-69.57	70.95	68.38	2.56	27.664	
300.00	300.00	300.00	300.00	1.77	1.77	-78.70	13.90	-69.57	70.95	67.41	3.54	20.058	
400.00	400.00	400.00	400.00	2.15	2.15	-78.70	13.90	-69.57	70.95	66.65	4.30	16.495	
500.00	500.00	500.00	500.00	2.48	2.48	-78.70	13.90	-69.57	70.95	65.99	4.95	14.322	
600.00	600.00	600.00	600.00	2.77	2.77	-78.70	13.90	-69.57	70.95	65.41	5.53	12.819	
700.00	700.00	700.13	700.11	3.03	3.09	-80.12	12.16	-69.80	70.85	64.86	5.99	11.825	
768.55	768.55	768.65	768.55	3.20	3.73	-82.71	8.97	-70.20	70.77	64.46	6.32	11.203 CC	
800.00	800.00	800.00	799.84	3.28	4.03	-84.35	6.98	-70.46	70.80	64.34	6.47	10.951	
900.00	900.00	899.43	898.88	3.51	4.81	-91.29	-1.61	-71.56	71.58	64.63	6.95	10.296	
1,000.00	999.98	998.31	997.03	3.78	5.51	49.34	-13.53	-73.08	73.23	65.68	7.55	9.698	
1,083.35	1,083.22	1,080.88	1,078.68	4.28	5.69	42.64	-25.71	-74.64	74.67	66.49	8.18	9.132	
1,100.00	1,099.84	1,097.45	1,095.06	4.29	5.72	41.42	-28.20	-74.96	74.92	66.66	8.26	9.075	
1,200.00	1,199.64	1,196.98	1,193.43	4.47	5.97	34.31	-43.19	-76.87	77.11	68.17	8.94	8.625	
1,300.00	1,299.43	1,296.51	1,291.81	4.70	6.25	27.69	-58.17	-78.79	80.42	70.72	9.69	8.295	
1,400.00	1,399.23	1,396.03	1,390.18	4.95	6.55	21.65	-73.15	-80.70	84.72	74.26	10.46	8.100	
1,500.00	1,499.02	1,495.56	1,488.55	5.20	6.86	16.25	-88.14	-82.62	89.87	78.65	11.22	8.007	
1,600.00	1,598.82	1,595.09	1,586.93	5.47	7.19	11.47	-103.12	-84.53	95.73	83.75	11.98	7.988	
1,700.00	1,698.61	1,694.61	1,685.30	5.75	7.53	7.26	-118.11	-86.45	102.18	89.45	12.74	8.022	
1,800.00	1,798.41	1,794.14	1,783.68	6.04	7.87	3.57	-133.09	-88.36	109.12	95.64	13.48	8.093	
1,900.00	1,898.20	1,893.67	1,882.05	6.34	8.23	0.33	-148.07	-90.28	116.46	102.23	14.22	8.188	
2,000.00	1,998.00	1,993.19	1,980.42	6.64	8.59	-2.52	-163.06	-92.19	124.12	109.16	14.96	8.299	
2,100.00	2,097.79	2,092.72	2,078.80	6.94	8.97	-5.04	-178.04	-94.11	132.05	116.37	15.68	8.419	
2,200.00	2,197.59	2,192.25	2,177.17	7.26	9.34	-7.26	-193.03	-96.03	140.21	123.80	16.41	8.544	
2,300.00	2,297.38	2,291.77	2,275.54	7.57	9.72	-9.24	-208.01	-97.94	148.55	131.42	17.13	8.671	
2,400.00	2,397.18	2,391.30	2,373.92	7.89	10.11	-11.01	-222.99	-99.86	157.06	139.20	17.85	8.797	
2,500.00	2,496.97	2,490.83	2,472.29	8.22	10.50	-12.60	-237.98	-101.77	165.69	147.12	18.57	8.921	
2,600.00	2,596.77	2,590.35	2,570.67	8.54	10.90	-14.03	-252.96	-103.69	174.44	155.15	19.29	9.042	
2,700.00	2,696.57	2,689.88	2,669.04	8.87	11.30	-15.32	-267.95	-105.60	183.29	163.28	20.01	9.160	
2,800.00	2,796.36	2,789.41	2,767.41	9.21	11.70	-16.49	-282.93	-107.52	192.22	171.49	20.73	9.274	
2,900.00	2,896.16	2,888.94	2,865.79	9.54	12.10	-17.56	-297.91	-109.43	201.23	179.78	21.45	9.383	
3,000.00	2,995.95	2,988.46	2,964.16	9.87	12.51	-18.53	-312.90	-111.35	210.29	188.13	22.16	9.489	
3,100.00	3,095.75	3,087.99	3,062.53	10.21	12.92	-19.43	-327.88	-113.27	219.42	196.54	22.88	9.590	
3,200.00	3,195.54	3,187.52	3,160.91	10.55	13.33	-20.25	-342.87	-115.18	228.59	204.99	23.60	9.687	
3,300.00	3,295.34	3,287.04	3,259.28	10.89	13.74	-21.01	-357.85	-117.10	237.80	213.49	24.32	9.780	
3,400.00	3,395.13	3,386.57	3,357.66	11.23	14.16	-21.71	-372.83	-119.01	247.06	222.03	25.03	9.869	
3,500.00	3,494.93	3,486.10	3,456.03	11.58	14.57	-22.37	-387.82	-120.93	256.35	230.59	25.75	9.955	
3,600.00	3,594.72	3,585.62	3,554.40	11.92	14.99	-22.97	-402.80	-122.84	265.67	239.20	26.47	10.036	
3,700.00	3,694.52	3,685.15	3,652.78	12.26	15.41	-23.54	-417.79	-124.76	275.01	247.82	27.19	10.115	
3,800.00	3,794.31	3,784.68	3,751.15	12.61	15.83	-24.07	-432.77	-126.67	284.38	256.47	27.91	10.190	
3,900.00	3,894.11	3,884.20	3,849.52	12.96	16.25	-24.56	-447.75	-128.59	293.78	265.15	28.63	10.262	
4,000.00	3,993.90	3,983.73	3,947.90	13.30	16.67	-25.02	-462.74	-130.51	303.19	273.84	29.35	10.331	
4,100.00	4,093.70	4,083.26	4,046.27	13.65	17.09	-25.46	-477.72	-132.42	312.62	282.56	30.07	10.397	
4,200.00	4,193.49	4,182.78	4,144.65	14.00	17.52	-25.87	-492.71	-134.34	322.07	291.28	30.79	10.461	
4,300.00	4,293.29	4,282.31	4,243.02	14.35	17.94	-26.26	-507.69	-136.25	331.54	300.03	31.51	10.522	
4,400.00	4,393.08	4,381.84	4,341.39	14.70	18.36	-26.62	-522.67	-138.17	341.01	308.79	32.23	10.581	
4,500.00	4,492.88	4,481.36	4,439.77	15.05	18.79	-26.97	-537.66	-140.08	350.51	317.56	32.95	10.638	
4,600.00	4,592.68	4,580.89	4,538.14	15.40	19.22	-27.30	-552.64	-142.00	360.01	326.34	33.67	10.692	
4,700.00	4,692.47	4,680.42	4,636.51	15.75	19.64	-27.61	-567.63	-143.91	369.53	335.13	34.39	10.744	
4,800.00	4,792.27	4,779.94	4,734.89	16.10	20.07	-27.90	-582.61	-145.83	379.05	343.94	35.11	10.795	
4,900.00	4,892.06	4,879.47	4,833.26	16.45	20.50	-28.18	-597.60	-147.75	388.59	352.75	35.84	10.844	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HNA-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,979.00	4,931.64	16.81	20.93	-28.45	-612.58	-149.66	398.13	361.57	36.56	10.890	
5,100.00	5,091.85	5,078.53	5,030.01	17.16	21.36	-28.70	-627.56	-151.58	407.68	370.40	37.28	10.936	
5,200.00	5,191.45	5,178.05	5,128.38	17.51	21.79	-28.95	-642.55	-153.49	417.24	379.24	38.00	10.979	
5,300.00	5,291.24	5,277.58	5,226.76	17.87	22.22	-29.18	-657.53	-155.41	426.81	388.08	38.73	11.021	
5,400.00	5,391.04	5,377.11	5,325.13	18.22	22.65	-29.40	-672.52	-157.32	436.38	396.93	39.45	11.062	
5,500.00	5,490.83	5,476.63	5,423.51	18.57	23.08	-29.61	-687.50	-159.24	445.96	405.79	40.17	11.101	
5,600.00	5,590.63	5,576.16	5,521.88	18.93	23.51	-29.82	-702.48	-161.15	455.54	414.65	40.89	11.140	
5,700.00	5,690.42	5,675.69	5,620.25	19.28	23.94	-30.01	-717.47	-163.07	465.13	423.52	41.62	11.176	
5,800.00	5,790.22	5,775.21	5,718.63	19.64	24.38	-30.20	-732.45	-164.98	474.73	432.39	42.34	11.212	
5,900.00	5,890.01	5,874.74	5,817.00	19.99	24.81	-30.38	-747.44	-166.90	484.33	441.26	43.06	11.247	
6,000.00	5,989.81	5,974.27	5,915.37	20.35	25.24	-30.55	-762.42	-168.82	493.93	450.15	43.79	11.280	
6,100.00	6,089.60	6,073.79	6,013.75	20.70	25.67	-30.72	-777.40	-170.73	503.54	459.03	44.51	11.312	
6,200.00	6,189.40	6,173.32	6,112.12	21.06	26.11	-30.88	-792.39	-172.65	513.16	467.92	45.24	11.344	
6,300.00	6,289.19	6,272.85	6,210.50	21.41	26.54	-31.03	-807.37	-174.56	522.77	476.81	45.96	11.374	
6,400.00	6,388.99	6,372.37	6,308.87	21.77	26.97	-31.18	-822.36	-176.48	532.39	485.71	46.69	11.404	
6,498.43	6,487.22	6,470.90	6,406.24	22.12	27.40	-31.28	-837.18	-178.79	541.86	494.45	47.40	11.431	
6,500.00	6,488.79	6,472.50	6,407.82	22.12	27.40	-33.33	-837.42	-178.88	542.01	494.59	47.41	11.431	
6,550.00	6,538.54	6,523.50	6,457.96	22.32	27.64	-66.19	-844.96	-184.20	546.75	498.91	47.84	11.428	
6,600.00	6,587.76	6,574.40	6,507.35	22.59	27.88	-75.13	-852.30	-193.98	551.45	503.14	48.31	11.415	
6,650.00	6,636.08	6,625.19	6,555.60	22.84	28.09	-78.73	-859.38	-208.11	556.06	507.39	48.67	11.425	
6,700.00	6,683.13	6,675.88	6,602.35	23.07	28.27	-80.46	-866.14	-226.47	560.54	511.55	48.99	11.442	
6,750.00	6,728.55	6,726.46	6,647.23	23.29	28.42	-81.34	-872.53	-248.87	564.88	515.57	49.30	11.458	
6,800.00	6,771.99	6,776.94	6,689.90	23.51	28.56	-81.77	-878.50	-275.13	569.02	519.39	49.62	11.467	
6,850.00	6,813.13	6,827.31	6,730.06	23.72	28.69	-81.94	-884.01	-305.01	572.94	522.96	49.98	11.464	
6,900.00	6,851.64	6,877.57	6,767.41	23.94	28.83	-81.95	-889.03	-338.25	576.61	526.23	50.38	11.446	
6,950.00	6,887.25	6,927.73	6,801.67	24.16	28.98	-81.87	-893.51	-374.59	580.01	529.16	50.85	11.407	
7,000.00	6,919.67	6,977.78	6,832.60	24.38	29.16	-81.73	-897.42	-413.72	583.10	531.70	51.40	11.345	
7,050.00	6,948.65	7,027.72	6,860.00	24.62	29.38	-81.55	-900.74	-455.32	585.86	533.82	52.04	11.257	
7,100.00	6,973.99	7,077.56	6,883.67	24.88	29.65	-81.36	-903.44	-499.08	588.28	535.48	52.80	11.141	
7,150.00	6,995.49	7,127.28	6,903.45	25.18	29.97	-81.16	-905.52	-544.63	590.33	536.65	53.68	10.997	
7,200.00	7,012.97	7,176.90	6,919.24	25.51	30.35	-80.97	-906.96	-591.63	591.99	537.31	54.68	10.827	
7,250.00	7,026.32	7,226.40	6,930.93	25.89	30.80	-80.79	-907.74	-639.71	593.26	537.46	55.80	10.632	
7,300.00	7,035.43	7,275.79	6,938.47	26.33	31.31	-80.62	-907.88	-688.51	594.13	537.09	57.04	10.416	
7,350.00	7,040.22	7,325.08	6,941.82	26.84	31.87	-80.48	-907.37	-737.66	594.59	536.21	58.38	10.185	
7,377.14	7,041.00	7,352.02	6,942.08	27.14	32.21	-80.42	-906.86	-764.60	594.66	535.51	59.15	10.054	
7,400.00	7,041.12	7,374.89	6,942.20	27.41	32.51	-80.42	-906.40	-787.46	594.66	534.84	59.82	9.942	
7,500.00	7,041.64	7,474.89	6,942.72	28.77	33.92	-80.42	-904.40	-887.43	594.66	531.71	62.95	9.447	
7,600.00	7,042.16	7,574.89	6,943.23	30.39	35.50	-80.42	-902.41	-987.41	594.66	528.29	66.37	8.960	
7,700.00	7,042.67	7,674.89	6,943.75	32.22	37.21	-80.42	-900.41	-1,087.39	594.66	524.62	70.04	8.491	
7,800.00	7,043.19	7,774.89	6,944.27	34.20	39.05	-80.42	-898.42	-1,187.37	594.66	520.74	73.91	8.045	
7,900.00	7,043.71	7,874.89	6,944.79	36.31	40.98	-80.42	-896.42	-1,287.35	594.66	516.69	77.97	7.626	
8,000.00	7,044.23	7,974.89	6,945.31	38.52	42.99	-80.42	-894.42	-1,387.33	594.66	512.48	82.18	7.236	
8,100.00	7,044.75	8,074.89	6,945.82	40.80	45.08	-80.42	-892.43	-1,487.31	594.66	508.13	86.53	6.873	
8,200.00	7,045.26	8,174.89	6,946.34	43.15	47.24	-80.42	-890.43	-1,587.29	594.66	503.68	90.98	6.536	
8,300.00	7,045.78	8,274.89	6,946.86	45.54	49.45	-80.42	-888.44	-1,687.26	594.66	499.13	95.53	6.225	
8,400.00	7,046.30	8,374.89	6,947.38	47.97	51.70	-80.42	-886.44	-1,787.24	594.66	494.50	100.17	5.937	
8,500.00	7,046.82	8,474.89	6,947.90	50.44	54.00	-80.42	-884.45	-1,887.22	594.67	489.79	104.88	5.670	
8,600.00	7,047.34	8,574.89	6,948.41	52.94	56.34	-80.42	-882.45	-1,987.20	594.67	485.02	109.65	5.423	
8,700.00	7,047.86	8,674.89	6,948.93	55.46	58.71	-80.42	-880.45	-2,087.18	594.67	480.19	114.47	5.195	
8,800.00	7,048.37	8,774.89	6,949.45	58.00	61.11	-80.42	-878.46	-2,187.16	594.67	475.32	119.35	4.983	
8,900.00	7,048.89	8,874.89	6,949.97	60.56	63.54	-80.42	-876.46	-2,287.14	594.67	470.40	124.27	4.785	
9,000.00	7,049.41	8,974.89	6,950.49	63.13	65.98	-80.42	-874.47	-2,387.12	594.67	465.44	129.23	4.602	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HNA-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,074.89	6,951.00	65.72	68.45	-80.42	-872.47	-2,487.09	594.67	460.45	134.22	4.431	
9,200.00	7,050.45	9,174.89	6,951.52	68.32	70.94	-80.42	-870.48	-2,587.07	594.67	455.43	139.24	4.271	
9,300.00	7,050.97	9,274.89	6,952.04	70.93	73.45	-80.42	-868.48	-2,687.05	594.67	450.38	144.29	4.121	
9,400.00	7,051.48	9,374.89	6,952.56	73.55	75.97	-80.42	-866.48	-2,787.03	594.67	445.31	149.36	3.981	
9,500.00	7,052.00	9,474.89	6,953.08	76.18	78.51	-80.42	-864.49	-2,887.01	594.67	440.22	154.46	3.850	
9,600.00	7,052.52	9,574.89	6,953.60	78.81	81.05	-80.42	-862.49	-2,986.99	594.68	435.10	159.57	3.727	
9,700.00	7,053.04	9,674.89	6,954.11	81.46	83.61	-80.42	-860.50	-3,086.97	594.68	429.97	164.71	3.610	
9,800.00	7,053.56	9,774.89	6,954.63	84.10	86.18	-80.42	-858.50	-3,186.95	594.68	424.82	169.86	3.501	
9,900.00	7,054.08	9,874.89	6,955.15	86.76	88.76	-80.42	-856.51	-3,286.92	594.68	419.65	175.03	3.398	
10,000.00	7,054.59	9,974.89	6,955.67	89.42	91.35	-80.42	-854.51	-3,386.90	594.68	414.47	180.21	3.300	
10,100.00	7,055.11	10,074.89	6,956.19	92.08	93.95	-80.42	-852.51	-3,486.88	594.68	409.28	185.40	3.208	
10,200.00	7,055.63	10,174.89	6,956.70	94.75	96.55	-80.42	-850.52	-3,586.86	594.68	404.08	190.60	3.120	
10,300.00	7,056.15	10,274.89	6,957.22	97.42	99.17	-80.42	-848.52	-3,686.84	594.68	398.86	195.82	3.037	
10,400.00	7,056.67	10,374.89	6,957.74	100.10	101.78	-80.42	-846.53	-3,786.82	594.68	393.64	201.04	2.958	
10,500.00	7,057.18	10,474.89	6,958.26	102.78	104.41	-80.42	-844.53	-3,886.80	594.68	388.41	206.28	2.883	
10,600.00	7,057.70	10,574.89	6,958.78	105.46	107.04	-80.42	-842.54	-3,986.78	594.68	383.16	211.52	2.811	
10,700.00	7,058.22	10,674.89	6,959.29	108.14	109.67	-80.42	-840.54	-4,086.75	594.69	377.91	216.77	2.743	
10,800.00	7,058.74	10,774.89	6,959.81	110.83	112.31	-80.42	-838.54	-4,186.73	594.69	372.66	222.03	2.678	
10,900.00	7,059.26	10,874.89	6,960.33	113.52	114.95	-80.42	-836.55	-4,286.71	594.69	367.39	227.29	2.616	
11,000.00	7,059.78	10,974.89	6,960.85	116.21	117.60	-80.42	-834.55	-4,386.69	594.69	362.12	232.56	2.557	
11,100.00	7,060.29	11,074.89	6,961.37	118.90	120.25	-80.42	-832.56	-4,486.67	594.69	356.85	237.84	2.500	
11,200.00	7,060.81	11,174.89	6,961.89	121.60	122.91	-80.42	-830.56	-4,586.65	594.69	351.57	243.12	2.446	
11,300.00	7,061.33	11,274.89	6,962.40	124.30	125.57	-80.42	-828.57	-4,686.63	594.69	346.28	248.41	2.394	
11,400.00	7,061.85	11,374.89	6,962.92	127.00	128.23	-80.42	-826.57	-4,786.61	594.69	340.99	253.70	2.344	
11,500.00	7,062.37	11,474.89	6,963.44	129.70	130.90	-80.42	-824.57	-4,886.58	594.69	335.69	259.00	2.296	
11,600.00	7,062.89	11,574.89	6,963.96	132.40	133.57	-80.42	-822.58	-4,986.56	594.69	330.39	264.30	2.250	
11,700.00	7,063.40	11,674.89	6,964.48	135.10	136.24	-80.42	-820.58	-5,086.54	594.69	325.09	269.61	2.206	
11,800.00	7,063.92	11,774.89	6,964.99	137.81	138.91	-80.42	-818.59	-5,186.52	594.70	319.78	274.92	2.163	
11,900.00	7,064.44	11,874.89	6,965.51	140.51	141.59	-80.42	-816.59	-5,286.50	594.70	314.47	280.23	2.122	
12,000.00	7,064.96	11,974.89	6,966.03	143.22	144.26	-80.42	-814.60	-5,386.48	594.70	309.15	285.55	2.083	
12,100.00	7,065.48	12,074.89	6,966.55	145.93	146.94	-80.42	-812.60	-5,486.46	594.70	303.83	290.87	2.045	
12,200.00	7,066.00	12,174.89	6,967.07	148.64	149.63	-80.42	-810.60	-5,586.44	594.70	298.51	296.19	2.008	
12,300.00	7,066.51	12,274.89	6,967.58	151.35	152.31	-80.42	-808.61	-5,686.41	594.70	293.19	301.51	1.972 Collision Risk Procedures Req.	
12,400.00	7,067.03	12,374.89	6,968.10	154.06	155.00	-80.42	-806.61	-5,786.39	594.70	287.86	306.84	1.938 Collision Risk Procedures Req.	
12,500.00	7,067.55	12,474.89	6,968.62	156.77	157.68	-80.42	-804.62	-5,886.37	594.70	282.53	312.17	1.905 Collision Risk Procedures Req.	
12,600.00	7,068.07	12,574.89	6,969.14	159.49	160.37	-80.42	-802.62	-5,986.35	594.70	277.20	317.50	1.873 Collision Risk Procedures Req.	
12,700.00	7,068.59	12,674.89	6,969.66	162.20	163.07	-80.42	-800.63	-6,086.33	594.70	271.86	322.84	1.842 Collision Risk Procedures Req.	
12,800.00	7,069.11	12,774.89	6,970.17	164.92	165.76	-80.42	-798.63	-6,186.31	594.71	266.53	328.18	1.812 Collision Risk Procedures Req.	
12,900.00	7,069.62	12,874.89	6,970.69	167.63	168.45	-80.42	-796.63	-6,286.29	594.71	261.19	333.52	1.783 Collision Risk Procedures Req.	
13,000.00	7,070.14	12,974.89	6,971.21	170.35	171.15	-80.42	-794.64	-6,386.27	594.71	255.85	338.86	1.755 Collision Risk Procedures Req.	
13,100.00	7,070.66	13,074.89	6,971.73	173.07	173.84	-80.42	-792.64	-6,486.24	594.71	250.50	344.20	1.728 Collision Risk Procedures Req.	
13,200.00	7,071.18	13,174.89	6,972.25	175.78	176.54	-80.42	-790.65	-6,586.22	594.71	245.16	349.55	1.701 Collision Risk Procedures Req.	
13,300.00	7,071.70	13,274.89	6,972.77	178.50	179.24	-80.42	-788.65	-6,686.20	594.71	239.81	354.90	1.676 Collision Risk Procedures Req.	
13,400.00	7,072.21	13,374.89	6,973.28	181.22	181.94	-80.42	-786.66	-6,786.18	594.71	234.47	360.24	1.651 Collision Risk Procedures Req.	
13,500.00	7,072.73	13,474.89	6,973.80	183.94	184.64	-80.42	-784.66	-6,886.16	594.71	229.12	365.60	1.627 Collision Risk Procedures Req.	
13,600.00	7,073.25	13,574.89	6,974.32	186.66	187.34	-80.42	-782.66	-6,986.14	594.71	223.77	370.95	1.603 Collision Risk Procedures Req.	
13,700.00	7,073.77	13,674.89	6,974.84	189.38	190.05	-80.42	-780.67	-7,086.12	594.71	218.41	376.30	1.580 Collision Risk Procedures Req.	
13,800.00	7,074.29	13,774.89	6,975.36	192.10	192.75	-80.42	-778.67	-7,186.10	594.71	213.06	381.66	1.558 Collision Risk Procedures Req.	
13,900.00	7,074.81	13,874.89	6,975.87	194.82	195.46	-80.42	-776.68	-7,286.07	594.72	207.70	387.01	1.537 Collision Risk Procedures Req.	
14,000.00	7,075.32	13,974.89	6,976.39	197.54	198.16	-80.42	-774.68	-7,386.05	594.72	202.35	392.37	1.516 Collision Risk Procedures Req.	
14,100.00	7,075.84	14,074.89	6,976.91	200.27	200.87	-80.42	-772.69	-7,486.03	594.72	196.99	397.73	1.495 Collision Avoidance Req.	
14,200.00	7,076.36	14,174.89	6,977.43	202.99	203.58	-80.42	-770.69	-7,586.01	594.72	191.63	403.09	1.475 Collision Avoidance Req.	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HNA-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	14,274.89	6,977.95	205.71	206.29	-80.42	-768.69	-7,685.99	594.72	186.27	408.45	1.456	Collision Avoidance Req.
14,400.00	7,077.40	14,374.89	6,978.46	208.44	209.00	-80.42	-766.70	-7,785.97	594.72	180.91	413.81	1.437	Collision Avoidance Req.
14,500.00	7,077.92	14,474.89	6,978.98	211.16	211.71	-80.42	-764.70	-7,885.95	594.72	175.55	419.17	1.419	Collision Avoidance Req.
14,600.00	7,078.43	14,574.89	6,979.50	213.88	214.42	-80.42	-762.71	-7,985.93	594.72	170.18	424.54	1.401	Collision Avoidance Req.
14,700.00	7,078.95	14,674.89	6,980.02	216.61	217.13	-80.42	-760.71	-8,085.90	594.72	164.82	429.90	1.383	Collision Avoidance Req.
14,800.00	7,079.47	14,774.89	6,980.54	219.33	219.84	-80.42	-758.72	-8,185.88	594.72	159.45	435.27	1.366	Collision Avoidance Req.
14,900.00	7,079.99	14,874.89	6,981.05	222.06	222.55	-80.42	-756.72	-8,285.86	594.72	154.09	440.64	1.350	Collision Avoidance Req.
15,000.00	7,080.51	14,974.89	6,981.57	224.78	225.27	-80.42	-754.72	-8,385.84	594.73	148.72	446.01	1.333	Collision Avoidance Req.
15,100.00	7,081.03	15,074.89	6,982.09	227.51	227.98	-80.42	-752.73	-8,485.82	594.73	143.35	451.37	1.318	Collision Avoidance Req.
15,200.00	7,081.54	15,174.89	6,982.61	230.24	230.69	-80.42	-750.73	-8,585.80	594.73	137.98	456.74	1.302	Collision Avoidance Req.
15,300.00	7,082.06	15,274.89	6,983.13	232.96	233.41	-80.42	-748.74	-8,685.78	594.73	132.61	462.11	1.287	Collision Avoidance Req.
15,400.00	7,082.58	15,374.89	6,983.65	235.69	236.12	-80.42	-746.74	-8,785.76	594.73	127.24	467.49	1.272	Collision Avoidance Req.
15,500.00	7,083.10	15,474.89	6,984.16	238.41	238.84	-80.42	-744.75	-8,885.73	594.73	121.87	472.86	1.258	Collision Avoidance Req.
15,600.00	7,083.62	15,574.89	6,984.68	241.14	241.56	-80.42	-742.75	-8,985.71	594.73	116.50	478.23	1.244	Collision Avoidance Req.
15,700.00	7,084.13	15,674.89	6,985.20	243.87	244.27	-80.42	-740.75	-9,085.69	594.73	111.13	483.60	1.230	Collision Avoidance Req.
15,800.00	7,084.65	15,774.89	6,985.72	246.60	246.99	-80.42	-738.76	-9,185.67	594.73	105.76	488.98	1.216	Collision Avoidance Req.
15,900.00	7,085.17	15,874.89	6,986.24	249.32	249.71	-80.42	-736.76	-9,285.65	594.73	100.38	494.35	1.203	Collision Avoidance Req.
16,000.00	7,085.69	15,974.89	6,986.75	252.05	252.43	-80.42	-734.77	-9,385.63	594.73	95.01	499.73	1.190	Collision Avoidance Req.
16,100.00	7,086.21	16,074.89	6,987.27	254.78	255.15	-80.42	-732.77	-9,485.61	594.74	89.63	505.10	1.177	Collision Avoidance Req.
16,200.00	7,086.73	16,174.89	6,987.79	257.51	257.86	-80.42	-730.78	-9,585.59	594.74	84.26	510.48	1.165	Collision Avoidance Req.
16,300.00	7,087.24	16,274.89	6,988.31	260.24	260.58	-80.42	-728.78	-9,685.56	594.74	78.88	515.86	1.153	Collision Avoidance Req.
16,400.00	7,087.76	16,374.89	6,988.83	262.97	263.30	-80.42	-726.78	-9,785.54	594.74	73.50	521.23	1.141	Collision Avoidance Req.
16,500.00	7,088.28	16,474.89	6,989.34	265.69	266.02	-80.42	-724.79	-9,885.52	594.74	68.13	526.61	1.129	Collision Avoidance Req.
16,600.00	7,088.80	16,574.89	6,989.86	268.42	268.74	-80.42	-722.79	-9,985.50	594.74	62.75	531.99	1.118	Collision Avoidance Req.
16,700.00	7,089.32	16,674.89	6,990.38	271.15	271.47	-80.42	-720.80	-10,085.48	594.74	57.37	537.37	1.107	Collision Avoidance Req.
16,800.00	7,089.84	16,774.89	6,990.90	273.88	274.19	-80.42	-718.80	-10,185.46	594.74	51.99	542.75	1.096	Collision Avoidance Req.
16,900.00	7,090.35	16,874.89	6,991.42	276.61	276.91	-80.42	-716.81	-10,285.44	594.74	46.61	548.13	1.085	Collision Avoidance Req.
17,000.00	7,090.87	16,974.89	6,991.94	279.34	279.63	-80.42	-714.81	-10,385.41	594.74	41.23	553.51	1.074	Collision Avoidance Req.
17,000.01	7,090.87	16,974.90	6,991.94	279.34	279.63	-80.42	-714.81	-10,385.43	594.74	41.23	553.51	1.074	Collision Avoidance Req.
17,024.65	7,091.00	16,987.42	6,992.00	280.01	279.97	-80.42	-714.56	-10,397.94	594.87	40.25	554.61	1.073	Collision Avoidance Req., ES, SF

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	61.76	7.42	13.82	15.68				
100.00	100.00	100.00	100.00	0.48	0.48	61.76	7.42	13.82	15.68	14.72	0.97	16.248	
200.00	200.00	200.00	200.00	1.28	1.28	61.76	7.42	13.82	15.68	13.12	2.56	6.115	
300.00	300.00	300.00	300.00	1.77	1.77	61.76	7.42	13.82	15.68	12.15	3.54	4.434	
400.00	400.00	400.00	400.00	2.15	2.15	61.76	7.42	13.82	15.68	11.38	4.30	3.646	
500.00	500.00	500.29	500.27	2.48	2.55	67.22	5.69	13.54	14.69	9.77	4.92	2.985	
600.00	600.00	600.34	600.17	2.77	3.64	87.74	0.50	12.73	12.75	7.26	5.49	2.323	
632.69	632.69	632.94	632.69	2.85	3.92	98.88	-1.93	12.35	12.50	6.89	5.62	2.227 CC, ES	
700.00	700.00	700.00	699.45	3.03	4.49	125.36	-8.08	11.39	13.98	7.64	6.33	2.207	
800.00	800.00	798.73	797.45	3.28	5.24	154.45	-19.95	9.54	22.26	14.31	7.95	2.800	
900.00	900.00	896.62	894.14	3.51	5.91	168.40	-35.00	7.18	36.21	27.06	9.15	3.957	
1,000.00	999.98	993.66	989.42	3.78	6.53	-36.73	-53.14	4.35	52.97	42.91	10.06	5.263	
1,083.35	1,083.22	1,075.79	1,069.76	4.28	6.76	-34.95	-69.97	1.72	66.50	55.81	10.70	6.217	
1,100.00	1,099.84	1,092.25	1,085.86	4.29	6.80	-34.82	-73.35	1.19	69.02	58.27	10.75	6.420	
1,200.00	1,199.64	1,191.10	1,182.56	4.47	7.09	-34.20	-93.62	-1.98	84.11	72.88	11.23	7.487	
1,300.00	1,299.43	1,289.95	1,279.26	4.70	7.39	-33.76	-113.89	-5.15	99.22	87.44	11.78	8.426	
1,400.00	1,399.23	1,388.80	1,375.96	4.95	7.72	-33.44	-134.16	-8.32	114.32	101.98	12.34	9.264	
1,500.00	1,499.02	1,487.65	1,472.66	5.20	8.05	-33.20	-154.43	-11.49	129.43	116.51	12.93	10.012	
1,600.00	1,598.82	1,586.50	1,569.35	5.47	8.40	-33.00	-174.70	-14.66	144.55	131.01	13.54	10.679	
1,700.00	1,698.61	1,685.35	1,666.05	5.75	8.76	-32.85	-194.98	-17.83	159.66	145.50	14.16	11.276	
1,800.00	1,798.41	1,784.20	1,762.75	6.04	9.13	-32.72	-215.25	-21.00	174.77	159.97	14.80	11.809	
1,900.00	1,898.20	1,883.05	1,859.45	6.34	9.51	-32.61	-235.52	-24.17	189.89	174.44	15.45	12.288	
2,000.00	1,998.00	1,981.90	1,956.14	6.64	9.90	-32.51	-255.79	-27.33	205.00	188.89	16.12	12.718	
2,100.00	2,097.79	2,080.75	2,052.84	6.94	10.29	-32.43	-276.06	-30.50	220.12	203.33	16.79	13.106	
2,200.00	2,197.59	2,179.61	2,149.54	7.26	10.69	-32.36	-296.33	-33.67	235.24	217.76	17.48	13.457	
2,300.00	2,297.38	2,278.46	2,246.24	7.57	11.10	-32.30	-316.60	-36.84	250.35	232.18	18.17	13.775	
2,400.00	2,397.18	2,377.31	2,342.93	7.89	11.51	-32.25	-336.87	-40.01	265.47	246.60	18.88	14.064	
2,500.00	2,496.97	2,476.16	2,439.63	8.22	11.92	-32.20	-357.15	-43.18	280.59	261.00	19.58	14.327	
2,600.00	2,596.77	2,575.01	2,536.33	8.54	12.34	-32.15	-377.42	-46.35	295.71	275.41	20.30	14.568	
2,700.00	2,696.57	2,673.86	2,633.03	8.87	12.76	-32.11	-397.69	-49.52	310.82	289.81	21.02	14.789	
2,800.00	2,796.36	2,772.71	2,729.73	9.21	13.19	-32.08	-417.96	-52.69	325.94	304.20	21.74	14.991	
2,900.00	2,896.16	2,871.56	2,826.42	9.54	13.61	-32.05	-438.23	-55.86	341.06	318.59	22.47	15.178	
3,000.00	2,995.95	2,970.41	2,923.12	9.87	14.04	-32.02	-458.50	-59.03	356.18	332.97	23.20	15.350	
3,100.00	3,095.75	3,069.26	3,019.82	10.21	14.48	-31.99	-478.77	-62.20	371.30	347.36	23.94	15.509	
3,200.00	3,195.54	3,168.11	3,116.52	10.55	14.91	-31.96	-499.04	-65.36	386.41	361.73	24.68	15.657	
3,300.00	3,295.34	3,266.96	3,213.21	10.89	15.35	-31.94	-519.32	-68.53	401.53	376.11	25.42	15.794	
3,400.00	3,395.13	3,365.81	3,309.91	11.23	15.79	-31.92	-539.59	-71.70	416.65	390.48	26.17	15.922	
3,500.00	3,494.93	3,464.66	3,406.61	11.58	16.23	-31.90	-559.86	-74.87	431.77	404.85	26.92	16.041	
3,600.00	3,594.72	3,563.51	3,503.31	11.92	16.67	-31.88	-580.13	-78.04	446.89	419.22	27.67	16.152	
3,700.00	3,694.52	3,662.36	3,600.00	12.26	17.12	-31.86	-600.40	-81.21	462.01	433.59	28.42	16.256	
3,800.00	3,794.31	3,761.21	3,696.70	12.61	17.56	-31.85	-620.67	-84.38	477.12	447.95	29.18	16.354	
3,900.00	3,894.11	3,860.06	3,793.40	12.96	18.01	-31.83	-640.94	-87.55	492.24	462.31	29.93	16.446	
4,000.00	3,993.90	3,958.91	3,890.10	13.30	18.46	-31.82	-661.21	-90.72	507.36	476.67	30.69	16.532	
4,100.00	4,093.70	4,057.76	3,986.80	13.65	18.90	-31.80	-681.49	-93.89	522.48	491.03	31.45	16.613	
4,200.00	4,193.49	4,156.61	4,083.49	14.00	19.35	-31.79	-701.76	-97.06	537.60	505.39	32.21	16.690	
4,300.00	4,293.29	4,255.47	4,180.19	14.35	19.81	-31.78	-722.03	-100.23	552.72	519.74	32.97	16.762	
4,400.00	4,393.08	4,354.32	4,276.89	14.70	20.26	-31.76	-742.30	-103.39	567.84	534.10	33.74	16.831	
4,500.00	4,492.88	4,453.17	4,373.59	15.05	20.71	-31.75	-762.57	-106.56	582.95	548.45	34.50	16.896	
4,600.00	4,592.68	4,552.02	4,470.28	15.40	21.16	-31.74	-782.84	-109.73	598.07	562.80	35.27	16.957	
4,700.00	4,692.47	4,650.87	4,566.98	15.75	21.62	-31.73	-803.11	-112.90	613.19	577.15	36.04	17.016	
4,800.00	4,792.27	4,749.72	4,663.68	16.10	22.07	-31.72	-823.38	-116.07	628.31	591.50	36.81	17.071	
4,900.00	4,892.06	4,848.57	4,760.38	16.45	22.53	-31.72	-843.66	-119.24	643.43	605.85	37.57	17.124	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,947.42	4,857.07	16.81	22.98	-31.71	-863.93	-122.41	658.55	620.20	38.35	17.174	
5,100.00	5,091.85	5,046.27	4,953.77	17.16	23.44	-31.70	-884.20	-125.58	673.67	634.55	39.12	17.222	
5,200.00	5,191.45	5,145.12	5,050.47	17.51	23.90	-31.69	-904.47	-128.75	688.79	648.90	39.89	17.268	
5,300.00	5,291.24	5,243.97	5,147.17	17.87	24.35	-31.68	-924.74	-131.92	703.90	663.24	40.66	17.312	
5,400.00	5,391.04	5,342.82	5,243.87	18.22	24.81	-31.68	-945.01	-135.09	719.02	677.59	41.43	17.353	
5,500.00	5,490.83	5,441.67	5,340.56	18.57	25.27	-31.67	-965.28	-138.26	734.14	691.93	42.21	17.393	
5,600.00	5,590.63	5,540.52	5,437.26	18.93	25.73	-31.66	-985.55	-141.42	749.26	706.28	42.98	17.432	
5,700.00	5,690.42	5,639.37	5,533.96	19.28	26.19	-31.66	-1,005.83	-144.59	764.38	720.62	43.76	17.468	
5,800.00	5,790.22	5,738.22	5,630.66	19.64	26.65	-31.65	-1,026.10	-147.76	779.50	734.96	44.53	17.503	
5,900.00	5,890.01	5,837.07	5,727.35	19.99	27.11	-31.64	-1,046.37	-150.93	794.62	749.31	45.31	17.537	
6,000.00	5,989.81	5,935.92	5,824.05	20.35	27.57	-31.64	-1,066.64	-154.10	809.74	763.65	46.09	17.570	
6,100.00	6,089.60	6,034.77	5,920.75	20.70	28.03	-31.63	-1,086.91	-157.27	824.85	777.99	46.86	17.601	
6,200.00	6,189.40	6,133.62	6,017.45	21.06	28.49	-31.63	-1,107.18	-160.44	839.97	792.33	47.64	17.631	
6,300.00	6,289.19	6,232.47	6,114.15	21.41	28.95	-31.62	-1,127.45	-163.61	855.09	806.67	48.42	17.659	
6,400.00	6,388.99	6,331.32	6,210.84	21.77	29.41	-31.62	-1,147.72	-166.78	870.21	821.01	49.20	17.687	
6,498.43	6,487.22	6,428.63	6,306.02	22.12	29.87	-31.61	-1,167.68	-169.90	885.09	835.13	49.97	17.714	
6,500.00	6,488.79	6,430.18	6,307.54	22.12	29.87	-33.66	-1,168.00	-169.95	885.33	835.35	49.98	17.714	
6,550.00	6,538.54	6,479.52	6,355.81	22.32	30.11	-66.51	-1,178.12	-171.53	892.95	842.60	50.35	17.735	
6,600.00	6,587.76	6,528.47	6,403.69	22.59	30.33	-75.71	-1,188.15	-173.10	900.67	849.97	50.70	17.765	
6,650.00	6,636.08	6,576.64	6,450.81	22.84	30.56	-79.79	-1,198.03	-174.64	908.53	857.61	50.92	17.841	
6,700.00	6,683.13	6,623.66	6,496.81	23.07	30.78	-82.20	-1,207.67	-176.15	916.62	865.54	51.08	17.946	
6,750.00	6,728.55	6,676.03	6,547.94	23.29	31.02	-83.97	-1,218.35	-179.69	924.93	873.68	51.25	18.048	
6,800.00	6,771.99	6,731.38	6,601.42	23.51	31.29	-85.30	-1,229.41	-188.55	933.22	881.73	51.49	18.123	
6,850.00	6,813.13	6,789.09	6,656.05	23.72	31.57	-86.36	-1,240.59	-203.36	941.40	889.61	51.79	18.176	
6,900.00	6,851.64	6,849.37	6,711.26	23.94	31.83	-87.25	-1,251.76	-224.73	949.37	897.24	52.13	18.212	
6,950.00	6,887.25	6,912.38	6,766.33	24.16	32.06	-88.00	-1,262.74	-253.25	957.00	904.48	52.52	18.222	
7,000.00	6,919.67	6,978.24	6,820.27	24.38	32.27	-88.65	-1,273.32	-289.47	964.17	911.18	52.99	18.194	
7,050.00	6,948.65	7,046.99	6,871.88	24.62	32.48	-89.22	-1,283.24	-333.73	970.74	917.15	53.59	18.115	
7,100.00	6,973.99	7,118.56	6,919.71	24.88	32.73	-89.69	-1,292.20	-386.13	976.58	922.24	54.34	17.973	
7,150.00	6,995.49	7,192.73	6,962.17	25.18	33.04	-90.07	-1,299.86	-446.40	981.55	926.30	55.25	17.764	
7,200.00	7,012.97	7,269.12	6,997.59	25.51	33.47	-90.35	-1,305.89	-513.75	985.54	929.16	56.38	17.480	
7,250.00	7,026.32	7,347.20	7,024.43	25.89	34.06	-90.50	-1,310.00	-586.90	988.44	930.73	57.70	17.130	
7,300.00	7,035.43	7,426.30	7,041.46	26.33	34.83	-90.54	-1,311.95	-664.05	990.18	930.93	59.25	16.713	
7,350.00	7,040.22	7,505.63	7,047.95	26.84	35.74	-90.44	-1,311.65	-743.05	990.72	929.77	60.96	16.252	
7,377.13	7,041.00	7,534.71	7,048.12	27.14	36.12	-90.41	-1,311.08	-772.12	990.69	928.94	61.74	16.045	
7,377.14	7,041.00	7,534.71	7,048.12	27.14	36.12	-90.41	-1,311.08	-772.12	990.69	928.94	61.74	16.045	
7,400.00	7,041.12	7,557.57	7,048.24	27.41	36.42	-90.41	-1,310.62	-794.98	990.69	928.30	62.39	15.880	
7,500.00	7,041.64	7,657.57	7,048.76	28.77	37.84	-90.41	-1,308.63	-894.96	990.69	925.29	65.40	15.148	
7,600.00	7,042.16	7,757.57	7,049.28	30.39	39.40	-90.41	-1,306.63	-994.94	990.69	921.97	68.72	14.416	
7,700.00	7,042.67	7,857.57	7,049.80	32.22	41.08	-90.41	-1,304.63	-1,094.92	990.69	918.39	72.30	13.703	
7,800.00	7,043.19	7,957.57	7,050.31	34.20	42.85	-90.41	-1,302.64	-1,194.90	990.69	914.59	76.10	13.018	
7,900.00	7,043.71	8,057.57	7,050.83	36.31	44.72	-90.41	-1,300.64	-1,294.88	990.69	910.60	80.09	12.370	
8,000.00	7,044.23	8,157.57	7,051.35	38.52	46.67	-90.41	-1,298.64	-1,394.86	990.69	906.44	84.24	11.760	
8,100.00	7,044.75	8,257.57	7,051.87	40.80	48.68	-90.41	-1,296.65	-1,494.83	990.69	902.15	88.54	11.189	
8,200.00	7,045.26	8,357.57	7,052.39	43.15	50.76	-90.41	-1,294.65	-1,594.81	990.69	897.73	92.95	10.658	
8,300.00	7,045.78	8,457.57	7,052.91	45.54	52.89	-90.41	-1,292.65	-1,694.79	990.69	893.21	97.47	10.164	
8,400.00	7,046.30	8,557.57	7,053.42	47.97	55.07	-90.41	-1,290.66	-1,794.77	990.69	888.60	102.09	9.704	
8,500.00	7,046.82	8,657.57	7,053.94	50.44	57.29	-90.41	-1,288.66	-1,894.75	990.69	883.91	106.78	9.278	
8,600.00	7,047.34	8,757.57	7,054.46	52.94	59.56	-90.41	-1,286.66	-1,994.73	990.69	879.15	111.54	8.882	
8,700.00	7,047.86	8,857.57	7,054.98	55.46	61.86	-90.41	-1,284.67	-2,094.71	990.69	874.32	116.36	8.514	
8,800.00	7,048.37	8,957.57	7,055.50	58.00	64.19	-90.41	-1,282.67	-2,194.69	990.69	869.45	121.24	8.171	
8,900.00	7,048.89	9,057.57	7,056.02	60.56	66.55	-90.41	-1,280.67	-2,294.66	990.69	864.52	126.17	7.852	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HNB-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program:		0-MWD										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
9,000.00	7,049.41	9,157.57	7,056.53	63.13	68.94	-90.41	-1,278.68	-2,394.64	990.69	859.55	131.14	7.555	
9,100.00	7,049.93	9,257.57	7,057.05	65.72	71.35	-90.41	-1,276.68	-2,494.62	990.69	854.55	136.14	7.277	
9,200.00	7,050.45	9,357.57	7,057.57	68.32	73.78	-90.41	-1,274.68	-2,594.60	990.69	849.50	141.19	7.017	
9,300.00	7,050.97	9,457.57	7,058.09	70.93	76.23	-90.41	-1,272.69	-2,694.58	990.69	844.43	146.26	6.774	
9,400.00	7,051.48	9,557.57	7,058.61	73.55	78.70	-90.41	-1,270.69	-2,794.56	990.69	839.33	151.36	6.545	
9,500.00	7,052.00	9,657.57	7,059.13	76.18	81.18	-90.41	-1,268.69	-2,894.54	990.69	834.21	156.48	6.331	
9,600.00	7,052.52	9,757.57	7,059.64	78.81	83.68	-90.41	-1,266.70	-2,994.51	990.69	829.06	161.63	6.129	
9,700.00	7,053.04	9,857.57	7,060.16	81.46	86.20	-90.41	-1,264.70	-3,094.49	990.69	823.89	166.80	5.939	
9,800.00	7,053.56	9,957.57	7,060.68	84.10	88.72	-90.41	-1,262.70	-3,194.47	990.69	818.71	171.98	5.760	
9,900.00	7,054.08	10,057.57	7,061.20	86.76	91.26	-90.41	-1,260.71	-3,294.45	990.69	813.50	177.19	5.591	
10,000.00	7,054.59	10,157.57	7,061.72	89.42	93.81	-90.41	-1,258.71	-3,394.43	990.69	808.28	182.41	5.431	
10,100.00	7,055.11	10,257.57	7,062.23	92.08	96.37	-90.41	-1,256.72	-3,494.41	990.69	803.05	187.64	5.280	
10,200.00	7,055.63	10,357.57	7,062.75	94.75	98.94	-90.41	-1,254.72	-3,594.39	990.69	797.80	192.89	5.136	
10,300.00	7,056.15	10,457.57	7,063.27	97.42	101.51	-90.41	-1,252.72	-3,694.37	990.69	792.54	198.15	5.000	
10,400.00	7,056.67	10,557.57	7,063.79	100.10	104.10	-90.41	-1,250.73	-3,794.34	990.69	787.27	203.42	4.870	
10,500.00	7,057.18	10,657.57	7,064.31	102.78	106.69	-90.41	-1,248.73	-3,894.32	990.69	781.99	208.70	4.747	
10,600.00	7,057.70	10,757.57	7,064.83	105.46	109.29	-90.41	-1,246.73	-3,994.30	990.69	776.70	213.99	4.630	
10,700.00	7,058.22	10,857.57	7,065.34	108.14	111.89	-90.41	-1,244.74	-4,094.28	990.69	771.40	219.29	4.518	
10,800.00	7,058.74	10,957.57	7,065.86	110.83	114.51	-90.41	-1,242.74	-4,194.26	990.69	766.09	224.60	4.411	
10,900.00	7,059.26	11,057.57	7,066.38	113.52	117.12	-90.41	-1,240.74	-4,294.24	990.69	760.78	229.92	4.309	
11,000.00	7,059.78	11,157.57	7,066.90	116.21	119.74	-90.41	-1,238.75	-4,394.22	990.69	755.45	235.24	4.211	
11,100.00	7,060.29	11,257.57	7,067.42	118.90	122.37	-90.41	-1,236.75	-4,494.20	990.69	750.12	240.57	4.118	
11,200.00	7,060.81	11,357.57	7,067.94	121.60	125.00	-90.41	-1,234.75	-4,594.17	990.69	744.79	245.91	4.029	
11,300.00	7,061.33	11,457.57	7,068.45	124.30	127.64	-90.41	-1,232.76	-4,694.15	990.69	739.44	251.25	3.943	
11,400.00	7,061.85	11,557.57	7,068.97	127.00	130.28	-90.41	-1,230.76	-4,794.13	990.69	734.10	256.60	3.861	
11,500.00	7,062.37	11,657.57	7,069.49	129.70	132.92	-90.41	-1,228.76	-4,894.11	990.69	728.74	261.95	3.782	
11,600.00	7,062.89	11,757.57	7,070.01	132.40	135.57	-90.41	-1,226.77	-4,994.09	990.69	723.38	267.31	3.706	
11,700.00	7,063.40	11,857.57	7,070.53	135.10	138.22	-90.41	-1,224.77	-5,094.07	990.69	718.02	272.67	3.633	
11,800.00	7,063.92	11,957.57	7,071.04	137.81	140.87	-90.41	-1,222.77	-5,194.05	990.69	712.65	278.04	3.563	
11,900.00	7,064.44	12,057.57	7,071.56	140.51	143.53	-90.41	-1,220.78	-5,294.03	990.69	707.28	283.41	3.496	
12,000.00	7,064.96	12,157.57	7,072.08	143.22	146.19	-90.41	-1,218.78	-5,394.00	990.69	701.91	288.78	3.431	
12,100.00	7,065.48	12,257.57	7,072.60	145.93	148.85	-90.41	-1,216.78	-5,493.98	990.69	696.53	294.16	3.368	
12,200.00	7,066.00	12,357.57	7,073.12	148.64	151.52	-90.41	-1,214.79	-5,593.96	990.69	691.15	299.54	3.307	
12,300.00	7,066.51	12,457.57	7,073.64	151.35	154.19	-90.41	-1,212.79	-5,693.94	990.69	685.76	304.93	3.249	
12,400.00	7,067.03	12,557.57	7,074.15	154.06	156.86	-90.41	-1,210.80	-5,793.92	990.69	680.37	310.32	3.193	
12,500.00	7,067.55	12,657.57	7,074.67	156.77	159.53	-90.41	-1,208.80	-5,893.90	990.69	674.98	315.71	3.138	
12,600.00	7,068.07	12,757.57	7,075.19	159.49	162.20	-90.41	-1,206.80	-5,993.88	990.69	669.59	321.10	3.085	
12,700.00	7,068.59	12,857.57	7,075.71	162.20	164.88	-90.41	-1,204.81	-6,093.86	990.69	664.19	326.50	3.034	
12,800.00	7,069.11	12,957.57	7,076.23	164.92	167.56	-90.41	-1,202.81	-6,193.83	990.69	658.79	331.90	2.985	
12,900.00	7,069.62	13,057.57	7,076.75	167.63	170.24	-90.41	-1,200.81	-6,293.81	990.69	653.39	337.30	2.937	
13,000.00	7,070.14	13,157.57	7,077.26	170.35	172.92	-90.41	-1,198.82	-6,393.79	990.69	647.99	342.71	2.891	
13,100.00	7,070.66	13,257.57	7,077.78	173.07	175.60	-90.41	-1,196.82	-6,493.77	990.69	642.58	348.11	2.846	
13,200.00	7,071.18	13,357.57	7,078.30	175.78	178.29	-90.41	-1,194.82	-6,593.75	990.69	637.17	353.52	2.802	
13,300.00	7,071.70	13,457.57	7,078.82	178.50	180.98	-90.41	-1,192.83	-6,693.73	990.69	631.76	358.93	2.760	
13,400.00	7,072.21	13,557.57	7,079.34	181.22	183.66	-90.41	-1,190.83	-6,793.71	990.69	626.35	364.35	2.719	
13,500.00	7,072.73	13,657.57	7,079.86	183.94	186.35	-90.41	-1,188.83	-6,893.69	990.69	620.93	369.76	2.679	
13,600.00	7,073.25	13,757.57	7,080.37	186.66	189.04	-90.41	-1,186.84	-6,993.66	990.69	615.52	375.18	2.641	
13,700.00	7,073.77	13,857.57	7,080.89	189.38	191.74	-90.41	-1,184.84	-7,093.64	990.69	610.10	380.59	2.603	
13,800.00	7,074.29	13,957.57	7,081.41	192.10	194.43	-90.41	-1,182.84	-7,193.62	990.69	604.68	386.01	2.566	
13,900.00	7,074.81	14,057.57	7,081.93	194.82	197.13	-90.41	-1,180.85	-7,293.60	990.69	599.26	391.43	2.531	
14,000.00	7,075.32	14,157.57	7,082.45	197.54	199.82	-90.41	-1,178.85	-7,393.58	990.69	593.84	396.86	2.496	
14,100.00	7,075.84	14,257.57	7,082.96	200.27	202.52	-90.41	-1,176.85	-7,493.56	990.69	588.41	402.28	2.463	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7X-HNB-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program:		0-MWD						Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,076.36	14,357.57	7,083.48	202.99	205.22	-90.41	-1,174.86	-7,593.54	990.69	582.99	407.71	2.430	
14,300.00	7,076.88	14,457.57	7,084.00	205.71	207.92	-90.41	-1,172.86	-7,693.52	990.69	577.56	413.13	2.398	
14,400.00	7,077.40	14,557.57	7,084.52	208.44	210.62	-90.41	-1,170.86	-7,793.49	990.69	572.13	418.56	2.367	
14,500.00	7,077.92	14,657.57	7,085.04	211.16	213.32	-90.41	-1,168.87	-7,893.47	990.69	566.70	423.99	2.337	
14,600.00	7,078.43	14,757.57	7,085.56	213.88	216.02	-90.41	-1,166.87	-7,993.45	990.69	561.27	429.42	2.307	
14,700.00	7,078.95	14,857.57	7,086.07	216.61	218.72	-90.41	-1,164.88	-8,093.43	990.69	555.84	434.85	2.278	
14,800.00	7,079.47	14,957.57	7,086.59	219.33	221.43	-90.41	-1,162.88	-8,193.41	990.69	550.41	440.28	2.250	
14,900.00	7,079.99	15,057.57	7,087.11	222.06	224.13	-90.41	-1,160.88	-8,293.39	990.69	544.98	445.72	2.223	
15,000.00	7,080.51	15,157.57	7,087.63	224.78	226.83	-90.41	-1,158.89	-8,393.37	990.70	539.54	451.15	2.196	
15,100.00	7,081.03	15,257.57	7,088.15	227.51	229.54	-90.41	-1,156.89	-8,493.34	990.70	534.11	456.59	2.170	
15,200.00	7,081.54	15,357.57	7,088.67	230.24	232.25	-90.41	-1,154.89	-8,593.32	990.70	528.67	462.02	2.144	
15,300.00	7,082.06	15,457.57	7,089.18	232.96	234.95	-90.41	-1,152.90	-8,693.30	990.70	523.23	467.46	2.119	
15,400.00	7,082.58	15,557.57	7,089.70	235.69	237.66	-90.41	-1,150.90	-8,793.28	990.70	517.80	472.90	2.095	
15,500.00	7,083.10	15,657.57	7,090.22	238.41	240.37	-90.41	-1,148.90	-8,893.26	990.70	512.36	478.34	2.071	
15,600.00	7,083.62	15,757.57	7,090.74	241.14	243.08	-90.41	-1,146.91	-8,993.24	990.70	506.92	483.78	2.048	
15,700.00	7,084.13	15,857.57	7,091.26	243.87	245.79	-90.41	-1,144.91	-9,093.22	990.70	501.48	489.22	2.025	
15,800.00	7,084.65	15,957.57	7,091.77	246.60	248.50	-90.41	-1,142.91	-9,193.20	990.70	496.04	494.66	2.003	
15,900.00	7,085.17	16,057.57	7,092.29	249.32	251.21	-90.41	-1,140.92	-9,293.17	990.70	490.59	500.10	1.981	Collision Risk Procedures Req.
16,000.00	7,085.69	16,157.57	7,092.81	252.05	253.92	-90.41	-1,138.92	-9,393.15	990.70	485.15	505.55	1.960	Collision Risk Procedures Req.
16,100.00	7,086.21	16,257.57	7,093.33	254.78	256.64	-90.41	-1,136.92	-9,493.13	990.70	479.71	510.99	1.939	Collision Risk Procedures Req.
16,200.00	7,086.73	16,357.57	7,093.85	257.51	259.35	-90.41	-1,134.93	-9,593.11	990.70	474.26	516.43	1.918	Collision Risk Procedures Req.
16,300.00	7,087.24	16,457.57	7,094.37	260.24	262.06	-90.41	-1,132.93	-9,693.09	990.70	468.82	521.88	1.898	Collision Risk Procedures Req.
16,400.00	7,087.76	16,557.57	7,094.88	262.97	264.78	-90.41	-1,130.93	-9,793.07	990.70	463.37	527.32	1.879	Collision Risk Procedures Req.
16,500.00	7,088.28	16,657.57	7,095.40	265.69	267.49	-90.41	-1,128.94	-9,893.05	990.70	457.93	532.77	1.860	Collision Risk Procedures Req.
16,600.00	7,088.80	16,757.57	7,095.92	268.42	270.21	-90.41	-1,126.94	-9,993.03	990.70	452.48	538.22	1.841	Collision Risk Procedures Req.
16,700.00	7,089.32	16,857.57	7,096.44	271.15	272.92	-90.41	-1,124.94	-10,093.00	990.70	447.03	543.66	1.822	Collision Risk Procedures Req.
16,800.00	7,089.84	16,957.57	7,096.96	273.88	275.64	-90.41	-1,122.95	-10,192.98	990.70	441.59	549.11	1.804	Collision Risk Procedures Req.
16,900.00	7,090.35	17,057.57	7,097.48	276.61	278.35	-90.41	-1,120.95	-10,292.96	990.70	436.14	554.56	1.786	Collision Risk Procedures Req.
17,000.00	7,090.87	17,157.57	7,097.99	279.34	281.07	-90.41	-1,118.96	-10,392.94	990.70	430.69	560.01	1.769	Collision Risk Procedures Req.
17,024.65	7,091.00	17,158.82	7,098.00	280.01	281.10	-90.41	-1,118.93	-10,394.18	990.97	430.05	560.93	1.767	Collision Risk Procedures Req., SF

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-149.55	-190.54	-112.03	221.04				
100.00	100.00	98.00	98.00	0.48	0.47	-149.55	-190.54	-112.03	221.03	220.07	0.96	231.316	
200.00	200.00	198.00	198.00	1.28	1.27	-149.55	-190.54	-112.03	221.03	218.48	2.55	86.726	
300.00	300.00	298.00	298.00	1.77	1.76	-149.55	-190.54	-112.03	221.03	217.50	3.53	62.661	
400.00	400.00	398.00	398.00	2.15	2.14	-149.55	-190.54	-112.03	221.03	216.74	4.29	51.481	
500.00	500.00	498.00	498.00	2.48	2.47	-149.55	-190.54	-112.03	221.03	216.08	4.95	44.678	
600.00	600.00	598.00	598.00	2.77	2.76	-149.55	-190.54	-112.03	221.03	215.50	5.53	39.977 CC	
700.00	700.00	697.24	697.22	3.03	3.13	-149.97	-191.51	-110.69	221.20	215.20	6.00	36.883	
800.00	800.00	796.24	796.08	3.28	4.03	-151.27	-194.48	-106.59	221.78	215.30	6.49	34.185	
900.00	900.00	894.76	894.24	3.51	4.81	-153.42	-199.43	-99.77	223.03	216.06	6.97	32.016	
1,000.00	999.98	992.60	991.37	3.78	5.50	-7.57	-206.31	-90.29	223.57	216.06	7.51	29.756	
1,083.35	1,083.22	1,073.41	1,071.26	4.28	6.04	-10.77	-213.46	-80.44	222.57	214.29	8.28	26.872	
1,100.00	1,099.84	1,089.46	1,087.08	4.29	6.14	-11.48	-215.03	-78.27	222.30	213.95	8.35	26.608	
1,156.11	1,155.83	1,143.32	1,140.07	4.39	6.48	-14.05	-220.70	-70.45	221.89	213.20	8.69	25.547	
1,200.00	1,199.64	1,185.19	1,181.13	4.47	6.74	-16.22	-225.52	-63.82	222.17	213.20	8.96	24.785 ES	
1,300.00	1,299.43	1,279.65	1,273.30	4.70	7.31	-21.56	-237.66	-47.08	225.14	215.42	9.72	23.160	
1,400.00	1,399.23	1,372.67	1,363.33	4.95	7.85	-27.28	-251.36	-28.20	231.97	221.39	10.58	21.921	
1,500.00	1,499.02	1,464.07	1,451.03	5.20	8.38	-33.09	-266.49	-7.36	243.24	231.74	11.50	21.144	
1,600.00	1,598.82	1,553.73	1,536.21	5.47	8.88	-38.73	-282.92	15.28	259.30	246.87	12.43	20.855 SF	
1,700.00	1,698.61	1,641.53	1,618.74	5.75	9.37	-44.00	-300.51	39.53	280.24	266.92	13.33	21.026	
1,800.00	1,798.41	1,727.36	1,698.48	6.04	9.84	-48.77	-319.14	65.20	305.96	291.79	14.16	21.602	
1,900.00	1,898.20	1,811.13	1,775.37	6.34	10.29	-53.00	-338.67	92.11	336.18	321.25	14.93	22.518	
2,000.00	1,998.00	1,892.79	1,849.35	6.64	10.73	-56.68	-358.96	120.08	370.58	354.95	15.63	23.710	
2,100.00	2,097.79	1,972.28	1,920.40	6.94	11.14	-59.87	-379.90	148.94	408.81	392.54	16.27	25.126	
2,200.00	2,197.59	2,049.57	1,988.50	7.26	11.55	-62.61	-401.37	178.52	450.56	433.70	16.86	26.723	
2,300.00	2,297.38	2,124.65	2,053.69	7.57	11.94	-64.96	-423.24	208.66	495.52	478.11	17.41	28.464	
2,400.00	2,397.18	2,200.00	2,118.11	7.89	12.32	-67.04	-446.20	240.30	543.43	525.47	17.96	30.256	
2,500.00	2,496.97	2,268.15	2,175.47	8.22	12.66	-68.72	-467.81	270.08	594.05	575.64	18.41	32.274	
2,600.00	2,596.77	2,336.60	2,232.18	8.54	13.00	-70.22	-490.31	301.10	647.18	628.31	18.86	34.308	
2,700.00	2,696.57	2,400.00	2,283.88	8.87	13.33	-71.47	-511.87	330.80	702.64	683.37	19.26	36.475	
2,800.00	2,796.36	2,467.01	2,337.63	9.21	13.64	-72.66	-535.37	363.19	760.25	740.53	19.72	38.555	
2,900.00	2,896.16	2,529.06	2,386.55	9.54	13.92	-73.65	-557.78	394.08	819.89	799.81	20.08	40.825	
3,000.00	2,995.95	2,596.31	2,438.73	9.87	14.31	-74.61	-582.70	428.41	881.29	860.79	20.50	42.992	
3,100.00	3,095.75	2,673.87	2,498.74	10.21	15.25	-75.60	-611.55	468.18	943.17	922.15	21.02	44.862	
3,200.00	3,195.54	2,751.43	2,558.75	10.55	16.26	-76.47	-640.41	507.94	1,005.21	983.67	21.54	46.672	
3,300.00	3,295.34	2,828.98	2,618.76	10.89	17.26	-77.23	-669.26	547.71	1,067.37	1,045.30	22.07	48.370	
3,400.00	3,395.13	2,906.54	2,678.77	11.23	18.27	-77.92	-698.12	587.47	1,129.64	1,107.04	22.60	49.974	
3,500.00	3,494.93	2,984.10	2,738.79	11.58	19.28	-78.53	-726.97	627.24	1,192.00	1,168.85	23.16	51.478	
3,600.00	3,594.72	3,061.66	2,798.80	11.92	20.29	-79.08	-755.83	667.00	1,254.44	1,230.73	23.71	52.902	
3,700.00	3,694.52	3,139.22	2,858.81	12.26	21.31	-79.59	-784.68	706.77	1,316.94	1,292.67	24.27	54.251	
3,800.00	3,794.31	3,216.77	2,918.82	12.61	22.33	-80.04	-813.54	746.53	1,379.50	1,354.66	24.84	55.530	
3,900.00	3,894.11	3,294.33	2,978.83	12.96	23.35	-80.46	-842.39	786.30	1,442.11	1,416.69	25.42	56.738	
4,000.00	3,993.90	3,371.89	3,038.84	13.30	24.38	-80.84	-871.25	826.07	1,504.76	1,478.76	26.00	57.878	
4,100.00	4,093.70	3,449.45	3,098.86	13.65	25.41	-81.20	-900.10	865.83	1,567.45	1,540.87	26.58	58.960	
4,200.00	4,193.49	3,527.01	3,158.87	14.00	26.44	-81.52	-928.96	905.60	1,630.17	1,603.00	27.18	59.988	
4,300.00	4,293.29	3,604.56	3,218.88	14.35	27.47	-81.82	-957.81	945.36	1,692.93	1,665.16	27.77	60.962	
4,400.00	4,393.08	3,682.12	3,278.89	14.70	28.50	-82.10	-986.67	985.13	1,755.71	1,727.34	28.37	61.884	
4,500.00	4,492.88	3,759.68	3,338.90	15.05	29.54	-82.36	-1,015.52	1,024.89	1,818.51	1,789.53	28.98	62.759	
4,600.00	4,592.68	3,837.24	3,398.91	15.40	30.57	-82.61	-1,044.38	1,064.66	1,881.34	1,851.75	29.58	63.592	
4,700.00	4,692.47	3,914.80	3,458.92	15.75	31.61	-82.84	-1,073.23	1,104.42	1,944.18	1,913.98	30.20	64.384	
4,800.00	4,792.27	3,992.35	3,518.94	16.10	32.65	-83.05	-1,102.09	1,144.19	2,007.04	1,976.23	30.81	65.137	
4,900.00	4,892.06	4,069.91	3,578.95	16.45	33.68	-83.25	-1,130.94	1,183.95	2,069.92	2,038.49	31.43	65.851	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,147.47	3,638.96	16.81	34.72	-83.44	-1,159.80	1,223.72	2,132.81	2,100.76	32.06	66.532	
5,100.00	5,091.85	4,225.03	3,698.97	17.16	35.76	-83.62	-1,188.65	1,263.48	2,195.72	2,163.04	32.68	67.182	
5,200.00	5,191.45	4,302.59	3,758.98	17.51	36.80	-83.79	-1,217.51	1,303.25	2,258.64	2,225.32	33.31	67.801	
5,300.00	5,291.24	4,380.14	3,818.99	17.87	37.85	-83.95	-1,246.36	1,343.01	2,321.57	2,287.62	33.95	68.390	
5,400.00	5,391.04	4,457.70	3,879.01	18.22	38.89	-84.10	-1,275.22	1,382.78	2,384.51	2,349.92	34.58	68.952	
5,500.00	5,490.83	4,535.26	3,939.02	18.57	39.93	-84.24	-1,304.07	1,422.54	2,447.46	2,412.23	35.22	69.488	
5,600.00	5,590.63	4,612.82	3,999.03	18.93	40.97	-84.38	-1,332.93	1,462.31	2,510.41	2,474.55	35.86	70.001	
5,700.00	5,690.42	4,690.38	4,059.04	19.28	42.02	-84.51	-1,361.78	1,502.07	2,573.38	2,536.87	36.51	70.491	
5,800.00	5,790.22	4,767.93	4,119.05	19.64	43.06	-84.63	-1,390.64	1,541.84	2,636.35	2,599.20	37.15	70.958	
5,900.00	5,890.01	4,845.49	4,179.06	19.99	44.10	-84.75	-1,419.49	1,581.60	2,699.34	2,661.53	37.80	71.405	
6,000.00	5,989.81	4,923.05	4,239.08	20.35	45.15	-84.86	-1,448.35	1,621.37	2,762.32	2,723.87	38.46	71.832	
6,100.00	6,089.60	5,000.61	4,299.09	20.70	46.19	-84.97	-1,477.20	1,661.13	2,825.32	2,786.21	39.11	72.242	
6,200.00	6,189.40	5,078.17	4,359.10	21.06	47.24	-85.07	-1,506.05	1,700.90	2,888.32	2,848.55	39.77	72.632	
6,300.00	6,289.19	5,155.73	4,419.11	21.41	48.28	-85.17	-1,534.91	1,740.66	2,951.32	2,910.90	40.43	73.007	
6,400.00	6,388.99	5,233.28	4,479.12	21.77	49.33	-85.26	-1,563.76	1,780.43	3,014.33	2,973.24	41.09	73.365	
6,498.43	6,487.22	5,309.63	4,538.19	22.12	50.36	-85.35	-1,592.17	1,819.57	3,076.36	3,034.62	41.74	73.705	
6,500.00	6,488.79	5,310.84	4,539.13	22.12	50.37	-87.36	-1,592.62	1,820.19	3,077.35	3,035.60	41.75	73.711	
6,550.00	6,538.54	5,348.30	4,568.12	22.32	50.88	-118.33	-1,606.56	1,839.40	3,110.29	3,068.18	42.11	73.858	
6,600.00	6,587.76	5,383.09	4,595.04	22.59	51.35	-124.88	-1,619.50	1,857.24	3,145.78	3,103.25	42.53	73.964	
6,650.00	6,636.08	5,414.95	4,619.69	22.84	51.78	-125.43	-1,631.35	1,873.57	3,183.54	3,140.63	42.91	74.195	
6,700.00	6,683.13	5,443.62	4,641.87	23.07	52.17	-123.30	-1,642.02	1,888.27	3,223.31	3,180.05	43.26	74.502	
6,750.00	6,728.55	5,468.90	4,661.43	23.29	52.51	-119.31	-1,651.42	1,901.23	3,264.81	3,221.21	43.60	74.875	
6,800.00	6,771.99	5,490.58	4,678.21	23.51	52.80	-113.67	-1,659.49	1,912.35	3,307.73	3,263.81	43.92	75.307	
6,850.00	6,813.13	5,508.52	4,692.09	23.72	53.04	-106.42	-1,666.16	1,921.54	3,351.78	3,307.55	44.23	75.786	
6,900.00	6,851.64	5,522.56	4,702.95	23.94	53.23	-97.65	-1,671.39	1,928.74	3,396.64	3,352.13	44.52	76.303	
6,950.00	6,887.25	5,532.60	4,710.72	24.16	53.37	-87.73	-1,675.12	1,933.89	3,442.00	3,397.21	44.79	76.847	
7,000.00	6,919.67	5,538.57	4,715.34	24.38	53.45	-77.29	-1,677.34	1,936.95	3,487.52	3,442.47	45.05	77.408	
7,050.00	6,948.65	5,540.42	4,716.77	24.62	53.47	-67.14	-1,678.03	1,937.90	3,532.90	3,487.59	45.31	77.975	
7,100.00	6,973.99	5,538.14	4,715.01	24.88	53.44	-57.92	-1,677.18	1,936.73	3,577.79	3,532.23	45.55	78.539	
7,150.00	6,995.49	5,531.74	4,710.05	25.18	53.35	-49.99	-1,674.80	1,933.45	3,621.87	3,576.08	45.79	79.092	
7,200.00	7,012.97	5,521.27	4,701.95	25.51	53.21	-43.37	-1,670.91	1,928.08	3,664.83	3,618.81	46.02	79.628	
7,250.00	7,026.32	5,506.81	4,690.77	25.89	53.02	-37.93	-1,665.53	1,920.67	3,706.35	3,660.10	46.25	80.140	
7,300.00	7,035.43	5,488.47	4,676.58	26.33	52.77	-33.49	-1,658.71	1,911.27	3,746.11	3,699.64	46.46	80.623	
7,350.00	7,040.22	5,466.40	4,659.50	26.84	52.47	-29.85	-1,650.49	1,899.95	3,783.82	3,737.15	46.67	81.074	
7,377.14	7,041.00	5,452.91	4,649.06	27.14	52.29	-28.16	-1,645.48	1,893.03	3,803.33	3,756.59	46.74	81.376	
7,400.00	7,041.12	5,441.12	4,639.93	27.41	52.13	-27.99	-1,641.09	1,886.99	3,819.47	3,772.69	46.78	81.645	
7,500.00	7,041.64	5,389.51	4,600.01	28.77	51.44	-27.25	-1,621.89	1,860.53	3,890.48	3,843.49	46.98	82.803	
7,600.00	7,042.16	5,337.91	4,560.08	30.39	50.74	-26.52	-1,602.69	1,834.07	3,962.06	3,914.87	47.19	83.964	
7,700.00	7,042.67	5,286.31	4,520.15	32.22	50.04	-25.81	-1,583.49	1,807.61	4,034.19	3,986.81	47.38	85.143	
7,800.00	7,043.19	5,234.71	4,480.22	34.20	49.35	-25.11	-1,564.29	1,781.16	4,106.84	4,059.28	47.56	86.347	
7,900.00	7,043.71	5,183.10	4,440.30	36.31	48.65	-24.42	-1,545.10	1,754.70	4,179.99	4,132.26	47.73	87.582	
8,000.00	7,044.23	5,131.50	4,400.37	38.52	47.96	-23.75	-1,525.90	1,728.24	4,253.60	4,205.72	47.87	88.852	
8,100.00	7,044.75	5,079.90	4,360.44	40.80	47.26	-23.10	-1,506.70	1,701.78	4,327.65	4,279.65	48.00	90.160	
8,200.00	7,045.26	5,028.30	4,320.51	43.15	46.57	-22.45	-1,487.50	1,675.33	4,402.13	4,354.02	48.11	91.509	
8,300.00	7,045.78	4,976.70	4,280.58	45.54	45.87	-21.82	-1,468.30	1,648.87	4,477.00	4,428.81	48.19	92.900	
8,400.00	7,046.30	4,925.09	4,240.66	47.97	45.18	-21.20	-1,449.10	1,622.41	4,552.26	4,504.00	48.26	94.335	
8,500.00	7,046.82	4,873.49	4,200.73	50.44	44.48	-20.60	-1,429.91	1,595.96	4,627.87	4,579.57	48.30	95.815	
8,600.00	7,047.34	4,821.89	4,160.80	52.94	43.79	-20.01	-1,410.71	1,569.50	4,703.84	4,655.51	48.32	97.341	
8,700.00	7,047.86	4,770.29	4,120.87	55.46	43.09	-19.43	-1,391.51	1,543.04	4,780.12	4,731.80	48.33	98.912	
8,800.00	7,048.37	4,718.68	4,080.94	58.00	42.40	-18.86	-1,372.31	1,516.58	4,856.73	4,808.42	48.31	100.531	
8,900.00	7,048.89	4,667.08	4,041.02	60.56	41.70	-18.30	-1,353.11	1,490.13	4,933.63	4,885.35	48.28	102.195	
9,000.00	7,049.41	4,615.48	4,001.09	63.13	41.01	-17.75	-1,333.92	1,463.67	5,010.81	4,962.59	48.22	103.908	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HC-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	4,563.88	3,961.16	65.72	40.31	-17.22	-1,314.72	1,437.21	5,088.26	5,040.11	48.15	105.666	
9,200.00	7,050.45	4,512.28	3,921.23	68.32	39.62	-16.69	-1,295.52	1,410.76	5,165.98	5,117.91	48.07	107.471	
9,300.00	7,050.97	4,460.67	3,881.30	70.93	38.93	-16.18	-1,276.32	1,384.30	5,243.94	5,195.97	47.97	109.323	
9,400.00	7,051.48	4,409.07	3,841.38	73.55	38.23	-15.67	-1,257.12	1,357.84	5,322.14	5,274.28	47.85	111.221	
9,500.00	7,052.00	4,357.47	3,801.45	76.18	37.54	-15.18	-1,237.92	1,331.38	5,400.56	5,352.84	47.72	113.164	
9,600.00	7,052.52	4,305.87	3,761.52	78.81	36.85	-14.70	-1,218.73	1,304.93	5,479.20	5,431.62	47.58	115.155	
9,700.00	7,053.04	4,254.26	3,721.59	81.46	36.16	-14.22	-1,199.53	1,278.47	5,558.05	5,510.62	47.43	117.188	
9,800.00	7,053.56	4,202.66	3,681.66	84.10	35.46	-13.76	-1,180.33	1,252.01	5,637.10	5,589.83	47.26	119.269	
9,900.00	7,054.08	4,151.06	3,641.74	86.76	34.77	-13.30	-1,161.13	1,225.56	5,716.33	5,669.24	47.09	121.390	
10,000.00	7,054.59	4,099.46	3,601.81	89.42	34.08	-12.86	-1,141.93	1,199.10	5,795.75	5,748.85	46.91	123.558	
10,100.00	7,055.11	4,047.86	3,561.88	92.08	33.39	-12.42	-1,122.74	1,172.64	5,875.35	5,828.63	46.72	125.766	
10,200.00	7,055.63	3,996.25	3,521.95	94.75	32.70	-11.99	-1,103.54	1,146.18	5,955.11	5,908.60	46.52	128.018	
10,300.00	7,056.15	3,944.65	3,482.03	97.42	32.01	-11.57	-1,084.34	1,119.73	6,035.04	5,988.72	46.31	130.308	
10,400.00	7,056.67	3,893.05	3,442.10	100.10	31.32	-11.16	-1,065.14	1,093.27	6,115.12	6,069.02	46.10	132.641	
10,500.00	7,057.18	3,841.45	3,402.17	102.78	30.63	-10.75	-1,045.94	1,066.81	6,195.35	6,149.46	45.89	135.010	
10,600.00	7,057.70	3,789.84	3,362.24	105.46	29.94	-10.36	-1,026.74	1,040.36	6,275.72	6,230.05	45.67	137.419	
10,700.00	7,058.22	3,738.24	3,322.31	108.14	29.25	-9.97	-1,007.55	1,013.90	6,356.23	6,310.79	45.45	139.862	
10,800.00	7,058.74	3,686.64	3,282.39	110.83	28.56	-9.59	-988.35	987.44	6,436.88	6,391.66	45.22	142.342	
10,900.00	7,059.26	3,635.04	3,242.46	113.52	27.88	-9.21	-969.15	960.98	6,517.65	6,472.65	44.99	144.853	
11,000.00	7,059.78	3,583.43	3,202.53	116.21	27.19	-8.84	-949.95	934.53	6,598.54	6,553.78	44.77	147.398	
11,100.00	7,060.29	3,531.83	3,162.60	118.90	26.50	-8.48	-930.75	908.07	6,679.56	6,635.02	44.54	149.971	
11,200.00	7,060.81	3,480.23	3,122.67	121.60	25.82	-8.13	-911.56	881.61	6,760.69	6,716.37	44.31	152.574	
11,300.00	7,061.33	3,428.63	3,082.75	124.30	25.13	-7.78	-892.36	855.16	6,841.92	6,797.84	44.08	155.201	
11,400.00	7,061.85	3,377.03	3,042.82	127.00	24.45	-7.44	-873.16	828.70	6,923.27	6,879.41	43.86	157.853	
11,500.00	7,062.37	3,325.42	3,002.89	129.70	23.77	-7.11	-853.96	802.24	7,004.72	6,961.08	43.64	160.525	
11,600.00	7,062.89	3,273.82	2,962.96	132.40	23.08	-6.78	-834.76	775.78	7,086.26	7,042.85	43.42	163.217	
11,700.00	7,063.40	3,222.22	2,923.03	135.10	22.40	-6.46	-815.56	749.33	7,167.91	7,124.71	43.20	165.926	
11,800.00	7,063.92	3,170.62	2,883.11	137.81	21.72	-6.14	-796.37	722.87	7,249.64	7,206.66	42.99	168.646	
11,900.00	7,064.44	3,119.01	2,843.18	140.51	21.04	-5.83	-777.17	696.41	7,331.47	7,288.69	42.78	171.379	
12,000.00	7,064.96	3,067.41	2,803.25	143.22	20.37	-5.52	-757.97	669.96	7,413.38	7,370.80	42.58	174.116	
12,100.00	7,065.48	3,015.81	2,763.32	145.93	19.69	-5.22	-738.77	643.50	7,495.38	7,453.00	42.38	176.862	
12,200.00	7,066.00	2,964.21	2,723.39	148.64	19.02	-4.93	-719.57	617.04	7,577.45	7,535.26	42.19	179.601	
12,300.00	7,066.51	2,912.61	2,683.47	151.35	18.35	-4.64	-700.38	590.58	7,659.61	7,617.60	42.01	182.346	
12,400.00	7,067.03	2,861.00	2,643.54	154.06	17.68	-4.35	-681.18	564.13	7,741.84	7,700.01	41.83	185.073	
12,500.00	7,067.55	2,809.40	2,603.61	156.77	17.01	-4.08	-661.98	537.67	7,824.14	7,782.48	41.66	187.802	
12,600.00	7,068.07	2,757.80	2,563.68	159.49	16.34	-3.80	-642.78	511.21	7,906.52	7,865.02	41.50	190.497	
12,700.00	7,068.59	2,706.20	2,523.75	162.20	15.69	-3.53	-623.58	484.76	7,988.96	7,947.61	41.35	193.195	
12,800.00	7,069.11	2,654.59	2,483.83	164.92	15.00	-3.27	-604.38	458.30	8,071.48	8,030.26	41.22	195.817	
12,900.00	7,069.62	2,602.99	2,443.90	167.63	14.40	-3.00	-585.19	431.84	8,154.05	8,112.97	41.09	198.455	
13,000.00	7,070.14	2,551.39	2,404.07	170.35	14.10	-2.82	-571.18	412.54	8,236.70	8,195.65	41.06	200.611	
13,100.00	7,070.66	2,500.00	2,364.24	173.07	14.10	-2.82	-571.18	412.54	8,319.65	8,278.40	41.25	201.700	
13,200.00	7,071.18	2,532.93	2,389.57	175.78	13.94	-2.66	-559.20	396.04	8,402.74	8,361.51	41.23	203.802	
13,300.00	7,071.70	2,500.00	2,363.74	178.50	13.82	-2.50	-547.21	379.51	8,486.26	8,445.05	41.21	205.903	
13,400.00	7,072.21	2,500.00	2,363.74	181.22	13.82	-2.50	-547.21	379.51	8,569.91	8,528.51	41.40	207.020	
13,500.00	7,072.73	2,500.00	2,363.74	183.94	13.82	-2.50	-547.21	379.51	8,653.90	8,612.32	41.58	208.151	
13,600.00	7,073.25	2,500.00	2,363.74	186.66	13.82	-2.50	-547.21	379.51	8,738.23	8,696.48	41.75	209.294	
13,700.00	7,073.77	2,500.00	2,363.74	189.38	13.82	-2.50	-547.21	379.51	8,822.88	8,780.96	41.92	210.449	
13,800.00	7,074.29	2,451.55	2,323.31	192.10	13.56	-2.28	-529.88	355.62	8,907.36	8,865.59	41.78	213.215	
13,900.00	7,074.81	2,438.56	2,314.92	194.82	13.50	-2.22	-525.30	349.31	8,992.35	8,950.49	41.86	214.807	
14,000.00	7,075.32	2,400.00	2,283.88	197.54	13.33	-2.04	-511.87	330.80	9,077.71	9,035.92	41.79	217.233	
14,100.00	7,075.84	2,400.00	2,283.88	200.27	13.33	-2.04	-511.87	330.80	9,163.06	9,121.11	41.95	218.409	
14,200.00	7,076.36	2,400.00	2,283.88	202.99	13.33	-2.04	-511.87	330.80	9,248.70	9,206.59	42.12	219.595	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	2,400.00	2,283.88	205.71	13.33	-2.04	-511.87	330.80	9,334.63	9,292.36	42.28	220.790	
14,400.00	7,077.40	2,400.00	2,283.88	208.44	13.33	-2.04	-511.87	330.80	9,420.84	9,378.40	42.44	221.994	
14,500.00	7,077.92	2,400.00	2,283.88	211.16	13.33	-2.04	-511.87	330.80	9,507.32	9,464.72	42.59	223.206	
14,600.00	7,078.43	2,351.92	2,244.75	213.88	13.08	-1.84	-495.46	308.19	9,593.58	9,551.11	42.47	225.877	
14,700.00	7,078.95	2,340.13	2,235.08	216.61	13.02	-1.79	-491.50	302.73	9,680.32	9,637.76	42.56	227.448	
14,800.00	7,079.47	2,300.00	2,201.97	219.33	12.83	-1.62	-478.18	284.38	9,767.42	9,724.93	42.49	229.861	
14,900.00	7,079.99	2,300.00	2,201.97	222.06	12.83	-1.62	-478.18	284.38	9,854.44	9,811.80	42.64	231.084	
15,000.00	7,080.51	2,300.00	2,201.97	224.78	12.83	-1.62	-478.18	284.38	9,941.71	9,898.91	42.79	232.313	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HNA-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-147.48	-175.96	-112.17	208.69				
100.00	100.00	98.00	98.00	0.48	0.47	-147.48	-175.96	-112.17	208.68	207.72	0.96	218.386	
200.00	200.00	198.00	198.00	1.28	1.27	-147.48	-175.96	-112.17	208.68	206.13	2.55	81.878	
300.00	300.00	298.00	298.00	1.77	1.76	-147.48	-175.96	-112.17	208.68	205.15	3.53	59.158	
400.00	400.00	398.00	398.00	2.15	2.14	-147.48	-175.96	-112.17	208.68	204.38	4.29	48.604 CC	
500.00	500.00	497.79	497.77	2.48	2.61	-147.94	-176.90	-110.78	208.72	203.84	4.88	42.761	
600.00	600.00	597.34	597.19	2.77	3.65	-149.35	-179.75	-106.53	208.95	203.49	5.46	38.278 ES	
700.00	700.00	696.42	695.89	3.03	4.50	-151.68	-184.51	-99.45	209.61	203.62	6.00	34.938	
800.00	800.00	794.79	793.54	3.28	5.24	-154.87	-191.11	-89.63	211.13	204.58	6.55	32.258	
900.00	900.00	892.23	889.81	3.51	5.92	-158.86	-199.49	-77.15	214.04	206.91	7.13	30.007	
1,000.00	999.98	988.53	984.40	3.78	6.54	-14.72	-209.56	-62.16	217.32	209.48	7.84	27.716	
1,083.35	1,083.22	1,067.74	1,061.71	4.28	7.03	-19.25	-219.16	-47.86	219.65	210.88	8.77	25.046	
1,100.00	1,099.84	1,083.43	1,076.97	4.29	7.13	-20.22	-221.21	-44.82	220.18	211.30	8.88	24.796	
1,200.00	1,199.64	1,176.80	1,167.32	4.47	7.69	-26.26	-234.33	-25.28	225.73	216.01	9.73	23.210	
1,300.00	1,299.43	1,268.53	1,255.29	4.70	8.23	-32.45	-248.82	-3.72	235.83	225.14	10.69	22.069	
1,400.00	1,399.23	1,358.48	1,340.70	4.95	8.75	-38.48	-264.54	19.69	250.91	239.24	11.67	21.497	
1,500.00	1,499.02	1,446.52	1,423.40	5.20	9.24	-44.14	-281.38	44.74	271.11	258.48	12.63	21.469 SF	
1,600.00	1,598.82	1,532.56	1,503.29	5.47	9.72	-49.25	-299.19	71.26	296.30	282.78	13.52	21.914	
1,700.00	1,698.61	1,616.51	1,580.28	5.75	10.18	-53.77	-317.85	99.03	326.21	311.87	14.34	22.753	
1,800.00	1,798.41	1,700.00	1,655.84	6.04	10.63	-57.77	-337.64	128.50	360.47	345.37	15.10	23.866	
1,900.00	1,898.20	1,777.93	1,725.41	6.34	11.05	-61.08	-357.22	157.64	398.70	382.94	15.75	25.307	
2,000.00	1,998.00	1,855.31	1,793.52	6.64	11.46	-63.97	-377.70	188.13	440.53	424.16	16.37	26.907	
2,100.00	2,097.79	1,930.45	1,858.68	6.94	11.85	-66.44	-398.56	219.18	485.64	468.70	16.94	28.664	
2,200.00	2,197.59	2,000.00	1,918.11	7.26	12.21	-68.47	-418.71	249.18	533.77	516.35	17.42	30.633	
2,300.00	2,297.38	2,073.99	1,980.34	7.57	12.58	-70.37	-441.02	282.39	584.62	566.65	17.97	32.526	
2,400.00	2,397.18	2,142.43	2,036.97	7.89	12.93	-71.94	-462.45	314.30	638.01	619.57	18.44	34.593	
2,500.00	2,496.97	2,200.00	2,083.88	8.22	13.22	-73.12	-481.06	341.99	693.82	675.05	18.77	36.971	
2,600.00	2,596.77	2,272.78	2,142.21	8.54	13.57	-74.46	-505.33	378.12	751.66	732.34	19.32	38.910	
2,700.00	2,696.57	2,334.76	2,191.00	8.87	13.83	-75.48	-526.65	409.85	811.59	791.91	19.68	41.241	
2,800.00	2,796.36	2,400.00	2,241.45	9.21	14.34	-76.45	-549.71	444.18	873.44	853.23	20.21	43.222	
2,900.00	2,896.16	2,452.59	2,281.42	9.54	14.99	-77.16	-568.77	472.55	937.01	916.49	20.51	45.674	
3,000.00	2,995.95	2,514.68	2,327.87	9.87	15.84	-77.93	-591.75	506.76	1,002.18	981.29	20.90	47.956	
3,100.00	3,095.75	2,589.26	2,383.45	10.21	16.87	-78.75	-619.47	548.03	1,067.84	1,046.43	21.41	49.887	
3,200.00	3,195.54	2,663.84	2,439.03	10.55	17.90	-79.48	-647.20	589.31	1,133.60	1,111.67	21.93	51.693	
3,300.00	3,295.34	2,738.41	2,494.61	10.89	18.95	-80.13	-674.93	630.59	1,199.46	1,177.00	22.46	53.409	
3,400.00	3,395.13	2,812.99	2,550.19	11.23	20.00	-80.71	-702.66	671.86	1,265.40	1,242.41	22.99	55.035	
3,500.00	3,494.93	2,887.57	2,605.76	11.58	21.05	-81.24	-730.39	713.14	1,331.40	1,307.87	23.54	56.567	
3,600.00	3,594.72	2,962.14	2,661.34	11.92	22.10	-81.72	-758.12	754.42	1,397.47	1,373.38	24.09	58.014	
3,700.00	3,694.52	3,036.72	2,716.92	12.26	23.16	-82.15	-785.85	795.70	1,463.58	1,438.94	24.64	59.387	
3,800.00	3,794.31	3,111.30	2,772.50	12.61	24.22	-82.55	-813.58	836.97	1,529.74	1,504.54	25.21	60.690	
3,900.00	3,894.11	3,185.88	2,828.08	12.96	25.29	-82.91	-841.31	878.25	1,595.94	1,570.17	25.77	61.920	
4,000.00	3,993.90	3,260.45	2,883.66	13.30	26.35	-83.25	-869.04	919.53	1,662.17	1,635.82	26.35	63.084	
4,100.00	4,093.70	3,335.03	2,939.24	13.65	27.42	-83.56	-896.77	960.80	1,728.43	1,701.51	26.93	64.190	
4,200.00	4,193.49	3,409.61	2,994.82	14.00	28.49	-83.85	-924.49	1,002.08	1,794.72	1,767.21	27.51	65.241	
4,300.00	4,293.29	3,484.19	3,050.40	14.35	29.56	-84.11	-952.22	1,043.36	1,861.03	1,832.93	28.10	66.235	
4,400.00	4,393.08	3,558.76	3,105.98	14.70	30.63	-84.36	-979.95	1,084.64	1,927.36	1,898.67	28.69	67.179	
4,500.00	4,492.88	3,633.34	3,161.56	15.05	31.71	-84.59	-1,007.68	1,125.91	1,993.72	1,964.43	29.29	68.078	
4,600.00	4,592.68	3,707.92	3,217.14	15.40	32.78	-84.81	-1,035.41	1,167.19	2,060.09	2,030.20	29.89	68.933	
4,700.00	4,692.47	3,782.49	3,272.72	15.75	33.86	-85.02	-1,063.14	1,208.47	2,126.47	2,095.98	30.49	69.743	
4,800.00	4,792.27	3,857.07	3,328.30	16.10	34.93	-85.21	-1,090.87	1,249.75	2,192.87	2,161.77	31.10	70.515	
4,900.00	4,892.06	3,931.65	3,383.88	16.45	36.01	-85.39	-1,118.60	1,291.02	2,259.28	2,227.57	31.71	71.250	
5,000.00	4,991.86	4,006.23	3,439.45	16.81	37.09	-85.56	-1,146.33	1,332.30	2,325.71	2,293.38	32.32	71.951	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HNA-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,080.80	3,495.03	17.16	38.16	-85.72	-1,174.06	1,373.58	2,392.14	2,359.20	32.94	72.618	
5,200.00	5,191.45	4,155.38	3,550.61	17.51	39.24	-85.87	-1,201.79	1,414.85	2,458.58	2,425.02	33.56	73.253	
5,300.00	5,291.24	4,229.96	3,606.19	17.87	40.32	-86.02	-1,229.52	1,456.13	2,525.04	2,490.85	34.19	73.860	
5,400.00	5,391.04	4,304.54	3,661.77	18.22	41.40	-86.15	-1,257.24	1,497.41	2,591.50	2,556.69	34.81	74.440	
5,500.00	5,490.83	4,379.11	3,717.35	18.57	42.48	-86.28	-1,284.97	1,538.69	2,657.97	2,622.53	35.44	74.991	
5,600.00	5,590.63	4,453.69	3,772.93	18.93	43.56	-86.41	-1,312.70	1,579.96	2,724.45	2,688.37	36.08	75.518	
5,700.00	5,690.42	4,528.27	3,828.51	19.28	44.64	-86.53	-1,340.43	1,621.24	2,790.93	2,754.22	36.71	76.022	
5,800.00	5,790.22	4,602.84	3,884.09	19.64	45.73	-86.64	-1,368.16	1,662.52	2,857.43	2,820.08	37.35	76.504	
5,900.00	5,890.01	4,677.42	3,939.67	19.99	46.81	-86.75	-1,395.89	1,703.79	2,923.92	2,885.93	37.99	76.963	
6,000.00	5,989.81	4,752.00	3,995.25	20.35	47.89	-86.85	-1,423.62	1,745.07	2,990.42	2,951.79	38.63	77.403	
6,100.00	6,089.60	4,826.58	4,050.83	20.70	48.97	-86.95	-1,451.35	1,786.35	3,056.93	3,017.65	39.28	77.824	
6,200.00	6,189.40	4,901.15	4,106.41	21.06	50.06	-87.04	-1,479.08	1,827.63	3,123.44	3,083.52	39.93	78.227	
6,300.00	6,289.19	4,975.73	4,161.99	21.41	51.14	-87.13	-1,506.81	1,868.90	3,189.96	3,149.38	40.58	78.611	
6,400.00	6,388.99	5,050.31	4,217.57	21.77	52.22	-87.22	-1,534.54	1,910.18	3,256.48	3,215.25	41.23	78.979	
6,498.43	6,487.22	5,123.72	4,272.27	22.12	53.29	-87.30	-1,561.83	1,950.81	3,321.96	3,280.09	41.88	79.328	
6,500.00	6,488.79	5,124.88	4,273.14	22.12	53.31	-89.30	-1,562.26	1,951.46	3,323.01	3,281.12	41.89	79.334	
6,550.00	6,538.54	5,160.77	4,299.88	22.32	53.83	-120.14	-1,575.61	1,971.32	3,357.68	3,315.44	42.24	79.484	
6,600.00	6,587.76	5,193.81	4,324.51	22.59	54.31	-126.49	-1,587.89	1,989.61	3,394.84	3,352.18	42.65	79.588	
6,650.00	6,636.08	5,223.78	4,346.84	22.84	54.74	-126.73	-1,599.03	2,006.19	3,434.19	3,391.17	43.03	79.818	
6,700.00	6,683.13	5,250.43	4,366.71	23.07	55.13	-124.14	-1,608.94	2,020.94	3,475.46	3,432.09	43.37	80.130	
6,750.00	6,728.55	5,273.56	4,383.95	23.29	55.47	-119.48	-1,617.55	2,033.75	3,518.35	3,474.66	43.70	80.515	
6,800.00	6,771.99	5,293.01	4,398.44	23.51	55.75	-112.88	-1,624.78	2,044.51	3,562.55	3,518.55	44.00	80.964	
6,850.00	6,813.13	5,308.61	4,410.07	23.72	55.98	-104.36	-1,630.58	2,053.15	3,607.75	3,563.46	44.29	81.466	
6,900.00	6,851.64	5,320.26	4,418.75	23.94	56.15	-94.12	-1,634.91	2,059.59	3,653.61	3,609.06	44.55	82.011	
6,950.00	6,887.25	5,327.86	4,424.41	24.16	56.26	-82.76	-1,637.73	2,063.80	3,699.81	3,655.01	44.80	82.587	
7,000.00	6,919.67	5,331.35	4,427.02	24.38	56.31	-71.29	-1,639.03	2,065.73	3,746.01	3,700.98	45.03	83.184	
7,050.00	6,948.65	5,330.72	4,426.54	24.62	56.30	-60.69	-1,638.80	2,065.38	3,791.89	3,746.63	45.26	83.788	
7,100.00	6,973.99	5,325.95	4,422.99	24.88	56.23	-51.57	-1,637.02	2,062.74	3,837.10	3,791.63	45.47	84.392	
7,150.00	6,995.49	5,317.10	4,416.39	25.18	56.10	-44.06	-1,633.73	2,057.84	3,881.32	3,835.65	45.67	84.984	
7,200.00	7,012.97	5,304.22	4,406.80	25.51	55.91	-38.00	-1,628.94	2,050.72	3,924.22	3,878.36	45.87	85.558	
7,250.00	7,026.32	5,287.42	4,394.28	25.89	55.67	-33.14	-1,622.70	2,041.42	3,965.49	3,919.44	46.05	86.105	
7,300.00	7,035.43	5,266.82	4,378.92	26.33	55.37	-29.24	-1,615.04	2,030.02	4,004.82	3,958.59	46.23	86.621	
7,350.00	7,040.22	5,242.58	4,360.86	26.84	55.02	-26.07	-1,606.03	2,016.60	4,041.91	3,995.51	46.41	87.100	
7,377.14	7,041.00	5,227.97	4,349.97	27.14	54.80	-24.60	-1,600.59	2,008.51	4,061.01	4,014.56	46.45	87.431	
7,400.00	7,041.12	5,215.24	4,340.48	27.41	54.62	-24.44	-1,595.86	2,001.46	4,076.78	4,030.31	46.47	87.728	
7,500.00	7,041.64	5,159.54	4,298.97	28.77	53.81	-23.76	-1,575.15	1,970.64	4,146.10	4,099.52	46.58	89.010	
7,600.00	7,042.16	5,103.85	4,257.47	30.39	53.00	-23.09	-1,554.44	1,939.81	4,215.92	4,169.23	46.69	90.290	
7,700.00	7,042.67	5,048.16	4,215.96	32.22	52.19	-22.43	-1,533.74	1,908.99	4,286.21	4,239.41	46.80	91.586	
7,800.00	7,043.19	4,992.47	4,174.46	34.20	51.38	-21.79	-1,513.03	1,878.16	4,356.95	4,310.05	46.90	92.904	
7,900.00	7,043.71	4,936.77	4,132.95	36.31	50.57	-21.16	-1,492.32	1,847.34	4,428.11	4,381.13	46.98	94.250	
8,000.00	7,044.23	4,881.08	4,091.45	38.52	49.76	-20.54	-1,471.61	1,816.52	4,499.69	4,452.63	47.05	95.629	
8,100.00	7,044.75	4,825.39	4,049.94	40.80	48.96	-19.94	-1,450.91	1,785.69	4,571.65	4,524.54	47.11	97.044	
8,200.00	7,045.26	4,769.70	4,008.44	43.15	48.15	-19.34	-1,430.20	1,754.87	4,643.98	4,596.83	47.15	98.499	
8,300.00	7,045.78	4,714.00	3,966.93	45.54	47.34	-18.76	-1,409.49	1,724.04	4,716.67	4,669.50	47.17	99.994	
8,400.00	7,046.30	4,658.31	3,925.43	47.97	46.53	-18.19	-1,388.78	1,693.22	4,789.69	4,742.52	47.17	101.532	
8,500.00	7,046.82	4,602.62	3,883.92	50.44	45.72	-17.64	-1,368.08	1,662.39	4,863.04	4,815.87	47.16	103.116	
8,600.00	7,047.34	4,546.93	3,842.42	52.94	44.92	-17.09	-1,347.37	1,631.57	4,936.69	4,889.56	47.13	104.743	
8,700.00	7,047.86	4,491.23	3,800.91	55.46	44.11	-16.55	-1,326.66	1,600.74	5,010.64	4,963.55	47.08	106.418	
8,800.00	7,048.37	4,435.54	3,759.40	58.00	43.30	-16.03	-1,305.95	1,569.92	5,084.86	5,037.84	47.02	108.138	
8,900.00	7,048.89	4,379.85	3,717.90	60.56	42.49	-15.52	-1,285.25	1,539.09	5,159.36	5,112.42	46.94	109.906	
9,000.00	7,049.41	4,324.16	3,676.39	63.13	41.69	-15.01	-1,264.54	1,508.27	5,234.12	5,187.27	46.85	111.721	
9,100.00	7,049.93	4,268.46	3,634.89	65.72	40.88	-14.52	-1,243.83	1,477.44	5,309.12	5,262.37	46.74	113.582	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HNA-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,050.45	4,212.77	3,593.38	68.32	40.07	-14.03	-1,223.12	1,446.62	5,384.36	5,337.73	46.62	115.492	
9,300.00	7,050.97	4,157.08	3,551.88	70.93	39.27	-13.56	-1,202.42	1,415.79	5,459.82	5,413.33	46.49	117.446	
9,400.00	7,051.48	4,101.39	3,510.37	73.55	38.46	-13.10	-1,181.71	1,384.97	5,535.50	5,489.16	46.34	119.449	
9,500.00	7,052.00	4,045.69	3,468.87	76.18	37.66	-12.64	-1,161.00	1,354.14	5,611.39	5,565.21	46.19	121.496	
9,600.00	7,052.52	3,990.00	3,427.36	78.81	36.85	-12.19	-1,140.29	1,323.32	5,687.48	5,641.46	46.02	123.589	
9,700.00	7,053.04	3,934.31	3,385.86	81.46	36.05	-11.76	-1,119.59	1,292.49	5,763.77	5,717.92	45.84	125.726	
9,800.00	7,053.56	3,878.62	3,344.35	84.10	35.24	-11.33	-1,098.88	1,261.67	5,840.24	5,794.58	45.66	127.908	
9,900.00	7,054.08	3,822.92	3,302.85	86.76	34.44	-10.91	-1,078.17	1,230.84	5,916.88	5,871.41	45.47	130.132	
10,000.00	7,054.59	3,767.23	3,261.34	89.42	33.63	-10.49	-1,057.46	1,200.02	5,993.70	5,948.43	45.27	132.397	
10,100.00	7,055.11	3,711.54	3,219.84	92.08	32.83	-10.09	-1,036.76	1,169.19	6,070.68	6,025.61	45.07	134.705	
10,200.00	7,055.63	3,655.85	3,178.33	94.75	32.03	-9.69	-1,016.05	1,138.37	6,147.82	6,102.96	44.86	137.049	
10,300.00	7,056.15	3,600.15	3,136.82	97.42	31.23	-9.30	-995.34	1,107.54	6,225.11	6,180.46	44.65	139.436	
10,400.00	7,056.67	3,544.46	3,095.32	100.10	30.43	-8.92	-974.64	1,076.72	6,302.55	6,258.12	44.43	141.853	
10,500.00	7,057.18	3,488.77	3,053.81	102.78	29.63	-8.54	-953.93	1,045.90	6,380.13	6,335.91	44.21	144.309	
10,600.00	7,057.70	3,433.08	3,012.31	105.46	28.83	-8.18	-933.22	1,015.07	6,457.84	6,413.85	43.99	146.795	
10,700.00	7,058.22	3,377.38	2,970.80	108.14	28.03	-7.81	-912.51	984.25	6,535.69	6,491.92	43.77	149.314	
10,800.00	7,058.74	3,321.69	2,929.30	110.83	27.23	-7.46	-891.81	953.42	6,613.66	6,570.11	43.55	151.861	
10,900.00	7,059.26	3,266.00	2,887.79	113.52	26.43	-7.11	-871.10	922.60	6,691.76	6,648.43	43.33	154.432	
11,000.00	7,059.78	3,210.30	2,846.29	116.21	25.64	-6.77	-850.39	891.77	6,769.97	6,726.86	43.11	157.031	
11,100.00	7,060.29	3,154.61	2,804.78	118.90	24.84	-6.44	-829.68	860.95	6,848.30	6,805.40	42.90	159.645	
11,200.00	7,060.81	3,098.92	2,763.28	121.60	24.05	-6.11	-808.98	830.12	6,926.74	6,884.06	42.68	162.285	
11,300.00	7,061.33	3,043.23	2,721.77	124.30	23.25	-5.79	-788.27	799.30	7,005.28	6,962.81	42.47	164.928	
11,400.00	7,061.85	2,987.53	2,680.27	127.00	22.46	-5.47	-767.56	768.47	7,083.93	7,041.66	42.27	167.592	
11,500.00	7,062.37	2,931.84	2,638.76	129.70	21.67	-5.16	-746.85	737.65	7,162.68	7,120.61	42.07	170.258	
11,600.00	7,062.89	2,876.15	2,597.26	132.40	20.89	-4.85	-726.15	706.82	7,241.52	7,199.65	41.88	172.931	
11,700.00	7,063.40	2,820.46	2,555.75	135.10	20.10	-4.55	-705.44	676.00	7,320.46	7,278.77	41.69	175.604	
11,800.00	7,063.92	2,764.76	2,514.24	137.81	19.32	-4.26	-684.73	645.17	7,399.48	7,357.98	41.51	178.269	
11,900.00	7,064.44	2,709.07	2,472.74	140.51	18.54	-3.97	-664.02	614.35	7,478.60	7,437.27	41.33	180.934	
12,000.00	7,064.96	2,653.38	2,431.23	143.22	17.75	-3.68	-643.32	583.52	7,557.80	7,516.63	41.17	183.570	
12,100.00	7,065.48	2,597.69	2,389.73	145.93	16.99	-3.40	-622.61	552.70	7,637.08	7,596.06	41.01	186.208	
12,200.00	7,066.00	2,541.99	2,348.22	148.64	16.21	-3.13	-601.90	521.87	7,716.44	7,675.56	40.88	188.774	
12,300.00	7,066.51	2,490.93	2,310.17	151.35	15.53	-2.88	-582.92	493.61	7,795.88	7,755.10	40.77	191.197	
12,400.00	7,067.03	2,440.93	2,270.17	154.06	15.53	-2.88	-582.92	493.61	7,875.62	7,834.62	41.00	192.107	
12,500.00	7,067.55	2,458.11	2,285.58	156.77	15.06	-2.72	-570.79	475.56	7,955.58	7,914.60	40.98	194.146	
12,600.00	7,068.07	2,442.66	2,273.92	159.49	14.86	-2.65	-565.14	467.15	8,035.94	7,994.86	41.08	195.611	
12,700.00	7,068.59	2,400.00	2,241.45	162.20	14.34	-2.45	-549.71	444.18	8,116.81	8,075.82	40.99	198.022	
12,800.00	7,069.11	2,400.00	2,241.45	164.92	14.34	-2.45	-549.71	444.18	8,197.70	8,156.50	41.20	198.984	
12,900.00	7,069.62	2,400.00	2,241.45	167.63	14.34	-2.45	-549.71	444.18	8,279.01	8,237.61	41.40	199.965	
13,000.00	7,070.14	2,400.00	2,241.45	170.35	14.34	-2.45	-549.71	444.18	8,360.73	8,319.13	41.60	200.965	
13,100.00	7,070.66	2,400.00	2,241.45	173.07	14.34	-2.45	-549.71	444.18	8,442.84	8,401.04	41.80	201.981	
13,200.00	7,071.18	2,353.90	2,205.90	175.78	13.96	-2.25	-533.35	419.82	8,524.87	8,483.19	41.68	204.555	
13,300.00	7,071.70	2,339.74	2,194.89	178.50	13.86	-2.18	-528.38	412.44	8,607.41	8,565.64	41.77	206.059	
13,400.00	7,072.21	2,300.00	2,163.74	181.22	13.72	-2.01	-514.62	391.95	8,690.37	8,648.66	41.71	208.375	
13,500.00	7,072.73	2,300.00	2,163.74	183.94	13.72	-2.01	-514.62	391.95	8,773.35	8,731.46	41.89	209.425	
13,600.00	7,073.25	2,300.00	2,163.74	186.66	13.72	-2.01	-514.62	391.95	8,856.69	8,814.61	42.08	210.488	
13,700.00	7,073.77	2,300.00	2,163.74	189.38	13.72	-2.01	-514.62	391.95	8,940.37	8,898.11	42.26	211.565	
13,800.00	7,074.29	2,300.00	2,163.74	192.10	13.72	-2.01	-514.62	391.95	9,024.38	8,981.94	42.44	212.655	
13,900.00	7,074.81	2,258.35	2,130.74	194.82	13.50	-1.84	-500.46	370.86	9,108.34	9,065.99	42.36	215.029	
14,000.00	7,075.32	2,245.36	2,120.37	197.54	13.43	-1.79	-496.09	364.37	9,192.73	9,150.27	42.46	216.526	
14,100.00	7,075.84	2,200.00	2,083.88	200.27	13.22	-1.60	-481.06	341.99	9,277.58	9,235.21	42.36	219.000	
14,200.00	7,076.36	2,200.00	2,083.88	202.99	13.22	-1.60	-481.06	341.99	9,362.30	9,319.76	42.53	220.111	
14,300.00	7,076.88	2,200.00	2,083.88	205.71	13.22	-1.60	-481.06	341.99	9,447.32	9,404.61	42.70	221.233	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HNA-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,400.00	7,077.40	2,200.00	2,083.88	208.44	13.22	-1.60	-481.06	341.99	9,532.63	9,489.76	42.87	222.365	
14,500.00	7,077.92	2,200.00	2,083.88	211.16	13.22	-1.60	-481.06	341.99	9,618.22	9,575.19	43.03	223.507	
14,600.00	7,078.43	2,200.00	2,083.88	213.88	13.22	-1.60	-481.06	341.99	9,704.09	9,660.89	43.20	224.657	
14,700.00	7,078.95	2,158.68	2,050.28	216.61	13.01	-1.44	-467.65	322.03	9,789.87	9,746.74	43.13	226.963	
14,800.00	7,079.47	2,146.88	2,040.62	219.33	12.95	-1.40	-463.87	316.41	9,876.04	9,832.81	43.23	228.446	
14,900.00	7,079.99	2,100.00	2,001.97	222.06	12.72	-1.22	-449.08	294.38	9,962.67	9,919.52	43.15	230.890	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HNB-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-156.19	-252.47	-111.43	275.97				
100.00	100.00	98.00	98.00	0.48	0.47	-156.19	-252.47	-111.43	275.96	275.01	0.96	288.804	
200.00	200.00	198.00	198.00	1.28	1.27	-156.19	-252.47	-111.43	275.96	273.41	2.55	108.279	
300.00	300.00	298.00	298.00	1.77	1.76	-156.19	-252.47	-111.43	275.96	272.44	3.53	78.233	
400.00	400.00	398.00	398.00	2.15	2.14	-156.19	-252.47	-111.43	275.96	271.67	4.29	64.276	
500.00	500.00	498.00	498.00	2.48	2.47	-156.19	-252.47	-111.43	275.96	271.02	4.95	55.781 CC	
600.00	600.00	596.25	596.23	2.77	2.88	-156.52	-253.38	-110.09	276.27	270.81	5.46	50.606 ES	
700.00	700.00	694.24	694.09	3.03	3.82	-157.52	-256.19	-106.00	277.28	271.27	6.01	46.108	
800.00	800.00	791.78	791.28	3.28	4.63	-159.18	-260.86	-99.18	279.16	272.62	6.55	42.630	
900.00	900.00	888.65	887.46	3.51	5.34	-161.45	-267.36	-89.72	282.21	275.11	7.10	39.762	
1,000.00	999.98	984.62	982.31	3.78	5.99	-15.48	-275.60	-77.70	285.09	277.37	7.72	36.929	
1,083.35	1,083.22	1,063.75	1,060.12	4.28	6.50	-18.40	-283.74	-65.83	286.49	277.94	8.54	33.528	
1,100.00	1,099.84	1,079.45	1,075.50	4.29	6.59	-19.04	-285.50	-63.27	286.74	278.11	8.63	33.222	
1,200.00	1,199.64	1,172.97	1,166.80	4.47	7.17	-23.13	-296.97	-46.54	289.95	280.64	9.32	31.120	
1,300.00	1,299.43	1,265.09	1,256.02	4.70	7.72	-27.55	-309.91	-27.68	296.46	286.34	10.12	29.297	
1,400.00	1,399.23	1,355.63	1,342.96	4.95	8.24	-32.12	-324.21	-6.84	306.77	295.78	10.98	27.930	
1,500.00	1,499.02	1,444.46	1,427.45	5.20	8.75	-36.69	-339.74	15.80	321.24	309.36	11.88	27.051	
1,600.00	1,598.82	1,531.48	1,509.33	5.47	9.24	-41.12	-356.38	40.06	340.08	327.32	12.76	26.649 SF	
1,700.00	1,698.61	1,616.57	1,588.51	5.75	9.71	-45.29	-374.00	65.75	363.34	349.73	13.61	26.687	
1,800.00	1,798.41	1,700.00	1,665.21	6.04	10.16	-49.16	-392.57	92.82	390.94	376.52	14.42	27.105	
1,900.00	1,898.20	1,780.66	1,738.43	6.34	10.59	-52.65	-411.71	120.72	422.68	407.52	15.17	27.867	
2,000.00	1,998.00	1,859.56	1,809.10	6.64	11.01	-55.78	-431.55	149.65	458.34	442.48	15.86	28.900	
2,100.00	2,097.79	1,936.30	1,876.88	6.94	11.42	-58.57	-451.90	179.32	497.64	481.14	16.50	30.165	
2,200.00	2,197.59	2,010.87	1,941.80	7.26	11.81	-61.04	-472.66	209.58	540.32	523.23	17.09	31.620	
2,300.00	2,297.38	2,083.27	2,003.89	7.57	12.18	-63.21	-493.71	240.27	586.12	568.49	17.64	33.233	
2,400.00	2,397.18	2,153.50	2,063.21	7.89	12.53	-65.13	-514.98	271.28	634.82	616.67	18.15	34.979	
2,500.00	2,496.97	2,221.57	2,119.81	8.22	12.88	-66.82	-536.37	302.46	686.19	667.56	18.63	36.831	
2,600.00	2,596.77	2,287.51	2,173.76	8.54	13.21	-68.31	-557.81	333.72	740.04	720.95	19.09	38.770	
2,700.00	2,696.57	2,351.35	2,225.15	8.87	13.51	-69.62	-579.24	364.95	796.19	776.68	19.51	40.801	
2,800.00	2,796.36	2,413.13	2,274.07	9.21	13.79	-70.79	-600.58	396.07	854.49	834.58	19.90	42.935	
2,900.00	2,896.16	2,472.90	2,320.61	9.54	14.14	-71.83	-621.79	426.99	914.78	894.46	20.32	45.026	
3,000.00	2,995.95	2,536.77	2,369.53	9.87	14.81	-72.85	-645.02	460.85	976.86	956.12	20.74	47.092	
3,100.00	3,095.75	2,613.17	2,427.84	10.21	15.82	-73.94	-672.94	501.56	1,039.56	1,018.32	21.24	48.937	
3,200.00	3,195.54	2,689.58	2,486.15	10.55	16.83	-74.91	-700.87	542.27	1,102.47	1,080.70	21.76	50.657	
3,300.00	3,295.34	2,765.98	2,544.46	10.89	17.84	-75.77	-728.80	582.99	1,165.55	1,143.25	22.30	52.278	
3,400.00	3,395.13	2,842.38	2,602.77	11.23	18.87	-76.56	-756.72	623.70	1,228.78	1,205.95	22.83	53.821	
3,500.00	3,494.93	2,918.78	2,661.08	11.58	19.90	-77.26	-784.65	664.41	1,292.14	1,268.77	23.37	55.287	
3,600.00	3,594.72	2,995.18	2,719.39	11.92	20.93	-77.91	-812.57	705.12	1,355.61	1,331.69	23.92	56.673	
3,700.00	3,694.52	3,071.58	2,777.70	12.26	21.97	-78.49	-840.50	745.83	1,419.17	1,394.70	24.48	57.979	
3,800.00	3,794.31	3,147.98	2,836.01	12.61	23.00	-79.03	-868.42	786.54	1,482.82	1,457.78	25.04	59.220	
3,900.00	3,894.11	3,224.38	2,894.32	12.96	24.05	-79.52	-896.35	827.25	1,546.54	1,520.93	25.61	60.398	
4,000.00	3,993.90	3,300.78	2,952.62	13.30	25.09	-79.98	-924.27	867.96	1,610.32	1,584.15	26.18	61.517	
4,100.00	4,093.70	3,377.19	3,010.93	13.65	26.14	-80.40	-952.20	908.67	1,674.16	1,647.41	26.76	62.570	
4,200.00	4,193.49	3,453.59	3,069.24	14.00	27.18	-80.79	-980.12	949.38	1,738.05	1,710.71	27.34	63.572	
4,300.00	4,293.29	3,529.99	3,127.55	14.35	28.23	-81.15	-1,008.05	990.09	1,801.99	1,774.06	27.93	64.525	
4,400.00	4,393.08	3,606.39	3,185.86	14.70	29.28	-81.49	-1,035.97	1,030.80	1,865.96	1,837.44	28.52	65.430	
4,500.00	4,492.88	3,682.79	3,244.17	15.05	30.33	-81.81	-1,063.90	1,071.51	1,929.97	1,900.86	29.12	66.286	
4,600.00	4,592.68	3,759.19	3,302.48	15.40	31.39	-82.10	-1,091.82	1,112.22	1,994.02	1,964.30	29.72	67.101	
4,700.00	4,692.47	3,835.59	3,360.79	15.75	32.44	-82.38	-1,119.75	1,152.93	2,058.09	2,027.77	30.32	67.876	
4,800.00	4,792.27	3,911.99	3,419.10	16.10	33.50	-82.64	-1,147.67	1,193.65	2,122.19	2,091.26	30.93	68.614	
4,900.00	4,892.06	3,988.39	3,477.41	16.45	34.55	-82.89	-1,175.60	1,234.36	2,186.32	2,154.77	31.54	69.315	
5,000.00	4,991.86	4,064.80	3,535.72	16.81	35.61	-83.12	-1,203.53	1,275.07	2,250.46	2,218.31	32.16	69.981	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HNB-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,141.20	3,594.02	17.16	36.66	-83.34	-1,231.45	1,315.78	2,314.63	2,281.86	32.78	70.617	
5,200.00	5,191.45	4,217.60	3,652.33	17.51	37.72	-83.55	-1,259.38	1,356.49	2,378.82	2,345.42	33.40	71.223	
5,300.00	5,291.24	4,294.00	3,710.64	17.87	38.78	-83.74	-1,287.30	1,397.20	2,443.03	2,409.00	34.02	71.801	
5,400.00	5,391.04	4,370.40	3,768.95	18.22	39.84	-83.93	-1,315.23	1,437.91	2,507.25	2,472.59	34.65	72.351	
5,500.00	5,490.83	4,446.80	3,827.26	18.57	40.90	-84.11	-1,343.15	1,478.62	2,571.48	2,536.20	35.29	72.876	
5,600.00	5,590.63	4,523.20	3,885.57	18.93	41.96	-84.27	-1,371.08	1,519.33	2,635.73	2,599.81	35.92	73.377	
5,700.00	5,690.42	4,599.60	3,943.88	19.28	43.02	-84.44	-1,399.00	1,560.04	2,700.00	2,663.44	36.56	73.856	
5,800.00	5,790.22	4,676.01	4,002.19	19.64	44.08	-84.59	-1,426.93	1,600.75	2,764.27	2,727.07	37.20	74.313	
5,900.00	5,890.01	4,752.41	4,060.50	19.99	45.14	-84.74	-1,454.85	1,641.46	2,828.56	2,790.72	37.84	74.749	
6,000.00	5,989.81	4,828.81	4,118.81	20.35	46.20	-84.88	-1,482.78	1,682.17	2,892.86	2,854.37	38.49	75.166	
6,100.00	6,089.60	4,905.21	4,177.12	20.70	47.26	-85.01	-1,510.70	1,722.88	2,957.16	2,918.03	39.13	75.565	
6,200.00	6,189.40	4,981.61	4,235.42	21.06	48.32	-85.14	-1,538.63	1,763.60	3,021.48	2,981.69	39.78	75.946	
6,300.00	6,289.19	5,058.01	4,293.73	21.41	49.39	-85.26	-1,566.55	1,804.31	3,085.80	3,045.36	40.44	76.310	
6,400.00	6,388.99	5,134.41	4,352.04	21.77	50.45	-85.38	-1,594.48	1,845.02	3,150.13	3,109.04	41.09	76.659	
6,498.43	6,487.22	5,209.62	4,409.44	22.12	51.50	-85.49	-1,621.97	1,885.09	3,213.46	3,171.73	41.74	76.989	
6,500.00	6,488.79	5,210.81	4,410.35	22.12	51.51	-87.49	-1,622.40	1,885.73	3,214.47	3,172.73	41.75	76.995	
6,550.00	6,538.54	5,247.65	4,438.47	22.32	52.02	-118.39	-1,635.87	1,905.36	3,248.07	3,205.96	42.11	77.137	
6,600.00	6,587.76	5,281.74	4,464.48	22.59	52.50	-124.83	-1,648.33	1,923.52	3,284.16	3,241.64	42.52	77.238	
6,650.00	6,636.08	5,312.81	4,488.20	22.84	52.93	-125.24	-1,659.69	1,940.08	3,322.48	3,279.60	42.89	77.468	
6,700.00	6,683.13	5,340.64	4,509.43	23.07	53.32	-122.92	-1,669.86	1,954.90	3,362.77	3,319.53	43.24	77.777	
6,750.00	6,728.55	5,365.00	4,528.03	23.29	53.66	-118.68	-1,678.76	1,967.89	3,404.73	3,361.17	43.56	78.156	
6,800.00	6,771.99	5,385.72	4,543.84	23.51	53.95	-112.70	-1,686.34	1,978.93	3,448.06	3,404.19	43.87	78.595	
6,850.00	6,813.13	5,402.64	4,556.75	23.72	54.18	-105.04	-1,692.52	1,987.94	3,492.45	3,448.29	44.16	79.085	
6,900.00	6,851.64	5,415.62	4,566.66	23.94	54.36	-95.85	-1,697.26	1,994.86	3,537.59	3,493.16	44.43	79.614	
6,950.00	6,887.25	5,424.57	4,573.49	24.16	54.49	-85.56	-1,700.54	1,999.63	3,583.16	3,538.47	44.69	80.172	
7,000.00	6,919.67	5,429.43	4,577.20	24.38	54.55	-74.91	-1,702.31	2,002.22	3,628.82	3,583.88	44.94	80.746	
7,050.00	6,948.65	5,430.15	4,577.75	24.62	54.56	-64.75	-1,702.57	2,002.60	3,674.26	3,629.08	45.18	81.327	
7,100.00	6,973.99	5,426.72	4,575.13	24.88	54.52	-55.69	-1,701.32	2,000.78	3,719.14	3,673.73	45.41	81.905	
7,150.00	6,995.49	5,419.18	4,569.38	25.18	54.41	-47.99	-1,698.57	1,996.76	3,763.13	3,717.50	45.63	82.470	
7,200.00	7,012.97	5,407.59	4,560.53	25.51	54.25	-41.63	-1,694.33	1,990.58	3,805.92	3,760.07	45.85	83.016	
7,250.00	7,026.32	5,392.02	4,548.65	25.89	54.03	-36.45	-1,688.64	1,982.28	3,847.18	3,801.12	46.05	83.536	
7,300.00	7,035.43	5,372.60	4,533.83	26.33	53.76	-32.23	-1,681.54	1,971.94	3,886.61	3,840.35	46.26	84.024	
7,350.00	7,040.22	5,349.48	4,516.18	26.84	53.44	-28.78	-1,673.09	1,959.62	3,923.91	3,877.46	46.45	84.478	
7,377.14	7,041.00	5,335.44	4,505.47	27.14	53.25	-27.17	-1,667.96	1,952.14	3,943.16	3,896.66	46.51	84.787	
7,400.00	7,041.12	5,323.19	4,496.11	27.41	53.08	-27.00	-1,663.48	1,945.61	3,959.09	3,912.55	46.54	85.064	
7,500.00	7,041.64	5,269.58	4,455.20	28.77	52.33	-26.29	-1,643.88	1,917.04	4,029.09	3,982.38	46.71	86.253	
7,600.00	7,042.16	5,215.97	4,414.29	30.39	51.58	-25.60	-1,624.29	1,888.48	4,099.63	4,052.75	46.89	87.440	
7,700.00	7,042.67	5,162.36	4,373.37	32.22	50.84	-24.91	-1,604.70	1,859.91	4,170.69	4,123.64	47.05	88.640	
7,800.00	7,043.19	5,108.75	4,332.46	34.20	50.09	-24.24	-1,585.10	1,831.34	4,242.24	4,195.04	47.21	89.863	
7,900.00	7,043.71	5,055.14	4,291.55	36.31	49.35	-23.59	-1,565.51	1,802.78	4,314.26	4,266.91	47.35	91.113	
8,000.00	7,044.23	5,001.54	4,250.63	38.52	48.60	-22.94	-1,545.91	1,774.21	4,386.71	4,339.24	47.48	92.397	
8,100.00	7,044.75	4,947.93	4,209.72	40.80	47.86	-22.31	-1,526.32	1,745.65	4,459.59	4,412.00	47.59	93.715	
8,200.00	7,045.26	4,894.32	4,168.80	43.15	47.11	-21.69	-1,506.72	1,717.08	4,532.87	4,485.19	47.68	95.072	
8,300.00	7,045.78	4,840.71	4,127.89	45.54	46.37	-21.09	-1,487.13	1,688.52	4,606.53	4,558.78	47.75	96.470	
8,400.00	7,046.30	4,787.10	4,086.98	47.97	45.62	-20.49	-1,467.54	1,659.95	4,680.55	4,632.75	47.80	97.910	
8,500.00	7,046.82	4,733.49	4,046.06	50.44	44.88	-19.91	-1,447.94	1,631.39	4,754.92	4,707.08	47.84	99.394	
8,600.00	7,047.34	4,679.89	4,005.15	52.94	44.13	-19.34	-1,428.35	1,602.82	4,829.62	4,781.76	47.85	100.922	
8,700.00	7,047.86	4,626.28	3,964.24	55.46	43.39	-18.78	-1,408.75	1,574.25	4,904.63	4,856.78	47.85	102.496	
8,800.00	7,048.37	4,572.67	3,923.32	58.00	42.64	-18.23	-1,389.16	1,545.69	4,979.95	4,932.12	47.83	104.115	
8,900.00	7,048.89	4,519.06	3,882.41	60.56	41.90	-17.70	-1,369.56	1,517.12	5,055.55	5,007.76	47.79	105.781	
9,000.00	7,049.41	4,465.45	3,841.49	63.13	41.16	-17.17	-1,349.97	1,488.56	5,131.43	5,083.69	47.74	107.492	
9,100.00	7,049.93	4,411.84	3,800.58	65.72	40.41	-16.66	-1,330.37	1,459.99	5,207.57	5,159.90	47.67	109.250	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HNB-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,050.45	4,358.24	3,759.67	68.32	39.67	-16.15	-1,310.78	1,431.43	5,283.96	5,236.38	47.58	111.052	
9,300.00	7,050.97	4,304.63	3,718.75	70.93	38.93	-15.66	-1,291.19	1,402.86	5,360.59	5,313.11	47.48	112.903	
9,400.00	7,051.48	4,251.02	3,677.84	73.55	38.18	-15.17	-1,271.59	1,374.30	5,437.46	5,390.09	47.37	114.797	
9,500.00	7,052.00	4,197.41	3,636.93	76.18	37.44	-14.69	-1,252.00	1,345.73	5,514.54	5,467.30	47.24	116.738	
9,600.00	7,052.52	4,143.80	3,596.01	78.81	36.70	-14.23	-1,232.40	1,317.17	5,591.84	5,544.74	47.10	118.722	
9,700.00	7,053.04	4,090.19	3,555.10	81.46	35.96	-13.77	-1,212.81	1,288.60	5,669.33	5,622.39	46.95	120.753	
9,800.00	7,053.56	4,036.58	3,514.18	84.10	35.22	-13.32	-1,193.21	1,260.03	5,747.03	5,700.24	46.79	122.825	
9,900.00	7,054.08	3,982.98	3,473.27	86.76	34.48	-12.88	-1,173.62	1,231.47	5,824.91	5,778.29	46.62	124.942	
10,000.00	7,054.59	3,929.37	3,432.36	89.42	33.74	-12.45	-1,154.03	1,202.90	5,902.97	5,856.53	46.44	127.101	
10,100.00	7,055.11	3,875.76	3,391.44	92.08	32.99	-12.03	-1,134.43	1,174.34	5,981.20	5,934.95	46.26	129.302	
10,200.00	7,055.63	3,822.15	3,350.53	94.75	32.25	-11.62	-1,114.84	1,145.77	6,059.60	6,013.54	46.07	131.543	
10,300.00	7,056.15	3,768.54	3,309.62	97.42	31.52	-11.21	-1,095.24	1,117.21	6,138.16	6,092.29	45.87	133.823	
10,400.00	7,056.67	3,714.93	3,268.70	100.10	30.78	-10.81	-1,075.65	1,088.64	6,216.87	6,171.21	45.66	136.144	
10,500.00	7,057.18	3,661.33	3,227.79	102.78	30.04	-10.42	-1,056.05	1,060.08	6,295.74	6,250.28	45.46	138.499	
10,600.00	7,057.70	3,607.72	3,186.87	105.46	29.30	-10.04	-1,036.46	1,031.51	6,374.74	6,329.49	45.25	140.893	
10,700.00	7,058.22	3,554.11	3,145.96	108.14	28.56	-9.66	-1,016.86	1,002.95	6,453.88	6,408.85	45.03	143.318	
10,800.00	7,058.74	3,500.50	3,105.05	110.83	27.83	-9.29	-997.27	974.38	6,533.15	6,488.33	44.81	145.781	
10,900.00	7,059.26	3,446.89	3,064.13	113.52	27.09	-8.93	-977.68	945.81	6,612.55	6,567.95	44.60	148.269	
11,000.00	7,059.78	3,393.28	3,023.22	116.21	26.36	-8.57	-958.08	917.25	6,692.07	6,647.69	44.38	150.792	
11,100.00	7,060.29	3,339.68	2,982.31	118.90	25.62	-8.22	-938.49	888.68	6,771.71	6,727.55	44.16	153.337	
11,200.00	7,060.81	3,286.07	2,941.39	121.60	24.89	-7.88	-918.89	860.12	6,851.47	6,807.52	43.94	155.911	
11,300.00	7,061.33	3,232.46	2,900.48	124.30	24.16	-7.54	-899.30	831.55	6,931.33	6,887.60	43.73	158.504	
11,400.00	7,061.85	3,178.85	2,859.56	127.00	23.43	-7.21	-879.70	802.99	7,011.30	6,967.79	43.52	161.121	
11,500.00	7,062.37	3,125.24	2,818.65	129.70	22.70	-6.89	-860.11	774.42	7,091.38	7,048.07	43.31	163.753	
11,600.00	7,062.89	3,071.63	2,777.74	132.40	21.97	-6.57	-840.52	745.86	7,171.55	7,128.45	43.10	166.400	
11,700.00	7,063.40	3,018.03	2,736.82	135.10	21.24	-6.26	-820.92	717.29	7,251.82	7,208.93	42.89	169.061	
11,800.00	7,063.92	2,964.42	2,695.91	137.81	20.51	-5.95	-801.33	688.73	7,332.19	7,289.49	42.70	171.726	
11,900.00	7,064.44	2,910.81	2,655.00	140.51	19.79	-5.65	-781.73	660.16	7,412.64	7,370.14	42.50	174.404	
12,000.00	7,064.96	2,857.20	2,614.08	143.22	19.07	-5.35	-762.14	631.59	7,493.18	7,450.87	42.32	177.072	
12,100.00	7,065.48	2,803.59	2,573.17	145.93	18.35	-5.06	-742.54	603.03	7,573.81	7,531.67	42.13	179.752	
12,200.00	7,066.00	2,749.98	2,532.26	148.64	17.63	-4.77	-722.95	574.46	7,654.52	7,612.55	41.96	182.406	
12,300.00	7,066.51	2,696.38	2,491.34	151.35	16.92	-4.49	-703.36	545.90	7,735.30	7,693.51	41.80	185.071	
12,400.00	7,067.03	2,642.77	2,450.43	154.06	16.20	-4.22	-683.76	517.33	7,816.17	7,774.52	41.64	187.692	
12,500.00	7,067.55	2,589.16	2,409.51	156.77	15.50	-3.94	-664.17	488.77	7,897.10	7,855.61	41.50	190.310	
12,600.00	7,068.07	2,535.55	2,368.60	159.49	14.80	-3.68	-644.57	460.20	7,978.11	7,936.75	41.37	192.868	
12,700.00	7,068.59	2,500.00	2,341.45	162.20	14.38	-3.50	-631.59	441.28	8,059.24	8,017.89	41.35	194.892	
12,800.00	7,069.11	2,500.00	2,341.45	164.92	14.38	-3.50	-631.59	441.28	8,140.68	8,099.12	41.56	195.892	
12,900.00	7,069.62	2,500.00	2,341.45	167.63	14.38	-3.50	-631.59	441.28	8,222.53	8,180.77	41.76	196.910	
13,000.00	7,070.14	2,459.85	2,310.52	170.35	14.04	-3.31	-617.12	420.17	8,304.43	8,262.78	41.65	199.367	
13,100.00	7,070.66	2,445.50	2,299.37	173.07	13.94	-3.24	-612.00	412.71	8,386.77	8,345.03	41.74	200.916	
13,200.00	7,071.18	2,400.00	2,263.74	175.78	13.77	-3.03	-595.99	389.38	8,469.62	8,428.00	41.62	203.508	
13,300.00	7,071.70	2,400.00	2,263.74	178.50	13.77	-3.03	-595.99	389.38	8,552.39	8,510.58	41.81	204.564	
13,400.00	7,072.21	2,400.00	2,263.74	181.22	13.77	-3.03	-595.99	389.38	8,635.52	8,593.53	41.99	205.634	
13,500.00	7,072.73	2,400.00	2,263.74	183.94	13.77	-3.03	-595.99	389.38	8,719.01	8,676.83	42.18	206.719	
13,600.00	7,073.25	2,400.00	2,263.74	186.66	13.77	-3.03	-595.99	389.38	8,802.85	8,760.49	42.36	207.817	
13,700.00	7,073.77	2,363.00	2,234.43	189.38	13.57	-2.86	-583.21	370.75	8,886.72	8,844.43	42.29	210.136	
13,800.00	7,074.29	2,349.83	2,223.94	192.10	13.51	-2.81	-578.72	364.20	8,970.97	8,928.59	42.38	211.677	
13,900.00	7,074.81	2,300.00	2,183.88	194.82	13.27	-2.59	-561.95	339.76	9,055.76	9,013.52	42.24	214.402	
14,000.00	7,075.32	2,300.00	2,183.88	197.54	13.27	-2.59	-561.95	339.76	9,140.34	9,097.93	42.41	215.525	
14,100.00	7,075.84	2,300.00	2,183.88	200.27	13.27	-2.59	-561.95	339.76	9,225.22	9,182.64	42.58	216.659	
14,200.00	7,076.36	2,300.00	2,183.88	202.99	13.27	-2.59	-561.95	339.76	9,310.40	9,267.66	42.75	217.804	
14,300.00	7,076.88	2,300.00	2,183.88	205.71	13.27	-2.59	-561.95	339.76	9,395.88	9,352.97	42.91	218.959	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 7Y-HNB-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,400.00	7,077.40	2,300.00	2,183.88	208.44	13.27	-2.59	-561.95	339.76	9,481.64	9,438.57	43.07	220.123	
14,500.00	7,077.92	2,262.05	2,153.03	211.16	13.08	-2.43	-549.45	321.53	9,567.38	9,524.37	43.01	222.434	
14,600.00	7,078.43	2,250.11	2,143.26	213.88	13.02	-2.38	-545.56	315.86	9,653.47	9,610.37	43.10	223.964	
14,700.00	7,078.95	2,238.30	2,133.58	216.61	12.96	-2.34	-541.75	310.30	9,739.77	9,696.57	43.19	225.493	
14,800.00	7,079.47	2,200.00	2,101.97	219.33	12.77	-2.18	-529.51	292.46	9,826.41	9,783.28	43.14	227.802	
14,900.00	7,079.99	2,200.00	2,101.97	222.06	12.77	-2.18	-529.51	292.46	9,913.02	9,869.72	43.29	228.987	
15,000.00	7,080.51	2,200.00	2,101.97	224.78	12.77	-2.18	-529.51	292.46	9,999.87	9,956.42	43.44	230.180	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	67.96	11.20	27.67	29.85				
100.00	100.00	100.00	100.00	0.48	0.48	67.96	11.20	27.67	29.85	28.88	0.97	30.924	
200.00	200.00	200.00	200.00	1.28	1.28	67.96	11.20	27.67	29.85	27.28	2.56	11.638	
300.00	300.00	300.47	300.45	1.77	1.88	71.00	9.45	27.45	29.03	25.55	3.48	8.344	
400.00	400.00	400.69	400.53	2.15	3.21	81.04	4.23	26.80	27.13	22.82	4.32	6.286	
488.18	488.18	488.67	488.18	2.44	4.05	97.10	-3.22	25.87	26.07	21.28	4.79	5.442 CC	
500.00	500.00	500.42	499.87	2.48	4.16	99.75	-4.42	25.72	26.10	21.23	4.87	5.355 ES	
600.00	600.00	599.43	598.14	2.77	4.96	124.07	-16.39	24.23	29.31	23.24	6.07	4.830	
700.00	700.00	697.49	694.99	3.03	5.67	144.70	-31.56	22.34	38.99	31.30	7.69	5.069	
800.00	800.00	794.38	790.13	3.28	6.32	158.03	-49.77	20.07	54.57	45.54	9.03	6.043	
900.00	900.00	889.91	883.26	3.51	6.94	166.16	-70.84	17.45	74.85	64.76	10.09	7.418	
1,000.00	999.98	985.53	975.79	3.78	7.26	-40.20	-94.76	14.47	97.57	86.86	10.70	9.115	
1,083.35	1,083.22	1,066.93	1,054.44	4.28	7.50	-38.30	-115.58	11.88	115.22	103.87	11.34	10.157	
1,100.00	1,099.84	1,083.24	1,070.19	4.29	7.55	-38.10	-119.75	11.36	118.57	107.16	11.41	10.394	
1,200.00	1,199.64	1,181.16	1,164.81	4.47	7.87	-37.10	-144.81	8.24	138.70	126.76	11.94	11.612	
1,300.00	1,299.43	1,279.09	1,259.43	4.70	8.21	-36.36	-169.86	5.12	158.87	146.34	12.53	12.676	
1,400.00	1,399.23	1,377.02	1,354.04	4.95	8.56	-35.78	-194.92	2.00	179.06	165.92	13.14	13.626	
1,500.00	1,499.02	1,474.94	1,448.66	5.20	8.93	-35.32	-219.97	-1.12	199.26	185.49	13.77	14.474	
1,600.00	1,598.82	1,572.87	1,543.28	5.47	9.30	-34.95	-245.03	-4.24	219.47	205.06	14.41	15.231	
1,700.00	1,698.61	1,670.80	1,637.89	5.75	9.69	-34.64	-270.08	-7.36	239.68	224.62	15.07	15.907	
1,800.00	1,798.41	1,768.73	1,732.51	6.04	10.08	-34.37	-295.13	-10.48	259.91	244.17	15.74	16.513	
1,900.00	1,898.20	1,866.65	1,827.13	6.34	10.49	-34.15	-320.19	-13.60	280.14	263.71	16.42	17.057	
2,000.00	1,998.00	1,964.58	1,921.74	6.64	10.90	-33.95	-345.24	-16.72	300.37	283.25	17.12	17.546	
2,100.00	2,097.79	2,062.51	2,016.36	6.94	11.31	-33.78	-370.30	-19.84	320.60	302.78	17.82	17.988	
2,200.00	2,197.59	2,160.43	2,110.98	7.26	11.73	-33.63	-395.35	-22.96	340.84	322.30	18.54	18.387	
2,300.00	2,297.38	2,258.36	2,205.59	7.57	12.16	-33.50	-420.41	-26.08	361.08	341.82	19.26	18.750	
2,400.00	2,397.18	2,356.29	2,300.21	7.89	12.59	-33.38	-445.46	-29.20	381.32	361.33	19.99	19.080	
2,500.00	2,496.97	2,454.22	2,394.83	8.22	13.02	-33.27	-470.51	-32.31	401.56	380.84	20.72	19.381	
2,600.00	2,596.77	2,552.14	2,489.44	8.54	13.46	-33.17	-495.57	-35.43	421.80	400.34	21.46	19.656	
2,700.00	2,696.57	2,650.07	2,584.06	8.87	13.90	-33.09	-520.62	-38.55	442.05	419.84	22.20	19.908	
2,800.00	2,796.36	2,748.00	2,678.68	9.21	14.35	-33.01	-545.68	-41.67	462.29	439.34	22.95	20.140	
2,900.00	2,896.16	2,845.93	2,773.29	9.54	14.79	-32.93	-570.73	-44.79	482.54	458.83	23.71	20.354	
3,000.00	2,995.95	2,943.85	2,867.91	9.87	15.24	-32.86	-595.79	-47.91	502.79	478.32	24.46	20.552	
3,100.00	3,095.75	3,041.78	2,962.53	10.21	15.70	-32.80	-620.84	-51.03	523.03	497.81	25.23	20.734	
3,200.00	3,195.54	3,139.71	3,057.14	10.55	16.15	-32.74	-645.89	-54.15	543.28	517.29	25.99	20.904	
3,300.00	3,295.34	3,237.63	3,151.76	10.89	16.61	-32.69	-670.95	-57.27	563.53	536.77	26.76	21.061	
3,400.00	3,395.13	3,335.56	3,246.37	11.23	17.06	-32.64	-696.00	-60.39	583.78	556.25	27.53	21.208	
3,500.00	3,494.93	3,433.49	3,340.99	11.58	17.52	-32.59	-721.06	-63.51	604.03	575.73	28.30	21.345	
3,600.00	3,594.72	3,531.42	3,435.61	11.92	17.98	-32.55	-746.11	-66.63	624.28	595.21	29.07	21.473	
3,700.00	3,694.52	3,629.34	3,530.22	12.26	18.44	-32.51	-771.16	-69.75	644.53	614.68	29.85	21.593	
3,800.00	3,794.31	3,727.27	3,624.84	12.61	18.91	-32.47	-796.22	-72.87	664.78	634.15	30.63	21.705	
3,900.00	3,894.11	3,825.20	3,719.46	12.96	19.37	-32.43	-821.27	-75.99	685.03	653.62	31.41	21.811	
4,000.00	3,993.90	3,923.13	3,814.07	13.30	19.84	-32.40	-846.33	-79.11	705.28	673.09	32.19	21.910	
4,100.00	4,093.70	4,021.05	3,908.69	13.65	20.30	-32.37	-871.38	-82.23	725.53	692.56	32.97	22.004	
4,200.00	4,193.49	4,118.98	4,003.31	14.00	20.77	-32.34	-896.44	-85.35	745.78	712.02	33.76	22.092	
4,300.00	4,293.29	4,216.91	4,097.92	14.35	21.24	-32.31	-921.49	-88.47	766.03	731.49	34.54	22.175	
4,400.00	4,393.08	4,314.83	4,192.54	14.70	21.71	-32.28	-946.54	-91.59	786.28	750.95	35.33	22.254	
4,500.00	4,492.88	4,412.76	4,287.16	15.05	22.18	-32.26	-971.60	-94.71	806.54	770.42	36.12	22.329	
4,600.00	4,592.68	4,510.69	4,381.77	15.40	22.65	-32.23	-996.65	-97.83	826.79	789.88	36.91	22.400	
4,700.00	4,692.47	4,608.62	4,476.39	15.75	23.12	-32.21	-1,021.71	-100.95	847.04	809.34	37.70	22.467	
4,800.00	4,792.27	4,706.54	4,571.01	16.10	23.59	-32.19	-1,046.76	-104.07	867.29	828.80	38.49	22.531	
4,900.00	4,892.06	4,804.47	4,665.62	16.45	24.07	-32.16	-1,071.82	-107.19	887.54	848.26	39.29	22.592	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,902.40	4,760.24	16.81	24.54	-32.14	-1,096.87	-110.31	907.80	867.72	40.08	22.650	
5,100.00	5,091.85	5,000.32	4,854.86	17.16	25.01	-32.12	-1,121.92	-113.43	928.05	887.17	40.87	22.705	
5,200.00	5,191.45	5,098.25	4,949.47	17.51	25.49	-32.11	-1,146.98	-116.55	948.30	906.63	41.67	22.757	
5,300.00	5,291.24	5,196.18	5,044.09	17.87	25.96	-32.09	-1,172.03	-119.67	968.55	926.09	42.47	22.808	
5,400.00	5,391.04	5,294.11	5,138.71	18.22	26.44	-32.07	-1,197.09	-122.79	988.81	945.54	43.26	22.856	
5,500.00	5,490.83	5,392.03	5,233.32	18.57	26.91	-32.05	-1,222.14	-125.91	1,009.06	965.00	44.06	22.901	
5,600.00	5,590.63	5,489.96	5,327.94	18.93	27.39	-32.04	-1,247.19	-129.02	1,029.31	984.45	44.86	22.945	
5,700.00	5,690.42	5,587.89	5,422.56	19.28	27.87	-32.02	-1,272.25	-132.14	1,049.57	1,003.91	45.66	22.988	
5,800.00	5,790.22	5,685.82	5,517.17	19.64	28.34	-32.01	-1,297.30	-135.26	1,069.82	1,023.36	46.46	23.028	
5,900.00	5,890.01	5,783.74	5,611.79	19.99	28.82	-31.99	-1,322.36	-138.38	1,090.07	1,042.81	47.26	23.067	
6,000.00	5,989.81	5,881.67	5,706.41	20.35	29.30	-31.98	-1,347.41	-141.50	1,110.33	1,062.27	48.06	23.104	
6,100.00	6,089.60	5,979.60	5,801.02	20.70	29.78	-31.97	-1,372.47	-144.62	1,130.58	1,081.72	48.86	23.139	
6,200.00	6,189.40	6,077.52	5,895.64	21.06	30.26	-31.96	-1,397.52	-147.74	1,150.83	1,101.17	49.66	23.174	
6,300.00	6,289.19	6,175.45	5,990.26	21.41	30.74	-31.94	-1,422.57	-150.86	1,171.09	1,120.62	50.46	23.207	
6,400.00	6,388.99	6,273.38	6,084.87	21.77	31.22	-31.93	-1,447.63	-153.98	1,191.34	1,140.07	51.27	23.239	
6,498.43	6,487.22	6,369.77	6,178.01	22.12	31.69	-31.92	-1,472.29	-157.05	1,211.27	1,159.22	52.06	23.269	
6,500.00	6,488.79	6,371.31	6,179.49	22.12	31.70	-33.96	-1,472.68	-157.10	1,211.59	1,159.52	52.07	23.270	
6,550.00	6,538.54	6,420.19	6,226.72	22.32	31.94	-66.49	-1,485.19	-158.66	1,221.79	1,169.32	52.46	23.290	
6,600.00	6,587.76	6,468.67	6,273.56	22.59	32.17	-75.31	-1,497.59	-160.20	1,232.07	1,179.23	52.85	23.314	
6,650.00	6,636.08	6,516.38	6,319.66	22.84	32.41	-78.95	-1,509.80	-161.72	1,242.44	1,189.31	53.13	23.385	
6,700.00	6,683.13	6,562.95	6,364.66	23.07	32.64	-80.86	-1,521.71	-163.21	1,252.93	1,199.56	53.37	23.478	
6,750.00	6,728.55	6,608.03	6,408.21	23.29	32.86	-82.04	-1,533.25	-164.64	1,263.59	1,210.02	53.57	23.587	
6,800.00	6,771.99	6,651.28	6,450.00	23.51	33.07	-82.83	-1,544.31	-166.02	1,274.52	1,220.77	53.75	23.712	
6,850.00	6,813.13	6,692.37	6,489.69	23.72	33.27	-83.40	-1,554.82	-167.33	1,285.82	1,231.91	53.91	23.850	
6,900.00	6,851.64	6,730.98	6,527.00	23.94	33.46	-83.78	-1,564.70	-168.56	1,297.63	1,243.57	54.07	24.001	
6,950.00	6,887.25	6,766.82	6,561.63	24.16	33.64	-83.99	-1,573.87	-169.70	1,310.08	1,255.85	54.22	24.160	
7,000.00	6,919.67	6,799.61	6,593.32	24.38	33.80	-84.01	-1,582.26	-170.75	1,323.28	1,268.88	54.40	24.327	
7,050.00	6,948.65	6,829.12	6,621.83	24.62	33.94	-83.83	-1,589.81	-171.69	1,337.35	1,282.75	54.59	24.496	
7,100.00	6,973.99	6,855.11	6,646.94	24.88	34.07	-83.42	-1,596.46	-172.51	1,352.38	1,297.55	54.83	24.667	
7,150.00	6,995.49	6,877.39	6,668.46	25.18	34.18	-82.75	-1,602.16	-173.22	1,368.43	1,313.33	55.10	24.836	
7,200.00	7,012.97	6,895.78	6,686.23	25.51	34.27	-81.80	-1,606.87	-173.81	1,385.52	1,330.11	55.41	25.004	
7,250.00	7,026.32	6,910.15	6,700.12	25.89	34.34	-80.54	-1,610.54	-174.27	1,403.65	1,347.89	55.76	25.171	
7,300.00	7,035.43	7,033.38	6,817.95	26.33	34.95	-83.67	-1,641.46	-191.21	1,422.39	1,365.43	56.96	24.973	
7,350.00	7,040.22	7,798.88	7,240.03	26.84	40.02	-97.99	-1,741.32	-753.12	1,434.46	1,372.27	62.19	23.066	
7,377.14	7,041.00	7,826.01	7,240.17	27.14	40.38	-97.98	-1,740.77	-780.25	1,434.33	1,371.43	62.90	22.805	
7,400.00	7,041.12	7,848.87	7,240.29	27.41	40.69	-97.98	-1,740.31	-803.10	1,434.32	1,370.82	63.50	22.589	
7,500.00	7,041.64	7,948.87	7,240.81	28.77	42.09	-97.98	-1,738.27	-903.08	1,434.28	1,367.97	66.32	21.628	
7,600.00	7,042.16	8,048.87	7,241.33	30.39	43.59	-97.98	-1,736.24	-1,003.06	1,434.25	1,364.79	69.45	20.651	
7,700.00	7,042.67	8,148.87	7,241.85	32.22	45.19	-97.98	-1,734.20	-1,103.04	1,434.21	1,361.36	72.85	19.687	
7,800.00	7,043.19	8,248.87	7,242.36	34.20	46.88	-97.98	-1,732.17	-1,203.02	1,434.17	1,357.69	76.48	18.753	
7,900.00	7,043.71	8,348.87	7,242.88	36.31	48.65	-97.98	-1,730.14	-1,302.99	1,434.13	1,353.83	80.30	17.859	
8,000.00	7,044.23	8,448.87	7,243.40	38.52	50.48	-97.98	-1,728.10	-1,402.97	1,434.10	1,349.80	84.30	17.012	
8,100.00	7,044.75	8,548.87	7,243.92	40.80	52.39	-97.98	-1,726.07	-1,502.95	1,434.06	1,345.62	88.44	16.215	
8,200.00	7,045.26	8,648.87	7,244.44	43.15	54.36	-97.98	-1,724.03	-1,602.93	1,434.02	1,341.31	92.71	15.467	
8,300.00	7,045.78	8,748.87	7,244.96	45.54	56.39	-97.98	-1,722.00	-1,702.91	1,433.98	1,336.89	97.10	14.768	
8,400.00	7,046.30	8,848.87	7,245.47	47.97	58.46	-97.98	-1,719.96	-1,802.88	1,433.95	1,332.37	101.58	14.117	
8,500.00	7,046.82	8,948.87	7,245.99	50.44	60.59	-97.98	-1,717.93	-1,902.86	1,433.91	1,327.76	106.15	13.509	
8,600.00	7,047.34	9,048.87	7,246.51	52.94	62.75	-97.98	-1,715.90	-2,002.84	1,433.87	1,323.09	110.79	12.942	
8,700.00	7,047.86	9,148.87	7,247.03	55.46	64.96	-97.98	-1,713.86	-2,102.82	1,433.84	1,318.34	115.50	12.415	
8,800.00	7,048.37	9,248.87	7,247.55	58.00	67.20	-97.98	-1,711.83	-2,202.80	1,433.80	1,313.53	120.26	11.922	
8,900.00	7,048.89	9,348.87	7,248.06	60.56	69.47	-97.99	-1,709.79	-2,302.77	1,433.76	1,308.68	125.08	11.462	
9,000.00	7,049.41	9,448.87	7,248.58	63.13	71.78	-97.99	-1,707.76	-2,402.75	1,433.72	1,303.77	129.95	11.033	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft		
Survey Program:		0-MWD										Rule Assigned:		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor		
9,100.00	7,049.93	9,548.87	7,249.10	65.72	74.11	-97.99	-1,705.73	-2,502.73	1,433.69	1,298.83	134.86	10.631			
9,200.00	7,050.45	9,648.87	7,249.62	68.32	76.47	-97.99	-1,703.69	-2,602.71	1,433.65	1,293.84	139.81	10.255			
9,300.00	7,050.97	9,748.87	7,250.14	70.93	78.85	-97.99	-1,701.66	-2,702.68	1,433.61	1,288.83	144.78	9.902			
9,400.00	7,051.48	9,848.87	7,250.66	73.55	81.25	-97.99	-1,699.62	-2,802.66	1,433.58	1,283.78	149.80	9.570			
9,500.00	7,052.00	9,948.87	7,251.17	76.18	83.67	-97.99	-1,697.59	-2,902.64	1,433.54	1,278.70	154.83	9.259			
9,600.00	7,052.52	10,048.87	7,251.69	78.81	86.10	-97.99	-1,695.55	-3,002.62	1,433.50	1,273.60	159.90	8.965			
9,700.00	7,053.04	10,148.87	7,252.21	81.46	88.56	-97.99	-1,693.52	-3,102.60	1,433.46	1,268.48	164.98	8.689			
9,800.00	7,053.56	10,248.87	7,252.73	84.10	91.03	-97.99	-1,691.49	-3,202.57	1,433.43	1,263.34	170.09	8.428			
9,900.00	7,054.08	10,348.87	7,253.25	86.76	93.51	-97.99	-1,689.45	-3,302.55	1,433.39	1,258.18	175.21	8.181			
10,000.00	7,054.59	10,448.87	7,253.77	89.42	96.01	-97.99	-1,687.42	-3,402.53	1,433.35	1,252.99	180.36	7.947			
10,100.00	7,055.11	10,548.87	7,254.28	92.08	98.52	-97.99	-1,685.38	-3,502.51	1,433.31	1,247.80	185.52	7.726			
10,200.00	7,055.63	10,648.87	7,254.80	94.75	101.04	-97.99	-1,683.35	-3,602.49	1,433.28	1,242.59	190.69	7.516			
10,300.00	7,056.15	10,748.87	7,255.32	97.42	103.57	-97.99	-1,681.31	-3,702.46	1,433.24	1,237.36	195.88	7.317			
10,400.00	7,056.67	10,848.87	7,255.84	100.10	106.11	-97.99	-1,679.28	-3,802.44	1,433.20	1,232.13	201.08	7.128			
10,500.00	7,057.18	10,948.87	7,256.36	102.78	108.66	-97.99	-1,677.25	-3,902.42	1,433.17	1,226.88	206.29	6.947			
10,600.00	7,057.70	11,048.87	7,256.87	105.46	111.22	-97.99	-1,675.21	-4,002.40	1,433.13	1,221.62	211.51	6.776			
10,700.00	7,058.22	11,148.87	7,257.39	108.14	113.79	-97.99	-1,673.18	-4,102.38	1,433.09	1,216.35	216.74	6.612			
10,800.00	7,058.74	11,248.87	7,257.91	110.83	116.37	-97.99	-1,671.14	-4,202.35	1,433.05	1,211.07	221.98	6.456			
10,900.00	7,059.26	11,348.87	7,258.43	113.52	118.95	-97.99	-1,669.11	-4,302.33	1,433.02	1,205.78	227.23	6.306			
11,000.00	7,059.78	11,448.87	7,258.95	116.21	121.54	-97.99	-1,667.08	-4,402.31	1,432.98	1,200.49	232.49	6.164			
11,100.00	7,060.29	11,548.87	7,259.47	118.90	124.13	-97.99	-1,665.04	-4,502.29	1,432.94	1,195.18	237.76	6.027			
11,200.00	7,060.81	11,648.87	7,259.98	121.60	126.73	-97.99	-1,663.01	-4,602.27	1,432.90	1,189.87	243.03	5.896			
11,300.00	7,061.33	11,748.87	7,260.50	124.30	129.34	-97.99	-1,660.97	-4,702.24	1,432.87	1,184.56	248.31	5.770			
11,400.00	7,061.85	11,848.87	7,261.02	127.00	131.95	-97.99	-1,658.94	-4,802.22	1,432.83	1,179.23	253.60	5.650			
11,500.00	7,062.37	11,948.87	7,261.54	129.70	134.56	-97.99	-1,656.90	-4,902.20	1,432.79	1,173.91	258.89	5.534			
11,600.00	7,062.89	12,048.87	7,262.06	132.40	137.18	-97.99	-1,654.87	-5,002.18	1,432.76	1,168.57	264.18	5.423			
11,700.00	7,063.40	12,148.87	7,262.58	135.10	139.81	-97.99	-1,652.84	-5,102.16	1,432.72	1,163.23	269.49	5.316			
11,800.00	7,063.92	12,248.87	7,263.09	137.81	142.44	-97.99	-1,650.80	-5,202.13	1,432.68	1,157.89	274.79	5.214			
11,900.00	7,064.44	12,348.87	7,263.61	140.51	145.07	-97.99	-1,648.77	-5,302.11	1,432.64	1,152.54	280.11	5.115			
12,000.00	7,064.96	12,448.87	7,264.13	143.22	147.71	-97.99	-1,646.73	-5,402.09	1,432.61	1,147.19	285.42	5.019			
12,100.00	7,065.48	12,548.87	7,264.65	145.93	150.35	-97.99	-1,644.70	-5,502.07	1,432.57	1,141.83	290.74	4.927			
12,200.00	7,066.00	12,648.87	7,265.17	148.64	152.99	-97.99	-1,642.66	-5,602.05	1,432.53	1,136.47	296.07	4.839			
12,300.00	7,066.51	12,748.87	7,265.68	151.35	155.64	-97.99	-1,640.63	-5,702.02	1,432.50	1,131.10	301.39	4.753			
12,400.00	7,067.03	12,848.87	7,266.20	154.06	158.29	-97.99	-1,638.60	-5,802.00	1,432.46	1,125.73	306.72	4.670			
12,500.00	7,067.55	12,948.87	7,266.72	156.77	160.94	-97.99	-1,636.56	-5,901.98	1,432.42	1,120.36	312.06	4.590			
12,600.00	7,068.07	13,048.87	7,267.24	159.49	163.60	-97.99	-1,634.53	-6,001.96	1,432.38	1,114.99	317.40	4.513			
12,700.00	7,068.59	13,148.87	7,267.76	162.20	166.25	-97.99	-1,632.49	-6,101.94	1,432.35	1,109.61	322.74	4.438			
12,800.00	7,069.11	13,248.87	7,268.28	164.92	168.91	-97.99	-1,630.46	-6,201.91	1,432.31	1,104.23	328.08	4.366			
12,900.00	7,069.62	13,348.87	7,268.79	167.63	171.58	-97.99	-1,628.42	-6,301.89	1,432.27	1,098.84	333.43	4.296			
13,000.00	7,070.14	13,448.87	7,269.31	170.35	174.24	-97.99	-1,626.39	-6,401.87	1,432.23	1,093.46	338.78	4.228			
13,100.00	7,070.66	13,548.87	7,269.83	173.07	176.91	-97.99	-1,624.36	-6,501.85	1,432.20	1,088.07	344.13	4.162			
13,200.00	7,071.18	13,648.87	7,270.35	175.78	179.58	-97.99	-1,622.32	-6,601.83	1,432.16	1,082.68	349.48	4.098			
13,300.00	7,071.70	13,748.87	7,270.87	178.50	182.25	-97.99	-1,620.29	-6,701.80	1,432.12	1,077.29	354.84	4.036			
13,400.00	7,072.21	13,848.87	7,271.39	181.22	184.92	-97.99	-1,618.25	-6,801.78	1,432.09	1,071.89	360.19	3.976			
13,500.00	7,072.73	13,948.87	7,271.90	183.94	187.60	-97.99	-1,616.22	-6,901.76	1,432.05	1,066.49	365.55	3.917			
13,600.00	7,073.25	14,048.87	7,272.42	186.66	190.28	-97.99	-1,614.19	-7,001.74	1,432.01	1,061.10	370.92	3.861			
13,700.00	7,073.77	14,148.87	7,272.94	189.38	192.95	-98.00	-1,612.15	-7,101.72	1,431.97	1,055.69	376.28	3.806			
13,800.00	7,074.29	14,248.87	7,273.46	192.10	195.63	-98.00	-1,610.12	-7,201.69	1,431.94	1,050.29	381.65	3.752			
13,900.00	7,074.81	14,348.87	7,273.98	194.82	198.32	-98.00	-1,608.08	-7,301.67	1,431.90	1,044.89	387.01	3.700			
14,000.00	7,075.32	14,448.87	7,274.49	197.54	201.00	-98.00	-1,606.05	-7,401.65	1,431.86	1,039.48	392.38	3.649			
14,100.00	7,075.84	14,548.87	7,275.01	200.27	203.68	-98.00	-1,604.01	-7,501.63	1,431.82	1,034.07	397.75	3.600			
14,200.00	7,076.36	14,648.87	7,275.53	202.99	206.37	-98.00	-1,601.98	-7,601.60	1,431.79	1,028.66	403.12	3.552			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,076.88	14,748.87	7,276.05	205.71	209.06	-98.00	-1,599.95	-7,701.58	1,431.75	1,023.25	408.50	3.505	
14,400.00	7,077.40	14,848.87	7,276.57	208.44	211.75	-98.00	-1,597.91	-7,801.56	1,431.71	1,017.84	413.87	3.459	
14,500.00	7,077.92	14,948.87	7,277.09	211.16	214.44	-98.00	-1,595.88	-7,901.54	1,431.68	1,012.43	419.25	3.415	
14,600.00	7,078.43	15,048.87	7,277.60	213.88	217.13	-98.00	-1,593.84	-8,001.52	1,431.64	1,007.01	424.63	3.372	
14,700.00	7,078.95	15,148.87	7,278.12	216.61	219.82	-98.00	-1,591.81	-8,101.49	1,431.60	1,001.60	430.01	3.329	
14,800.00	7,079.47	15,248.87	7,278.64	219.33	222.51	-98.00	-1,589.77	-8,201.47	1,431.56	996.18	435.39	3.288	
14,900.00	7,079.99	15,348.87	7,279.16	222.06	225.21	-98.00	-1,587.74	-8,301.45	1,431.53	990.76	440.77	3.248	
15,000.00	7,080.51	15,448.87	7,279.68	224.78	227.90	-98.00	-1,585.71	-8,401.43	1,431.49	985.34	446.15	3.209	
15,100.00	7,081.03	15,548.87	7,280.20	227.51	230.60	-98.00	-1,583.67	-8,501.41	1,431.45	979.92	451.53	3.170	
15,200.00	7,081.54	15,648.87	7,280.71	230.24	233.30	-98.00	-1,581.64	-8,601.38	1,431.42	974.50	456.92	3.133	
15,300.00	7,082.06	15,748.87	7,281.23	232.96	235.99	-98.00	-1,579.60	-8,701.36	1,431.38	969.08	462.30	3.096	
15,400.00	7,082.58	15,848.87	7,281.75	235.69	238.69	-98.00	-1,577.57	-8,801.34	1,431.34	963.65	467.69	3.060	
15,500.00	7,083.10	15,948.87	7,282.27	238.41	241.39	-98.00	-1,575.54	-8,901.32	1,431.30	958.23	473.08	3.026	
15,600.00	7,083.62	16,048.87	7,282.79	241.14	244.09	-98.00	-1,573.50	-9,001.30	1,431.27	952.80	478.46	2.991	
15,700.00	7,084.13	16,148.87	7,283.30	243.87	246.80	-98.00	-1,571.47	-9,101.27	1,431.23	947.38	483.85	2.958	
15,800.00	7,084.65	16,248.87	7,283.82	246.60	249.50	-98.00	-1,569.43	-9,201.25	1,431.19	941.95	489.24	2.925	
15,900.00	7,085.17	16,348.87	7,284.34	249.32	252.20	-98.00	-1,567.40	-9,301.23	1,431.15	936.52	494.63	2.893	
16,000.00	7,085.69	16,448.87	7,284.86	252.05	254.90	-98.00	-1,565.36	-9,401.21	1,431.12	931.09	500.03	2.862	
16,100.00	7,086.21	16,548.87	7,285.38	254.78	257.61	-98.00	-1,563.33	-9,501.19	1,431.08	925.66	505.42	2.831	
16,200.00	7,086.73	16,648.87	7,285.90	257.51	260.31	-98.00	-1,561.30	-9,601.16	1,431.04	920.23	510.81	2.802	
16,300.00	7,087.24	16,748.87	7,286.41	260.24	263.02	-98.00	-1,559.26	-9,701.14	1,431.01	914.80	516.20	2.772	
16,400.00	7,087.76	16,848.87	7,286.93	262.97	265.73	-98.00	-1,557.23	-9,801.12	1,430.97	909.37	521.60	2.743	
16,500.00	7,088.28	16,948.87	7,287.45	265.69	268.43	-98.00	-1,555.19	-9,901.10	1,430.93	903.94	526.99	2.715	
16,600.00	7,088.80	17,048.87	7,287.97	268.42	271.14	-98.00	-1,553.16	-10,001.08	1,430.89	898.50	532.39	2.688	
16,700.00	7,089.32	17,148.87	7,288.49	271.15	273.85	-98.00	-1,551.12	-10,101.05	1,430.86	893.07	537.79	2.661	
16,800.00	7,089.84	17,248.87	7,289.01	273.88	276.56	-98.00	-1,549.09	-10,201.03	1,430.82	887.64	543.18	2.634	
16,900.00	7,090.35	17,348.87	7,289.52	276.61	279.27	-98.00	-1,547.06	-10,301.01	1,430.78	882.20	548.58	2.608	
16,991.36	7,090.83	17,440.23	7,290.00	279.11	281.74	-98.00	-1,545.20	-10,392.35	1,430.75	877.23	553.51	2.585	
17,000.00	7,090.87	17,440.88	7,290.00	279.34	281.76	-98.00	-1,545.18	-10,393.00	1,430.77	876.90	553.87	2.583	
17,024.65	7,091.00	17,440.88	7,290.00	280.01	281.76	-98.00	-1,545.18	-10,393.00	1,431.11	876.36	554.75	2.580 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	1.00	1.00	0.00	0.00	-88.41	2.70	-97.24	97.28				
100.00	100.00	101.00	101.00	0.48	0.49	-88.41	2.70	-97.24	97.28	96.30	0.97	99.958	
200.00	200.00	201.00	201.00	1.28	1.29	-88.41	2.70	-97.24	97.28	94.71	2.57	37.859	
216.33	216.33	217.33	217.33	1.36	1.37	-88.41	2.70	-97.24	97.28	94.55	2.73	35.655 CC	
300.00	300.00	301.00	301.00	1.77	1.77	-88.41	2.70	-97.24	97.28	93.74	3.54	27.479	
400.00	400.00	400.87	400.85	2.15	2.25	-89.46	0.93	-97.33	97.34	93.13	4.21	23.125	
500.00	500.00	500.50	500.34	2.48	3.43	-92.53	-4.31	-97.61	97.71	92.83	4.87	20.058 ES	
600.00	600.00	599.65	599.10	2.77	4.32	-97.52	-12.94	-98.06	98.93	93.41	5.52	17.937	
700.00	700.00	698.08	696.80	3.03	5.09	-104.15	-24.88	-98.69	101.86	95.63	6.24	16.335	
800.00	800.00	795.58	793.11	3.28	5.78	-111.90	-40.00	-99.49	107.52	100.41	7.10	15.136	
900.00	900.00	891.92	887.72	3.51	6.42	-120.07	-58.15	-100.44	116.82	108.71	8.11	14.402	
1,000.00	999.98	987.27	980.70	3.78	7.00	21.06	-79.23	-101.55	128.78	119.58	9.20	13.993	
1,083.35	1,083.22	1,068.68	1,059.72	4.28	7.24	15.42	-98.78	-102.58	138.92	128.72	10.21	13.608	
1,100.00	1,099.84	1,085.04	1,075.59	4.29	7.29	14.42	-102.71	-102.78	140.87	130.55	10.32	13.651	
1,200.00	1,199.64	1,183.26	1,170.93	4.47	7.59	8.96	-126.31	-104.02	153.36	142.27	11.09	13.828	
1,300.00	1,299.43	1,281.48	1,266.27	4.70	7.91	4.35	-149.91	-105.26	167.03	155.18	11.86	14.086	
1,400.00	1,399.23	1,379.70	1,361.60	4.95	8.24	0.45	-173.50	-106.51	181.62	169.02	12.60	14.411	
1,500.00	1,499.02	1,477.92	1,456.94	5.20	8.59	-2.87	-197.10	-107.75	196.92	183.59	13.33	14.768	
1,600.00	1,598.82	1,576.14	1,552.27	5.47	8.95	-5.71	-220.70	-108.99	212.78	198.72	14.06	15.135	
1,700.00	1,698.61	1,674.36	1,647.61	5.75	9.32	-8.15	-244.30	-110.23	229.08	214.30	14.78	15.500	
1,800.00	1,798.41	1,772.58	1,742.94	6.04	9.70	-10.27	-267.90	-111.47	245.74	230.24	15.50	15.854	
1,900.00	1,898.20	1,870.80	1,838.28	6.34	10.09	-12.12	-291.50	-112.71	262.68	246.46	16.22	16.193	
2,000.00	1,998.00	1,969.02	1,933.62	6.64	10.49	-13.74	-315.09	-113.95	279.85	262.91	16.95	16.515	
2,100.00	2,097.79	2,067.24	2,028.95	6.94	10.89	-15.18	-338.69	-115.19	297.22	279.55	17.67	16.819	
2,200.00	2,197.59	2,165.47	2,124.29	7.26	11.30	-16.45	-362.29	-116.43	314.76	296.35	18.40	17.105	
2,300.00	2,297.38	2,263.69	2,219.62	7.57	11.72	-17.60	-385.89	-117.67	332.42	313.29	19.13	17.373	
2,400.00	2,397.18	2,361.91	2,314.96	7.89	12.14	-18.62	-409.49	-118.92	350.21	330.34	19.87	17.625	
2,500.00	2,496.97	2,460.13	2,410.30	8.22	12.56	-19.55	-433.09	-120.16	368.09	347.48	20.61	17.860	
2,600.00	2,596.77	2,558.35	2,505.63	8.54	12.99	-20.40	-456.68	-121.40	386.06	364.71	21.35	18.081	
2,700.00	2,696.57	2,656.57	2,600.97	8.87	13.42	-21.16	-480.28	-122.64	404.10	382.00	22.10	18.289	
2,800.00	2,796.36	2,754.79	2,696.30	9.21	13.86	-21.86	-503.88	-123.88	422.21	399.36	22.84	18.483	
2,900.00	2,896.16	2,853.01	2,791.64	9.54	14.30	-22.51	-527.48	-125.12	440.37	416.78	23.59	18.666	
3,000.00	2,995.95	2,951.23	2,886.97	9.87	14.74	-23.10	-551.08	-126.36	458.58	434.24	24.34	18.837	
3,100.00	3,095.75	3,049.45	2,982.31	10.21	15.18	-23.65	-574.68	-127.60	476.84	451.74	25.10	18.999	
3,200.00	3,195.54	3,147.67	3,077.65	10.55	15.63	-24.16	-598.27	-128.84	495.13	469.28	25.85	19.151	
3,300.00	3,295.34	3,245.89	3,172.98	10.89	16.07	-24.63	-621.87	-130.08	513.46	486.85	26.61	19.295	
3,400.00	3,395.13	3,344.12	3,268.32	11.23	16.52	-25.07	-645.47	-131.32	531.82	504.45	27.37	19.430	
3,500.00	3,494.93	3,442.34	3,363.65	11.58	16.97	-25.48	-669.07	-132.57	550.21	522.08	28.13	19.558	
3,600.00	3,594.72	3,540.56	3,458.99	11.92	17.43	-25.86	-692.67	-133.81	568.63	539.74	28.89	19.680	
3,700.00	3,694.52	3,638.78	3,554.32	12.26	17.88	-26.22	-716.27	-135.05	587.07	557.41	29.66	19.795	
3,800.00	3,794.31	3,737.00	3,649.66	12.61	18.34	-26.56	-739.86	-136.29	605.53	575.10	30.42	19.904	
3,900.00	3,894.11	3,835.22	3,745.00	12.96	18.80	-26.88	-763.46	-137.53	624.01	592.82	31.19	20.007	
4,000.00	3,993.90	3,933.44	3,840.33	13.30	19.25	-27.18	-787.06	-138.77	642.50	610.54	31.96	20.105	
4,100.00	4,093.70	4,031.66	3,935.67	13.65	19.71	-27.46	-810.66	-140.01	661.01	628.29	32.72	20.199	
4,200.00	4,193.49	4,129.88	4,031.00	14.00	20.18	-27.72	-834.26	-141.25	679.54	646.05	33.49	20.288	
4,300.00	4,293.29	4,228.10	4,126.34	14.35	20.64	-27.98	-857.86	-142.49	698.08	663.82	34.26	20.373	
4,400.00	4,393.08	4,326.32	4,221.68	14.70	21.10	-28.22	-881.45	-143.73	716.63	681.60	35.04	20.454	
4,500.00	4,492.88	4,424.54	4,317.01	15.05	21.56	-28.44	-905.05	-144.98	735.20	699.39	35.81	20.532	
4,600.00	4,592.68	4,522.77	4,412.35	15.40	22.03	-28.66	-928.65	-146.22	753.77	717.19	36.58	20.606	
4,700.00	4,692.47	4,620.99	4,507.68	15.75	22.49	-28.87	-952.25	-147.46	772.36	735.00	37.35	20.677	
4,800.00	4,792.27	4,719.21	4,603.02	16.10	22.96	-29.06	-975.85	-148.70	790.95	752.82	38.13	20.744	
4,900.00	4,892.06	4,817.43	4,698.35	16.45	23.42	-29.25	-999.44	-149.94	809.55	770.65	38.90	20.809	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	4,915.65	4,793.69	16.81	23.89	-29.43	-1,023.04	-151.18	828.16	788.48	39.68	20.872	
5,100.00	5,091.85	5,013.87	4,889.03	17.16	24.36	-29.60	-1,046.64	-152.42	846.78	806.33	40.45	20.932	
5,200.00	5,191.45	5,112.09	4,984.36	17.51	24.83	-29.77	-1,070.24	-153.66	865.41	824.17	41.23	20.989	
5,300.00	5,291.24	5,210.31	5,079.70	17.87	25.30	-29.92	-1,093.84	-154.90	884.04	842.03	42.01	21.044	
5,400.00	5,391.04	5,308.53	5,175.03	18.22	25.77	-30.07	-1,117.44	-156.14	902.67	859.89	42.79	21.097	
5,500.00	5,490.83	5,406.75	5,270.37	18.57	26.24	-30.22	-1,141.03	-157.38	921.32	877.75	43.56	21.148	
5,600.00	5,590.63	5,504.97	5,365.70	18.93	26.71	-30.36	-1,164.63	-158.63	939.97	895.62	44.34	21.198	
5,700.00	5,690.42	5,603.19	5,461.04	19.28	27.18	-30.49	-1,188.23	-159.87	958.62	913.50	45.12	21.245	
5,800.00	5,790.22	5,701.42	5,556.38	19.64	27.65	-30.62	-1,211.83	-161.11	977.28	931.38	45.90	21.291	
5,900.00	5,890.01	5,799.64	5,651.71	19.99	28.12	-30.74	-1,235.43	-162.35	995.94	949.26	46.68	21.335	
6,000.00	5,989.81	5,897.86	5,747.05	20.35	28.59	-30.86	-1,259.03	-163.59	1,014.61	967.15	47.46	21.378	
6,100.00	6,089.60	5,996.08	5,842.38	20.70	29.06	-30.97	-1,282.62	-164.83	1,033.28	985.04	48.24	21.419	
6,200.00	6,189.40	6,094.30	5,937.72	21.06	29.54	-31.08	-1,306.22	-166.07	1,051.96	1,002.93	49.02	21.458	
6,300.00	6,289.19	6,192.52	6,033.06	21.41	30.01	-31.19	-1,329.82	-167.31	1,070.64	1,020.83	49.80	21.497	
6,400.00	6,388.99	6,290.74	6,128.39	21.77	30.48	-31.29	-1,353.42	-168.55	1,089.32	1,038.73	50.59	21.534	
6,498.43	6,487.22	6,387.42	6,222.23	22.12	30.95	-31.39	-1,376.65	-169.77	1,107.71	1,056.36	51.35	21.570	
6,500.00	6,488.79	6,388.96	6,223.73	22.12	30.96	-33.44	-1,377.02	-169.79	1,108.00	1,056.64	51.37	21.571	
6,550.00	6,538.54	6,437.95	6,271.28	22.32	31.19	-66.11	-1,388.79	-170.41	1,117.40	1,065.65	51.75	21.593	
6,600.00	6,587.76	6,486.45	6,318.35	22.59	31.43	-75.10	-1,400.44	-171.03	1,126.87	1,074.75	52.12	21.620	
6,650.00	6,636.08	6,534.09	6,364.59	22.84	31.66	-78.91	-1,411.89	-171.63	1,136.43	1,084.04	52.39	21.692	
6,700.00	6,683.13	6,580.51	6,409.65	23.07	31.88	-81.01	-1,423.04	-172.21	1,146.13	1,093.53	52.61	21.786	
6,750.00	6,728.55	6,625.37	6,453.19	23.29	32.10	-82.37	-1,433.82	-172.78	1,156.08	1,103.29	52.79	21.901	
6,800.00	6,771.99	6,670.70	6,497.19	23.51	32.31	-83.40	-1,444.71	-173.47	1,166.37	1,113.41	52.95	22.026	
6,850.00	6,813.13	6,726.00	6,550.69	23.72	32.57	-84.41	-1,457.87	-177.94	1,176.81	1,123.59	53.22	22.112	
6,900.00	6,851.64	6,785.13	6,607.18	23.94	32.87	-85.29	-1,471.64	-188.56	1,187.19	1,133.61	53.58	22.158	
6,950.00	6,887.25	6,848.73	6,666.43	24.16	33.17	-86.09	-1,485.94	-206.61	1,197.36	1,143.35	54.01	22.167	
7,000.00	6,919.67	6,917.49	6,727.91	24.38	33.43	-86.86	-1,500.60	-233.58	1,207.15	1,152.65	54.51	22.147	
7,050.00	6,948.65	6,992.10	6,790.59	24.62	33.67	-87.60	-1,515.34	-271.16	1,216.36	1,161.29	55.08	22.085	
7,100.00	6,973.99	7,073.09	6,852.68	24.88	33.92	-88.30	-1,529.66	-321.04	1,224.75	1,169.00	55.75	21.967	
7,150.00	6,995.49	7,160.73	6,911.50	25.18	34.22	-88.94	-1,542.89	-384.53	1,232.07	1,175.47	56.60	21.770	
7,200.00	7,012.97	7,254.73	6,963.41	25.51	34.66	-89.47	-1,554.11	-461.96	1,238.03	1,180.39	57.64	21.480	
7,250.00	7,026.32	7,354.07	7,004.19	25.89	35.34	-89.83	-1,562.30	-552.04	1,242.39	1,183.46	58.93	21.081	
7,300.00	7,035.43	7,456.90	7,029.89	26.33	36.31	-89.96	-1,566.56	-651.37	1,244.95	1,184.43	60.52	20.571	
7,350.00	7,040.22	7,560.70	7,037.98	26.84	37.51	-89.83	-1,566.37	-754.72	1,245.60	1,183.24	62.36	19.974	
7,363.06	7,040.75	7,569.18	7,038.09	26.98	37.62	-89.83	-1,566.21	-763.19	1,245.58	1,182.93	62.66	19.879	
7,377.14	7,041.00	7,583.25	7,038.16	27.14	37.80	-89.82	-1,565.93	-777.26	1,245.58	1,182.55	63.03	19.762	
7,400.00	7,041.12	7,606.11	7,038.28	27.41	38.09	-89.82	-1,565.48	-800.12	1,245.58	1,181.93	63.65	19.571	
7,500.00	7,041.64	7,706.11	7,038.80	28.77	39.46	-89.82	-1,563.48	-900.10	1,245.58	1,179.02	66.56	18.714	
7,600.00	7,042.16	7,806.11	7,039.32	30.39	40.94	-89.82	-1,561.49	-1,000.08	1,245.58	1,175.80	69.78	17.850	
7,700.00	7,042.67	7,906.11	7,039.84	32.22	42.54	-89.82	-1,559.49	-1,100.05	1,245.58	1,172.31	73.27	17.000	
7,800.00	7,043.19	8,006.11	7,040.35	34.20	44.23	-89.82	-1,557.49	-1,200.03	1,245.58	1,168.60	76.98	16.181	
7,900.00	7,043.71	8,106.11	7,040.87	36.31	46.00	-89.82	-1,555.50	-1,300.01	1,245.58	1,164.69	80.89	15.399	
8,000.00	7,044.23	8,206.11	7,041.39	38.52	47.86	-89.82	-1,553.50	-1,399.99	1,245.58	1,160.62	84.96	14.661	
8,100.00	7,044.75	8,306.11	7,041.91	40.80	49.78	-89.82	-1,551.51	-1,499.97	1,245.58	1,156.40	89.18	13.967	
8,200.00	7,045.26	8,406.11	7,042.43	43.15	51.77	-89.82	-1,549.51	-1,599.95	1,245.58	1,152.06	93.53	13.318	
8,300.00	7,045.78	8,506.11	7,042.94	45.54	53.82	-89.82	-1,547.52	-1,699.93	1,245.58	1,147.60	97.98	12.712	
8,400.00	7,046.30	8,606.11	7,043.46	47.97	55.92	-89.82	-1,545.52	-1,799.91	1,245.59	1,143.05	102.53	12.148	
8,500.00	7,046.82	8,706.11	7,043.98	50.44	58.07	-89.82	-1,543.53	-1,899.88	1,245.59	1,138.42	107.17	11.622	
8,600.00	7,047.34	8,806.11	7,044.50	52.94	60.27	-89.82	-1,541.53	-1,999.86	1,245.59	1,133.71	111.88	11.133	
8,700.00	7,047.86	8,906.11	7,045.02	55.46	62.50	-89.82	-1,539.53	-2,099.84	1,245.59	1,128.93	116.66	10.678	
8,800.00	7,048.37	9,006.11	7,045.53	58.00	64.77	-89.82	-1,537.54	-2,199.82	1,245.59	1,124.10	121.49	10.253	
8,900.00	7,048.89	9,106.11	7,046.05	60.56	67.07	-89.82	-1,535.54	-2,299.80	1,245.59	1,119.22	126.37	9.857	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,000.00	7,049.41	9,206.11	7,046.57	63.13	69.40	-89.82	-1,533.55	-2,399.78	1,245.59	1,114.29	131.30	9.487	
9,100.00	7,049.93	9,306.11	7,047.09	65.72	71.76	-89.82	-1,531.55	-2,499.76	1,245.59	1,109.32	136.27	9.141	
9,200.00	7,050.45	9,406.11	7,047.61	68.32	74.14	-89.82	-1,529.56	-2,599.74	1,245.59	1,104.32	141.28	8.817	
9,300.00	7,050.97	9,506.11	7,048.13	70.93	76.55	-89.82	-1,527.56	-2,699.71	1,245.59	1,099.28	146.32	8.513	
9,400.00	7,051.48	9,606.11	7,048.64	73.55	78.98	-89.82	-1,525.56	-2,799.69	1,245.60	1,094.21	151.39	8.228	
9,500.00	7,052.00	9,706.11	7,049.16	76.18	81.42	-89.82	-1,523.57	-2,899.67	1,245.60	1,089.11	156.48	7.960	
9,600.00	7,052.52	9,806.11	7,049.68	78.81	83.88	-89.82	-1,521.57	-2,999.65	1,245.60	1,083.99	161.60	7.708	
9,700.00	7,053.04	9,906.11	7,050.20	81.46	86.36	-89.82	-1,519.58	-3,099.63	1,245.60	1,078.85	166.75	7.470	
9,800.00	7,053.56	10,006.11	7,050.72	84.10	88.85	-89.82	-1,517.58	-3,199.61	1,245.60	1,073.69	171.91	7.246	
9,900.00	7,054.08	10,106.11	7,051.23	86.76	91.36	-89.82	-1,515.59	-3,299.59	1,245.60	1,068.51	177.09	7.034	
10,000.00	7,054.59	10,206.11	7,051.75	89.42	93.88	-89.82	-1,513.59	-3,399.57	1,245.60	1,063.31	182.29	6.833	
10,100.00	7,055.11	10,306.11	7,052.27	92.08	96.40	-89.82	-1,511.59	-3,499.54	1,245.60	1,058.10	187.50	6.643	
10,200.00	7,055.63	10,406.11	7,052.79	94.75	98.95	-89.82	-1,509.60	-3,599.52	1,245.60	1,052.87	192.73	6.463	
10,300.00	7,056.15	10,506.11	7,053.31	97.42	101.50	-89.82	-1,507.60	-3,699.50	1,245.60	1,047.63	197.97	6.292	
10,400.00	7,056.67	10,606.11	7,053.82	100.10	104.06	-89.82	-1,505.61	-3,799.48	1,245.60	1,042.38	203.23	6.129	
10,500.00	7,057.18	10,706.11	7,054.34	102.78	106.62	-89.82	-1,503.61	-3,899.46	1,245.61	1,037.11	208.49	5.974	
10,600.00	7,057.70	10,806.11	7,054.86	105.46	109.20	-89.82	-1,501.62	-3,999.44	1,245.61	1,031.84	213.77	5.827	
10,700.00	7,058.22	10,906.11	7,055.38	108.14	111.78	-89.82	-1,499.62	-4,099.42	1,245.61	1,026.55	219.05	5.686	
10,800.00	7,058.74	11,006.11	7,055.90	110.83	114.37	-89.82	-1,497.63	-4,199.40	1,245.61	1,021.26	224.35	5.552	
10,900.00	7,059.26	11,106.11	7,056.41	113.52	116.97	-89.82	-1,495.63	-4,299.37	1,245.61	1,015.96	229.65	5.424	
11,000.00	7,059.78	11,206.11	7,056.93	116.21	119.57	-89.82	-1,493.63	-4,399.35	1,245.61	1,010.65	234.96	5.301	
11,100.00	7,060.29	11,306.11	7,057.45	118.90	122.18	-89.82	-1,491.64	-4,499.33	1,245.61	1,005.33	240.28	5.184	
11,200.00	7,060.81	11,406.11	7,057.97	121.60	124.80	-89.82	-1,489.64	-4,599.31	1,245.61	1,000.01	245.60	5.072	
11,300.00	7,061.33	11,506.11	7,058.49	124.30	127.42	-89.82	-1,487.65	-4,699.29	1,245.61	994.68	250.94	4.964	
11,400.00	7,061.85	11,606.11	7,059.01	127.00	130.04	-89.82	-1,485.65	-4,799.27	1,245.61	989.34	256.27	4.860	
11,500.00	7,062.37	11,706.11	7,059.52	129.70	132.67	-89.82	-1,483.66	-4,899.25	1,245.62	984.00	261.62	4.761	
11,600.00	7,062.89	11,806.11	7,060.04	132.40	135.30	-89.82	-1,481.66	-4,999.23	1,245.62	978.65	266.96	4.666	
11,700.00	7,063.40	11,906.11	7,060.56	135.10	137.94	-89.82	-1,479.66	-5,099.20	1,245.62	973.30	272.32	4.574	
11,800.00	7,063.92	12,006.11	7,061.08	137.81	140.58	-89.82	-1,477.67	-5,199.18	1,245.62	967.94	277.68	4.486	
11,900.00	7,064.44	12,106.11	7,061.60	140.51	143.22	-89.82	-1,475.67	-5,299.16	1,245.62	962.58	283.04	4.401	
12,000.00	7,064.96	12,206.11	7,062.11	143.22	145.87	-89.82	-1,473.68	-5,399.14	1,245.62	957.22	288.40	4.319	
12,100.00	7,065.48	12,306.11	7,062.63	145.93	148.52	-89.82	-1,471.68	-5,499.12	1,245.62	951.85	293.78	4.240	
12,200.00	7,066.00	12,406.11	7,063.15	148.64	151.18	-89.82	-1,469.69	-5,599.10	1,245.62	946.47	299.15	4.164	
12,300.00	7,066.51	12,506.11	7,063.67	151.35	153.83	-89.82	-1,467.69	-5,699.08	1,245.62	941.10	304.53	4.090	
12,400.00	7,067.03	12,606.11	7,064.19	154.06	156.49	-89.82	-1,465.69	-5,799.06	1,245.62	935.72	309.91	4.019	
12,500.00	7,067.55	12,706.11	7,064.70	156.77	159.15	-89.82	-1,463.70	-5,899.03	1,245.63	930.33	315.29	3.951	
12,600.00	7,068.07	12,806.11	7,065.22	159.49	161.82	-89.82	-1,461.70	-5,999.01	1,245.63	924.95	320.68	3.884	
12,700.00	7,068.59	12,906.11	7,065.74	162.20	164.48	-89.82	-1,459.71	-6,098.99	1,245.63	919.56	326.07	3.820	
12,800.00	7,069.11	13,006.11	7,066.26	164.92	167.15	-89.82	-1,457.71	-6,198.97	1,245.63	914.16	331.46	3.758	
12,900.00	7,069.62	13,106.11	7,066.78	167.63	169.83	-89.82	-1,455.72	-6,298.95	1,245.63	908.77	336.86	3.698	
13,000.00	7,070.14	13,206.11	7,067.29	170.35	172.50	-89.82	-1,453.72	-6,398.93	1,245.63	903.37	342.26	3.639	
13,100.00	7,070.66	13,306.11	7,067.81	173.07	175.17	-89.82	-1,451.73	-6,498.91	1,245.63	897.97	347.66	3.583	
13,200.00	7,071.18	13,406.11	7,068.33	175.78	177.85	-89.82	-1,449.73	-6,598.89	1,245.63	892.57	353.06	3.528	
13,300.00	7,071.70	13,506.11	7,068.85	178.50	180.53	-89.82	-1,447.73	-6,698.86	1,245.63	887.16	358.47	3.475	
13,400.00	7,072.21	13,606.11	7,069.37	181.22	183.21	-89.82	-1,445.74	-6,798.84	1,245.63	881.76	363.88	3.423	
13,500.00	7,072.73	13,706.11	7,069.88	183.94	185.89	-89.82	-1,443.74	-6,898.82	1,245.63	876.35	369.29	3.373	
13,600.00	7,073.25	13,806.11	7,070.40	186.66	188.58	-89.82	-1,441.75	-6,998.80	1,245.64	870.94	374.70	3.324	
13,700.00	7,073.77	13,906.11	7,070.92	189.38	191.26	-89.82	-1,439.75	-7,098.78	1,245.64	865.53	380.11	3.277	
13,800.00	7,074.29	14,006.11	7,071.44	192.10	193.95	-89.82	-1,437.76	-7,198.76	1,245.64	860.11	385.52	3.231	
13,900.00	7,074.81	14,106.11	7,071.96	194.82	196.64	-89.82	-1,435.76	-7,298.74	1,245.64	854.70	390.94	3.186	
14,000.00	7,075.32	14,206.11	7,072.48	197.54	199.33	-89.82	-1,433.76	-7,398.72	1,245.64	849.28	396.36	3.143	
14,100.00	7,075.84	14,306.11	7,072.99	200.27	202.02	-89.82	-1,431.77	-7,498.69	1,245.64	843.86	401.78	3.100	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HNB-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Reference Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,200.00	7,076.36	14,406.11	7,073.51	202.99	204.71	-89.82	-1,429.77	-7,598.67	1,245.64	838.44	407.20	3.059	
14,300.00	7,076.88	14,506.11	7,074.03	205.71	207.40	-89.82	-1,427.78	-7,698.65	1,245.64	833.02	412.62	3.019	
14,400.00	7,077.40	14,606.11	7,074.55	208.44	210.10	-89.82	-1,425.78	-7,798.63	1,245.64	827.60	418.05	2.980	
14,500.00	7,077.92	14,706.11	7,075.07	211.16	212.79	-89.82	-1,423.79	-7,898.61	1,245.64	822.17	423.47	2.942	
14,600.00	7,078.43	14,806.11	7,075.58	213.88	215.49	-89.82	-1,421.79	-7,998.59	1,245.65	816.75	428.90	2.904	
14,700.00	7,078.95	14,906.11	7,076.10	216.61	218.19	-89.82	-1,419.79	-8,098.57	1,245.65	811.32	434.33	2.868	
14,800.00	7,079.47	15,006.11	7,076.62	219.33	220.88	-89.82	-1,417.80	-8,198.55	1,245.65	805.89	439.75	2.833	
14,900.00	7,079.99	15,106.11	7,077.14	222.06	223.58	-89.82	-1,415.80	-8,298.52	1,245.65	800.46	445.18	2.798	
15,000.00	7,080.51	15,206.11	7,077.66	224.78	226.28	-89.82	-1,413.81	-8,398.50	1,245.65	795.03	450.62	2.764	
15,100.00	7,081.03	15,306.11	7,078.17	227.51	228.99	-89.82	-1,411.81	-8,498.48	1,245.65	789.60	456.05	2.731	
15,200.00	7,081.54	15,406.11	7,078.69	230.24	231.69	-89.82	-1,409.82	-8,598.46	1,245.65	784.17	461.48	2.699	
15,300.00	7,082.06	15,506.11	7,079.21	232.96	234.39	-89.82	-1,407.82	-8,698.44	1,245.65	778.74	466.92	2.668	
15,400.00	7,082.58	15,606.11	7,079.73	235.69	237.09	-89.82	-1,405.83	-8,798.42	1,245.65	773.30	472.35	2.637	
15,500.00	7,083.10	15,706.11	7,080.25	238.41	239.80	-89.82	-1,403.83	-8,898.40	1,245.65	767.87	477.79	2.607	
15,600.00	7,083.62	15,806.11	7,080.76	241.14	242.50	-89.82	-1,401.83	-8,998.38	1,245.66	762.43	483.22	2.578	
15,700.00	7,084.13	15,906.11	7,081.28	243.87	245.21	-89.82	-1,399.84	-9,098.35	1,245.66	757.00	488.66	2.549	
15,800.00	7,084.65	16,006.11	7,081.80	246.60	247.92	-89.82	-1,397.84	-9,198.33	1,245.66	751.56	494.10	2.521	
15,900.00	7,085.17	16,106.11	7,082.32	249.32	250.62	-89.82	-1,395.85	-9,298.31	1,245.66	746.12	499.54	2.494	
16,000.00	7,085.69	16,206.11	7,082.84	252.05	253.33	-89.82	-1,393.85	-9,398.29	1,245.66	740.68	504.98	2.467	
16,100.00	7,086.21	16,306.11	7,083.36	254.78	256.04	-89.82	-1,391.86	-9,498.27	1,245.66	735.24	510.42	2.440	
16,200.00	7,086.73	16,406.11	7,083.87	257.51	258.75	-89.82	-1,389.86	-9,598.25	1,245.66	729.80	515.86	2.415	
16,300.00	7,087.24	16,506.11	7,084.39	260.24	261.46	-89.82	-1,387.86	-9,698.23	1,245.66	724.36	521.30	2.390	
16,400.00	7,087.76	16,606.11	7,084.91	262.97	264.17	-89.82	-1,385.87	-9,798.21	1,245.66	718.92	526.75	2.365	
16,500.00	7,088.28	16,706.11	7,085.43	265.69	266.88	-89.82	-1,383.87	-9,898.18	1,245.66	713.47	532.19	2.341	
16,600.00	7,088.80	16,806.11	7,085.95	268.42	269.59	-89.82	-1,381.88	-9,998.16	1,245.67	708.03	537.63	2.317	
16,700.00	7,089.32	16,906.11	7,086.46	271.15	272.30	-89.82	-1,379.88	-10,098.14	1,245.67	702.59	543.08	2.294	
16,800.00	7,089.84	17,006.11	7,086.98	273.88	275.02	-89.82	-1,377.89	-10,198.12	1,245.67	697.14	548.53	2.271	
16,900.00	7,090.35	17,106.11	7,087.50	276.61	277.73	-89.82	-1,375.89	-10,298.10	1,245.67	691.70	553.97	2.249	
16,909.73	7,090.40	17,115.84	7,087.55	276.88	277.99	-89.82	-1,375.70	-10,307.83	1,245.67	691.17	554.50	2.246	
17,000.00	7,090.87	17,202.63	7,088.00	279.34	280.35	-89.82	-1,373.96	-10,394.59	1,245.67	686.30	559.37	2.227	
17,024.65	7,091.00	17,202.63	7,088.00	280.01	280.35	-89.82	-1,373.96	-10,394.59	1,245.99	685.74	560.25	2.224 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	1.00	1.00	0.00	0.00	-90.56	-1.08	-111.09	111.10				
100.00	100.00	101.00	101.00	0.48	0.49	-90.56	-1.08	-111.09	111.10	110.12	0.97	114.308	
200.00	200.00	200.78	200.76	1.28	1.49	-91.47	-2.85	-111.15	111.19	108.75	2.44	45.523	
300.00	300.00	300.33	300.16	1.77	2.99	-94.15	-8.08	-111.34	111.63	108.16	3.47	32.207 ES	
400.00	400.00	399.39	398.84	2.15	3.99	-98.51	-16.70	-111.64	112.90	108.58	4.32	26.119	
500.00	500.00	497.73	496.46	2.48	4.81	-104.33	-28.63	-112.05	115.74	110.56	5.18	22.326	
600.00	600.00	595.14	592.68	2.77	5.54	-111.23	-43.74	-112.58	121.06	114.92	6.14	19.715	
700.00	700.00	691.41	687.22	3.03	6.20	-118.66	-61.87	-113.21	129.75	122.55	7.21	18.006	
800.00	800.00	786.35	779.80	3.28	6.82	-126.02	-82.86	-113.95	142.47	134.14	8.33	17.104	
900.00	900.00	879.77	870.18	3.51	7.43	-132.86	-106.49	-114.77	159.57	150.11	9.46	16.867	
1,000.00	999.98	975.31	962.01	3.78	7.88	9.93	-132.83	-115.69	178.73	168.24	10.49	17.034	
1,083.35	1,083.22	1,056.29	1,039.83	4.28	8.16	5.83	-155.24	-116.47	193.40	181.92	11.48	16.844	
1,100.00	1,099.84	1,072.52	1,055.42	4.29	8.22	5.10	-159.72	-116.63	196.20	184.62	11.58	16.938	
1,200.00	1,199.64	1,169.96	1,149.05	4.47	8.54	1.10	-186.69	-117.57	213.63	201.33	12.30	17.368	
1,300.00	1,299.43	1,267.40	1,242.68	4.70	8.88	-2.29	-213.65	-118.51	231.92	218.89	13.03	17.803	
1,400.00	1,399.23	1,364.84	1,336.31	4.95	9.23	-5.18	-240.61	-119.46	250.90	237.15	13.75	18.253	
1,500.00	1,499.02	1,462.28	1,429.94	5.20	9.60	-7.67	-267.58	-120.40	270.41	255.95	14.46	18.700	
1,600.00	1,598.82	1,559.72	1,523.57	5.47	9.97	-9.82	-294.54	-121.34	290.35	275.18	15.18	19.133	
1,700.00	1,698.61	1,657.16	1,617.20	5.75	10.36	-11.70	-321.50	-122.28	310.64	294.75	15.89	19.545	
1,800.00	1,798.41	1,754.60	1,710.83	6.04	10.75	-13.35	-348.47	-123.22	331.22	314.60	16.61	19.935	
1,900.00	1,898.20	1,852.04	1,804.46	6.34	11.16	-14.80	-375.43	-124.16	352.02	334.68	17.34	20.301	
2,000.00	1,998.00	1,949.48	1,898.09	6.64	11.57	-16.09	-402.39	-125.11	373.03	354.96	18.07	20.644	
2,100.00	2,097.79	2,046.92	1,991.72	6.94	11.98	-17.25	-429.36	-126.05	394.19	375.39	18.80	20.964	
2,200.00	2,197.59	2,144.36	2,085.35	7.26	12.40	-18.29	-456.32	-126.99	415.49	395.95	19.54	21.263	
2,300.00	2,297.38	2,241.80	2,178.98	7.57	12.83	-19.22	-483.28	-127.93	436.91	416.63	20.28	21.541	
2,400.00	2,397.18	2,339.24	2,272.61	7.89	13.26	-20.07	-510.25	-128.87	458.44	437.41	21.03	21.801	
2,500.00	2,496.97	2,436.68	2,366.24	8.22	13.69	-20.85	-537.21	-129.81	480.05	458.27	21.78	22.043	
2,600.00	2,596.77	2,534.12	2,459.87	8.54	14.13	-21.56	-564.17	-130.76	501.73	479.20	22.53	22.269	
2,700.00	2,696.57	2,631.56	2,553.50	8.87	14.57	-22.20	-591.14	-131.70	523.49	500.20	23.29	22.481	
2,800.00	2,796.36	2,729.00	2,647.14	9.21	15.02	-22.80	-618.10	-132.64	545.30	521.26	24.04	22.679	
2,900.00	2,896.16	2,826.44	2,740.77	9.54	15.46	-23.35	-645.06	-133.58	567.17	542.36	24.81	22.864	
3,000.00	2,995.95	2,923.88	2,834.40	9.87	15.91	-23.86	-672.03	-134.52	589.08	563.51	25.57	23.038	
3,100.00	3,095.75	3,021.32	2,928.03	10.21	16.37	-24.34	-698.99	-135.46	611.03	584.69	26.34	23.202	
3,200.00	3,195.54	3,118.76	3,021.66	10.55	16.82	-24.78	-725.95	-136.41	633.02	605.92	27.10	23.356	
3,300.00	3,295.34	3,216.20	3,115.29	10.89	17.28	-25.19	-752.92	-137.35	655.04	627.17	27.87	23.501	
3,400.00	3,395.13	3,313.64	3,208.92	11.23	17.74	-25.57	-779.88	-138.29	677.10	648.45	28.65	23.637	
3,500.00	3,494.93	3,411.08	3,302.55	11.58	18.20	-25.93	-806.84	-139.23	699.18	669.76	29.42	23.766	
3,600.00	3,594.72	3,508.52	3,396.18	11.92	18.66	-26.27	-833.81	-140.17	721.28	691.09	30.19	23.888	
3,700.00	3,694.52	3,605.96	3,489.81	12.26	19.12	-26.59	-860.77	-141.11	743.41	712.44	30.97	24.004	
3,800.00	3,794.31	3,703.40	3,583.44	12.61	19.59	-26.89	-887.73	-142.05	765.56	733.81	31.75	24.113	
3,900.00	3,894.11	3,800.84	3,677.07	12.96	20.05	-27.17	-914.69	-143.00	787.73	755.20	32.53	24.217	
4,000.00	3,993.90	3,898.28	3,770.70	13.30	20.52	-27.44	-941.66	-143.94	809.91	776.60	33.31	24.315	
4,100.00	4,093.70	3,995.72	3,864.33	13.65	20.99	-27.69	-968.62	-144.88	832.11	798.02	34.09	24.409	
4,200.00	4,193.49	4,093.16	3,957.96	14.00	21.46	-27.93	-995.58	-145.82	854.33	819.45	34.87	24.498	
4,300.00	4,293.29	4,190.60	4,051.59	14.35	21.93	-28.16	-1,022.55	-146.76	876.56	840.90	35.66	24.583	
4,400.00	4,393.08	4,288.04	4,145.23	14.70	22.40	-28.38	-1,049.51	-147.70	898.80	862.36	36.44	24.664	
4,500.00	4,492.88	4,385.48	4,238.86	15.05	22.87	-28.58	-1,076.47	-148.65	921.05	883.82	37.23	24.741	
4,600.00	4,592.68	4,482.92	4,332.49	15.40	23.34	-28.78	-1,103.44	-149.59	943.32	905.30	38.01	24.815	
4,700.00	4,692.47	4,580.36	4,426.12	15.75	23.82	-28.97	-1,130.40	-150.53	965.59	926.79	38.80	24.885	
4,800.00	4,792.27	4,677.80	4,519.75	16.10	24.29	-29.15	-1,157.36	-151.47	987.87	948.28	39.59	24.953	
4,900.00	4,892.06	4,775.24	4,613.38	16.45	24.77	-29.32	-1,184.33	-152.41	1,010.16	969.79	40.38	25.017	
5,000.00	4,991.86	4,872.68	4,707.01	16.81	25.24	-29.48	-1,211.29	-153.35	1,032.47	991.30	41.17	25.079	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HNC-09-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,970.12	4,800.64	17.16	25.72	-29.64	-1,238.25	-154.30	1,054.77	1,012.82	41.96	25.139	
5,200.00	5,191.45	5,067.56	4,894.27	17.51	26.20	-29.79	-1,265.22	-155.24	1,077.09	1,034.34	42.75	25.196	
5,300.00	5,291.24	5,165.00	4,987.90	17.87	26.68	-29.93	-1,292.18	-156.18	1,099.41	1,055.87	43.54	25.250	
5,400.00	5,391.04	5,262.44	5,081.53	18.22	27.16	-30.07	-1,319.14	-157.12	1,121.74	1,077.41	44.33	25.303	
5,500.00	5,490.83	5,359.89	5,175.16	18.57	27.63	-30.21	-1,346.11	-158.06	1,144.07	1,098.95	45.12	25.354	
5,600.00	5,590.63	5,457.33	5,268.79	18.93	28.11	-30.33	-1,373.07	-159.00	1,166.41	1,120.50	45.92	25.402	
5,700.00	5,690.42	5,554.77	5,362.42	19.28	28.59	-30.46	-1,400.03	-159.95	1,188.76	1,142.05	46.71	25.449	
5,800.00	5,790.22	5,652.21	5,456.05	19.64	29.07	-30.58	-1,427.00	-160.89	1,211.11	1,163.60	47.51	25.494	
5,900.00	5,890.01	5,749.65	5,549.68	19.99	29.56	-30.69	-1,453.96	-161.83	1,233.46	1,185.16	48.30	25.538	
6,000.00	5,989.81	5,847.09	5,643.31	20.35	30.04	-30.80	-1,480.92	-162.77	1,255.82	1,206.73	49.09	25.580	
6,100.00	6,089.60	5,944.53	5,736.95	20.70	30.52	-30.91	-1,507.89	-163.71	1,278.19	1,228.30	49.89	25.620	
6,200.00	6,189.40	6,041.97	5,830.58	21.06	31.00	-31.01	-1,534.85	-164.65	1,300.56	1,249.87	50.69	25.659	
6,300.00	6,289.19	6,139.41	5,924.21	21.41	31.48	-31.11	-1,561.81	-165.60	1,322.93	1,271.45	51.48	25.697	
6,400.00	6,388.99	6,236.85	6,017.84	21.77	31.97	-31.20	-1,588.78	-166.54	1,345.30	1,293.03	52.28	25.734	
6,498.43	6,487.22	6,332.76	6,110.00	22.12	32.44	-31.30	-1,615.32	-167.46	1,367.33	1,314.27	53.06	25.769	
6,500.00	6,488.79	6,334.29	6,111.47	22.12	32.45	-33.34	-1,615.74	-167.48	1,367.68	1,314.61	53.07	25.770	
6,550.00	6,538.54	6,382.88	6,158.16	22.32	32.69	-65.79	-1,629.18	-167.95	1,378.91	1,325.45	53.47	25.790	
6,600.00	6,587.76	6,430.97	6,204.37	22.59	32.93	-74.51	-1,642.49	-168.41	1,390.20	1,336.34	53.86	25.812	
6,650.00	6,636.08	6,478.19	6,249.75	22.84	33.16	-78.04	-1,655.56	-168.87	1,401.51	1,347.35	54.16	25.878	
6,700.00	6,683.13	6,524.19	6,293.95	23.07	33.39	-79.83	-1,668.29	-169.31	1,412.87	1,358.46	54.42	25.964	
6,750.00	6,728.55	6,568.61	6,336.63	23.29	33.61	-80.86	-1,680.58	-169.74	1,424.34	1,369.69	54.65	26.064	
6,800.00	6,771.99	6,611.12	6,377.48	23.51	33.82	-81.51	-1,692.34	-170.15	1,435.98	1,381.12	54.86	26.174	
6,850.00	6,813.13	6,651.40	6,416.18	23.72	34.02	-81.91	-1,703.49	-170.54	1,447.88	1,392.81	55.07	26.294	
6,900.00	6,851.64	6,689.13	6,452.44	23.94	34.21	-82.14	-1,713.93	-170.91	1,460.14	1,404.88	55.27	26.419	
6,950.00	6,887.25	6,724.03	6,485.97	24.16	34.38	-82.20	-1,723.59	-171.25	1,472.88	1,417.40	55.48	26.548	
7,000.00	6,919.67	6,755.83	6,516.53	24.38	34.54	-82.09	-1,732.39	-171.55	1,486.19	1,430.48	55.71	26.677	
7,050.00	6,948.65	6,784.30	6,543.89	24.62	34.68	-81.80	-1,740.26	-171.83	1,500.15	1,444.18	55.97	26.803	
7,100.00	6,973.99	6,809.21	6,567.83	24.88	34.81	-81.30	-1,747.16	-172.07	1,514.85	1,458.58	56.27	26.923	
7,150.00	6,995.49	6,834.21	6,591.84	25.18	34.93	-80.71	-1,754.07	-172.34	1,530.32	1,473.69	56.63	27.023	
7,200.00	7,012.97	6,908.36	6,662.83	25.51	35.29	-81.78	-1,774.40	-178.57	1,546.21	1,488.79	57.42	26.927	
7,250.00	7,026.32	7,030.34	6,776.21	25.89	35.89	-84.28	-1,806.40	-209.31	1,561.86	1,503.24	58.61	26.647	
7,300.00	7,035.43	7,297.39	6,987.68	26.33	36.93	-89.95	-1,864.11	-357.58	1,575.43	1,515.11	60.33	26.115	
7,350.00	7,040.22	7,734.84	7,135.06	26.84	40.79	-93.39	-1,897.86	-756.85	1,579.85	1,516.00	63.85	24.743	
7,377.14	7,041.00	7,761.96	7,135.20	27.14	41.12	-93.38	-1,897.31	-783.97	1,579.77	1,515.23	64.54	24.477	
7,400.00	7,041.12	7,784.83	7,135.32	27.41	41.40	-93.38	-1,896.85	-806.82	1,579.76	1,514.63	65.13	24.257	
7,500.00	7,041.64	7,884.83	7,135.84	28.77	42.72	-93.38	-1,894.82	-906.80	1,579.72	1,511.79	67.93	23.255	
7,600.00	7,042.16	7,984.83	7,136.35	30.39	44.14	-93.38	-1,892.78	-1,006.78	1,579.69	1,508.64	71.04	22.235	
7,700.00	7,042.67	8,084.83	7,136.87	32.22	45.65	-93.38	-1,890.75	-1,106.76	1,579.65	1,505.23	74.42	21.225	
7,800.00	7,043.19	8,184.83	7,137.39	34.20	47.25	-93.38	-1,888.72	-1,206.74	1,579.61	1,501.58	78.03	20.244	
7,900.00	7,043.71	8,284.83	7,137.91	36.31	48.93	-93.38	-1,886.68	-1,306.71	1,579.58	1,497.74	81.84	19.302	
8,000.00	7,044.23	8,384.83	7,138.43	38.52	50.69	-93.38	-1,884.65	-1,406.69	1,579.54	1,493.72	85.82	18.406	
8,100.00	7,044.75	8,484.83	7,138.94	40.80	52.52	-93.38	-1,882.61	-1,506.67	1,579.50	1,489.56	89.95	17.561	
8,200.00	7,045.26	8,584.83	7,139.46	43.15	54.42	-93.38	-1,880.58	-1,606.65	1,579.47	1,485.26	94.21	16.766	
8,300.00	7,045.78	8,684.83	7,139.98	45.54	56.38	-93.38	-1,878.55	-1,706.63	1,579.43	1,480.85	98.58	16.022	
8,400.00	7,046.30	8,784.83	7,140.50	47.97	58.39	-93.38	-1,876.51	-1,806.60	1,579.39	1,476.34	103.06	15.326	
8,500.00	7,046.82	8,884.83	7,141.02	50.44	60.46	-93.38	-1,874.48	-1,906.58	1,579.36	1,471.74	107.62	14.675	
8,600.00	7,047.34	8,984.83	7,141.54	52.94	62.57	-93.38	-1,872.45	-2,006.56	1,579.32	1,467.06	112.26	14.068	
8,700.00	7,047.86	9,084.83	7,142.05	55.46	64.73	-93.38	-1,870.41	-2,106.54	1,579.28	1,462.31	116.97	13.501	
8,800.00	7,048.37	9,184.83	7,142.57	58.00	66.92	-93.38	-1,868.38	-2,206.52	1,579.25	1,457.50	121.74	12.972	
8,900.00	7,048.89	9,284.83	7,143.09	60.56	69.15	-93.38	-1,866.35	-2,306.49	1,579.21	1,452.64	126.57	12.477	
9,000.00	7,049.41	9,384.83	7,143.61	63.13	71.42	-93.38	-1,864.31	-2,406.47	1,579.17	1,447.73	131.44	12.014	
9,100.00	7,049.93	9,484.83	7,144.13	65.72	73.71	-93.38	-1,862.28	-2,506.45	1,579.14	1,442.77	136.36	11.580	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HNC-09-07-65 - OWB - PROPOSAL 1											Offset Site Error: 0.00 usft		
Survey Program: 0-MWD				Rule Assigned:								Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
9,200.00	7,050.45	9,584.83	7,144.64	68.32	76.03	-93.38	-1,860.25	-2,606.43	1,579.10	1,437.78	141.32	11.174	
9,300.00	7,050.97	9,684.83	7,145.16	70.93	78.38	-93.38	-1,858.21	-2,706.41	1,579.06	1,432.75	146.31	10.792	
9,400.00	7,051.48	9,784.83	7,145.68	73.55	80.75	-93.38	-1,856.18	-2,806.38	1,579.03	1,427.69	151.34	10.434	
9,500.00	7,052.00	9,884.83	7,146.20	76.18	83.14	-93.38	-1,854.15	-2,906.36	1,578.99	1,422.60	156.39	10.096	
9,600.00	7,052.52	9,984.83	7,146.72	78.81	85.56	-93.38	-1,852.11	-3,006.34	1,578.95	1,417.48	161.48	9.778	
9,700.00	7,053.04	10,084.83	7,147.23	81.46	87.99	-93.38	-1,850.08	-3,106.32	1,578.92	1,412.34	166.58	9.478	
9,800.00	7,053.56	10,184.83	7,147.75	84.10	90.43	-93.38	-1,848.05	-3,206.30	1,578.88	1,407.17	171.71	9.195	
9,900.00	7,054.08	10,284.83	7,148.27	86.76	92.90	-93.38	-1,846.01	-3,306.27	1,578.84	1,401.99	176.85	8.927	
10,000.00	7,054.59	10,384.83	7,148.79	89.42	95.37	-93.38	-1,843.98	-3,406.25	1,578.81	1,396.79	182.02	8.674	
10,100.00	7,055.11	10,484.83	7,149.31	92.08	97.86	-93.38	-1,841.95	-3,506.23	1,578.77	1,391.57	187.20	8.434	
10,200.00	7,055.63	10,584.83	7,149.82	94.75	100.37	-93.38	-1,839.91	-3,606.21	1,578.73	1,386.34	192.40	8.206	
10,300.00	7,056.15	10,684.83	7,150.34	97.42	102.88	-93.38	-1,837.88	-3,706.19	1,578.70	1,381.09	197.61	7.989	
10,400.00	7,056.67	10,784.83	7,150.86	100.10	105.41	-93.38	-1,835.85	-3,806.16	1,578.66	1,375.82	202.83	7.783	
10,500.00	7,057.18	10,884.83	7,151.38	102.78	107.94	-93.38	-1,833.81	-3,906.14	1,578.62	1,370.55	208.07	7.587	
10,600.00	7,057.70	10,984.83	7,151.90	105.46	110.49	-93.38	-1,831.78	-4,006.12	1,578.59	1,365.27	213.32	7.400	
10,700.00	7,058.22	11,084.83	7,152.41	108.14	113.04	-93.38	-1,829.75	-4,106.10	1,578.55	1,359.97	218.58	7.222	
10,800.00	7,058.74	11,184.83	7,152.93	110.83	115.60	-93.38	-1,827.71	-4,206.08	1,578.51	1,354.66	223.85	7.052	
10,900.00	7,059.26	11,284.83	7,153.45	113.52	118.17	-93.38	-1,825.68	-4,306.05	1,578.48	1,349.35	229.13	6.889	
11,000.00	7,059.78	11,384.83	7,153.97	116.21	120.75	-93.38	-1,823.65	-4,406.03	1,578.44	1,344.02	234.42	6.734	
11,100.00	7,060.29	11,484.83	7,154.49	118.90	123.33	-93.38	-1,821.61	-4,506.01	1,578.40	1,338.69	239.71	6.585	
11,200.00	7,060.81	11,584.83	7,155.01	121.60	125.92	-93.38	-1,819.58	-4,605.99	1,578.37	1,333.35	245.01	6.442	
11,300.00	7,061.33	11,684.83	7,155.52	124.30	128.52	-93.38	-1,817.55	-4,705.97	1,578.33	1,328.01	250.32	6.305	
11,400.00	7,061.85	11,784.83	7,156.04	127.00	131.12	-93.39	-1,815.51	-4,805.94	1,578.29	1,322.65	255.64	6.174	
11,500.00	7,062.37	11,884.83	7,156.56	129.70	133.73	-93.39	-1,813.48	-4,905.92	1,578.26	1,317.30	260.96	6.048	
11,600.00	7,062.89	11,984.83	7,157.08	132.40	136.34	-93.39	-1,811.45	-5,005.90	1,578.22	1,311.93	266.29	5.927	
11,700.00	7,063.40	12,084.83	7,157.60	135.10	138.96	-93.39	-1,809.41	-5,105.88	1,578.18	1,306.56	271.62	5.810	
11,800.00	7,063.92	12,184.83	7,158.11	137.81	141.58	-93.39	-1,807.38	-5,205.86	1,578.15	1,301.19	276.96	5.698	
11,900.00	7,064.44	12,284.83	7,158.63	140.51	144.20	-93.39	-1,805.35	-5,305.83	1,578.11	1,295.80	282.30	5.590	
12,000.00	7,064.96	12,384.83	7,159.15	143.22	146.83	-93.39	-1,803.31	-5,405.81	1,578.07	1,290.42	287.65	5.486	
12,100.00	7,065.48	12,484.83	7,159.67	145.93	149.47	-93.39	-1,801.28	-5,505.79	1,578.04	1,285.03	293.01	5.386	
12,200.00	7,066.00	12,584.83	7,160.19	148.64	152.10	-93.39	-1,799.25	-5,605.77	1,578.00	1,279.64	298.36	5.289	
12,300.00	7,066.51	12,684.83	7,160.70	151.35	154.74	-93.39	-1,797.21	-5,705.75	1,577.96	1,274.24	303.72	5.195	
12,400.00	7,067.03	12,784.83	7,161.22	154.06	157.39	-93.39	-1,795.18	-5,805.72	1,577.93	1,268.84	309.09	5.105	
12,500.00	7,067.55	12,884.83	7,161.74	156.77	160.03	-93.39	-1,793.15	-5,905.70	1,577.89	1,263.43	314.45	5.018	
12,600.00	7,068.07	12,984.83	7,162.26	159.49	162.68	-93.39	-1,791.11	-6,005.68	1,577.85	1,258.03	319.83	4.933	
12,700.00	7,068.59	13,084.83	7,162.78	162.20	165.34	-93.39	-1,789.08	-6,105.66	1,577.82	1,252.62	325.20	4.852	
12,800.00	7,069.11	13,184.83	7,163.29	164.92	167.99	-93.39	-1,787.05	-6,205.64	1,577.78	1,247.20	330.58	4.773	
12,900.00	7,069.62	13,284.83	7,163.81	167.63	170.65	-93.39	-1,785.01	-6,305.61	1,577.74	1,241.78	335.96	4.696	
13,000.00	7,070.14	13,384.83	7,164.33	170.35	173.31	-93.39	-1,782.98	-6,405.59	1,577.71	1,236.36	341.34	4.622	
13,100.00	7,070.66	13,484.83	7,164.85	173.07	175.97	-93.39	-1,780.95	-6,505.57	1,577.67	1,230.94	346.73	4.550	
13,200.00	7,071.18	13,584.83	7,165.37	175.78	178.64	-93.39	-1,778.91	-6,605.55	1,577.63	1,225.52	352.12	4.480	
13,300.00	7,071.70	13,684.83	7,165.89	178.50	181.30	-93.39	-1,776.88	-6,705.53	1,577.60	1,220.09	357.51	4.413	
13,400.00	7,072.21	13,784.83	7,166.40	181.22	183.97	-93.39	-1,774.85	-6,805.50	1,577.56	1,214.66	362.90	4.347	
13,500.00	7,072.73	13,884.83	7,166.92	183.94	186.64	-93.39	-1,772.81	-6,905.48	1,577.52	1,209.23	368.29	4.283	
13,600.00	7,073.25	13,984.83	7,167.44	186.66	189.32	-93.39	-1,770.78	-7,005.46	1,577.49	1,203.80	373.69	4.221	
13,700.00	7,073.77	14,084.83	7,167.96	189.38	191.99	-93.39	-1,768.75	-7,105.44	1,577.45	1,198.36	379.09	4.161	
13,800.00	7,074.29	14,184.83	7,168.48	192.10	194.67	-93.39	-1,766.71	-7,205.42	1,577.41	1,192.92	384.49	4.103	
13,900.00	7,074.81	14,284.83	7,168.99	194.82	197.35	-93.39	-1,764.68	-7,305.39	1,577.38	1,187.48	389.89	4.046	
14,000.00	7,075.32	14,384.83	7,169.51	197.54	200.03	-93.39	-1,762.65	-7,405.37	1,577.34	1,182.04	395.30	3.990	
14,100.00	7,075.84	14,484.83	7,170.03	200.27	202.71	-93.39	-1,760.61	-7,505.35	1,577.30	1,176.60	400.70	3.936	
14,200.00	7,076.36	14,584.83	7,170.55	202.99	205.39	-93.39	-1,758.58	-7,605.33	1,577.27	1,171.15	406.11	3.884	
14,300.00	7,076.88	14,684.83	7,171.07	205.71	208.07	-93.39	-1,756.55	-7,705.30	1,577.23	1,165.71	411.52	3.833	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8X-HNC-09-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,400.00	7,077.40	14,784.83	7,171.58	208.44	210.76	-93.39	-1,754.51	-7,805.28	1,577.19	1,160.26	416.93	3.783	
14,500.00	7,077.92	14,884.83	7,172.10	211.16	213.45	-93.39	-1,752.48	-7,905.26	1,577.16	1,154.81	422.35	3.734	
14,600.00	7,078.43	14,984.83	7,172.62	213.88	216.13	-93.39	-1,750.45	-8,005.24	1,577.12	1,149.36	427.76	3.687	
14,700.00	7,078.95	15,084.83	7,173.14	216.61	218.82	-93.39	-1,748.41	-8,105.22	1,577.08	1,143.91	433.17	3.641	
14,800.00	7,079.47	15,184.83	7,173.66	219.33	221.51	-93.39	-1,746.38	-8,205.19	1,577.05	1,138.46	438.59	3.596	
14,900.00	7,079.99	15,284.83	7,174.17	222.06	224.20	-93.39	-1,744.35	-8,305.17	1,577.01	1,133.00	444.01	3.552	
15,000.00	7,080.51	15,384.83	7,174.69	224.78	226.90	-93.39	-1,742.31	-8,405.15	1,576.97	1,127.55	449.43	3.509	
15,100.00	7,081.03	15,484.83	7,175.21	227.51	229.59	-93.39	-1,740.28	-8,505.13	1,576.94	1,122.09	454.85	3.467	
15,200.00	7,081.54	15,584.83	7,175.73	230.24	232.29	-93.39	-1,738.25	-8,605.11	1,576.90	1,116.63	460.27	3.426	
15,300.00	7,082.06	15,684.83	7,176.25	232.96	234.98	-93.39	-1,736.21	-8,705.08	1,576.86	1,111.17	465.69	3.386	
15,400.00	7,082.58	15,784.83	7,176.76	235.69	237.68	-93.39	-1,734.18	-8,805.06	1,576.83	1,105.71	471.11	3.347	
15,500.00	7,083.10	15,884.83	7,177.28	238.41	240.38	-93.39	-1,732.15	-8,905.04	1,576.79	1,100.25	476.54	3.309	
15,600.00	7,083.62	15,984.83	7,177.80	241.14	243.07	-93.39	-1,730.11	-9,005.02	1,576.75	1,094.79	481.96	3.272	
15,700.00	7,084.13	16,084.83	7,178.32	243.87	245.77	-93.39	-1,728.08	-9,105.00	1,576.72	1,089.33	487.39	3.235	
15,800.00	7,084.65	16,184.83	7,178.84	246.60	248.47	-93.39	-1,726.05	-9,204.97	1,576.68	1,083.86	492.82	3.199	
15,900.00	7,085.17	16,284.83	7,179.36	249.32	251.18	-93.39	-1,724.01	-9,304.95	1,576.64	1,078.40	498.24	3.164	
16,000.00	7,085.69	16,384.83	7,179.87	252.05	253.88	-93.39	-1,721.98	-9,404.93	1,576.61	1,072.93	503.67	3.130	
16,100.00	7,086.21	16,484.83	7,180.39	254.78	256.58	-93.39	-1,719.95	-9,504.91	1,576.57	1,067.47	509.10	3.097	
16,200.00	7,086.73	16,584.83	7,180.91	257.51	259.28	-93.39	-1,717.91	-9,604.89	1,576.53	1,062.00	514.53	3.064	
16,300.00	7,087.24	16,684.83	7,181.43	260.24	261.99	-93.39	-1,715.88	-9,704.86	1,576.50	1,056.53	519.96	3.032	
16,400.00	7,087.76	16,784.83	7,181.95	262.97	264.69	-93.39	-1,713.85	-9,804.84	1,576.46	1,051.06	525.40	3.001	
16,500.00	7,088.28	16,884.83	7,182.46	265.69	267.40	-93.39	-1,711.81	-9,904.82	1,576.42	1,045.59	530.83	2.970	
16,600.00	7,088.80	16,984.83	7,182.98	268.42	270.10	-93.39	-1,709.78	-10,004.80	1,576.39	1,040.12	536.26	2.940	
16,700.00	7,089.32	17,084.83	7,183.50	271.15	272.81	-93.39	-1,707.75	-10,104.78	1,576.35	1,034.65	541.70	2.910	
16,800.00	7,089.84	17,184.83	7,184.02	273.88	275.52	-93.39	-1,705.71	-10,204.75	1,576.31	1,029.18	547.13	2.881	
16,900.00	7,090.35	17,284.83	7,184.54	276.61	278.22	-93.39	-1,703.68	-10,304.73	1,576.28	1,023.71	552.57	2.853	
16,989.94	7,090.82	17,374.43	7,185.00	279.07	280.65	-93.39	-1,701.86	-10,394.32	1,576.24	1,018.79	557.45	2.828	
17,000.00	7,090.87	17,374.43	7,185.00	279.34	280.65	-93.39	-1,701.86	-10,394.32	1,576.27	1,018.43	557.84	2.826	
17,024.65	7,091.00	17,374.43	7,185.00	280.01	280.65	-93.39	-1,701.86	-10,394.32	1,576.62	1,017.91	558.71	2.822 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-154.87	-237.90	-111.57	262.77				
100.00	100.00	98.00	98.00	0.48	0.47	-154.87	-237.90	-111.57	262.76	261.80	0.96	274.985	
200.00	200.00	198.00	198.00	1.28	1.27	-154.87	-237.90	-111.57	262.76	260.21	2.55	103.098	
300.00	300.00	298.00	298.00	1.77	1.76	-154.87	-237.90	-111.57	262.76	259.23	3.53	74.490 CC	
400.00	400.00	396.90	396.88	2.15	2.30	-155.23	-238.76	-110.18	262.96	258.75	4.21	62.433 ES	
500.00	500.00	495.55	495.40	2.48	3.42	-156.31	-241.43	-105.91	263.65	258.77	4.89	53.971	
600.00	600.00	593.74	593.22	2.77	4.31	-158.11	-245.87	-98.81	265.02	259.52	5.50	48.148	
700.00	700.00	691.23	690.02	3.03	5.07	-160.56	-252.03	-88.95	267.38	261.26	6.12	43.710	
800.00	800.00	787.83	785.48	3.28	5.76	-163.61	-259.85	-76.43	271.14	264.39	6.76	40.134	
900.00	900.00	883.32	879.30	3.51	6.40	-167.16	-269.25	-61.37	276.79	269.34	7.45	37.166	
1,000.00	999.98	977.50	971.20	3.78	6.99	-22.31	-280.14	-43.94	283.22	274.98	8.24	34.391	
1,083.35	1,083.22	1,054.81	1,046.11	4.28	7.47	-26.05	-290.27	-27.72	288.46	279.27	9.19	31.398	
1,100.00	1,099.84	1,070.11	1,060.87	4.29	7.56	-26.85	-292.40	-24.30	289.59	280.29	9.30	31.127	
1,200.00	1,199.64	1,161.06	1,148.15	4.47	8.10	-31.71	-305.93	-2.64	298.69	288.53	10.16	29.392	
1,300.00	1,299.43	1,250.26	1,232.93	4.70	8.62	-36.59	-320.62	20.88	312.07	300.98	11.09	28.131	
1,400.00	1,399.23	1,337.59	1,315.05	4.95	9.11	-41.33	-336.36	46.06	330.00	317.97	12.03	27.434	
1,500.00	1,499.02	1,422.95	1,394.42	5.20	9.59	-45.80	-353.01	72.72	352.55	339.61	12.93	27.258 SF	
1,600.00	1,598.82	1,506.27	1,470.94	5.47	10.06	-49.93	-370.46	100.66	379.62	365.83	13.79	27.534	
1,700.00	1,698.61	1,587.48	1,544.58	5.75	10.50	-53.67	-388.60	129.70	411.03	396.45	14.58	28.190	
1,800.00	1,798.41	1,666.53	1,615.30	6.04	10.92	-57.01	-407.31	159.66	446.50	431.19	15.31	29.163	
1,900.00	1,898.20	1,743.40	1,683.10	6.34	11.33	-59.98	-426.49	190.37	485.75	469.77	15.98	30.396	
2,000.00	1,998.00	1,818.06	1,748.01	6.64	11.73	-62.59	-446.04	221.66	528.48	511.88	16.60	31.841	
2,100.00	2,097.79	1,890.52	1,810.05	6.94	12.10	-64.89	-465.85	253.39	574.42	557.25	17.17	33.456	
2,200.00	2,197.59	1,960.77	1,869.30	7.26	12.46	-66.90	-485.86	285.41	623.30	605.60	17.70	35.217	
2,300.00	2,297.38	2,028.85	1,925.80	7.57	12.81	-68.67	-505.97	317.61	674.91	656.71	18.20	37.092	
2,400.00	2,397.18	2,100.00	1,983.88	7.89	13.17	-70.35	-527.75	352.47	729.05	710.31	18.74	38.899	
2,500.00	2,496.97	2,158.57	2,030.91	8.22	13.45	-71.61	-546.24	382.08	785.47	766.37	19.10	41.121	
2,600.00	2,596.77	2,220.28	2,079.68	8.54	13.72	-72.82	-566.27	414.15	844.07	824.58	19.49	43.307	
2,700.00	2,696.57	2,279.97	2,126.06	8.87	14.12	-73.90	-586.17	446.01	904.68	884.74	19.94	45.371	
2,800.00	2,796.36	2,346.76	2,177.17	9.21	14.89	-75.00	-608.95	482.48	967.00	946.62	20.38	47.450	
2,900.00	2,896.16	2,423.03	2,235.42	9.54	15.91	-76.12	-635.04	524.24	1,029.78	1,008.90	20.88	49.312	
3,000.00	2,995.95	2,499.31	2,293.67	9.87	16.94	-77.11	-661.12	566.00	1,092.79	1,071.39	21.40	51.062	
3,100.00	3,095.75	2,575.58	2,351.92	10.21	17.97	-78.00	-687.21	607.77	1,155.98	1,134.04	21.94	52.692	
3,200.00	3,195.54	2,651.86	2,410.17	10.55	19.00	-78.80	-713.29	649.53	1,219.33	1,196.85	22.48	54.247	
3,300.00	3,295.34	2,728.13	2,468.42	10.89	20.04	-79.53	-739.38	691.29	1,282.81	1,259.78	23.02	55.724	
3,400.00	3,395.13	2,804.40	2,526.67	11.23	21.08	-80.18	-765.47	733.05	1,346.40	1,322.83	23.57	57.125	
3,500.00	3,494.93	2,880.68	2,584.92	11.58	22.12	-80.78	-791.55	774.82	1,410.09	1,385.96	24.13	58.443	
3,600.00	3,594.72	2,956.95	2,643.17	11.92	23.17	-81.33	-817.64	816.58	1,473.86	1,449.17	24.69	59.693	
3,700.00	3,694.52	3,033.22	2,701.42	12.26	24.22	-81.83	-843.72	858.34	1,537.71	1,512.45	25.26	60.880	
3,800.00	3,794.31	3,109.50	2,759.67	12.61	25.27	-82.30	-869.81	900.11	1,601.63	1,575.80	25.83	62.006	
3,900.00	3,894.11	3,185.77	2,817.92	12.96	26.32	-82.73	-895.90	941.87	1,665.60	1,639.19	26.41	63.070	
4,000.00	3,993.90	3,262.05	2,876.17	13.30	27.38	-83.12	-921.98	983.63	1,729.63	1,702.64	26.99	64.079	
4,100.00	4,093.70	3,338.32	2,934.42	13.65	28.43	-83.49	-948.07	1,025.39	1,793.70	1,766.12	27.58	65.037	
4,200.00	4,193.49	3,414.59	2,992.68	14.00	29.49	-83.84	-974.15	1,067.16	1,857.81	1,829.64	28.17	65.948	
4,300.00	4,293.29	3,490.87	3,050.93	14.35	30.55	-84.16	-1,000.24	1,108.92	1,921.97	1,893.20	28.77	66.811	
4,400.00	4,393.08	3,567.14	3,109.18	14.70	31.61	-84.46	-1,026.33	1,150.68	1,986.15	1,956.78	29.37	67.630	
4,500.00	4,492.88	3,643.42	3,167.43	15.05	32.67	-84.74	-1,052.41	1,192.45	2,050.37	2,020.39	29.97	68.409	
4,600.00	4,592.68	3,719.69	3,225.68	15.40	33.73	-85.01	-1,078.50	1,234.21	2,114.61	2,084.03	30.58	69.151	
4,700.00	4,692.47	3,795.96	3,283.93	15.75	34.79	-85.26	-1,104.58	1,275.97	2,178.88	2,147.69	31.19	69.857	
4,800.00	4,792.27	3,872.24	3,342.18	16.10	35.85	-85.49	-1,130.67	1,317.74	2,243.17	2,211.36	31.81	70.527	
4,900.00	4,892.06	3,948.51	3,400.43	16.45	36.92	-85.72	-1,156.76	1,359.50	2,307.48	2,275.06	32.42	71.165	
5,000.00	4,991.86	4,024.79	3,458.68	16.81	37.98	-85.93	-1,182.84	1,401.26	2,371.81	2,338.77	33.05	71.774	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	4,101.06	3,516.93	17.16	39.04	-86.13	-1,208.93	1,443.02	2,436.16	2,402.49	33.67	72.355	
5,200.00	5,191.45	4,177.33	3,575.18	17.51	40.11	-86.32	-1,235.01	1,484.79	2,500.53	2,466.23	34.30	72.907	
5,300.00	5,291.24	4,253.61	3,633.43	17.87	41.17	-86.50	-1,261.10	1,526.55	2,564.91	2,529.98	34.93	73.434	
5,400.00	5,391.04	4,329.88	3,691.68	18.22	42.24	-86.67	-1,287.19	1,568.31	2,629.31	2,593.75	35.56	73.938	
5,500.00	5,490.83	4,406.15	3,749.93	18.57	43.31	-86.83	-1,313.27	1,610.08	2,693.72	2,657.52	36.20	74.419	
5,600.00	5,590.63	4,482.43	3,808.18	18.93	44.37	-86.99	-1,339.36	1,651.84	2,758.14	2,721.30	36.84	74.877	
5,700.00	5,690.42	4,558.70	3,866.43	19.28	45.44	-87.13	-1,365.45	1,693.60	2,822.57	2,785.09	37.48	75.315	
5,800.00	5,790.22	4,634.98	3,924.68	19.64	46.51	-87.28	-1,391.53	1,735.36	2,887.02	2,848.89	38.12	75.733	
5,900.00	5,890.01	4,711.25	3,982.93	19.99	47.57	-87.41	-1,417.62	1,777.13	2,951.47	2,912.70	38.77	76.133	
6,000.00	5,989.81	4,787.52	4,041.18	20.35	48.64	-87.54	-1,443.70	1,818.89	3,015.93	2,976.52	39.42	76.516	
6,100.00	6,089.60	4,863.80	4,099.43	20.70	49.71	-87.67	-1,469.79	1,860.65	3,080.40	3,040.34	40.07	76.881	
6,200.00	6,189.40	4,940.07	4,157.68	21.06	50.78	-87.79	-1,495.88	1,902.42	3,144.88	3,104.16	40.72	77.231	
6,300.00	6,289.19	5,016.35	4,215.93	21.41	51.84	-87.90	-1,521.96	1,944.18	3,209.37	3,167.99	41.38	77.565	
6,400.00	6,388.99	5,092.62	4,274.18	21.77	52.91	-88.01	-1,548.05	1,985.94	3,273.86	3,231.83	42.03	77.886	
6,498.43	6,487.22	5,167.70	4,331.52	22.12	53.97	-88.11	-1,573.72	2,027.05	3,337.35	3,294.67	42.68	78.188	
6,500.00	6,488.79	5,168.89	4,332.43	22.12	53.98	-90.12	-1,574.13	2,027.70	3,338.37	3,295.67	42.69	78.194	
6,550.00	6,538.54	5,205.63	4,360.49	22.32	54.50	-121.17	-1,586.70	2,047.82	3,372.08	3,329.03	43.06	78.320	
6,600.00	6,587.76	5,239.56	4,386.40	22.59	54.97	-127.78	-1,598.30	2,066.40	3,408.37	3,364.89	43.48	78.397	
6,650.00	6,636.08	5,270.42	4,409.96	22.84	55.40	-128.34	-1,608.86	2,083.29	3,446.97	3,403.11	43.86	78.598	
6,700.00	6,683.13	5,297.97	4,431.00	23.07	55.79	-126.15	-1,618.28	2,098.38	3,487.59	3,443.38	44.21	78.881	
6,750.00	6,728.55	5,322.00	4,449.36	23.29	56.13	-121.97	-1,626.50	2,111.54	3,529.95	3,485.41	44.55	79.240	
6,800.00	6,771.99	5,342.34	4,464.89	23.51	56.41	-115.93	-1,633.45	2,122.67	3,573.74	3,528.88	44.86	79.666	
6,850.00	6,813.13	5,358.82	4,477.47	23.72	56.64	-107.99	-1,639.09	2,131.70	3,618.65	3,573.50	45.15	80.149	
6,900.00	6,851.64	5,371.32	4,487.02	23.94	56.82	-98.22	-1,643.36	2,138.54	3,664.34	3,618.92	45.42	80.680	
6,950.00	6,887.25	5,379.75	4,493.46	24.16	56.94	-87.04	-1,646.25	2,143.15	3,710.49	3,664.82	45.67	81.248	
7,000.00	6,919.67	5,384.03	4,496.73	24.38	57.00	-75.36	-1,647.71	2,145.50	3,756.76	3,710.86	45.90	81.840	
7,050.00	6,948.65	5,384.15	4,496.82	24.62	57.00	-64.25	-1,647.75	2,145.57	3,802.83	3,756.71	46.12	82.447	
7,100.00	6,973.99	5,380.09	4,493.72	24.88	56.94	-54.50	-1,646.37	2,143.35	3,848.35	3,802.02	46.33	83.057	
7,150.00	6,995.49	5,371.90	4,487.46	25.18	56.83	-46.39	-1,643.56	2,138.86	3,892.99	3,846.45	46.53	83.662	
7,200.00	7,012.97	5,359.62	4,478.09	25.51	56.65	-39.83	-1,639.36	2,132.13	3,936.41	3,889.69	46.72	84.254	
7,250.00	7,026.32	5,343.36	4,465.67	25.89	56.43	-34.58	-1,633.80	2,123.23	3,978.31	3,931.41	46.90	84.824	
7,300.00	7,035.43	5,323.23	4,450.30	26.33	56.14	-30.37	-1,626.92	2,112.21	4,018.35	3,971.28	47.07	85.367	
7,350.00	7,040.22	5,299.40	4,432.10	26.84	55.81	-26.97	-1,618.77	2,099.16	4,056.25	4,009.02	47.23	85.878	
7,377.14	7,041.00	5,284.98	4,421.08	27.14	55.61	-25.40	-1,613.84	2,091.27	4,075.81	4,028.54	47.27	86.218	
7,400.00	7,041.12	5,272.40	4,411.47	27.41	55.43	-25.25	-1,609.53	2,084.38	4,091.99	4,044.70	47.29	86.522	
7,500.00	7,041.64	5,217.37	4,369.45	28.77	54.66	-24.57	-1,590.71	2,054.25	4,163.06	4,115.66	47.40	87.828	
7,600.00	7,042.16	5,162.34	4,327.42	30.39	53.89	-23.91	-1,571.89	2,024.12	4,234.58	4,187.07	47.51	89.129	
7,700.00	7,042.67	5,107.31	4,285.40	32.22	53.12	-23.26	-1,553.07	1,993.98	4,306.53	4,258.91	47.62	90.440	
7,800.00	7,043.19	5,052.28	4,243.37	34.20	52.35	-22.62	-1,534.25	1,963.85	4,378.89	4,331.17	47.72	91.769	
7,900.00	7,043.71	4,997.25	4,201.34	36.31	51.58	-22.00	-1,515.43	1,933.72	4,451.64	4,403.83	47.81	93.120	
8,000.00	7,044.23	4,942.22	4,159.32	38.52	50.81	-21.39	-1,496.61	1,903.59	4,524.76	4,476.88	47.88	94.498	
8,100.00	7,044.75	4,887.19	4,117.29	40.80	50.04	-20.80	-1,477.79	1,873.46	4,598.23	4,550.29	47.95	95.906	
8,200.00	7,045.26	4,832.16	4,075.27	43.15	49.27	-20.21	-1,458.97	1,843.33	4,672.05	4,624.05	47.99	97.346	
8,300.00	7,045.78	4,777.13	4,033.24	45.54	48.50	-19.64	-1,440.15	1,813.20	4,746.18	4,698.15	48.03	98.822	
8,400.00	7,046.30	4,722.10	3,991.22	47.97	47.73	-19.08	-1,421.33	1,783.07	4,820.62	4,772.57	48.05	100.334	
8,500.00	7,046.82	4,667.07	3,949.19	50.44	46.96	-18.54	-1,402.51	1,752.94	4,895.35	4,847.30	48.05	101.884	
8,600.00	7,047.34	4,612.04	3,907.16	52.94	46.19	-18.00	-1,383.69	1,722.81	4,970.36	4,922.32	48.03	103.474	
8,700.00	7,047.86	4,557.02	3,865.14	55.46	45.42	-17.48	-1,364.87	1,692.68	5,045.63	4,997.63	48.01	105.102	
8,800.00	7,048.37	4,501.99	3,823.11	58.00	44.65	-16.96	-1,346.05	1,662.55	5,121.16	5,073.20	47.96	106.772	
8,900.00	7,048.89	4,446.96	3,781.09	60.56	43.88	-16.46	-1,327.23	1,632.42	5,196.94	5,149.03	47.91	108.481	
9,000.00	7,049.41	4,391.93	3,739.06	63.13	43.11	-15.97	-1,308.41	1,602.29	5,272.95	5,225.11	47.84	110.231	
9,100.00	7,049.93	4,336.90	3,697.04	65.72	42.34	-15.48	-1,289.59	1,572.15	5,349.18	5,301.43	47.75	112.022	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,050.45	4,281.87	3,655.01	68.32	41.57	-15.01	-1,270.77	1,542.02	5,425.63	5,377.97	47.65	113.853	
9,300.00	7,050.97	4,226.84	3,612.98	70.93	40.80	-14.55	-1,251.95	1,511.89	5,502.28	5,454.73	47.55	115.725	
9,400.00	7,051.48	4,171.81	3,570.96	73.55	40.03	-14.09	-1,233.13	1,481.76	5,579.12	5,531.70	47.43	117.638	
9,500.00	7,052.00	4,116.78	3,528.93	76.18	39.26	-13.65	-1,214.31	1,451.63	5,656.16	5,608.86	47.30	119.590	
9,600.00	7,052.52	4,061.75	3,486.91	78.81	38.50	-13.21	-1,195.49	1,421.50	5,733.38	5,686.22	47.16	121.581	
9,700.00	7,053.04	4,006.72	3,444.88	81.46	37.73	-12.79	-1,176.67	1,391.37	5,810.77	5,763.76	47.01	123.613	
9,800.00	7,053.56	3,951.69	3,402.86	84.10	36.96	-12.37	-1,157.84	1,361.24	5,888.32	5,841.47	46.85	125.681	
9,900.00	7,054.08	3,896.66	3,360.83	86.76	36.19	-11.96	-1,139.02	1,331.11	5,966.04	5,919.35	46.69	127.789	
10,000.00	7,054.59	3,841.63	3,318.80	89.42	35.43	-11.56	-1,120.20	1,300.98	6,043.91	5,997.40	46.52	129.931	
10,100.00	7,055.11	3,786.61	3,276.78	92.08	34.66	-11.16	-1,101.38	1,270.85	6,121.93	6,075.59	46.34	132.111	
10,200.00	7,055.63	3,731.58	3,234.75	94.75	33.89	-10.78	-1,082.56	1,240.72	6,200.09	6,153.94	46.16	134.324	
10,300.00	7,056.15	3,676.55	3,192.73	97.42	33.13	-10.40	-1,063.74	1,210.59	6,278.39	6,232.42	45.97	136.573	
10,400.00	7,056.67	3,621.52	3,150.70	100.10	32.36	-10.03	-1,044.92	1,180.46	6,356.83	6,311.05	45.78	138.854	
10,500.00	7,057.18	3,566.49	3,108.68	102.78	31.60	-9.66	-1,026.10	1,150.33	6,435.39	6,389.80	45.59	141.166	
10,600.00	7,057.70	3,511.46	3,066.65	105.46	30.83	-9.30	-1,007.28	1,120.19	6,514.07	6,468.68	45.39	143.509	
10,700.00	7,058.22	3,456.43	3,024.62	108.14	30.07	-8.95	-988.46	1,090.06	6,592.87	6,547.68	45.19	145.879	
10,800.00	7,058.74	3,401.40	2,982.60	110.83	29.31	-8.61	-969.64	1,059.93	6,671.79	6,626.79	44.99	148.280	
10,900.00	7,059.26	3,346.37	2,940.57	113.52	28.54	-8.27	-950.82	1,029.80	6,750.81	6,706.01	44.80	150.701	
11,000.00	7,059.78	3,291.34	2,898.55	116.21	27.78	-7.94	-932.00	999.67	6,829.94	6,785.35	44.60	153.150	
11,100.00	7,060.29	3,236.31	2,856.52	118.90	27.02	-7.62	-913.18	969.54	6,909.18	6,864.78	44.40	155.616	
11,200.00	7,060.81	3,181.28	2,814.50	121.60	26.26	-7.30	-894.36	939.41	6,988.51	6,944.31	44.20	158.106	
11,300.00	7,061.33	3,126.25	2,772.47	124.30	25.50	-6.98	-875.54	909.28	7,067.94	7,023.93	44.01	160.611	
11,400.00	7,061.85	3,071.22	2,730.44	127.00	24.74	-6.68	-856.72	879.15	7,147.46	7,103.65	43.81	163.131	
11,500.00	7,062.37	3,016.20	2,688.42	129.70	23.98	-6.38	-837.90	849.02	7,227.08	7,183.45	43.62	165.665	
11,600.00	7,062.89	2,961.17	2,646.39	132.40	23.23	-6.08	-819.08	818.89	7,306.77	7,263.33	43.44	168.206	
11,700.00	7,063.40	2,906.14	2,604.37	135.10	22.47	-5.79	-800.26	788.76	7,386.56	7,343.30	43.26	170.760	
11,800.00	7,063.92	2,851.11	2,562.34	137.81	21.72	-5.50	-781.44	758.63	7,466.42	7,423.34	43.08	173.309	
11,900.00	7,064.44	2,796.08	2,520.32	140.51	20.97	-5.22	-762.62	728.50	7,546.36	7,503.46	42.91	175.870	
12,000.00	7,064.96	2,741.05	2,478.29	143.22	20.21	-4.95	-743.80	698.37	7,626.38	7,583.64	42.74	178.417	
12,100.00	7,065.48	2,686.02	2,436.26	145.93	19.46	-4.68	-724.98	668.23	7,706.48	7,663.89	42.58	180.969	
12,200.00	7,066.00	2,630.99	2,394.24	148.64	18.72	-4.41	-706.16	638.10	7,786.64	7,744.21	42.43	183.504	
12,300.00	7,066.51	2,575.96	2,352.21	151.35	17.97	-4.15	-687.34	607.97	7,866.87	7,824.58	42.29	186.030	
12,400.00	7,067.03	2,520.93	2,310.19	154.06	17.23	-3.89	-668.52	577.84	7,947.17	7,905.02	42.15	188.539	
12,500.00	7,067.55	2,465.90	2,268.16	156.77	16.48	-3.64	-649.70	547.71	8,027.54	7,985.52	42.02	191.019	
12,600.00	7,068.07	2,410.87	2,226.14	159.49	15.76	-3.39	-630.88	517.58	8,107.97	8,066.06	41.90	193.486	
12,700.00	7,068.59	2,355.84	2,184.11	162.20	15.01	-3.15	-612.06	487.45	8,188.46	8,146.66	41.80	195.882	
12,800.00	7,069.11	2,310.43	2,149.43	164.92	14.45	-2.95	-596.53	462.59	8,269.02	8,227.26	41.76	198.021	
12,900.00	7,069.62	2,300.00	2,141.45	167.63	14.33	-2.90	-592.96	456.89	8,349.81	8,307.90	41.91	199.216	
13,000.00	7,070.14	2,300.00	2,141.45	170.35	14.33	-2.90	-592.96	456.89	8,431.01	8,388.89	42.12	200.168	
13,100.00	7,070.66	2,300.00	2,141.45	173.07	14.33	-2.90	-592.96	456.89	8,512.60	8,470.28	42.32	201.138	
13,200.00	7,071.18	2,249.26	2,102.30	175.78	13.90	-2.69	-575.87	429.52	8,594.03	8,551.85	42.18	203.770	
13,300.00	7,071.70	2,200.00	2,063.74	178.50	13.67	-2.49	-559.63	403.51	8,676.30	8,634.25	42.05	206.311	
13,400.00	7,072.21	2,200.00	2,063.74	181.22	13.67	-2.49	-559.63	403.51	8,758.43	8,716.18	42.25	207.301	
13,500.00	7,072.73	2,200.00	2,063.74	183.94	13.67	-2.49	-559.63	403.51	8,840.92	8,798.48	42.44	208.307	
13,600.00	7,073.25	2,200.00	2,063.74	186.66	13.67	-2.49	-559.63	403.51	8,923.77	8,881.14	42.63	209.327	
13,700.00	7,073.77	2,200.00	2,063.74	189.38	13.67	-2.49	-559.63	403.51	9,006.97	8,964.15	42.82	210.361	
13,800.00	7,074.29	2,200.00	2,063.74	192.10	13.67	-2.49	-559.63	403.51	9,090.51	9,047.51	43.00	211.409	
13,900.00	7,074.81	2,153.56	2,026.91	194.82	13.42	-2.30	-544.64	379.52	9,173.91	9,131.01	42.90	213.853	
14,000.00	7,075.32	2,140.55	2,016.52	197.54	13.36	-2.25	-540.50	372.88	9,257.81	9,214.81	43.00	215.298	
14,100.00	7,075.84	2,100.00	1,983.88	200.27	13.17	-2.10	-527.75	352.47	9,342.11	9,299.17	42.94	217.554	
14,200.00	7,076.36	2,100.00	1,983.88	202.99	13.17	-2.10	-527.75	352.47	9,426.38	9,383.26	43.12	218.626	
14,300.00	7,076.88	2,100.00	1,983.88	205.71	13.17	-2.10	-527.75	352.47	9,510.95	9,467.66	43.29	219.709	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,400.00	7,077.40	2,100.00	1,983.88	208.44	13.17	-2.10	-527.75	352.47	9,595.82	9,552.36	43.46	220.802	
14,500.00	7,077.92	2,100.00	1,983.88	211.16	13.17	-2.10	-527.75	352.47	9,680.98	9,637.35	43.63	221.906	
14,600.00	7,078.43	2,100.00	1,983.88	213.88	13.17	-2.10	-527.75	352.47	9,766.41	9,722.62	43.79	223.019	
14,700.00	7,078.95	2,053.77	1,946.26	216.61	12.93	-1.93	-513.51	329.68	9,851.68	9,807.97	43.71	225.398	
14,800.00	7,079.47	2,041.96	1,936.58	219.33	12.87	-1.89	-509.92	323.94	9,937.41	9,893.60	43.81	226.838	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HNB-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-142.55	-146.82	-112.45	184.94				
100.00	100.00	99.00	99.00	0.48	0.48	-142.55	-146.82	-112.45	184.94	183.98	0.96	192.571	
200.00	200.00	199.78	199.76	1.28	1.58	-143.09	-147.69	-110.95	184.73	182.23	2.49	74.102	
300.00	300.00	300.32	300.15	1.77	3.04	-144.71	-150.34	-106.40	184.18	180.69	3.49	52.710	
400.00	400.00	400.36	399.81	2.15	4.04	-147.43	-154.72	-98.85	183.61	179.34	4.26	43.055	
466.96	466.96	466.96	465.96	2.37	4.59	-149.84	-158.61	-92.16	183.44	178.73	4.71	38.908 CC	
500.00	500.00	499.68	498.39	2.48	4.86	-151.21	-160.81	-88.38	183.50	178.55	4.94	37.139 ES	
600.00	600.00	598.04	595.54	2.77	5.59	-155.98	-168.52	-75.11	184.53	178.92	5.61	32.866	
700.00	700.00	695.23	690.96	3.03	6.26	-161.59	-177.78	-59.18	187.54	181.17	6.37	29.464	
800.00	800.00	791.05	784.37	3.28	6.88	-167.81	-188.49	-40.73	193.40	186.16	7.24	26.714	
900.00	900.00	885.32	875.52	3.51	7.47	-174.32	-200.56	-19.96	202.91	194.68	8.24	24.638	
1,000.00	999.98	977.85	964.17	3.78	8.03	-32.03	-213.86	2.93	215.24	205.91	9.33	23.075	
1,083.35	1,083.22	1,053.46	1,035.96	4.28	8.48	-37.59	-225.80	23.48	227.13	216.68	10.45	21.732	
1,100.00	1,099.84	1,068.40	1,050.06	4.29	8.56	-38.72	-228.27	27.73	229.77	219.17	10.60	21.667	
1,200.00	1,199.64	1,156.91	1,133.09	4.47	9.07	-45.24	-243.66	54.22	248.94	237.31	11.63	21.401 SF	
1,300.00	1,299.43	1,243.35	1,213.23	4.70	9.57	-51.09	-259.93	82.22	273.63	261.01	12.62	21.684	
1,400.00	1,399.23	1,327.63	1,290.40	4.95	10.04	-56.20	-276.96	111.52	303.45	289.94	13.51	22.455	
1,500.00	1,499.02	1,409.71	1,364.56	5.20	10.49	-60.58	-294.62	141.93	337.93	323.61	14.32	23.604	
1,600.00	1,598.82	1,489.53	1,435.68	5.47	10.93	-64.29	-312.82	173.25	376.59	361.55	15.04	25.040	
1,700.00	1,698.61	1,567.07	1,503.78	5.75	11.34	-67.43	-331.45	205.31	418.99	403.30	15.69	26.697	
1,800.00	1,798.41	1,642.31	1,568.88	6.04	11.74	-70.08	-350.40	237.93	464.77	448.48	16.29	28.524	
1,900.00	1,898.20	1,715.26	1,631.03	6.34	12.12	-72.32	-369.59	270.96	513.59	496.74	16.85	30.480	
2,000.00	1,998.00	1,785.93	1,690.28	6.64	12.49	-74.23	-388.94	304.25	565.19	547.82	17.37	32.540	
2,100.00	2,097.79	1,854.34	1,746.73	6.94	12.83	-75.85	-408.35	337.67	619.32	601.47	17.85	34.688	
2,200.00	2,197.59	1,920.52	1,800.44	7.26	13.16	-77.24	-427.78	371.10	675.80	657.48	18.31	36.900	
2,300.00	2,297.38	1,984.52	1,851.52	7.57	13.49	-78.44	-447.15	404.44	734.43	715.68	18.76	39.156	
2,400.00	2,397.18	2,046.38	1,900.06	7.89	13.80	-79.49	-466.41	437.60	795.08	775.93	19.15	41.524	
2,500.00	2,496.97	2,100.00	1,941.45	8.22	14.26	-80.30	-483.54	467.06	857.63	838.13	19.50	43.991	
2,600.00	2,596.77	2,163.89	1,989.93	8.54	15.09	-81.18	-504.44	503.04	921.87	901.88	19.99	46.118	
2,700.00	2,696.57	2,219.65	2,031.47	8.87	15.88	-81.88	-523.12	535.19	987.78	967.46	20.33	48.599	
2,800.00	2,796.36	2,279.27	2,075.14	9.21	16.72	-82.56	-543.52	570.29	1,055.17	1,034.49	20.68	51.025	
2,900.00	2,896.16	2,351.99	2,128.19	9.54	17.77	-83.30	-568.51	613.30	1,123.01	1,101.81	21.19	52.987	
3,000.00	2,995.95	2,424.72	2,181.25	9.87	18.84	-83.96	-593.50	656.31	1,190.94	1,169.23	21.71	54.855	
3,100.00	3,095.75	2,497.44	2,234.30	10.21	19.92	-84.55	-618.49	699.32	1,258.94	1,236.71	22.24	56.615	
3,200.00	3,195.54	2,570.17	2,287.35	10.55	20.99	-85.07	-643.48	742.33	1,327.02	1,304.24	22.78	58.265	
3,300.00	3,295.34	2,642.89	2,340.41	10.89	22.07	-85.55	-668.47	785.34	1,395.14	1,371.82	23.32	59.832	
3,400.00	3,395.13	2,715.62	2,393.46	11.23	23.16	-85.99	-693.46	828.35	1,463.32	1,439.45	23.86	61.318	
3,500.00	3,494.93	2,788.34	2,446.51	11.58	24.24	-86.38	-718.45	871.36	1,531.53	1,507.11	24.42	62.721	
3,600.00	3,594.72	2,861.07	2,499.57	11.92	25.33	-86.74	-743.43	914.37	1,599.78	1,574.81	24.98	64.046	
3,700.00	3,694.52	2,933.79	2,552.62	12.26	26.42	-87.08	-768.42	957.38	1,668.07	1,642.52	25.54	65.305	
3,800.00	3,794.31	3,006.52	2,605.67	12.61	27.51	-87.38	-793.41	1,000.39	1,736.38	1,710.27	26.11	66.499	
3,900.00	3,894.11	3,079.25	2,658.72	12.96	28.61	-87.67	-818.40	1,043.40	1,804.72	1,778.03	26.69	67.627	
4,000.00	3,993.90	3,151.97	2,711.78	13.30	29.70	-87.93	-843.39	1,086.41	1,873.07	1,845.81	27.27	68.698	
4,100.00	4,093.70	3,224.70	2,764.83	13.65	30.80	-88.17	-868.38	1,129.42	1,941.45	1,913.60	27.85	69.716	
4,200.00	4,193.49	3,297.42	2,817.88	14.00	31.89	-88.40	-893.37	1,172.43	2,009.85	1,981.41	28.43	70.683	
4,300.00	4,293.29	3,370.15	2,870.94	14.35	32.99	-88.61	-918.36	1,215.44	2,078.26	2,049.23	29.03	71.598	
4,400.00	4,393.08	3,442.87	2,923.99	14.70	34.09	-88.81	-943.35	1,258.45	2,146.68	2,117.06	29.62	72.470	
4,500.00	4,492.88	3,515.60	2,977.04	15.05	35.19	-89.00	-968.34	1,301.46	2,215.12	2,184.90	30.22	73.300	
4,600.00	4,592.68	3,588.32	3,030.10	15.40	36.29	-89.18	-993.33	1,344.47	2,283.57	2,252.75	30.82	74.089	
4,700.00	4,692.47	3,661.05	3,083.15	15.75	37.39	-89.34	-1,018.32	1,387.48	2,352.03	2,320.61	31.43	74.839	
4,800.00	4,792.27	3,733.77	3,136.20	16.10	38.49	-89.50	-1,043.31	1,430.49	2,420.51	2,388.47	32.04	75.554	
4,900.00	4,892.06	3,806.50	3,189.26	16.45	39.60	-89.65	-1,068.30	1,473.49	2,488.99	2,456.34	32.65	76.237	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HNB-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	3,879.22	3,242.31	16.81	40.70	-89.79	-1,093.29	1,516.50	2,557.48	2,524.21	33.26	76.885	
5,100.00	5,091.65	3,951.95	3,295.36	17.16	41.80	-89.92	-1,118.28	1,559.51	2,625.97	2,592.09	33.88	77.504	
5,200.00	5,191.45	4,024.67	3,348.42	17.51	42.91	-90.05	-1,143.27	1,602.52	2,694.48	2,659.97	34.50	78.095	
5,300.00	5,291.24	4,097.40	3,401.47	17.87	44.01	-90.17	-1,168.26	1,645.53	2,762.99	2,727.86	35.13	78.660	
5,400.00	5,391.04	4,170.12	3,454.52	18.22	45.12	-90.28	-1,193.25	1,688.54	2,831.50	2,795.75	35.75	79.197	
5,500.00	5,490.83	4,242.85	3,507.58	18.57	46.22	-90.39	-1,218.24	1,731.55	2,900.03	2,863.64	36.38	79.711	
5,600.00	5,590.63	4,315.57	3,560.63	18.93	47.33	-90.49	-1,243.23	1,774.56	2,968.55	2,931.54	37.01	80.203	
5,700.00	5,690.42	4,388.30	3,613.68	19.28	48.43	-90.59	-1,268.22	1,817.57	3,037.09	2,999.44	37.65	80.672	
5,800.00	5,790.22	4,461.02	3,666.74	19.64	49.54	-90.69	-1,293.21	1,860.58	3,105.62	3,067.34	38.28	81.120	
5,900.00	5,890.01	4,533.75	3,719.79	19.99	50.64	-90.78	-1,318.20	1,903.59	3,174.16	3,135.24	38.92	81.549	
6,000.00	5,989.81	4,606.47	3,772.84	20.35	51.75	-90.87	-1,343.19	1,946.60	3,242.71	3,203.15	39.56	81.959	
6,100.00	6,089.60	4,679.20	3,825.90	20.70	52.86	-90.95	-1,368.18	1,989.61	3,311.26	3,271.05	40.21	82.351	
6,200.00	6,189.40	4,751.92	3,878.95	21.06	53.96	-91.03	-1,393.17	2,032.62	3,379.81	3,338.96	40.86	82.726	
6,300.00	6,289.19	4,824.65	3,932.00	21.41	55.07	-91.10	-1,418.16	2,075.63	3,448.37	3,406.87	41.50	83.085	
6,400.00	6,388.99	4,897.38	3,985.06	21.77	56.18	-91.18	-1,443.15	2,118.64	3,516.93	3,474.77	42.15	83.429	
6,498.43	6,487.22	4,968.96	4,037.28	22.12	57.27	-91.25	-1,467.75	2,160.97	3,584.42	3,541.62	42.80	83.754	
6,500.00	6,488.79	4,970.10	4,038.11	22.12	57.28	-93.25	-1,468.14	2,161.65	3,585.49	3,542.69	42.81	83.760	
6,550.00	6,538.54	5,004.97	4,063.55	22.32	57.82	-124.22	-1,480.12	2,182.27	3,621.21	3,578.04	43.16	83.894	
6,600.00	6,587.76	5,036.86	4,086.81	22.59	58.30	-130.68	-1,491.08	2,201.13	3,659.43	3,615.85	43.58	83.975	
6,650.00	6,636.08	5,065.51	4,107.71	22.84	58.74	-130.97	-1,500.92	2,218.07	3,699.88	3,655.93	43.95	84.178	
6,700.00	6,683.13	5,090.73	4,126.11	23.07	59.12	-128.30	-1,509.59	2,232.98	3,742.26	3,697.96	44.30	84.471	
6,750.00	6,728.55	5,112.30	4,141.84	23.29	59.45	-123.33	-1,517.00	2,245.74	3,786.25	3,741.63	44.62	84.847	
6,800.00	6,771.99	5,130.07	4,154.81	23.51	59.72	-116.03	-1,523.11	2,256.25	3,831.54	3,786.62	44.92	85.299	
6,850.00	6,813.13	5,143.90	4,164.90	23.72	59.93	-106.25	-1,527.86	2,264.43	3,877.79	3,832.61	45.19	85.815	
6,900.00	6,851.64	5,153.69	4,172.04	23.94	60.08	-94.13	-1,531.22	2,270.22	3,924.67	3,879.24	45.43	86.386	
6,950.00	6,887.25	5,159.37	4,176.18	24.16	60.17	-80.60	-1,533.17	2,273.58	3,971.83	3,926.18	45.65	86.999	
7,000.00	6,919.67	5,160.88	4,177.28	24.38	60.19	-67.28	-1,533.69	2,274.47	4,018.93	3,973.08	45.86	87.642	
7,050.00	6,948.65	5,158.22	4,175.34	24.62	60.15	-55.57	-1,532.78	2,272.90	4,065.63	4,019.59	46.04	88.305	
7,100.00	6,973.99	5,151.41	4,170.37	24.88	60.05	-46.06	-1,530.44	2,268.87	4,111.57	4,065.36	46.21	88.974	
7,150.00	6,995.49	5,140.50	4,162.42	25.18	59.88	-38.62	-1,526.69	2,262.42	4,156.42	4,110.05	46.37	89.640	
7,200.00	7,012.97	5,125.57	4,151.53	25.51	59.65	-32.87	-1,521.56	2,253.59	4,199.85	4,153.34	46.51	90.293	
7,250.00	7,026.32	5,106.74	4,137.79	25.89	59.37	-28.40	-1,515.09	2,242.45	4,241.54	4,194.89	46.65	90.925	
7,300.00	7,035.43	5,084.15	4,121.31	26.33	59.02	-24.87	-1,507.33	2,229.09	4,281.16	4,234.39	46.78	91.525	
7,350.00	7,040.22	5,057.97	4,102.21	26.84	58.62	-22.07	-1,498.33	2,213.61	4,318.43	4,271.54	46.89	92.089	
7,377.14	7,041.00	5,042.33	4,090.80	27.14	58.38	-20.78	-1,492.96	2,204.36	4,337.57	4,290.67	46.90	92.477	
7,400.00	7,041.12	5,028.74	4,080.89	27.41	58.18	-20.64	-1,488.29	2,196.33	4,353.37	4,306.47	46.90	92.825	
7,500.00	7,041.64	4,969.30	4,037.53	28.77	57.27	-20.03	-1,467.86	2,161.18	4,422.69	4,375.80	46.89	94.327	
7,600.00	7,042.16	4,909.87	3,994.17	30.39	56.37	-19.43	-1,447.44	2,126.03	4,492.38	4,445.50	46.88	95.824	
7,700.00	7,042.67	4,850.43	3,950.81	32.22	55.46	-18.85	-1,427.02	2,090.88	4,562.43	4,515.55	46.88	97.332	
7,800.00	7,043.19	4,791.00	3,907.45	34.20	54.56	-18.28	-1,406.59	2,055.73	4,632.81	4,585.95	46.86	98.857	
7,900.00	7,043.71	4,731.56	3,864.10	36.31	53.65	-17.72	-1,386.17	2,020.58	4,703.52	4,656.67	46.85	100.403	
8,000.00	7,044.23	4,672.13	3,820.74	38.52	52.75	-17.17	-1,365.75	1,985.43	4,774.53	4,727.71	46.82	101.975	
8,100.00	7,044.75	4,612.69	3,777.38	40.80	51.84	-16.63	-1,345.33	1,950.28	4,845.84	4,799.05	46.79	103.576	
8,200.00	7,045.26	4,553.26	3,734.02	43.15	50.94	-16.11	-1,324.90	1,915.13	4,917.42	4,870.68	46.74	105.209	
8,300.00	7,045.78	4,493.82	3,690.66	45.54	50.04	-15.60	-1,304.48	1,879.98	4,989.28	4,942.60	46.68	106.876	
8,400.00	7,046.30	4,434.39	3,647.30	47.97	49.13	-15.09	-1,284.06	1,844.83	5,061.40	5,014.78	46.62	108.578	
8,500.00	7,046.82	4,374.95	3,603.95	50.44	48.23	-14.60	-1,263.63	1,809.68	5,133.76	5,087.22	46.54	110.317	
8,600.00	7,047.34	4,315.52	3,560.59	52.94	47.32	-14.12	-1,243.21	1,774.53	5,206.35	5,159.91	46.45	112.095	
8,700.00	7,047.86	4,256.08	3,517.23	55.46	46.42	-13.65	-1,222.79	1,739.38	5,279.18	5,232.83	46.34	113.911	
8,800.00	7,048.37	4,196.65	3,473.87	58.00	45.52	-13.19	-1,202.36	1,704.23	5,352.22	5,305.99	46.23	115.768	
8,900.00	7,048.89	4,137.21	3,430.51	60.56	44.62	-12.73	-1,181.94	1,669.08	5,425.47	5,379.36	46.11	117.662	
9,000.00	7,049.41	4,077.78	3,387.16	63.13	43.71	-12.29	-1,161.52	1,633.93	5,498.92	5,452.95	45.98	119.597	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HNB-02-07-65 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program:		0-MWD										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,100.00	7,049.93	4,018.34	3,343.80	65.72	42.81	-11.86	-1,141.09	1,598.78	5,572.57	5,526.73	45.84	121.572	
9,200.00	7,050.45	3,958.90	3,300.44	68.32	41.91	-11.43	-1,120.67	1,563.63	5,646.40	5,600.71	45.69	123.586	
9,300.00	7,050.97	3,899.47	3,257.08	70.93	41.01	-11.01	-1,100.25	1,528.48	5,720.40	5,674.87	45.53	125.640	
9,400.00	7,051.48	3,840.03	3,213.72	73.55	40.11	-10.61	-1,079.83	1,493.33	5,794.58	5,749.21	45.37	127.730	
9,500.00	7,052.00	3,780.60	3,170.36	76.18	39.20	-10.20	-1,059.40	1,458.18	5,868.92	5,823.73	45.19	129.860	
9,600.00	7,052.52	3,721.16	3,127.01	78.81	38.30	-9.81	-1,038.98	1,423.03	5,943.42	5,898.40	45.02	132.026	
9,700.00	7,053.04	3,661.73	3,083.65	81.46	37.40	-9.43	-1,018.56	1,387.88	6,018.07	5,973.24	44.83	134.228	
9,800.00	7,053.56	3,602.29	3,040.29	84.10	36.50	-9.05	-998.13	1,352.73	6,092.87	6,048.23	44.65	136.466	
9,900.00	7,054.08	3,542.86	2,996.93	86.76	35.60	-8.68	-977.71	1,317.58	6,167.81	6,123.36	44.46	138.734	
10,000.00	7,054.59	3,483.42	2,953.57	89.42	34.70	-8.32	-957.29	1,282.43	6,242.89	6,198.63	44.26	141.038	
10,100.00	7,055.11	3,423.99	2,910.22	92.08	33.81	-7.96	-936.86	1,247.28	6,318.10	6,274.03	44.07	143.370	
10,200.00	7,055.63	3,364.55	2,866.86	94.75	32.91	-7.61	-916.44	1,212.13	6,393.43	6,349.56	43.87	145.731	
10,300.00	7,056.15	3,305.12	2,823.50	97.42	32.01	-7.27	-896.02	1,176.98	6,468.89	6,425.22	43.67	148.122	
10,400.00	7,056.67	3,245.68	2,780.14	100.10	31.11	-6.94	-875.60	1,141.83	6,544.47	6,500.99	43.48	150.533	
10,500.00	7,057.18	3,186.25	2,736.78	102.78	30.22	-6.61	-855.17	1,106.68	6,620.16	6,576.88	43.28	152.972	
10,600.00	7,057.70	3,126.81	2,693.43	105.46	29.32	-6.28	-834.75	1,071.53	6,695.96	6,652.88	43.08	155.428	
10,700.00	7,058.22	3,067.38	2,650.07	108.14	28.43	-5.97	-814.33	1,036.38	6,771.87	6,728.98	42.89	157.902	
10,800.00	7,058.74	3,007.94	2,606.71	110.83	27.53	-5.66	-793.90	1,001.23	6,847.88	6,805.18	42.69	160.395	
10,900.00	7,059.26	2,948.51	2,563.35	113.52	26.64	-5.35	-773.48	966.08	6,923.99	6,881.48	42.51	162.895	
11,000.00	7,059.78	2,889.07	2,519.99	116.21	25.75	-5.05	-753.06	930.93	7,000.19	6,957.87	42.32	165.411	
11,100.00	7,060.29	2,829.64	2,476.63	118.90	24.86	-4.76	-732.63	895.78	7,076.49	7,034.35	42.14	167.928	
11,200.00	7,060.81	2,770.20	2,433.28	121.60	23.97	-4.47	-712.21	860.63	7,152.88	7,110.92	41.96	170.449	
11,300.00	7,061.33	2,710.77	2,389.92	124.30	23.08	-4.18	-691.79	825.48	7,229.36	7,187.56	41.79	172.974	
11,400.00	7,061.85	2,651.33	2,346.56	127.00	22.20	-3.91	-671.36	790.33	7,305.92	7,264.29	41.63	175.487	
11,500.00	7,062.37	2,591.90	2,303.20	129.70	21.32	-3.63	-650.94	755.18	7,382.56	7,341.09	41.47	178.002	
11,600.00	7,062.89	2,532.46	2,259.84	132.40	20.43	-3.36	-630.52	720.03	7,459.29	7,417.96	41.33	180.494	
11,700.00	7,063.40	2,473.03	2,216.49	135.10	19.55	-3.10	-610.10	684.88	7,536.09	7,494.90	41.19	182.974	
11,800.00	7,063.92	2,413.59	2,173.13	137.81	18.68	-2.84	-589.67	649.73	7,612.96	7,571.91	41.05	185.436	
11,900.00	7,064.44	2,354.15	2,129.77	140.51	17.81	-2.58	-569.25	614.58	7,689.91	7,648.97	40.94	187.849	
12,000.00	7,064.96	2,294.72	2,086.41	143.22	16.95	-2.33	-548.83	579.43	7,766.93	7,726.10	40.83	190.243	
12,100.00	7,065.48	2,257.76	2,059.45	145.93	16.42	-2.18	-536.13	557.57	7,844.05	7,803.19	40.86	191.968	
12,200.00	7,066.00	2,234.91	2,042.72	148.64	16.09	-2.09	-528.31	544.12	7,921.47	7,880.51	40.97	193.361	
12,300.00	7,066.51	2,200.00	2,016.92	151.35	15.60	-1.95	-516.49	523.79	7,999.37	7,958.37	41.00	195.110	
12,400.00	7,067.03	2,200.00	2,016.92	154.06	15.60	-1.95	-516.49	523.79	8,077.48	8,036.24	41.24	195.887	
12,500.00	7,067.55	2,200.00	2,016.92	156.77	15.60	-1.95	-516.49	523.79	8,156.06	8,114.59	41.47	196.688	
12,600.00	7,068.07	2,200.00	2,016.92	159.49	15.60	-1.95	-516.49	523.79	8,235.11	8,193.42	41.69	197.511	
12,700.00	7,068.59	2,155.26	1,983.44	162.20	14.97	-1.77	-501.59	498.13	8,314.17	8,272.55	41.62	199.751	
12,800.00	7,069.11	2,139.92	1,971.85	164.92	14.76	-1.71	-496.54	489.44	8,393.76	8,352.01	41.74	201.080	
12,900.00	7,069.62	2,100.00	1,941.45	167.63	14.26	-1.56	-483.54	467.06	8,473.81	8,432.10	41.70	203.195	
13,000.00	7,070.14	2,100.00	1,941.45	170.35	14.26	-1.56	-483.54	467.06	8,553.93	8,512.01	41.92	204.065	
13,100.00	7,070.66	2,100.00	1,941.45	173.07	14.26	-1.56	-483.54	467.06	8,634.47	8,592.34	42.13	204.954	
13,200.00	7,071.18	2,100.00	1,941.45	175.78	14.26	-1.56	-483.54	467.06	8,715.41	8,673.08	42.34	205.862	
13,300.00	7,071.70	2,100.00	1,941.45	178.50	14.26	-1.56	-483.54	467.06	8,796.75	8,754.21	42.54	206.788	
13,400.00	7,072.21	2,051.79	1,904.26	181.22	13.83	-1.38	-468.12	440.54	8,877.96	8,835.51	42.45	209.132	
13,500.00	7,072.73	2,037.72	1,893.31	183.94	13.74	-1.33	-463.69	432.90	8,959.71	8,917.14	42.57	210.484	
13,600.00	7,073.25	2,000.00	1,863.74	186.66	13.57	-1.20	-451.92	412.65	9,041.87	8,999.32	42.55	212.500	
13,700.00	7,073.77	2,000.00	1,863.74	189.38	13.57	-1.20	-451.92	412.65	9,124.08	9,081.33	42.74	213.458	
13,800.00	7,074.29	2,000.00	1,863.74	192.10	13.57	-1.20	-451.92	412.65	9,206.64	9,163.70	42.94	214.431	
13,900.00	7,074.81	2,000.00	1,863.74	194.82	13.57	-1.20	-451.92	412.65	9,289.54	9,246.42	43.12	215.418	
14,000.00	7,075.32	2,000.00	1,863.74	197.54	13.57	-1.20	-451.92	412.65	9,372.78	9,329.47	43.31	216.419	
14,100.00	7,075.84	1,956.87	1,829.55	200.27	13.34	-1.05	-438.71	389.91	9,455.95	9,412.69	43.26	218.575	
14,200.00	7,076.36	1,943.96	1,819.24	202.99	13.28	-1.01	-434.81	383.19	9,539.56	9,496.18	43.38	219.928	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HNB-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,300.00	7,076.88	1,900.00	1,783.88	205.71	13.07	-0.86	-421.69	360.62	9,623.61	9,580.28	43.33	222.094	
14,400.00	7,077.40	1,900.00	1,783.88	208.44	13.07	-0.86	-421.69	360.62	9,707.57	9,664.06	43.51	223.117	
14,500.00	7,077.92	1,900.00	1,783.88	211.16	13.07	-0.86	-421.69	360.62	9,791.83	9,748.14	43.68	224.151	
14,600.00	7,078.43	1,900.00	1,783.88	213.88	13.07	-0.86	-421.69	360.62	9,876.38	9,832.52	43.86	225.196	
14,700.00	7,078.95	1,900.00	1,783.88	216.61	13.07	-0.86	-421.69	360.62	9,961.22	9,917.19	44.03	226.251	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-145.17	-161.39	-112.31	196.63				
100.00	100.00	99.00	99.00	0.48	0.48	-145.17	-161.39	-112.31	196.63	195.66	0.96	204.741	
200.00	200.00	199.00	199.00	1.28	1.27	-145.17	-161.39	-112.31	196.63	194.07	2.56	76.908	
300.00	300.00	299.32	299.30	1.77	1.97	-145.67	-162.30	-110.85	196.54	193.09	3.46	56.873	
400.00	400.00	399.39	399.23	2.15	3.25	-147.19	-165.05	-106.42	196.38	192.16	4.23	46.470	
443.42	443.42	442.71	442.42	2.29	3.66	-148.16	-166.81	-103.58	196.36	191.84	4.52	43.481 CC	
500.00	500.00	498.99	498.44	2.48	4.19	-149.71	-169.62	-99.07	196.43	191.54	4.89	40.180 ES	
600.00	600.00	597.86	596.58	2.77	4.98	-153.20	-175.94	-88.88	197.13	191.62	5.51	35.756	
700.00	700.00	695.79	693.32	3.03	5.69	-157.57	-183.97	-75.96	199.11	192.95	6.16	32.316	
800.00	800.00	792.56	788.34	3.28	6.34	-162.66	-193.61	-60.43	203.10	196.21	6.89	29.486	
900.00	900.00	887.98	881.38	3.51	6.95	-168.28	-204.76	-42.47	209.86	202.14	7.72	27.172	
1,000.00	999.98	981.85	972.18	3.78	7.53	-25.41	-217.33	-22.23	218.53	209.84	8.69	25.146	
1,083.35	1,083.22	1,058.74	1,045.94	4.28	8.00	-30.71	-228.78	-3.78	226.69	216.91	9.78	23.180	
1,100.00	1,099.84	1,073.94	1,060.45	4.29	8.09	-31.80	-231.17	0.06	228.52	218.59	9.92	23.027	
1,200.00	1,199.64	1,164.16	1,146.06	4.47	8.61	-38.25	-246.18	24.23	242.59	231.66	10.93	22.193	
1,300.00	1,299.43	1,252.43	1,228.92	4.70	9.12	-44.31	-262.23	50.08	262.04	250.09	11.95	21.934 SF	
1,400.00	1,399.23	1,338.66	1,308.92	4.95	9.61	-49.78	-279.20	77.42	286.73	273.84	12.90	22.232	
1,500.00	1,499.02	1,422.77	1,385.98	5.20	10.08	-54.61	-296.98	106.04	316.37	302.60	13.77	22.983	
1,600.00	1,598.82	1,500.00	1,455.84	5.47	10.50	-58.56	-314.34	134.00	350.57	336.09	14.48	24.214	
1,700.00	1,698.61	1,584.41	1,531.15	5.75	10.96	-62.36	-334.44	166.38	388.80	373.54	15.26	25.479	
1,800.00	1,798.41	1,661.85	1,599.23	6.04	11.37	-65.40	-353.91	197.73	430.77	414.86	15.91	27.083	
1,900.00	1,898.20	1,737.03	1,664.34	6.34	11.76	-67.99	-373.73	229.65	476.09	459.59	16.50	28.857	
2,000.00	1,998.00	1,809.93	1,726.52	6.64	12.15	-70.20	-393.81	261.99	524.45	507.41	17.05	30.762	
2,100.00	2,097.79	1,880.57	1,785.83	6.94	12.51	-72.09	-414.06	294.59	575.60	558.04	17.56	32.774	
2,200.00	2,197.59	1,948.98	1,842.34	7.26	12.85	-73.71	-434.39	327.33	629.30	611.25	18.04	34.875	
2,300.00	2,297.38	2,015.18	1,896.14	7.57	13.19	-75.10	-454.74	360.10	685.35	666.85	18.50	37.040	
2,400.00	2,397.18	2,079.21	1,947.31	7.89	13.51	-76.31	-475.04	392.80	743.58	724.64	18.94	39.262	
2,500.00	2,496.97	2,141.11	1,995.95	8.22	13.79	-77.36	-495.23	425.32	803.84	784.52	19.32	41.616	
2,600.00	2,596.77	2,200.00	2,041.45	8.54	14.28	-78.26	-514.95	457.08	865.98	846.23	19.75	43.845	
2,700.00	2,696.57	2,258.73	2,086.05	8.87	15.03	-79.08	-535.11	489.54	929.90	909.80	20.10	46.269	
2,800.00	2,796.36	2,330.25	2,139.72	9.21	16.00	-79.97	-560.05	529.70	994.98	974.41	20.57	48.367	
2,900.00	2,896.16	2,405.17	2,195.94	9.54	17.04	-80.80	-586.18	571.78	1,060.23	1,039.15	21.08	50.292	
3,000.00	2,995.95	2,480.10	2,252.15	9.87	18.08	-81.53	-612.31	613.86	1,125.59	1,103.98	21.61	52.078	
3,100.00	3,095.75	2,555.02	2,308.37	10.21	19.13	-82.18	-638.44	655.94	1,191.05	1,168.90	22.15	53.771	
3,200.00	3,195.54	2,629.95	2,364.58	10.55	20.18	-82.77	-664.57	698.03	1,256.59	1,233.90	22.69	55.376	
3,300.00	3,295.34	2,704.87	2,420.79	10.89	21.24	-83.30	-690.70	740.11	1,322.20	1,298.96	23.24	56.896	
3,400.00	3,395.13	2,779.80	2,477.01	11.23	22.30	-83.78	-716.83	782.19	1,387.86	1,364.07	23.80	58.324	
3,500.00	3,494.93	2,854.72	2,533.22	11.58	23.36	-84.22	-742.96	824.27	1,453.58	1,429.22	24.36	59.676	
3,600.00	3,594.72	2,929.65	2,589.44	11.92	24.43	-84.62	-769.09	866.35	1,519.34	1,494.42	24.92	60.959	
3,700.00	3,694.52	3,004.57	2,645.65	12.26	25.49	-84.98	-795.22	908.44	1,585.15	1,559.65	25.49	62.175	
3,800.00	3,794.31	3,079.50	2,701.87	12.61	26.56	-85.32	-821.35	950.52	1,650.98	1,624.91	26.07	63.322	
3,900.00	3,894.11	3,154.42	2,758.08	12.96	27.63	-85.63	-847.48	992.60	1,716.85	1,690.19	26.66	64.409	
4,000.00	3,993.90	3,229.35	2,814.29	13.30	28.70	-85.92	-873.61	1,034.68	1,782.74	1,755.50	27.24	65.442	
4,100.00	4,093.70	3,304.27	2,870.51	13.65	29.78	-86.19	-899.74	1,076.76	1,848.66	1,820.82	27.83	66.423	
4,200.00	4,193.49	3,379.20	2,926.72	14.00	30.85	-86.44	-925.87	1,118.84	1,914.59	1,886.17	28.43	67.351	
4,300.00	4,293.29	3,454.12	2,982.94	14.35	31.93	-86.67	-952.00	1,160.93	1,980.55	1,951.53	29.03	68.233	
4,400.00	4,393.08	3,529.05	3,039.15	14.70	33.00	-86.89	-978.13	1,203.01	2,046.53	2,016.90	29.63	69.072	
4,500.00	4,492.88	3,603.97	3,095.37	15.05	34.08	-87.10	-1,004.27	1,245.09	2,112.52	2,082.28	30.23	69.871	
4,600.00	4,592.68	3,678.90	3,151.58	15.40	35.16	-87.29	-1,030.40	1,287.17	2,178.52	2,147.68	30.84	70.628	
4,700.00	4,692.47	3,753.82	3,207.79	15.75	36.23	-87.47	-1,056.53	1,329.25	2,244.54	2,213.08	31.46	71.349	
4,800.00	4,792.27	3,828.75	3,264.01	16.10	37.31	-87.64	-1,082.66	1,371.33	2,310.57	2,278.50	32.07	72.037	
4,900.00	4,892.06	3,903.67	3,320.22	16.45	38.39	-87.80	-1,108.79	1,413.42	2,376.61	2,343.92	32.69	72.692	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.00	4,991.86	3,978.60	3,376.44	16.81	39.47	-87.96	-1,134.92	1,455.50	2,442.67	2,409.35	33.32	73.316	
5,100.00	5,091.65	4,053.52	3,432.65	17.16	40.55	-88.10	-1,161.05	1,497.58	2,508.73	2,474.78	33.94	73.910	
5,200.00	5,191.45	4,128.44	3,488.86	17.51	41.63	-88.24	-1,187.18	1,539.66	2,574.80	2,540.23	34.57	74.478	
5,300.00	5,291.24	4,203.37	3,545.08	17.87	42.71	-88.37	-1,213.31	1,581.74	2,640.88	2,605.67	35.20	75.020	
5,400.00	5,391.04	4,278.29	3,601.29	18.22	43.80	-88.50	-1,239.44	1,623.83	2,706.96	2,671.12	35.84	75.537	
5,500.00	5,490.83	4,353.22	3,657.51	18.57	44.88	-88.61	-1,265.57	1,665.91	2,773.05	2,736.58	36.47	76.030	
5,600.00	5,590.63	4,428.14	3,713.72	18.93	45.96	-88.73	-1,291.70	1,707.99	2,839.15	2,802.04	37.11	76.502	
5,700.00	5,690.42	4,503.07	3,769.94	19.28	47.04	-88.83	-1,317.83	1,750.07	2,905.26	2,867.50	37.75	76.954	
5,800.00	5,790.22	4,577.99	3,826.15	19.64	48.13	-88.94	-1,343.96	1,792.15	2,971.37	2,932.97	38.40	77.384	
5,900.00	5,890.01	4,652.92	3,882.36	19.99	49.21	-89.04	-1,370.09	1,834.23	3,037.48	2,998.44	39.04	77.796	
6,000.00	5,989.81	4,727.84	3,938.58	20.35	50.29	-89.13	-1,396.22	1,876.32	3,103.60	3,063.91	39.69	78.191	
6,100.00	6,089.60	4,802.77	3,994.79	20.70	51.38	-89.22	-1,422.35	1,918.40	3,169.72	3,129.38	40.34	78.569	
6,200.00	6,189.40	4,877.69	4,051.01	21.06	52.46	-89.31	-1,448.48	1,960.48	3,235.85	3,194.86	41.00	78.929	
6,300.00	6,289.19	4,952.62	4,107.22	21.41	53.54	-89.39	-1,474.61	2,002.56	3,301.99	3,260.33	41.65	79.275	
6,400.00	6,388.99	5,027.54	4,163.44	21.77	54.63	-89.47	-1,500.74	2,044.64	3,368.12	3,325.81	42.31	79.606	
6,498.43	6,487.22	5,101.29	4,218.77	22.12	55.69	-89.55	-1,526.47	2,086.06	3,433.23	3,390.27	42.96	79.919	
6,500.00	6,488.79	5,102.47	4,219.65	22.12	55.71	-91.55	-1,526.87	2,086.72	3,434.26	3,391.30	42.97	79.925	
6,550.00	6,538.54	5,138.50	4,246.69	22.32	56.23	-122.57	-1,539.44	2,106.96	3,468.79	3,425.46	43.33	80.054	
6,600.00	6,587.76	5,171.67	4,271.57	22.59	56.71	-129.12	-1,551.01	2,125.59	3,505.87	3,462.12	43.75	80.132	
6,650.00	6,636.08	5,201.72	4,294.12	22.84	57.15	-129.59	-1,561.49	2,142.47	3,545.24	3,501.10	44.13	80.332	
6,700.00	6,683.13	5,228.42	4,314.15	23.07	57.54	-127.22	-1,570.80	2,157.46	3,586.59	3,542.10	44.49	80.615	
6,750.00	6,728.55	5,251.56	4,331.51	23.29	57.87	-122.75	-1,578.87	2,170.46	3,629.64	3,584.82	44.82	80.975	
6,800.00	6,771.99	5,270.98	4,346.08	23.51	58.15	-116.25	-1,585.64	2,181.37	3,674.08	3,628.94	45.13	81.405	
6,850.00	6,813.13	5,286.52	4,357.74	23.72	58.38	-107.64	-1,591.06	2,190.10	3,719.56	3,674.15	45.42	81.896	
6,900.00	6,851.64	5,298.06	4,366.40	23.94	58.54	-96.98	-1,595.09	2,196.58	3,765.78	3,720.10	45.68	82.435	
6,950.00	6,887.25	5,305.52	4,372.00	24.16	58.65	-84.87	-1,597.69	2,200.77	3,812.39	3,766.47	45.93	83.013	
7,000.00	6,919.67	5,308.85	4,374.49	24.38	58.70	-72.44	-1,598.85	2,202.64	3,859.06	3,812.91	46.15	83.618	
7,050.00	6,948.65	5,308.00	4,373.86	24.62	58.69	-60.96	-1,598.56	2,202.17	3,905.44	3,859.08	46.36	84.238	
7,100.00	6,973.99	5,303.00	4,370.11	24.88	58.62	-51.18	-1,596.81	2,199.36	3,951.19	3,904.63	46.56	84.865	
7,150.00	6,995.49	5,293.88	4,363.27	25.18	58.48	-43.26	-1,593.63	2,194.23	3,995.99	3,949.24	46.74	85.486	
7,200.00	7,012.97	5,280.71	4,353.38	25.51	58.29	-36.97	-1,589.04	2,186.84	4,039.49	3,992.57	46.92	86.095	
7,250.00	7,026.32	5,263.59	4,340.54	25.89	58.04	-32.00	-1,583.07	2,177.22	4,081.37	4,034.29	47.08	86.683	
7,300.00	7,035.43	5,242.65	4,324.82	26.33	57.74	-28.06	-1,575.76	2,165.46	4,121.33	4,074.09	47.24	87.243	
7,350.00	7,040.22	5,218.04	4,306.36	26.84	57.38	-24.90	-1,567.18	2,151.64	4,159.05	4,111.67	47.39	87.769	
7,377.14	7,041.00	5,203.22	4,295.24	27.14	57.17	-23.44	-1,562.01	2,143.31	4,178.49	4,131.08	47.42	88.125	
7,400.00	7,041.12	5,190.31	4,285.56	27.41	56.98	-23.29	-1,557.51	2,136.06	4,194.56	4,147.13	47.43	88.442	
7,500.00	7,041.64	5,133.85	4,243.20	28.77	56.17	-22.63	-1,537.82	2,104.35	4,265.10	4,217.61	47.49	89.810	
7,600.00	7,042.16	5,077.39	4,200.84	30.39	55.35	-22.00	-1,518.13	2,072.64	4,336.06	4,288.51	47.56	91.175	
7,700.00	7,042.67	5,020.93	4,158.48	32.22	54.53	-21.37	-1,498.44	2,040.93	4,407.43	4,359.81	47.62	92.552	
7,800.00	7,043.19	4,964.47	4,116.11	34.20	53.71	-20.76	-1,478.75	2,009.22	4,479.18	4,431.50	47.68	93.946	
7,900.00	7,043.71	4,908.01	4,073.75	36.31	52.90	-20.16	-1,459.06	1,977.51	4,551.30	4,503.57	47.73	95.364	
8,000.00	7,044.23	4,851.55	4,031.39	38.52	52.08	-19.57	-1,439.37	1,945.79	4,623.76	4,576.00	47.76	96.808	
8,100.00	7,044.75	4,795.09	3,989.03	40.80	51.26	-19.00	-1,419.67	1,914.08	4,696.56	4,648.77	47.79	98.283	
8,200.00	7,045.26	4,738.63	3,946.67	43.15	50.45	-18.44	-1,399.98	1,882.37	4,769.67	4,721.88	47.80	99.791	
8,300.00	7,045.78	4,682.16	3,904.31	45.54	49.63	-17.89	-1,380.29	1,850.66	4,843.09	4,795.30	47.79	101.335	
8,400.00	7,046.30	4,625.70	3,861.95	47.97	48.82	-17.35	-1,360.60	1,818.95	4,916.80	4,869.02	47.78	102.915	
8,500.00	7,046.82	4,569.24	3,819.59	50.44	48.00	-16.82	-1,340.91	1,787.24	4,990.78	4,943.04	47.74	104.534	
8,600.00	7,047.34	4,512.72	3,777.22	52.94	47.18	-16.30	-1,321.22	1,755.53	5,065.03	5,017.33	47.70	106.192	
8,700.00	7,047.86	4,456.32	3,734.86	55.46	46.37	-15.80	-1,301.53	1,723.81	5,139.53	5,091.89	47.64	107.890	
8,800.00	7,048.37	4,399.86	3,692.50	58.00	45.55	-15.30	-1,281.84	1,692.10	5,214.27	5,166.71	47.56	109.629	
8,900.00	7,048.89	4,343.40	3,650.14	60.56	44.74	-14.81	-1,262.15	1,660.39	5,289.24	5,241.77	47.48	111.408	
9,000.00	7,049.41	4,286.94	3,607.78	63.13	43.92	-14.34	-1,242.45	1,628.68	5,364.44	5,317.06	47.38	113.229	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	4,230.48	3,565.42	65.72	43.11	-13.87	-1,222.76	1,596.97	5,439.85	5,392.58	47.27	115.090	
9,200.00	7,050.45	4,174.02	3,523.06	68.32	42.29	-13.42	-1,203.07	1,565.26	5,515.46	5,468.31	47.14	116.993	
9,300.00	7,050.97	4,117.56	3,480.69	70.93	41.48	-12.97	-1,183.38	1,533.55	5,591.27	5,544.26	47.01	118.936	
9,400.00	7,051.48	4,061.09	3,438.33	73.55	40.66	-12.53	-1,163.69	1,501.83	5,667.26	5,620.40	46.87	120.920	
9,500.00	7,052.00	4,004.63	3,395.97	76.18	39.85	-12.10	-1,144.00	1,470.12	5,743.44	5,696.72	46.72	122.945	
9,600.00	7,052.52	3,948.17	3,353.61	78.81	39.03	-11.68	-1,124.31	1,438.41	5,819.79	5,773.23	46.56	125.007	
9,700.00	7,053.04	3,891.71	3,311.25	81.46	38.22	-11.27	-1,104.62	1,406.70	5,896.31	5,849.92	46.39	127.110	
9,800.00	7,053.56	3,835.25	3,268.89	84.10	37.41	-10.87	-1,084.93	1,374.99	5,972.98	5,926.77	46.21	129.249	
9,900.00	7,054.08	3,778.79	3,226.53	86.76	36.59	-10.47	-1,065.23	1,343.28	6,049.82	6,003.78	46.03	131.426	
10,000.00	7,054.59	3,722.33	3,184.17	89.42	35.78	-10.08	-1,045.54	1,311.57	6,126.80	6,080.95	45.85	133.639	
10,100.00	7,055.11	3,665.87	3,141.80	92.08	34.97	-9.70	-1,025.85	1,279.85	6,203.92	6,158.26	45.66	135.887	
10,200.00	7,055.63	3,609.41	3,099.44	94.75	34.16	-9.33	-1,006.16	1,248.14	6,281.18	6,235.72	45.46	138.170	
10,300.00	7,056.15	3,552.95	3,057.08	97.42	33.35	-8.96	-986.47	1,216.43	6,358.57	6,313.31	45.26	140.482	
10,400.00	7,056.67	3,496.49	3,014.72	100.10	32.53	-8.60	-966.78	1,184.72	6,436.09	6,391.03	45.06	142.830	
10,500.00	7,057.18	3,440.02	2,972.36	102.78	31.72	-8.25	-947.09	1,153.01	6,513.74	6,468.88	44.86	145.203	
10,600.00	7,057.70	3,383.56	2,930.00	105.46	30.91	-7.90	-927.40	1,121.30	6,591.50	6,546.84	44.66	147.607	
10,700.00	7,058.22	3,327.10	2,887.64	108.14	30.10	-7.57	-907.71	1,089.59	6,669.38	6,624.92	44.45	150.035	
10,800.00	7,058.74	3,270.64	2,845.28	110.83	29.29	-7.23	-888.01	1,057.87	6,747.37	6,703.12	44.25	152.487	
10,900.00	7,059.26	3,214.18	2,802.91	113.52	28.49	-6.91	-868.32	1,026.16	6,825.46	6,781.41	44.05	154.963	
11,000.00	7,059.78	3,157.72	2,760.55	116.21	27.68	-6.59	-848.63	994.45	6,903.66	6,859.81	43.84	157.456	
11,100.00	7,060.29	3,101.26	2,718.19	118.90	26.87	-6.27	-828.94	962.74	6,981.96	6,938.31	43.64	159.972	
11,200.00	7,060.81	3,044.80	2,675.83	121.60	26.07	-5.96	-809.25	931.03	7,060.35	7,016.90	43.45	162.495	
11,300.00	7,061.33	2,988.34	2,633.47	124.30	25.26	-5.66	-789.56	899.32	7,138.84	7,095.58	43.26	165.038	
11,400.00	7,061.85	2,931.88	2,591.11	127.00	24.46	-5.36	-769.87	867.61	7,217.42	7,174.35	43.07	167.585	
11,500.00	7,062.37	2,875.42	2,548.75	129.70	23.65	-5.07	-750.18	835.89	7,296.09	7,253.20	42.88	170.141	
11,600.00	7,062.89	2,818.95	2,506.39	132.40	22.85	-4.78	-730.49	804.18	7,374.84	7,332.13	42.70	172.701	
11,700.00	7,063.40	2,762.49	2,464.02	135.10	22.05	-4.50	-710.79	772.47	7,453.67	7,411.14	42.53	175.259	
11,800.00	7,063.92	2,706.03	2,421.66	137.81	21.26	-4.23	-691.10	740.76	7,532.58	7,490.22	42.36	177.821	
11,900.00	7,064.44	2,649.57	2,379.30	140.51	20.46	-3.95	-671.41	709.05	7,611.57	7,569.37	42.20	180.364	
12,000.00	7,064.96	2,593.11	2,336.94	143.22	19.66	-3.69	-651.72	677.34	7,690.63	7,648.59	42.05	182.910	
12,100.00	7,065.48	2,536.65	2,294.58	145.93	18.87	-3.42	-632.03	645.62	7,769.77	7,727.87	41.90	185.428	
12,200.00	7,066.00	2,480.19	2,252.22	148.64	18.08	-3.17	-612.34	613.91	7,848.97	7,807.21	41.76	187.936	
12,300.00	7,066.51	2,423.73	2,209.86	151.35	17.29	-2.91	-592.65	582.20	7,928.25	7,886.61	41.64	190.418	
12,400.00	7,067.03	2,367.27	2,167.50	154.06	16.50	-2.66	-572.96	550.49	8,007.59	7,966.06	41.52	192.858	
12,500.00	7,067.55	2,310.81	2,125.13	156.77	15.73	-2.42	-553.27	518.78	8,086.99	8,045.57	41.41	195.270	
12,600.00	7,068.07	2,269.28	2,093.98	159.49	15.18	-2.24	-538.78	495.46	8,166.47	8,125.06	41.41	197.228	
12,700.00	7,068.59	2,269.28	2,093.98	162.20	15.18	-2.24	-538.78	495.46	8,246.29	8,204.66	41.63	198.104	
12,800.00	7,069.11	2,234.51	2,067.75	164.92	14.70	-2.09	-526.74	476.06	8,326.28	8,284.64	41.63	199.985	
12,900.00	7,069.62	2,200.00	2,041.45	167.63	14.28	-1.95	-514.95	457.08	8,406.76	8,365.12	41.64	201.876	
13,000.00	7,070.14	2,200.00	2,041.45	170.35	14.28	-1.95	-514.95	457.08	8,487.40	8,445.55	41.85	202.788	
13,100.00	7,070.66	2,200.00	2,041.45	173.07	14.28	-1.95	-514.95	457.08	8,568.45	8,526.39	42.06	203.719	
13,200.00	7,071.18	2,200.00	2,041.45	175.78	14.28	-1.95	-514.95	457.08	8,649.90	8,607.64	42.26	204.668	
13,300.00	7,071.70	2,161.11	2,011.49	178.50	13.93	-1.80	-501.88	436.02	8,731.40	8,689.19	42.21	206.836	
13,400.00	7,072.21	2,146.97	2,000.51	181.22	13.83	-1.74	-497.17	428.45	8,813.33	8,771.01	42.32	208.247	
13,500.00	7,072.73	2,100.00	1,963.74	183.94	13.62	-1.56	-481.76	403.62	8,895.78	8,853.54	42.23	210.637	
13,600.00	7,073.25	2,100.00	1,963.74	186.66	13.62	-1.56	-481.76	403.62	8,978.11	8,935.69	42.43	211.620	
13,700.00	7,073.77	2,100.00	1,963.74	189.38	13.62	-1.56	-481.76	403.62	9,060.80	9,018.18	42.62	212.617	
13,800.00	7,074.29	2,100.00	1,963.74	192.10	13.62	-1.56	-481.76	403.62	9,143.84	9,101.03	42.80	213.629	
13,900.00	7,074.81	2,100.00	1,963.74	194.82	13.62	-1.56	-481.76	403.62	9,227.21	9,184.22	42.99	214.654	
14,000.00	7,075.32	2,100.00	1,963.74	197.54	13.62	-1.56	-481.76	403.62	9,310.91	9,267.74	43.17	215.692	
14,100.00	7,075.84	2,052.67	1,926.21	200.27	13.37	-1.38	-466.55	379.13	9,394.45	9,351.37	43.08	218.070	
14,200.00	7,076.36	2,039.84	1,915.95	202.99	13.30	-1.34	-462.49	372.58	9,478.49	9,435.30	43.19	219.476	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - ELDER 8Y-HNC-02-07-65 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,300.00	7,076.88	2,000.00	1,883.88	205.71	13.12	-1.19	-450.01	352.50	9,562.92	9,519.77	43.15	221.632	
14,400.00	7,077.40	2,000.00	1,883.88	208.44	13.12	-1.19	-450.01	352.50	9,647.32	9,604.00	43.32	222.691	
14,500.00	7,077.92	2,000.00	1,883.88	211.16	13.12	-1.19	-450.01	352.50	9,732.02	9,688.53	43.49	223.761	
14,600.00	7,078.43	2,000.00	1,883.88	213.88	13.12	-1.19	-450.01	352.50	9,817.00	9,773.34	43.66	224.841	
14,700.00	7,078.95	2,000.00	1,883.88	216.61	13.12	-1.19	-450.01	352.50	9,902.27	9,858.44	43.83	225.930	
14,800.00	7,079.47	2,000.00	1,883.88	219.33	13.12	-1.19	-450.01	352.50	9,987.81	9,943.81	43.99	227.029	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ ELDER 4Y-HNB-2-07-65 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft
Survey Program: 138-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	6.78	6.78	0.00	0.03	-164.56	-402.21	-111.08	417.26				
100.00	100.00	103.62	103.62	0.48	0.53	-164.56	-402.62	-111.16	417.69	416.68	1.01	413.312	
200.00	200.00	203.24	203.23	1.28	1.15	-164.57	-403.56	-111.38	418.67	416.23	2.43	171.995	
300.00	300.00	302.55	302.53	1.77	1.65	-164.62	-404.55	-111.27	419.60	416.18	3.42	122.859 ES	
400.00	400.00	400.30	400.27	2.15	2.04	-164.82	-406.12	-110.15	420.85	416.68	4.17	100.845	
500.00	500.00	496.71	496.62	2.48	2.52	-165.22	-408.66	-107.85	422.78	417.91	4.87	86.835	
600.00	600.00	589.97	589.62	2.77	3.45	-166.03	-413.03	-102.76	425.98	420.39	5.59	76.168	
700.00	700.00	680.19	679.21	3.03	4.49	-167.30	-419.86	-94.58	431.28	424.94	6.34	68.076	
800.00	800.00	772.08	770.05	3.28	5.15	-168.90	-428.95	-84.14	438.69	431.66	7.02	62.458	
900.00	900.00	861.72	858.15	3.51	5.70	-170.74	-439.78	-71.72	448.26	440.56	7.70	58.232	
1,000.00	999.98	948.42	942.77	3.78	6.25	-23.86	-452.52	-57.81	459.12	450.70	8.42	54.497	
1,083.35	1,083.22	1,020.73	1,012.89	4.28	6.66	-25.70	-464.79	-45.11	468.13	458.85	9.28	50.471	
1,100.00	1,099.84	1,035.21	1,026.88	4.29	6.74	-26.10	-467.41	-42.45	469.97	460.60	9.37	50.162	
1,200.00	1,199.64	1,122.27	1,110.58	4.47	7.20	-28.60	-484.26	-25.44	482.87	472.81	10.07	47.968	
1,300.00	1,299.43	1,209.17	1,193.49	4.70	7.64	-31.15	-502.50	-6.87	498.59	487.78	10.81	46.112	
1,400.00	1,399.23	1,291.13	1,270.83	4.95	8.09	-33.64	-521.42	12.54	517.76	506.20	11.57	44.768	
1,500.00	1,499.02	1,372.86	1,347.16	5.20	8.56	-36.11	-541.96	33.30	540.45	528.11	12.34	43.802	
1,600.00	1,598.82	1,448.30	1,416.81	5.47	8.96	-38.35	-562.51	53.74	566.79	553.75	13.04	43.480	
1,700.00	1,698.61	1,524.02	1,485.73	5.75	9.43	-40.54	-584.96	75.63	597.06	583.27	13.79	43.311	
1,800.00	1,798.41	1,598.18	1,552.30	6.04	9.82	-42.60	-608.60	98.19	631.01	616.55	14.46	43.642	
1,900.00	1,898.20	1,666.00	1,612.25	6.34	10.18	-44.39	-631.80	119.79	668.65	653.60	15.06	44.412	
2,000.00	1,998.00	1,733.27	1,670.74	6.64	10.68	-46.05	-656.53	141.97	709.98	694.19	15.79	44.958	
2,100.00	2,097.79	1,799.37	1,727.16	6.94	11.14	-47.59	-682.42	164.68	754.80	738.30	16.50	45.758	
2,200.00	2,197.59	1,866.85	1,783.46	7.26	11.58	-49.21	-709.25	190.45	802.52	785.34	17.18	46.718	
2,300.00	2,297.38	1,946.35	1,849.09	7.57	11.97	-51.01	-741.17	221.95	852.03	834.16	17.87	47.686	
2,400.00	2,397.18	2,036.76	1,923.79	7.89	12.33	-52.87	-777.30	257.86	902.09	883.54	18.55	48.625	
2,500.00	2,496.97	2,123.88	1,996.06	8.22	12.67	-54.46	-811.69	292.29	952.21	933.02	19.19	49.629	
2,600.00	2,596.77	2,223.41	2,079.09	8.54	13.29	-56.10	-850.33	331.24	1,002.09	982.13	19.96	50.197	
2,700.00	2,696.57	2,323.24	2,163.19	8.87	14.32	-57.58	-887.73	369.91	1,051.02	1,030.32	20.70	50.768	
2,800.00	2,796.36	2,429.26	2,253.53	9.21	15.38	-58.97	-926.20	409.87	1,098.74	1,077.22	21.52	51.061	
2,900.00	2,896.16	2,500.84	2,314.52	9.54	16.10	-59.86	-951.84	437.18	1,146.67	1,124.65	22.03	52.061	
3,000.00	2,995.95	2,592.22	2,392.04	9.87	17.03	-60.96	-984.44	472.94	1,195.37	1,172.67	22.70	52.650	
3,100.00	3,095.75	2,656.08	2,446.13	10.21	17.69	-61.68	-1,007.17	498.16	1,244.56	1,221.42	23.14	53.776	
3,200.00	3,195.54	2,725.75	2,504.33	10.55	18.42	-62.42	-1,033.23	526.22	1,295.77	1,272.11	23.66	54.773	
3,300.00	3,295.34	2,846.20	2,605.90	10.89	19.69	-63.58	-1,077.09	573.84	1,346.00	1,321.33	24.67	54.560	
3,400.00	3,395.13	2,923.84	2,671.95	11.23	20.50	-64.26	-1,104.63	603.94	1,395.30	1,370.07	25.24	55.291	
3,500.00	3,494.93	2,982.00	2,720.93	11.58	21.12	-64.71	-1,126.49	626.44	1,446.29	1,420.66	25.63	56.430	
3,600.00	3,594.72	3,078.82	2,802.20	11.92	22.17	-65.41	-1,163.32	664.02	1,497.91	1,471.52	26.39	56.759	
3,700.00	3,694.52	3,126.51	2,842.05	12.26	22.71	-65.74	-1,181.69	682.69	1,550.21	1,523.49	26.71	58.034	
3,800.00	3,794.31	3,177.06	2,883.67	12.61	23.27	-66.04	-1,202.27	702.68	1,604.52	1,577.47	27.06	59.297	
3,900.00	3,894.11	3,276.52	2,965.36	12.96	24.40	-66.60	-1,243.22	741.93	1,659.29	1,631.40	27.89	59.498	
4,000.00	3,993.90	3,379.82	3,050.83	13.30	25.54	-67.16	-1,284.65	782.57	1,713.21	1,684.52	28.69	59.711	
4,100.00	4,093.70	3,506.57	3,156.76	13.65	26.90	-67.78	-1,334.38	831.25	1,766.07	1,736.36	29.70	59.457	
4,200.00	4,193.49	3,589.32	3,226.81	14.00	27.78	-68.18	-1,365.31	862.61	1,817.12	1,786.76	30.36	59.861	
4,300.00	4,293.29	3,647.89	3,275.92	14.35	28.40	-68.44	-1,387.95	885.10	1,869.49	1,838.69	30.81	60.686	
4,400.00	4,393.08	3,754.11	3,365.25	14.70	29.54	-68.89	-1,428.88	925.45	1,921.49	1,889.81	31.68	60.660	
4,500.00	4,492.88	3,805.86	3,408.56	15.05	30.10	-69.10	-1,448.79	945.59	1,974.22	1,942.15	32.07	61.567	
4,600.00	4,592.68	3,974.41	3,550.89	15.40	31.88	-69.82	-1,510.85	1,011.09	2,025.53	1,991.96	33.57	60.330	
4,700.00	4,692.47	4,018.00	3,588.08	15.75	32.33	-70.00	-1,526.27	1,027.79	2,076.02	2,042.11	33.91	61.219	
4,800.00	4,792.27	4,082.09	3,642.26	16.10	33.01	-70.27	-1,549.53	1,052.90	2,127.67	2,093.26	34.41	61.832	
4,900.00	4,892.06	4,137.42	3,688.34	16.45	33.61	-70.48	-1,570.46	1,075.27	2,181.06	2,146.23	34.84	62.610	
5,000.00	4,991.86	4,276.72	3,804.92	16.81	35.14	-71.04	-1,621.50	1,131.86	2,233.88	2,197.89	35.99	62.063	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ ELDER 4Y-HNB-2-07-65 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft	
Survey Program:		138-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,091.65	4,342.08	3,860.23	17.16	35.85	-71.30	-1,644.32	1,158.13	2,285.41	2,248.78	36.63	62.394		
5,200.00	5,191.45	4,395.00	3,903.97	17.51	36.44	-71.50	-1,663.98	1,180.51	2,339.38	2,302.19	37.19	62.906		
5,300.00	5,291.24	4,395.00	3,903.97	17.87	36.44	-71.50	-1,663.98	1,180.51	2,394.60	2,357.46	37.14	64.475		
5,400.00	5,391.04	4,453.46	3,951.31	18.22	37.14	-71.73	-1,686.67	1,206.22	2,451.57	2,413.89	37.69	65.054		
5,500.00	5,490.83	4,550.37	4,029.29	18.57	38.30	-72.09	-1,724.38	1,249.69	2,509.33	2,470.80	38.53	65.123		
5,600.00	5,590.63	9,646.69	7,075.43	18.93	53.32	-122.21	-292.04	1,922.02	2,547.34	2,498.70	48.65	52.364		
5,700.00	5,690.42	9,644.52	7,075.41	19.28	53.32	-122.15	-294.21	1,921.99	2,493.45	2,443.88	49.57	50.298		
5,800.00	5,790.22	9,642.36	7,075.40	19.64	53.32	-122.09	-296.37	1,921.97	2,442.46	2,391.89	50.56	48.304		
5,900.00	5,890.01	9,640.22	7,075.38	19.99	53.33	-122.04	-298.51	1,921.94	2,394.55	2,342.94	51.62	46.392		
6,000.00	5,989.81	9,638.09	7,075.36	20.35	53.33	-121.98	-300.64	1,921.92	2,349.92	2,297.20	52.72	44.570		
6,100.00	6,089.60	9,635.97	7,075.35	20.70	53.33	-121.92	-302.76	1,921.91	2,308.76	2,254.88	53.88	42.846		
6,200.00	6,189.40	9,633.87	7,075.33	21.06	53.33	-121.86	-304.85	1,921.89	2,271.26	2,216.17	55.09	41.228		
6,300.00	6,289.19	9,631.79	7,075.31	21.41	53.33	-121.81	-306.94	1,921.88	2,237.59	2,181.26	56.33	39.721		
6,400.00	6,388.99	9,629.72	7,075.30	21.77	53.34	-121.75	-309.01	1,921.87	2,207.94	2,150.34	57.60	38.332		
6,498.43	6,487.22	9,627.69	7,075.28	22.12	53.34	-121.70	-311.04	1,921.87	2,182.83	2,123.97	58.86	37.085		
6,500.00	6,488.79	9,627.66	7,075.28	22.12	53.34	-123.77	-311.07	1,921.87	2,182.47	2,123.59	58.88	37.067		
6,550.00	6,538.54	9,626.66	7,075.27	22.32	53.34	-157.18	-312.07	1,921.87	2,173.63	2,114.04	59.59	36.477		
6,600.00	6,587.76	9,625.71	7,075.26	22.59	53.34	-166.71	-313.02	1,921.86	2,170.23	2,109.74	60.49	35.878		
6,605.81	6,593.43	9,625.60	7,075.26	22.62	53.34	-167.36	-313.13	1,921.86	2,170.20	2,109.60	60.60	35.811		
6,650.00	6,636.08	9,624.82	7,075.25	22.84	53.34	-170.89	-313.91	1,921.86	2,172.35	2,110.91	61.44	35.356		
6,700.00	6,683.13	9,624.00	7,075.25	23.07	53.34	-173.22	-314.73	1,921.86	2,179.94	2,117.55	62.39	34.941		
6,750.00	6,728.55	9,623.26	7,075.24	23.29	53.34	-174.70	-315.47	1,921.86	2,192.88	2,129.58	63.31	34.640		
6,800.00	6,771.99	9,622.61	7,075.23	23.51	53.34	-175.73	-316.12	1,921.86	2,211.00	2,146.83	64.17	34.455		
6,850.00	6,813.13	9,622.04	7,075.23	23.72	53.34	-176.50	-316.69	1,921.86	2,234.02	2,169.05	64.97	34.385 SF		
6,900.00	6,851.64	9,621.57	7,075.23	23.94	53.34	-177.12	-317.16	1,921.86	2,261.63	2,195.93	65.70	34.425		
6,950.00	6,887.25	9,621.20	7,075.22	24.16	53.35	-177.65	-317.53	1,921.87	2,293.44	2,227.10	66.34	34.569		
7,000.00	6,919.67	9,620.92	7,075.22	24.38	53.35	-178.13	-317.81	1,921.87	2,329.07	2,262.16	66.91	34.810		
7,050.00	6,948.65	9,620.73	7,075.22	24.62	53.35	-178.62	-318.00	1,921.87	2,368.06	2,300.67	67.39	35.140		
7,100.00	6,973.99	9,620.64	7,075.22	24.88	53.35	-179.15	-318.09	1,921.87	2,409.96	2,342.17	67.79	35.550		
7,150.00	6,995.49	9,620.64	7,075.22	25.18	53.35	-179.80	-318.09	1,921.87	2,454.32	2,386.21	68.11	36.033		
7,200.00	7,012.97	9,620.73	7,075.22	25.51	53.35	179.29	-318.00	1,921.87	2,500.68	2,432.32	68.36	36.580		
7,250.00	7,026.32	9,620.91	7,075.22	25.89	53.35	177.81	-317.82	1,921.87	2,548.58	2,480.04	68.54	37.182		
7,300.00	7,035.43	9,621.16	7,075.22	26.33	53.35	174.68	-317.57	1,921.87	2,597.59	2,528.93	68.66	37.832		
7,350.00	7,040.22	9,621.49	7,075.23	26.84	53.34	163.38	-317.23	1,921.87	2,647.28	2,578.56	68.72	38.521		
7,377.14	7,041.00	9,621.70	7,075.23	27.14	53.34	125.79	-317.02	1,921.86	2,674.39	2,605.65	68.73	38.909		
7,400.00	7,041.12	9,621.89	7,075.23	27.41	53.34	125.70	-316.84	1,921.86	2,697.24	2,628.51	68.74	39.239		
7,500.00	7,041.64	9,622.67	7,075.24	28.77	53.34	125.34	-316.06	1,921.86	2,797.21	2,728.46	68.75	40.685		
7,600.00	7,042.16	9,623.42	7,075.24	30.39	53.34	125.00	-315.31	1,921.86	2,897.18	2,828.41	68.77	42.130		
7,700.00	7,042.67	9,624.14	7,075.25	32.22	53.34	124.67	-314.59	1,921.86	2,997.15	2,928.36	68.78	43.573		
7,800.00	7,043.19	9,624.83	7,075.25	34.20	53.34	124.37	-313.90	1,921.86	3,097.12	3,028.32	68.80	45.015		
7,900.00	7,043.71	9,625.48	7,075.26	36.31	53.34	124.08	-313.24	1,921.86	3,197.09	3,128.27	68.82	46.456		
8,000.00	7,044.23	9,626.12	7,075.26	38.52	53.34	123.81	-312.61	1,921.86	3,297.07	3,228.23	68.84	47.895		
8,100.00	7,044.75	9,626.72	7,075.27	40.80	53.34	123.56	-312.01	1,921.87	3,397.04	3,328.18	68.86	49.333		
8,200.00	7,045.26	9,627.30	7,075.28	43.15	53.34	123.31	-311.43	1,921.87	3,497.02	3,428.14	68.88	50.769		
8,300.00	7,045.78	9,627.86	7,075.28	45.54	53.34	123.08	-310.86	1,921.87	3,597.00	3,528.09	68.90	52.203		
8,400.00	7,046.30	9,628.40	7,075.28	47.97	53.34	122.86	-310.33	1,921.87	3,696.98	3,628.05	68.93	53.635		
8,500.00	7,046.82	9,628.92	7,075.29	50.44	53.34	122.65	-309.81	1,921.87	3,796.96	3,728.00	68.95	55.066		
8,600.00	7,047.34	9,629.42	7,075.29	52.94	53.34	122.46	-309.31	1,921.87	3,896.94	3,827.96	68.98	56.495		
8,700.00	7,047.86	9,629.91	7,075.30	55.46	53.34	122.27	-308.82	1,921.87	3,996.92	3,927.91	69.01	57.922		
8,800.00	7,048.37	9,630.37	7,075.30	58.00	53.34	122.08	-308.36	1,921.88	4,096.90	4,027.86	69.03	59.346		
8,900.00	7,048.89	9,630.82	7,075.30	60.56	53.33	121.91	-307.91	1,921.88	4,196.88	4,127.82	69.06	60.769		
9,000.00	7,049.41	9,631.25	7,075.31	63.13	53.33	121.74	-307.47	1,921.88	4,296.86	4,227.77	69.09	62.189		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ ELDER 4Y-HNB-2-07-65 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 138-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,631.67	7,075.31	65.72	53.33	121.59	-307.05	1,921.88	4,396.85	4,327.72	69.12	63.607	
9,200.00	7,050.45	9,632.08	7,075.31	68.32	53.33	121.43	-306.65	1,921.88	4,496.83	4,427.67	69.16	65.023	
9,300.00	7,050.97	9,632.47	7,075.32	70.93	53.33	121.29	-306.25	1,921.89	4,596.82	4,527.63	69.19	66.436	
9,400.00	7,051.48	9,632.86	7,075.32	73.55	53.33	121.15	-305.87	1,921.89	4,696.80	4,627.58	69.23	67.847	
9,500.00	7,052.00	9,633.22	7,075.32	76.18	53.33	121.01	-305.50	1,921.89	4,796.79	4,727.53	69.26	69.255	
9,600.00	7,052.52	9,633.58	7,075.33	78.81	53.33	120.88	-305.15	1,921.89	4,896.77	4,827.48	69.30	70.661	
9,700.00	7,053.04	9,633.93	7,075.33	81.46	53.33	120.76	-304.80	1,921.89	4,996.76	4,927.42	69.34	72.064	
9,800.00	7,053.56	9,634.27	7,075.33	84.10	53.33	120.64	-304.46	1,921.90	5,096.75	5,027.37	69.38	73.464	
9,900.00	7,054.08	9,634.59	7,075.33	86.76	53.33	120.52	-304.14	1,921.90	5,196.74	5,127.32	69.42	74.862	
10,000.00	7,054.59	9,634.91	7,075.34	89.42	53.33	120.41	-303.82	1,921.90	5,296.72	5,227.27	69.46	76.257	
10,100.00	7,055.11	9,635.22	7,075.34	92.08	53.33	120.30	-303.51	1,921.90	5,396.71	5,327.21	69.50	77.648	
10,200.00	7,055.63	9,635.52	7,075.34	94.75	53.33	120.20	-303.21	1,921.90	5,496.70	5,427.16	69.55	79.037	
10,300.00	7,056.15	9,635.81	7,075.34	97.42	53.33	120.10	-302.92	1,921.91	5,596.69	5,527.10	69.59	80.423	
10,400.00	7,056.67	9,636.09	7,075.35	100.10	53.33	120.00	-302.64	1,921.91	5,696.68	5,627.04	69.64	81.806	
10,500.00	7,057.18	9,636.37	7,075.35	102.78	53.33	119.90	-302.36	1,921.91	5,796.67	5,726.99	69.68	83.185	
10,600.00	7,057.70	9,636.63	7,075.35	105.46	53.33	119.81	-302.09	1,921.91	5,896.66	5,826.93	69.73	84.562	
10,700.00	7,058.22	9,636.90	7,075.35	108.14	53.33	119.73	-301.83	1,921.91	5,996.65	5,926.87	69.78	85.935	
10,800.00	7,058.74	9,637.15	7,075.36	110.83	53.33	119.64	-301.58	1,921.92	6,096.64	6,026.81	69.83	87.305	
10,900.00	7,059.26	9,637.40	7,075.36	113.52	53.33	119.56	-301.33	1,921.92	6,196.63	6,126.75	69.88	88.672	
11,000.00	7,059.78	9,637.64	7,075.36	116.21	53.33	119.48	-301.09	1,921.92	6,296.62	6,226.69	69.94	90.035	
11,100.00	7,060.29	9,637.88	7,075.36	118.90	53.33	119.40	-300.85	1,921.92	6,396.61	6,326.62	69.99	91.395	
11,200.00	7,060.81	9,638.11	7,075.36	121.60	53.33	119.32	-300.62	1,921.92	6,496.60	6,426.56	70.04	92.751	
11,300.00	7,061.33	9,638.33	7,075.36	124.30	53.33	119.25	-300.40	1,921.93	6,596.60	6,526.50	70.10	94.104	
11,400.00	7,061.85	9,638.55	7,075.37	127.00	53.33	119.18	-300.18	1,921.93	6,696.59	6,626.43	70.16	95.454	
11,500.00	7,062.37	9,638.76	7,075.37	129.70	53.33	119.11	-299.97	1,921.93	6,796.58	6,726.37	70.21	96.800	
11,600.00	7,062.89	9,638.97	7,075.37	132.40	53.33	119.04	-299.76	1,921.93	6,896.57	6,826.30	70.27	98.142	
11,700.00	7,063.40	9,639.17	7,075.37	135.10	53.33	118.97	-299.56	1,921.93	6,996.57	6,926.23	70.33	99.481	
11,800.00	7,063.92	9,639.37	7,075.37	137.81	53.33	118.91	-299.36	1,921.94	7,096.56	7,026.17	70.39	100.816	
11,900.00	7,064.44	9,639.57	7,075.37	140.51	53.33	118.85	-299.16	1,921.94	7,196.55	7,126.10	70.45	102.147	
12,000.00	7,064.96	9,639.76	7,075.38	143.22	53.33	118.79	-298.97	1,921.94	7,296.54	7,226.03	70.52	103.475	
12,100.00	7,065.48	9,639.94	7,075.38	145.93	53.33	118.73	-298.79	1,921.94	7,396.54	7,325.96	70.58	104.799	
12,200.00	7,066.00	9,640.13	7,075.38	148.64	53.33	118.67	-298.60	1,921.94	7,496.53	7,425.89	70.64	106.119	
12,300.00	7,066.51	9,640.30	7,075.38	151.35	53.33	118.62	-298.43	1,921.94	7,596.52	7,525.82	70.71	107.435	
12,400.00	7,067.03	9,640.48	7,075.38	154.06	53.32	118.56	-298.25	1,921.95	7,696.52	7,625.74	70.77	108.747	
12,500.00	7,067.55	9,640.65	7,075.38	156.77	53.32	118.51	-298.08	1,921.95	7,796.51	7,725.67	70.84	110.056	
12,600.00	7,068.07	9,640.82	7,075.38	159.49	53.32	118.46	-297.91	1,921.95	7,896.51	7,825.60	70.91	111.360	
12,700.00	7,068.59	9,640.98	7,075.38	162.20	53.32	118.41	-297.75	1,921.95	7,996.50	7,925.52	70.98	112.661	
12,800.00	7,069.11	9,641.14	7,075.39	164.92	53.32	118.36	-297.59	1,921.95	8,096.49	8,025.45	71.05	113.957	
12,900.00	7,069.62	3,641.00	3,270.16	167.63	28.33	-15.31	-1,385.25	882.44	8,190.56	8,133.68	56.87	144.012	
13,000.00	7,070.14	3,607.40	3,242.02	170.35	27.97	-15.02	-1,372.21	869.52	8,278.41	8,221.71	56.69	146.023	
13,100.00	7,070.66	3,592.38	3,229.39	173.07	27.81	-14.89	-1,366.47	863.78	8,366.51	8,309.78	56.72	147.493	
13,200.00	7,071.18	3,577.48	3,216.82	175.78	27.65	-14.77	-1,360.84	858.10	8,454.81	8,398.05	56.76	148.968	
13,300.00	7,071.70	3,528.44	3,175.35	178.50	27.14	-14.37	-1,342.42	839.50	8,543.32	8,486.92	56.40	151.474	
13,400.00	7,072.21	3,292.07	2,978.19	181.22	24.57	-12.48	-1,249.55	748.05	8,631.33	8,577.35	53.98	159.903	
13,500.00	7,072.73	3,210.39	2,910.99	183.94	23.65	-11.84	-1,216.08	715.88	8,718.92	8,665.68	53.24	163.769	
13,600.00	7,073.25	3,171.00	2,878.71	186.66	23.20	-11.54	-1,199.75	700.28	8,806.42	8,753.45	52.97	166.244	
13,700.00	7,073.77	3,171.00	2,878.71	189.38	23.20	-11.54	-1,199.75	700.28	8,894.15	8,840.99	53.16	167.320	
13,800.00	7,074.29	3,137.41	2,851.08	192.10	22.83	-11.29	-1,186.03	686.99	8,981.94	8,928.98	52.96	169.589	
13,900.00	7,074.81	3,124.69	2,840.54	194.82	22.69	-11.20	-1,180.97	681.98	9,070.00	9,017.00	53.00	171.128	
14,000.00	7,075.32	3,112.03	2,830.01	197.54	22.54	-11.11	-1,176.00	677.01	9,158.25	9,105.22	53.04	172.671	
14,100.00	7,075.84	3,077.00	2,800.67	200.27	22.15	-10.86	-1,162.64	663.31	9,246.78	9,193.94	52.84	175.002	
14,200.00	7,076.36	3,077.00	2,800.67	202.99	22.15	-10.86	-1,162.64	663.31	9,335.33	9,282.32	53.01	176.114	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ ELDER 4Y-HNB-2-07-65 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft
Survey Program: 138-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,300.00	7,076.88	3,068.07	2,793.15	205.71	22.06	-10.80	-1,159.30	659.83	9,424.10	9,371.02	53.08	177.533	
14,400.00	7,077.40	3,023.98	2,756.10	208.44	21.58	-10.50	-1,142.63	642.70	9,512.97	9,460.17	52.80	180.162	
14,500.00	7,077.92	2,982.00	2,720.93	211.16	21.12	-10.21	-1,126.49	626.44	9,601.88	9,549.35	52.54	182.755	
14,600.00	7,078.43	2,982.00	2,720.93	213.88	21.12	-10.21	-1,126.49	626.44	9,690.93	9,638.23	52.70	183.890	
14,700.00	7,078.95	2,944.56	2,689.46	216.61	20.72	-9.96	-1,112.26	611.96	9,780.04	9,727.55	52.49	186.318	
14,800.00	7,079.47	2,926.23	2,673.97	219.33	20.53	-9.84	-1,105.51	604.87	9,869.32	9,816.85	52.47	188.088	
14,900.00	7,079.99	2,876.04	2,631.32	222.06	19.99	-9.53	-1,087.58	585.41	9,958.76	9,906.60	52.16	190.919	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ ELDER 5X-HNB-09-07-65 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 138-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	7.10	7.10	0.00	0.04	-163.98	-387.26	-111.23	402.92				
100.00	100.00	108.46	108.46	0.48	0.55	-164.00	-387.12	-111.01	402.73	401.70	1.03	390.996	
200.00	200.00	208.53	208.53	1.28	1.18	-164.07	-386.85	-110.43	402.31	399.86	2.45	164.482	
300.00	300.00	309.76	309.75	1.77	1.68	-164.19	-386.61	-109.46	401.81	398.40	3.41	117.810	
400.00	400.00	407.73	407.72	2.15	2.06	-164.30	-386.41	-108.61	401.39	397.25	4.14	96.977	
500.00	500.00	509.04	509.03	2.48	2.41	-164.35	-386.27	-108.23	401.15	396.38	4.77	84.019	
600.00	600.00	614.29	614.27	2.77	2.74	-164.28	-384.93	-108.37	399.96	394.59	5.37	74.443	
700.00	700.00	719.44	719.37	3.03	3.03	-164.11	-382.15	-108.81	397.53	391.55	5.98	66.478	
800.00	800.00	822.66	822.50	3.28	3.31	-163.74	-377.87	-110.20	393.92	387.35	6.56	60.024	
900.00	900.00	920.54	920.24	3.51	3.56	-163.19	-373.28	-112.78	390.17	383.11	7.07	55.220	
1,000.00	999.98	1,018.68	1,018.22	3.78	3.81	-13.77	-369.08	-116.14	385.40	377.83	7.57	50.912	
1,083.35	1,083.22	1,105.94	1,105.35	4.28	4.05	-13.37	-364.98	-118.91	378.46	370.18	8.27	45.749	
1,100.00	1,099.84	1,122.09	1,121.47	4.29	4.10	-13.30	-364.16	-119.38	376.77	368.44	8.33	45.254	
1,200.00	1,199.64	1,219.64	1,218.89	4.47	4.39	-12.95	-359.73	-121.76	366.98	358.21	8.77	41.845	
1,300.00	1,299.43	1,317.54	1,316.66	4.70	4.67	-12.55	-355.57	-124.50	357.60	348.36	9.24	38.705	
1,400.00	1,399.23	1,416.98	1,416.01	4.95	4.96	-12.23	-351.95	-126.81	348.67	338.95	9.72	35.858	
1,500.00	1,499.02	1,518.10	1,517.05	5.20	5.25	-12.04	-348.26	-128.15	339.40	329.19	10.22	33.226	
1,600.00	1,598.82	1,619.42	1,618.28	5.47	5.61	-11.88	-344.04	-129.09	329.53	318.71	10.81	30.475	
1,700.00	1,698.61	1,719.08	1,717.84	5.75	6.09	-11.69	-339.68	-130.05	319.47	307.94	11.53	27.707	
1,800.00	1,798.41	1,818.28	1,816.94	6.04	6.48	-11.49	-335.33	-131.01	309.41	297.23	12.18	25.408	
1,900.00	1,898.20	1,916.88	1,915.46	6.34	6.80	-11.34	-331.30	-131.74	299.56	286.80	12.76	23.485	
2,000.00	1,998.00	2,014.71	2,013.22	6.64	7.10	-11.26	-327.84	-132.21	290.13	276.80	13.32	21.777	
2,100.00	2,097.79	2,113.70	2,112.17	6.94	7.40	-11.21	-324.86	-132.72	281.21	267.31	13.89	20.243	
2,200.00	2,197.59	2,212.35	2,210.78	7.26	7.69	-11.13	-322.00	-133.38	272.45	257.99	14.46	18.848	
2,300.00	2,297.38	2,310.52	2,308.92	7.57	7.98	-11.06	-319.63	-134.14	264.17	249.16	15.01	17.603	
2,400.00	2,397.18	2,416.20	2,414.53	7.89	8.36	-10.87	-316.25	-135.20	255.26	239.64	15.62	16.341	
2,500.00	2,496.97	2,516.29	2,514.48	8.22	8.75	-10.41	-311.17	-136.68	244.75	228.50	16.25	15.062	
2,600.00	2,596.77	2,614.00	2,612.06	8.54	9.06	-9.91	-306.47	-138.31	234.57	217.75	16.82	13.944	
2,700.00	2,696.57	2,713.21	2,711.17	8.87	9.38	-9.38	-302.12	-139.98	224.82	207.43	17.39	12.930	
2,800.00	2,796.36	2,812.49	2,810.33	9.21	9.69	-8.79	-297.85	-141.79	215.21	197.27	17.95	11.992	
2,900.00	2,896.16	2,911.90	2,909.64	9.54	10.01	-8.13	-293.62	-143.64	205.68	187.19	18.50	11.121	
3,000.00	2,995.95	3,010.76	3,008.40	9.87	10.32	-7.39	-289.53	-145.61	196.35	177.31	19.03	10.316	
3,100.00	3,095.75	3,109.40	3,106.95	10.21	10.62	-6.66	-286.00	-147.55	187.55	167.99	19.56	9.589	
3,200.00	3,195.54	3,210.20	3,207.68	10.55	10.93	-5.98	-282.71	-149.18	178.91	158.83	20.09	8.907	
3,300.00	3,295.34	3,311.69	3,309.10	10.89	11.23	-5.01	-279.06	-148.11	168.86	148.17	20.69	8.161	
3,400.00	3,395.13	3,409.85	3,407.18	11.23	11.52	-4.03	-275.43	-147.10	158.72	137.40	21.32	7.444	
3,500.00	3,494.93	3,508.15	3,505.42	11.58	11.81	-3.34	-272.07	-148.23	149.78	127.88	21.89	6.841	
3,600.00	3,594.72	3,606.99	3,604.20	11.92	12.10	-2.49	-269.02	-149.72	141.31	118.90	22.41	6.305	
3,700.00	3,694.52	3,706.28	3,703.45	12.26	12.39	-1.63	-266.54	-151.27	133.41	110.52	22.89	5.828	
3,800.00	3,794.31	3,806.35	3,803.48	12.61	12.68	-0.61	-263.94	-152.88	125.49	102.14	23.35	5.373	
3,900.00	3,894.11	3,905.83	3,902.90	12.96	12.97	0.37	-261.09	-154.53	117.42	93.62	23.80	4.934	
4,000.00	3,993.90	4,005.54	4,002.57	13.30	13.26	-0.13	-258.52	-155.97	109.53	85.30	24.23	4.520	
4,100.00	4,093.70	4,105.88	4,102.81	13.65	13.59	1.90	-255.08	-158.09	101.35	76.77	24.58	4.123	
4,200.00	4,193.49	4,204.92	4,201.72	14.00	13.93	5.04	-250.86	-161.17	93.23	68.44	24.79	3.760	
4,300.00	4,293.29	4,304.47	4,301.13	14.35	14.24	8.94	-246.69	-164.62	85.72	60.86	24.85	3.449	
4,400.00	4,393.08	4,403.57	4,400.04	14.70	14.55	13.94	-242.34	-168.67	78.97	54.27	24.70	3.197	
4,500.00	4,492.88	4,503.23	4,499.58	15.05	14.86	18.95	-239.05	-172.24	73.25	48.77	24.48	2.992	
4,600.00	4,592.68	4,604.01	4,600.28	15.40	15.19	24.40	-235.39	-174.49	66.88	42.66	24.23	2.761	
4,700.00	4,692.47	4,703.44	4,699.61	15.75	15.50	30.82	-231.47	-176.09	60.53	36.67	23.86	2.537	
4,800.00	4,792.27	4,802.90	4,798.95	16.10	15.82	39.20	-227.25	-178.52	55.79	32.46	23.33	2.391	
4,900.00	4,892.06	4,903.13	4,899.05	16.45	16.15	49.40	-222.38	-179.78	51.18	28.27	22.91	2.234	
5,000.00	4,991.86	5,002.44	4,998.24	16.81	16.47	60.92	-217.67	-180.72	48.14	25.31	22.83	2.108	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ ELDER 5X-HNB-09-07-65 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 138-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,091.65	5,102.32	5,098.03	17.16	16.79	72.66	-213.59	-181.78	47.23	23.96	23.27	2.030	
5,197.80	5,189.25	5,200.29	5,195.95	17.50	17.06	84.17	-210.21	-181.46	46.80	22.56	24.24	1.930	Collision Risk Procedures Req., CC
5,200.00	5,191.45	5,202.49	5,198.14	17.51	17.07	84.41	-210.14	-181.44	46.80	22.53	24.27	1.928	Collision Risk Procedures Req.
5,300.00	5,291.24	5,302.15	5,297.78	17.87	17.32	94.96	-207.82	-180.85	47.45	21.70	25.75	1.842	Collision Risk Procedures Req.
5,400.00	5,391.04	5,401.89	5,397.50	18.22	17.57	104.45	-205.75	-180.57	49.70	22.14	27.55	1.804	Collision Risk Procedures Req.
5,500.00	5,490.83	5,501.13	5,496.71	18.57	17.82	113.15	-203.55	-180.08	53.16	23.67	29.48	1.803	Collision Risk Procedures Req.
5,600.00	5,590.63	5,600.42	5,595.93	18.93	18.09	121.28	-200.14	-179.50	58.72	27.33	31.40	1.870	Collision Risk Procedures Req.
5,700.00	5,690.42	5,700.14	5,695.59	19.28	18.37	128.14	-196.63	-178.70	65.27	32.23	33.05	1.975	Collision Risk Procedures Req.
5,800.00	5,790.22	5,798.95	5,794.33	19.64	18.64	133.85	-192.91	-177.69	72.76	38.33	34.43	2.113	
5,900.00	5,890.01	5,898.86	5,894.15	19.99	18.93	138.44	-188.77	-176.86	81.25	45.64	35.60	2.282	
6,000.00	5,989.81	5,999.36	5,994.59	20.35	19.21	142.02	-185.60	-176.12	89.18	52.58	36.60	2.437	
6,100.00	6,089.60	6,099.56	6,094.77	20.70	19.45	145.10	-183.36	-175.15	96.47	59.01	37.46	2.575	
6,200.00	6,189.40	6,199.23	6,194.41	21.06	19.68	147.66	-181.44	-174.30	103.68	65.44	38.23	2.712	
6,300.00	6,289.19	6,299.43	6,294.59	21.41	19.90	149.83	-179.74	-173.58	110.85	71.89	38.95	2.846	
6,400.00	6,388.99	6,401.05	6,396.21	21.77	20.00	151.54	-179.10	-173.34	117.07	77.58	39.49	2.965	
6,498.43	6,487.22	6,500.07	6,495.21	22.12	20.04	152.21	-179.51	-174.95	122.13	82.30	39.82	3.067	
6,500.00	6,488.79	6,501.64	6,496.78	22.12	20.05	150.12	-179.52	-175.02	122.20	82.37	39.83	3.068	
6,550.00	6,538.54	6,551.78	6,546.65	22.32	20.18	115.86	-179.68	-180.04	124.66	84.63	40.03	3.114	
6,600.00	6,587.76	6,601.23	6,595.03	22.59	20.39	105.11	-179.61	-190.14	127.22	86.96	40.26	3.160	
6,650.00	6,636.08	6,649.52	6,641.15	22.84	20.81	99.59	-178.94	-204.38	130.28	89.83	40.45	3.221	
6,700.00	6,683.13	6,699.00	6,686.96	23.07	21.33	95.96	-177.67	-223.02	133.82	93.20	40.62	3.295	
6,750.00	6,728.55	6,750.57	6,733.46	23.29	21.80	93.82	-176.76	-245.28	136.81	96.00	40.81	3.352	
6,800.00	6,771.99	6,802.77	6,778.91	23.51	22.34	92.70	-176.59	-270.91	138.89	97.83	41.07	3.382	
6,850.00	6,813.13	6,855.33	6,821.11	23.72	22.95	91.16	-177.45	-302.16	139.80	98.50	41.30	3.385	
6,900.00	6,851.64	6,904.24	6,856.90	23.94	23.55	89.43	-178.78	-335.44	140.03	98.38	41.65	3.362	
6,950.00	6,887.25	6,952.04	6,889.50	24.16	24.17	88.15	-179.54	-370.39	140.60	98.50	42.10	3.340	
7,000.00	6,919.67	7,001.62	6,921.21	24.38	24.50	87.56	-179.96	-408.49	141.24	98.59	42.65	3.312	
7,050.00	6,948.65	7,051.60	6,951.98	24.62	24.76	88.20	-180.46	-447.87	141.42	98.09	43.33	3.264	
7,061.99	6,955.07	7,063.27	6,958.97	24.69	24.82	88.52	-180.58	-457.22	141.41	97.88	43.53	3.249	
7,100.00	6,973.99	7,099.77	6,979.57	24.88	25.01	89.53	-180.77	-487.33	141.53	97.32	44.20	3.202	
7,150.00	6,995.49	7,148.06	7,003.77	25.18	25.26	90.91	-180.55	-529.11	142.03	96.89	45.15	3.146	
7,200.00	7,012.97	7,198.01	7,025.49	25.51	25.54	92.58	-180.03	-574.08	142.72	96.46	46.26	3.085	
7,250.00	7,026.32	7,248.01	7,044.36	25.89	25.84	94.75	-179.48	-620.37	143.42	95.97	47.45	3.023	
7,300.00	7,035.43	7,295.91	7,059.69	26.33	26.11	97.23	-178.46	-665.73	144.76	95.95	48.81	2.966	
7,350.00	7,040.22	7,344.69	7,072.50	26.84	26.43	100.09	-176.58	-712.75	147.27	97.10	50.17	2.935	
7,377.14	7,041.00	7,373.80	7,078.83	27.14	26.66	101.99	-175.46	-741.15	148.81	97.91	50.90	2.924	
7,400.00	7,041.12	7,398.52	7,083.46	27.41	26.88	103.66	-174.75	-765.42	149.96	98.48	51.48	2.913	
7,500.00	7,041.64	7,509.96	7,095.47	28.77	28.18	108.04	-174.39	-876.11	151.21	97.12	54.09	2.796	
7,600.00	7,042.16	7,607.47	7,097.58	30.39	29.73	109.00	-175.56	-973.59	148.72	91.15	57.57	2.583	
7,700.00	7,042.67	7,710.58	7,099.08	32.22	31.60	109.64	-175.71	-1,076.68	147.01	85.95	61.07	2.407	
7,800.00	7,043.19	7,810.51	7,099.97	34.20	33.57	110.23	-177.12	-1,176.59	143.94	79.14	64.79	2.221	
7,900.00	7,043.71	7,909.99	7,100.34	36.31	35.64	110.61	-178.21	-1,276.07	140.99	72.28	68.71	2.052	
8,000.00	7,044.23	8,007.93	7,100.35	38.52	37.78	110.69	-178.14	-1,374.01	139.01	66.13	72.88	1.907	Collision Risk Procedures Req.
8,100.00	7,044.75	8,106.32	7,100.55	40.80	39.99	110.64	-176.67	-1,472.38	138.42	61.24	77.18	1.794	Collision Risk Procedures Req.
8,140.58	7,044.96	8,146.76	7,100.81	41.75	40.93	110.67	-175.90	-1,512.82	138.40	59.47	78.94	1.753	Collision Risk Procedures Req.
8,200.00	7,045.26	8,206.07	7,101.43	43.15	42.31	110.80	-174.80	-1,572.12	138.44	56.95	81.48	1.699	Collision Risk Procedures Req.
8,300.00	7,045.78	8,305.25	7,102.52	45.54	44.66	111.03	-172.86	-1,671.27	138.61	52.77	85.84	1.615	Collision Risk Procedures Req.
8,400.00	7,046.30	8,403.02	7,103.20	47.97	47.02	110.86	-169.32	-1,768.97	140.19	49.76	90.43	1.550	Collision Risk Procedures Req.
8,500.00	7,046.82	8,501.96	7,104.13	50.44	49.45	110.63	-164.64	-1,867.80	142.90	47.78	95.11	1.502	Collision Risk Procedures Req.
8,600.00	7,047.34	8,601.62	7,105.11	52.94	51.91	110.37	-159.49	-1,967.32	146.03	46.16	99.88	1.462	Collision Avoidance Req.
8,700.00	7,047.86	8,701.57	7,106.09	55.46	54.42	110.10	-154.26	-2,067.13	149.23	44.53	104.70	1.425	Collision Avoidance Req.
8,800.00	7,048.37	8,801.56	7,107.08	58.00	56.94	109.85	-149.04	-2,166.97	152.42	42.84	109.58	1.391	Collision Avoidance Req.

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ ELDER 5X-HNB-09-07-65 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft
Survey Program: 138-MWD													Offset Well Error: 0.00 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,900.00	7,048.89	8,901.38	7,108.12	60.56	59.48	109.63	-143.85	-2,266.65	155.62	41.13	114.49	1.359	Collision Avoidance Req.
9,000.00	7,049.41	9,001.68	7,109.15	63.13	62.05	109.41	-138.61	-2,366.82	158.83	39.37	119.45	1.330	Collision Avoidance Req.
9,100.00	7,049.93	9,102.14	7,110.23	65.72	64.64	109.26	-133.75	-2,467.15	161.70	37.27	124.42	1.300	Collision Avoidance Req.
9,200.00	7,050.45	9,201.25	7,111.40	68.32	67.21	109.15	-128.95	-2,566.14	164.60	35.24	129.36	1.272	Collision Avoidance Req.
9,300.00	7,050.97	9,302.07	7,112.24	70.93	69.84	108.90	-123.76	-2,666.82	167.69	33.21	134.47	1.247	Collision Avoidance Req.
9,400.00	7,051.48	9,401.74	7,112.97	73.55	72.44	108.66	-118.93	-2,766.37	170.46	30.88	139.58	1.221	Collision Avoidance Req.
9,500.00	7,052.00	9,503.60	7,113.77	76.18	75.12	108.48	-114.41	-2,868.12	172.86	28.13	144.72	1.194	Collision Avoidance Req.
9,600.00	7,052.52	9,606.95	7,114.60	78.81	77.84	108.50	-111.63	-2,971.43	173.60	23.84	149.76	1.159	Collision Avoidance Req.
9,700.00	7,053.04	9,707.41	7,115.70	81.46	80.49	108.74	-110.18	-3,071.88	173.26	18.67	154.59	1.121	Collision Avoidance Req.
9,800.00	7,053.56	9,806.74	7,116.74	84.10	83.11	108.94	-108.54	-3,171.19	173.11	13.68	159.43	1.086	Collision Avoidance Req.
9,900.00	7,054.08	9,906.97	7,117.67	86.76	85.76	109.09	-106.74	-3,271.40	173.05	8.72	164.33	1.053	Collision Avoidance Req.
10,000.00	7,054.59	10,007.35	7,118.60	89.42	88.43	109.26	-105.15	-3,371.76	172.79	3.59	169.21	1.021	Collision Avoidance Req.
10,100.00	7,055.11	10,107.96	7,119.77	92.08	91.10	109.55	-103.90	-3,472.35	172.30	-1.68	173.97	0.990	No-Go Zone - Stop Drilling
10,200.00	7,055.63	10,208.53	7,121.13	94.75	93.77	109.96	-103.20	-3,572.92	171.36	-7.25	178.61	0.959	No-Go Zone - Stop Drilling
10,300.00	7,056.15	10,308.45	7,122.61	97.42	96.44	110.43	-102.67	-3,672.82	170.31	-12.85	183.15	0.930	No-Go Zone - Stop Drilling
10,400.00	7,056.67	10,408.35	7,123.92	100.10	99.10	110.84	-101.98	-3,772.71	169.37	-18.37	187.74	0.902	No-Go Zone - Stop Drilling
10,500.00	7,057.18	10,508.85	7,124.92	102.78	101.79	111.15	-101.27	-3,873.21	168.34	-24.07	192.41	0.875	No-Go Zone - Stop Drilling
10,600.00	7,057.70	10,607.83	7,125.49	105.46	104.43	111.31	-100.47	-3,972.18	167.25	-29.97	197.22	0.848	No-Go Zone - Stop Drilling
10,700.00	7,058.22	10,707.75	7,125.74	108.14	107.11	111.28	-98.88	-4,072.09	166.78	-35.50	202.28	0.824	No-Go Zone - Stop Drilling
10,800.00	7,058.74	10,807.31	7,125.89	110.83	109.78	111.21	-97.28	-4,171.63	166.28	-41.11	207.38	0.802	No-Go Zone - Stop Drilling
10,900.00	7,059.26	10,908.33	7,126.17	113.52	112.50	111.16	-95.55	-4,272.63	165.92	-46.55	212.47	0.781	No-Go Zone - Stop Drilling
11,000.00	7,059.78	11,010.49	7,126.98	116.21	115.24	111.50	-95.46	-4,374.79	164.25	-52.80	217.05	0.757	No-Go Zone - Stop Drilling
11,100.00	7,060.29	11,112.25	7,127.98	118.90	117.97	112.08	-96.65	-4,476.54	161.48	-59.77	221.25	0.730	No-Go Zone - Stop Drilling
11,200.00	7,060.81	11,212.18	7,128.79	121.60	120.65	112.70	-98.54	-4,576.45	158.00	-67.36	225.35	0.701	No-Go Zone - Stop Drilling
11,300.00	7,061.33	11,308.03	7,129.35	124.30	123.24	113.06	-98.98	-4,672.29	155.77	-74.12	229.89	0.678	No-Go Zone - Stop Drilling
11,400.00	7,061.85	11,407.80	7,129.57	127.00	125.93	112.99	-97.19	-4,772.05	155.47	-79.52	234.99	0.662	No-Go Zone - Stop Drilling
11,500.00	7,062.37	11,507.05	7,129.80	129.70	128.61	112.93	-95.47	-4,871.28	155.11	-84.95	240.06	0.646	No-Go Zone - Stop Drilling
11,600.00	7,062.89	11,607.51	7,130.01	132.40	131.32	112.83	-93.51	-4,971.72	154.95	-90.28	245.22	0.632	No-Go Zone - Stop Drilling
11,700.00	7,063.40	11,707.58	7,130.18	135.10	134.03	112.75	-91.77	-5,071.77	154.58	-95.79	250.36	0.617	No-Go Zone - Stop Drilling
11,800.00	7,063.92	11,807.68	7,130.21	137.81	136.73	112.62	-90.06	-5,171.86	154.13	-101.45	255.58	0.603	No-Go Zone - Stop Drilling
11,900.00	7,064.44	11,907.23	7,130.23	140.51	139.42	112.46	-88.11	-5,271.39	153.90	-106.97	260.87	0.590	No-Go Zone - Stop Drilling
12,000.00	7,064.96	12,007.63	7,129.86	143.22	142.14	112.16	-86.18	-5,371.77	153.49	-112.91	266.40	0.576	No-Go Zone - Stop Drilling
12,069.14	7,065.32	12,076.12	7,129.91	145.09	143.99	112.06	-84.84	-5,440.25	153.35	-116.70	270.04	0.568	No-Go Zone - Stop Drilling
12,100.00	7,065.48	12,106.97	7,130.06	145.93	144.83	112.06	-84.22	-5,471.09	153.35	-118.26	271.61	0.565	No-Go Zone - Stop Drilling
12,102.78	7,065.49	12,109.75	7,130.07	146.01	144.90	112.06	-84.16	-5,473.87	153.35	-118.40	271.75	0.564	No-Go Zone - Stop Drilling
12,200.00	7,066.00	12,205.89	7,130.38	148.64	147.51	111.96	-82.03	-5,569.99	153.48	-123.31	276.79	0.554	No-Go Zone - Stop Drilling
12,300.00	7,066.51	12,303.00	7,130.49	151.35	150.14	111.56	-78.16	-5,667.02	155.18	-127.24	282.42	0.549	No-Go Zone - Stop Drilling
12,400.00	7,067.03	12,402.63	7,130.25	154.06	152.85	110.82	-72.57	-5,766.48	158.28	-130.46	288.74	0.548	No-Go Zone - Stop Drilling
12,500.00	7,067.55	12,505.25	7,131.03	156.77	155.64	110.64	-68.47	-5,869.02	160.23	-134.05	294.28	0.544	No-Go Zone - Stop Drilling
12,600.00	7,068.07	12,603.31	7,131.68	159.49	158.30	110.55	-65.35	-5,967.03	161.40	-138.05	299.46	0.539	No-Go Zone - Stop Drilling
12,700.00	7,068.59	12,701.97	7,131.34	162.20	160.99	109.81	-59.62	-6,065.52	164.68	-141.09	305.76	0.539	No-Go Zone - Stop Drilling
12,800.00	7,069.11	12,802.88	7,131.53	164.92	163.73	109.34	-54.48	-6,166.30	167.49	-144.28	311.77	0.537	No-Go Zone - Stop Drilling
12,900.00	7,069.62	12,903.22	7,131.70	167.63	166.46	108.92	-49.73	-6,266.53	169.96	-147.69	317.66	0.535	No-Go Zone - Stop Drilling
13,000.00	7,070.14	13,003.22	7,132.00	170.35	169.17	108.58	-45.17	-6,366.42	172.32	-151.08	323.40	0.533	No-Go Zone - Stop Drilling
13,100.00	7,070.66	13,102.56	7,132.33	173.07	171.87	108.24	-40.49	-6,465.65	174.84	-154.27	329.11	0.531	No-Go Zone - Stop Drilling
13,200.00	7,071.18	13,203.48	7,132.55	175.78	174.62	107.86	-35.69	-6,566.45	177.37	-157.62	334.99	0.529	No-Go Zone - Stop Drilling
13,300.00	7,071.70	13,301.51	7,132.74	178.50	177.29	107.49	-30.86	-6,664.36	180.07	-160.62	340.69	0.529	No-Go Zone - Stop Drilling
13,400.00	7,072.21	13,403.54	7,132.83	181.22	180.06	107.06	-25.66	-6,766.26	182.90	-163.85	346.76	0.527	No-Go Zone - Stop Drilling
13,500.00	7,072.73	13,511.71	7,133.38	183.94	183.01	107.07	-23.72	-6,874.40	182.70	-169.38	352.08	0.519	No-Go Zone - Stop Drilling
13,600.00	7,073.25	13,614.68	7,134.20	186.66	185.81	107.53	-25.63	-6,977.35	179.09	-177.27	356.36	0.503	No-Go Zone - Stop Drilling
13,700.00	7,073.77	13,713.00	7,135.00	189.38	188.47	107.97	-27.22	-7,075.65	175.73	-185.10	360.84	0.487	No-Go Zone - Stop Drilling
13,800.00	7,074.29	13,812.54	7,135.86	192.10	191.17	108.42	-28.51	-7,175.18	172.71	-192.48	365.20	0.473	No-Go Zone - Stop Drilling

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ ELDER 5X-HNB-09-07-65 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft
Survey Program: 138-MWD													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,900.00	7,074.81	13,910.50	7,136.51	194.82	193.83	108.73	-29.05	-7,273.13	170.35	-199.47	369.82	0.461	No-Go Zone - Stop Drilling
14,000.00	7,075.32	14,008.29	7,137.33	197.54	196.49	108.93	-28.08	-7,370.91	169.50	-205.08	374.58	0.453	No-Go Zone - Stop Drilling
14,044.32	7,075.55	14,052.05	7,137.81	198.75	197.68	109.03	-27.37	-7,414.67	169.43	-207.23	376.66	0.450	No-Go Zone - Stop Drilling
14,100.00	7,075.84	14,106.14	7,138.32	200.27	199.15	109.09	-26.11	-7,468.74	169.68	-209.70	379.38	0.447	No-Go Zone - Stop Drilling
14,200.00	7,076.36	14,208.54	7,138.86	202.99	201.94	108.98	-23.06	-7,571.09	170.62	-214.20	384.82	0.443	No-Go Zone - Stop Drilling
14,292.14	7,076.84	14,299.89	7,139.85	205.50	204.44	109.27	-22.37	-7,662.43	169.72	-219.25	388.97	0.436	No-Go Zone - Stop Drilling
14,300.00	7,076.88	14,307.34	7,139.88	205.71	204.64	109.27	-22.21	-7,669.88	169.73	-219.65	389.38	0.436	No-Go Zone - Stop Drilling
14,400.00	7,077.40	14,405.42	7,139.97	208.44	207.32	108.99	-18.94	-7,767.90	170.85	-224.22	395.07	0.432	No-Go Zone - Stop Drilling
14,500.00	7,077.92	14,506.22	7,140.43	211.16	210.07	108.83	-15.60	-7,868.64	172.07	-228.56	400.63	0.430	No-Go Zone - Stop Drilling
14,600.00	7,078.43	14,604.54	7,140.94	213.88	212.75	108.69	-12.40	-7,966.91	173.28	-232.73	406.01	0.427	No-Go Zone - Stop Drilling
14,700.00	7,078.95	14,704.52	7,141.18	216.61	215.47	108.37	-8.20	-8,066.80	175.28	-236.61	411.88	0.426	No-Go Zone - Stop Drilling
14,800.00	7,079.47	14,805.12	7,141.63	219.33	218.22	108.17	-4.37	-8,167.32	176.98	-240.58	417.56	0.424	No-Go Zone - Stop Drilling
14,900.00	7,079.99	14,903.59	7,142.00	222.06	220.90	107.92	-0.37	-8,265.72	178.89	-244.30	423.19	0.423	No-Go Zone - Stop Drilling
15,000.00	7,080.51	15,006.55	7,142.53	224.78	223.71	107.77	3.28	-8,368.61	180.36	-248.54	428.90	0.421	No-Go Zone - Stop Drilling
15,100.00	7,081.03	15,104.31	7,143.14	227.51	226.38	107.67	6.59	-8,466.31	181.72	-252.50	434.22	0.418	No-Go Zone - Stop Drilling
15,200.00	7,081.54	15,202.67	7,143.49	230.24	229.06	107.38	11.07	-8,564.57	184.11	-255.82	439.93	0.419	No-Go Zone - Stop Drilling
15,300.00	7,082.06	15,301.89	7,143.58	232.96	231.77	106.94	16.53	-8,663.64	187.34	-258.70	446.04	0.420	No-Go Zone - Stop Drilling
15,400.00	7,082.58	15,408.17	7,143.32	235.69	234.67	106.47	21.27	-8,769.80	189.51	-263.12	452.63	0.419	No-Go Zone - Stop Drilling
15,500.00	7,083.10	15,517.11	7,144.36	238.41	237.64	106.95	19.64	-8,878.72	186.22	-270.26	456.49	0.408	No-Go Zone - Stop Drilling
15,600.00	7,083.62	15,617.63	7,145.74	241.14	240.37	107.74	15.89	-8,979.15	181.02	-278.82	459.83	0.394	No-Go Zone - Stop Drilling
15,700.00	7,084.13	15,714.13	7,147.13	243.87	242.98	108.50	12.89	-9,075.60	176.47	-287.03	463.50	0.381	No-Go Zone - Stop Drilling
15,800.00	7,084.65	15,812.67	7,148.27	246.60	245.66	108.98	12.18	-9,174.12	174.09	-293.48	467.57	0.372	No-Go Zone - Stop Drilling
15,900.00	7,085.17	15,913.13	7,149.42	249.32	248.40	109.51	11.13	-9,274.57	171.42	-299.92	471.33	0.364	No-Go Zone - Stop Drilling
16,000.00	7,085.69	16,011.69	7,150.86	252.05	251.08	110.13	10.22	-9,373.11	168.99	-305.87	474.86	0.356	No-Go Zone - Stop Drilling
16,100.00	7,086.21	16,111.70	7,152.22	254.78	253.80	110.66	10.06	-9,473.12	167.27	-311.26	478.53	0.350	No-Go Zone - Stop Drilling
16,200.00	7,086.73	16,211.46	7,153.21	257.51	256.51	111.08	9.87	-9,572.88	165.39	-317.04	482.43	0.343	No-Go Zone - Stop Drilling
16,300.00	7,087.24	16,311.71	7,154.87	260.24	259.24	111.75	9.49	-9,673.11	163.59	-321.92	485.52	0.337	No-Go Zone - Stop Drilling
16,400.00	7,087.76	16,411.13	7,156.93	262.97	261.94	112.59	8.98	-9,772.50	161.85	-326.15	488.00	0.332	No-Go Zone - Stop Drilling
16,500.00	7,088.28	16,511.63	7,158.92	265.69	264.68	113.41	8.52	-9,872.99	160.17	-330.17	490.34	0.327	No-Go Zone - Stop Drilling
16,600.00	7,088.80	16,611.54	7,160.94	268.42	267.40	114.28	7.92	-9,972.87	158.40	-333.99	492.39	0.322	No-Go Zone - Stop Drilling
16,700.00	7,089.32	16,712.40	7,163.37	271.15	270.14	115.42	6.60	-10,073.70	156.20	-337.06	493.26	0.317	No-Go Zone - Stop Drilling
16,800.00	7,089.84	16,810.76	7,165.74	273.88	272.82	116.47	5.93	-10,172.02	154.61	-339.72	494.33	0.313	No-Go Zone - Stop Drilling
16,900.00	7,090.35	16,911.77	7,168.11	276.61	275.56	117.55	5.15	-10,273.00	152.98	-341.95	494.93	0.309	No-Go Zone - Stop Drilling
17,000.00	7,090.87	17,011.82	7,170.43	279.34	278.29	118.69	4.08	-10,373.01	151.12	-343.95	495.07	0.305	No-Go Zone - Stop Drilling
17,024.65	7,091.00	17,036.50	7,171.01	280.01	278.96	118.99	3.79	-10,397.68	150.65	-344.36	495.01	0.304	No-Go Zone - Stop Drilling, ES, SF

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ RUSCH 8X-HNB-04-07-65 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft
Survey Program: 138-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	8.51	8.51	0.00	0.04	-163.39	-372.32	-111.09	388.54				
100.00	100.00	114.92	114.91	0.48	0.59	-163.38	-371.34	-110.81	387.59	386.51	1.07	361.144	
200.00	200.00	218.19	218.15	1.28	1.27	-163.38	-369.06	-110.18	385.29	382.73	2.56	150.690	
300.00	300.00	320.21	320.14	1.77	1.79	-163.34	-366.15	-109.59	382.39	378.84	3.56	107.513	
400.00	400.00	424.45	424.30	2.15	2.25	-163.25	-362.34	-109.04	378.75	374.34	4.40	86.038	
500.00	500.00	533.49	533.18	2.48	2.86	-163.06	-356.35	-108.57	373.37	368.05	5.32	70.136	
600.00	600.00	645.75	644.99	2.77	3.68	-162.64	-346.56	-108.31	364.97	358.58	6.39	57.080	
700.00	700.00	760.72	758.98	3.03	4.65	-161.86	-331.63	-108.64	352.68	345.11	7.57	46.614	
800.00	800.00	870.66	867.27	3.28	5.46	-160.65	-312.70	-109.82	336.68	328.14	8.54	39.421	
900.00	900.00	980.71	974.75	3.51	6.21	-158.78	-289.25	-112.31	317.39	307.98	9.41	33.714	
1,000.00	999.98	1,090.51	1,080.83	3.78	6.98	-7.47	-261.08	-115.11	292.81	282.52	10.28	28.471	
1,083.35	1,083.22	1,180.25	1,166.37	4.28	7.65	-4.74	-234.07	-117.26	266.75	255.49	11.27	23.675	
1,100.00	1,099.84	1,196.96	1,182.16	4.29	7.76	-4.11	-228.62	-117.68	261.02	249.66	11.36	22.975	
1,200.00	1,199.64	1,293.65	1,273.12	4.47	8.28	0.39	-195.93	-120.09	226.16	214.30	11.86	19.063	
1,300.00	1,299.43	1,389.09	1,362.24	4.70	8.70	6.73	-161.84	-122.42	191.34	179.13	12.21	15.667	
1,400.00	1,399.23	1,484.98	1,450.84	4.95	9.17	16.19	-125.23	-123.87	157.05	144.63	12.42	12.647	
1,500.00	1,499.02	1,577.07	1,534.59	5.20	9.63	30.53	-86.94	-124.37	125.79	113.49	12.30	10.228	
1,600.00	1,598.82	1,665.84	1,614.75	5.47	9.99	50.66	-48.79	-124.28	105.60	93.52	12.08	8.742	
1,650.49	1,649.20	1,709.82	1,654.18	5.61	10.22	62.57	-29.32	-124.11	102.58	90.29	12.29	8.345 CC, ES	
1,700.00	1,698.61	1,751.90	1,691.51	5.75	10.45	74.39	-9.90	-123.98	105.70	92.86	12.83	8.235	
1,800.00	1,798.41	1,833.19	1,762.50	6.04	11.00	94.73	29.69	-124.15	129.94	115.54	14.40	9.022	
1,900.00	1,898.20	1,910.82	1,828.94	6.34	11.51	108.51	69.82	-125.28	171.26	155.54	15.71	10.899	
2,000.00	1,998.00	1,989.59	1,895.23	6.64	11.94	117.60	112.31	-127.46	221.77	205.03	16.74	13.247	
2,100.00	2,097.79	2,074.40	1,966.88	6.94	12.34	123.84	157.61	-130.09	275.07	257.37	17.70	15.538	
2,200.00	2,197.59	2,158.18	2,038.35	7.26	12.73	128.01	201.25	-132.45	328.66	310.12	18.54	17.727	
2,300.00	2,297.38	2,234.00	2,102.19	7.57	13.15	130.78	242.08	-134.91	384.82	365.55	19.26	19.976	
2,400.00	2,397.18	2,311.10	2,166.59	7.89	13.54	132.88	284.36	-137.97	442.62	422.66	19.97	22.169	
2,500.00	2,496.97	2,399.61	2,241.20	8.22	13.95	134.64	331.80	-141.95	499.75	478.94	20.81	24.014	
2,600.00	2,596.77	2,472.76	2,303.03	8.54	14.32	135.82	370.78	-145.04	556.77	535.35	21.42	25.996	
2,700.00	2,696.57	2,545.92	2,363.89	8.87	14.73	136.95	411.32	-147.16	615.73	593.68	22.05	27.926	
2,800.00	2,796.36	2,635.27	2,438.43	9.21	15.39	138.07	460.51	-149.83	674.57	651.64	22.92	29.427	
2,900.00	2,896.16	2,737.20	2,524.64	9.54	16.26	139.09	514.80	-152.85	731.82	707.86	23.96	30.542	
3,000.00	2,995.95	2,833.02	2,607.16	9.87	17.08	139.89	563.42	-155.39	786.61	761.70	24.91	31.574	
3,100.00	3,095.75	2,911.60	2,674.72	10.21	17.76	140.55	603.55	-156.27	841.69	816.09	25.60	32.883	
3,200.00	3,195.54	2,997.48	2,748.71	10.55	18.51	141.18	647.14	-157.23	896.55	870.19	26.36	34.016	
3,300.00	3,295.34	3,058.29	2,800.70	10.89	19.04	141.58	678.66	-158.13	952.56	925.73	26.83	35.501	
3,400.00	3,395.13	3,152.84	2,881.02	11.23	19.87	142.12	728.53	-159.70	1,009.56	981.77	27.79	36.331	
3,500.00	3,494.93	3,224.12	2,941.95	11.58	20.50	142.47	765.48	-161.09	1,065.74	1,037.31	28.43	37.485	
3,600.00	3,594.72	3,301.31	3,007.27	11.92	21.18	142.77	806.56	-163.22	1,123.26	1,094.12	29.15	38.539	
3,700.00	3,694.52	3,389.42	3,082.37	12.26	21.97	143.05	852.54	-166.31	1,179.85	1,149.85	30.00	39.331	
3,800.00	3,794.31	3,453.00	3,136.08	12.61	22.54	143.24	886.49	-168.34	1,237.57	1,207.02	30.55	40.510	
3,900.00	3,894.11	3,564.40	3,230.64	12.96	23.54	143.55	945.26	-171.98	1,294.77	1,263.06	31.71	40.828	
4,000.00	3,993.90	3,633.99	3,289.95	13.30	24.18	143.77	981.63	-173.22	1,351.40	1,319.08	32.32	41.808	
4,100.00	4,093.70	3,692.20	3,339.17	13.65	24.73	143.98	1,012.71	-173.58	1,409.11	1,376.30	32.81	42.953	
4,200.00	4,193.49	3,779.53	3,412.33	14.00	25.53	144.24	1,060.37	-174.98	1,468.05	1,434.39	33.66	43.611	
4,300.00	4,293.29	3,895.52	3,511.15	14.35	26.57	144.52	1,121.06	-177.43	1,524.64	1,489.79	34.85	43.749	
4,400.00	4,393.08	3,964.34	3,569.94	14.70	27.18	144.67	1,156.82	-178.89	1,581.09	1,545.63	35.46	44.585	
4,500.00	4,492.88	4,042.78	3,636.37	15.05	27.88	144.82	1,198.47	-180.81	1,638.62	1,602.43	36.19	45.275	
4,600.00	4,592.68	4,147.93	3,726.71	15.40	28.80	145.00	1,252.21	-183.30	1,693.98	1,656.68	37.30	45.411	
4,700.00	4,692.47	4,207.00	3,776.81	15.75	29.33	145.12	1,283.48	-184.40	1,751.15	1,713.24	37.91	46.192	
4,800.00	4,792.27	4,247.98	3,811.16	16.10	29.71	145.20	1,305.81	-184.86	1,809.64	1,771.39	38.25	47.316	
4,900.00	4,892.06	4,318.87	3,870.39	16.45	30.38	145.38	1,344.76	-184.72	1,868.90	1,829.99	38.92	48.021	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ RUSCH 8X-HNB-04-07-65 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft		
Survey Program:		138-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.00	4,991.86	4,396.00	3,934.73	16.81	31.12	145.56	1,387.31	-184.91	1,928.41	1,888.78	39.63	48.665			
5,100.00	5,091.65	4,465.01	3,992.16	17.16	31.77	145.68	1,425.57	-185.60	1,988.21	1,947.96	40.25	49.399			
5,200.00	5,191.45	4,527.27	4,043.73	17.51	32.36	145.79	1,460.43	-186.35	2,048.57	2,007.77	40.80	50.213			
5,300.00	5,291.24	4,585.00	4,091.24	17.87	32.92	145.87	1,493.22	-187.41	2,109.71	2,068.41	41.30	51.083			
5,400.00	5,391.04	4,646.96	4,141.91	18.22	33.52	145.95	1,528.86	-188.83	2,171.56	2,129.71	41.85	51.886			
5,500.00	5,490.83	4,962.00	4,406.21	18.57	36.43	146.30	1,699.84	-195.17	2,232.76	2,187.57	45.19	49.406			
5,600.00	5,590.63	5,018.12	4,454.98	18.93	36.92	146.36	1,727.58	-196.10	2,286.82	2,241.09	45.73	50.002			
5,700.00	5,690.42	5,076.65	4,505.47	19.28	37.44	146.46	1,757.18	-195.74	2,341.91	2,295.61	46.29	50.589			
5,800.00	5,790.22	5,151.00	4,569.27	19.64	38.12	146.62	1,795.31	-193.88	2,397.70	2,350.71	46.99	51.026			
5,900.00	5,890.01	5,188.84	4,601.52	19.99	38.47	146.71	1,815.07	-192.68	2,454.34	2,407.00	47.34	51.850			
6,000.00	5,989.81	5,245.00	4,648.86	20.35	38.97	146.83	1,845.25	-191.31	2,512.40	2,464.53	47.86	52.491			
6,100.00	6,089.60	5,357.74	4,744.15	20.70	39.99	147.05	1,905.44	-188.54	2,570.34	2,521.34	49.00	52.457			
6,200.00	6,189.40	5,417.33	4,794.66	21.06	40.53	147.14	1,937.03	-187.74	2,627.87	2,578.31	49.56	53.025			
6,300.00	6,289.19	5,558.75	4,915.36	21.41	41.80	147.27	2,010.70	-189.02	2,684.29	2,633.36	50.94	52.698			
6,400.00	6,388.99	5,622.00	4,969.31	21.77	42.36	147.31	2,043.70	-190.33	2,740.94	2,689.38	51.55	53.167			
6,498.43	6,487.22	5,727.73	5,059.52	22.12	43.30	147.36	2,098.77	-192.71	2,796.83	2,744.27	52.56	53.216			
6,500.00	6,488.79	5,730.24	5,061.68	22.12	43.32	145.18	2,100.06	-192.76	2,797.70	2,745.12	52.58	53.209			
6,550.00	6,538.54	5,745.56	5,074.75	22.32	43.46	108.38	2,108.05	-193.16	2,825.79	2,773.06	52.73	53.588			
6,600.00	6,587.76	5,770.29	5,095.81	22.59	43.68	95.58	2,120.98	-193.84	2,853.72	2,800.73	52.99	53.853			
6,650.00	6,636.08	5,811.00	5,130.33	22.84	44.05	88.41	2,142.53	-195.15	2,881.40	2,828.05	53.35	54.009			
6,700.00	6,683.13	5,836.77	5,152.14	23.07	44.28	83.21	2,156.22	-196.04	2,908.38	2,854.81	53.57	54.296			
6,750.00	6,728.55	5,920.75	5,223.70	23.29	45.03	79.72	2,200.10	-198.85	2,934.16	2,879.80	54.36	53.979			
6,800.00	6,771.99	5,946.15	5,245.38	23.51	45.26	76.36	2,213.30	-199.42	2,958.81	2,904.21	54.60	54.190			
6,850.00	6,813.13	5,978.38	5,272.92	23.72	45.55	73.58	2,230.04	-199.90	2,982.41	2,927.47	54.94	54.283			
6,900.00	6,851.64	5,999.00	5,290.54	23.94	45.74	71.02	2,240.76	-200.03	3,004.91	2,949.70	55.21	54.427			
6,950.00	6,887.25	6,030.87	5,317.75	24.16	46.02	68.98	2,257.36	-200.06	3,026.22	2,970.59	55.63	54.398			
7,000.00	6,919.67	6,052.41	5,336.11	24.38	46.22	67.06	2,268.62	-199.99	3,046.31	2,990.30	56.01	54.393			
7,050.00	6,948.65	6,071.49	5,352.35	24.62	46.39	65.35	2,278.61	-199.87	3,065.10	3,008.69	56.42	54.330			
7,100.00	6,973.99	6,092.00	5,369.81	24.88	46.57	63.90	2,289.39	-199.68	3,082.54	3,025.64	56.91	54.167			
7,150.00	6,995.49	6,103.16	5,379.30	25.18	46.67	62.49	2,295.25	-199.53	3,098.56	3,041.18	57.38	54.004			
7,200.00	7,012.97	6,115.55	5,389.84	25.51	46.79	61.32	2,301.77	-199.31	3,113.10	3,055.17	57.93	53.741			
7,250.00	7,026.32	6,124.61	5,397.55	25.89	46.87	60.27	2,306.53	-199.12	3,126.12	3,067.60	58.52	53.423			
7,300.00	7,035.43	6,130.42	5,402.48	26.33	46.92	59.34	2,309.58	-198.98	3,137.56	3,078.42	59.14	53.057			
7,350.00	7,040.22	6,133.07	5,404.74	26.84	46.94	58.54	2,310.98	-198.91	3,147.38	3,087.60	59.78	52.647			
7,377.14	7,041.00	6,133.24	5,404.89	27.14	46.95	58.15	2,311.07	-198.90	3,152.02	3,091.89	60.12	52.426			
7,400.00	7,041.12	6,133.02	5,404.69	27.41	46.94	58.14	2,310.95	-198.91	3,155.79	3,095.38	60.41	52.240			
7,500.00	7,041.64	6,132.08	5,403.89	28.77	46.94	58.13	2,310.45	-198.93	3,174.19	3,112.44	61.75	51.407			
7,600.00	7,042.16	6,131.19	5,403.14	30.39	46.93	58.11	2,309.99	-198.96	3,195.60	3,132.41	63.19	50.568			
7,700.00	7,042.67	6,130.36	5,402.43	32.22	46.92	58.10	2,309.55	-198.98	3,219.99	3,155.27	64.72	49.752			
7,800.00	7,043.19	6,129.57	5,401.76	34.20	46.91	58.08	2,309.14	-199.00	3,247.27	3,180.97	66.30	48.978			
7,900.00	7,043.71	6,128.83	5,401.13	36.31	46.91	58.07	2,308.75	-199.02	3,277.38	3,209.46	67.91	48.258			
8,000.00	7,044.23	6,128.12	5,400.53	38.52	46.90	58.05	2,308.38	-199.03	3,310.23	3,240.69	69.54	47.599			
8,100.00	7,044.75	6,127.45	5,399.96	40.80	46.89	58.04	2,308.03	-199.05	3,345.75	3,274.57	71.18	47.006			
8,200.00	7,045.26	6,126.82	5,399.42	43.15	46.89	58.03	2,307.69	-199.07	3,383.86	3,311.05	72.80	46.481			
8,300.00	7,045.78	6,126.22	5,398.91	45.54	46.88	58.02	2,307.38	-199.08	3,424.46	3,350.05	74.40	46.025			
8,400.00	7,046.30	6,125.65	5,398.42	47.97	46.88	58.01	2,307.07	-199.09	3,467.47	3,391.48	75.98	45.635			
8,500.00	7,046.82	6,125.10	5,397.96	50.44	46.87	58.00	2,306.79	-199.11	3,512.80	3,435.27	77.53	45.310			
8,600.00	7,047.34	6,124.58	5,397.52	52.94	46.87	57.99	2,306.51	-199.12	3,560.36	3,481.33	79.04	45.048			
8,700.00	7,047.86	6,124.08	5,397.09	55.46	46.86	57.98	2,306.25	-199.13	3,610.07	3,529.57	80.50	44.845			
8,800.00	7,048.37	6,123.61	5,396.69	58.00	46.86	57.97	2,306.00	-199.14	3,661.83	3,579.91	81.92	44.698			
8,900.00	7,048.89	6,123.15	5,396.30	60.56	46.85	57.96	2,305.76	-199.15	3,715.57	3,632.27	83.30	44.604			
9,000.00	7,049.41	9,896.34	7,152.55	63.13	86.08	91.47	3,434.35	-2,233.21	3,726.47	3,590.53	135.94	27.413			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ RUSCH 8X-HNB-04-07-65 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft
Survey Program: 138-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,100.00	7,049.93	9,968.00	7,154.35	65.72	87.29	91.49	3,437.32	-2,304.78	3,728.66	3,588.40	140.26	26.584	
9,200.00	7,050.45	10,085.38	7,156.23	68.32	89.33	91.51	3,442.29	-2,422.04	3,730.92	3,585.70	145.21	25.692	
9,300.00	7,050.97	10,176.16	7,156.80	70.93	90.97	91.51	3,446.09	-2,512.74	3,733.11	3,583.23	149.88	24.908	
9,400.00	7,051.48	10,262.75	7,156.90	73.55	92.57	91.50	3,450.02	-2,599.24	3,735.64	3,581.12	154.53	24.175	
9,500.00	7,052.00	10,358.46	7,156.50	76.18	94.39	91.49	3,454.56	-2,694.84	3,738.37	3,579.04	159.33	23.462	
9,600.00	7,052.52	10,449.32	7,155.48	78.81	96.15	91.46	3,459.12	-2,785.58	3,741.34	3,577.23	164.11	22.798	
9,700.00	7,053.04	10,540.18	7,155.35	81.46	97.92	91.38	3,463.71	-2,876.33	3,744.33	3,575.27	168.96	22.147	
9,800.00	7,053.56	10,631.04	7,155.22	84.10	99.68	91.37	3,468.30	-2,967.08	3,747.32	3,573.31	173.81	21.500	
9,900.00	7,054.08	10,721.90	7,155.11	86.76	101.44	91.39	3,469.46	-3,057.83	3,740.81	3,569.20	181.61	20.598	
10,000.00	7,054.59	10,812.76	7,154.81	89.42	103.20	91.41	3,469.50	-3,148.58	3,738.90	3,562.36	186.54	20.043	
10,100.00	7,055.11	10,903.62	7,154.49	92.08	104.96	91.43	3,469.90	-3,239.33	3,737.44	3,561.12	191.32	19.535	
10,200.00	7,055.63	11,000.00	7,154.30	94.75	106.72	91.45	3,470.73	-3,329.99	3,736.46	3,560.26	196.19	19.045	
10,300.00	7,056.15	11,096.38	7,160.13	97.42	108.48	91.47	3,471.82	-3,420.74	3,735.40	3,553.86	201.54	18.534	
10,400.00	7,056.67	11,192.76	7,160.82	100.10	110.24	91.47	3,472.40	-3,511.49	3,734.00	3,527.35	206.65	18.069	
10,500.00	7,057.18	11,289.14	7,160.74	102.78	112.00	91.46	3,473.25	-3,602.24	3,732.99	3,521.43	211.56	17.645	
10,600.00	7,057.70	11,385.52	7,159.85	105.46	113.76	91.44	3,474.57	-3,692.99	3,732.11	3,515.13	216.97	17.201	
10,700.00	7,058.22	11,481.90	7,159.63	108.14	115.52	91.43	3,474.84	-3,783.74	3,730.28	3,507.80	222.48	16.767	
10,800.00	7,058.74	11,578.28	7,159.57	110.83	117.28	91.42	3,475.09	-3,874.49	3,728.72	3,501.58	227.14	16.416	
10,882.30	7,059.17	11,664.66	7,159.74	113.04	119.04	91.42	3,475.81	-3,965.24	3,728.34	3,497.46	230.88	16.148	
10,900.00	7,059.26	11,751.04	7,159.74	113.52	120.80	91.42	3,475.81	-4,055.99	3,728.38	3,496.85	231.53	16.103	
11,000.00	7,059.78	11,847.42	7,159.97	116.21	122.56	91.42	3,477.63	-4,146.74	3,729.19	3,492.96	236.22	15.787	
11,100.00	7,060.29	11,943.80	7,159.97	118.90	124.32	91.42	3,480.04	-4,237.49	3,731.10	3,490.29	240.81	15.494	
11,200.00	7,060.81	12,040.18	7,160.17	121.60	126.08	91.41	3,483.03	-4,328.24	3,734.00	3,488.61	245.39	15.217	
11,300.00	7,061.33	12,136.56	7,160.75	124.30	127.84	91.41	3,487.72	-4,418.99	3,737.61	3,487.27	250.34	14.930	
11,400.00	7,061.85	12,232.94	7,163.43	127.00	129.60	91.44	3,495.11	-4,509.74	3,740.74	3,484.42	256.32	14.594	
11,500.00	7,062.37	12,329.32	7,165.89	129.70	131.36	91.47	3,499.19	-4,600.49	3,743.56	3,482.23	261.33	14.325	
11,600.00	7,062.89	12,425.70	7,167.73	132.40	133.12	91.49	3,504.31	-4,691.24	3,746.97	3,480.48	266.49	14.060	
11,700.00	7,063.40	12,522.08	7,168.66	135.10	134.88	91.49	3,509.77	-4,781.99	3,749.47	3,477.36	272.10	13.780	
11,800.00	7,063.92	12,618.46	7,168.83	137.81	136.64	91.49	3,513.02	-4,872.74	3,752.55	3,475.80	276.76	13.559	
11,900.00	7,064.44	12,714.84	7,168.59	140.51	138.40	91.48	3,517.26	-4,963.49	3,756.83	3,475.40	281.43	13.349	
12,000.00	7,064.96	12,811.22	7,167.37	143.22	140.16	91.45	3,524.94	-5,054.24	3,761.25	3,474.16	287.09	13.101	
12,100.00	7,065.48	12,907.60	7,165.61	145.93	141.92	91.42	3,531.09	-5,144.99	3,765.42	3,473.04	292.37	12.879	
12,200.00	7,066.00	13,004.00	7,162.16	148.64	143.68	91.35	3,538.94	-5,235.74	3,768.79	3,470.30	298.49	12.626	
12,300.00	7,066.51	13,100.38	7,158.47	151.35	145.44	91.28	3,544.77	-5,326.49	3,771.38	3,467.12	304.26	12.395	
12,400.00	7,067.03	13,196.76	7,154.64	154.06	147.20	91.21	3,549.94	-5,417.24	3,772.40	3,461.79	310.60	12.145	
12,500.00	7,067.55	13,293.14	7,150.35	156.77	148.96	91.13	3,552.46	-5,507.99	3,771.60	3,454.49	317.11	11.894	
12,600.00	7,068.07	13,389.52	7,147.10	159.49	150.72	91.07	3,552.21	-5,598.74	3,769.26	3,446.20	323.06	11.667	
12,700.00	7,068.59	13,485.90	7,145.26	162.20	152.48	91.04	3,551.32	-5,689.49	3,766.46	3,437.83	328.63	11.461	
12,800.00	7,069.11	13,582.28	7,143.54	164.92	154.24	91.00	3,549.69	-5,780.24	3,763.19	3,428.84	334.35	11.255	
12,900.00	7,069.62	13,678.66	7,142.64	167.63	156.00	90.98	3,548.39	-5,870.99	3,759.61	3,420.14	339.46	11.075	
13,000.00	7,070.14	13,775.04	7,141.54	170.35	157.76	90.96	3,547.49	-5,961.74	3,756.54	3,411.90	344.64	10.900	
13,100.00	7,070.66	13,871.42	7,140.64	173.07	159.52	90.94	3,546.50	-6,052.49	3,753.59	3,403.51	350.07	10.722	
13,200.00	7,071.18	13,967.80	7,140.25	175.78	161.28	90.93	3,545.67	-6,143.24	3,750.61	3,395.38	355.23	10.558	
13,300.00	7,071.70	14,064.18	7,140.37	178.50	163.04	90.91	3,543.40	-6,233.99	3,747.54	3,386.05	361.49	10.367	
13,400.00	7,072.21	14,160.56	7,140.76	181.22	164.80	90.91	3,538.34	-6,324.74	3,741.75	3,374.46	367.29	10.187	
13,500.00	7,072.73	14,256.94	7,140.90	183.94	166.56	90.91	3,537.05	-6,415.49	3,736.73	3,364.76	371.97	10.046	
13,600.00	7,073.25	14,353.32	7,141.06	186.66	168.32	90.91	3,536.65	-6,506.24	3,733.64	3,356.90	376.74	9.910	
13,700.00	7,073.77	14,449.70	7,141.06	189.38	170.08	90.91	3,536.65	-6,596.99	3,732.10	3,351.46	380.64	9.805	
13,743.42	7,073.99	14,500.00	7,141.02	190.56	171.84	90.91	3,537.08	-6,687.74	3,731.91	3,349.13	382.78	9.750	
13,800.00	7,074.29	14,596.38	7,140.86	192.10	173.60	90.90	3,537.61	-6,778.49	3,732.26	3,347.06	385.21	9.689	
13,900.00	7,074.81	14,692.76	7,140.12	194.82	175.36	90.89	3,539.48	-6,869.24	3,734.28	3,344.69	389.59	9.585	
14,000.00	7,075.32	14,789.14	7,138.61	197.54	177.12	90.86	3,544.55	-6,959.99	3,737.20	3,342.17	395.03	9.461	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design: SEC 11-T7N-R65W - EXIST HZ RUSCH 8X-HNB-04-07-65 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 138-MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,075.84	14,941.89	7,138.06	200.27	203.24	90.84	3,548.12	-7,274.99	3,740.19	3,340.32	399.86	9.354	
14,200.00	7,076.36	15,028.06	7,137.36	202.99	205.50	90.82	3,552.90	-7,361.03	3,743.72	3,338.74	404.98	9.244	
14,300.00	7,076.88	15,114.97	7,137.07	205.71	207.78	90.81	3,557.99	-7,447.79	3,747.56	3,337.46	410.10	9.138	
14,400.00	7,077.40	15,201.53	7,138.51	208.44	210.05	90.82	3,563.35	-7,534.16	3,751.77	3,336.57	415.20	9.036	
14,500.00	7,077.92	15,331.59	7,140.89	211.16	213.47	90.85	3,571.39	-7,663.96	3,756.05	3,334.85	421.21	8.917	
14,600.00	7,078.43	15,398.81	7,142.13	213.88	215.25	90.86	3,575.35	-7,731.04	3,760.00	3,334.08	425.92	8.828	
14,700.00	7,078.95	15,481.58	7,143.36	216.61	217.43	90.87	3,581.02	-7,813.61	3,764.84	3,333.90	430.94	8.736	
14,800.00	7,079.47	15,727.23	7,147.40	219.33	223.90	90.91	3,592.71	-8,058.92	3,767.34	3,328.16	439.18	8.578	
14,900.00	7,079.99	15,811.00	7,148.74	222.06	226.10	90.93	3,595.62	-8,142.63	3,768.80	3,324.51	444.29	8.483	
15,000.00	7,080.51	15,941.40	7,151.09	224.78	229.53	90.95	3,599.39	-8,272.96	3,769.67	3,319.45	450.21	8.373	
15,100.00	7,081.03	16,018.30	7,152.67	227.51	231.55	90.97	3,601.67	-8,349.80	3,770.66	3,315.45	455.21	8.283	
15,200.00	7,081.54	16,105.68	7,154.24	230.24	233.85	90.99	3,604.70	-8,437.12	3,772.14	3,311.76	460.38	8.194	
15,300.00	7,082.06	16,224.41	7,155.72	232.96	236.99	91.00	3,608.71	-8,555.78	3,773.54	3,307.43	466.12	8.096	
15,400.00	7,082.58	16,317.89	7,156.06	235.69	239.45	91.00	3,611.49	-8,649.21	3,774.53	3,303.13	471.41	8.007	
15,500.00	7,083.10	16,404.33	7,156.05	238.41	241.74	90.99	3,614.77	-8,735.59	3,776.28	3,299.70	476.58	7.924	
15,600.00	7,083.62	16,530.10	7,156.31	241.14	245.06	90.98	3,618.36	-8,861.30	3,777.02	3,294.57	482.45	7.829	
15,700.00	7,084.13	16,615.68	7,156.48	243.87	247.33	90.98	3,621.15	-8,946.84	3,778.26	3,290.65	487.61	7.749	
15,800.00	7,084.65	16,781.36	7,156.07	246.60	251.71	90.96	3,625.30	-9,112.46	3,778.77	3,284.62	494.14	7.647	
15,900.00	7,085.17	16,871.68	7,156.14	249.32	254.10	90.95	3,627.04	-9,202.76	3,778.67	3,279.26	499.40	7.566	
16,000.00	7,085.69	17,015.50	7,157.04	252.05	257.90	90.96	3,628.62	-9,346.58	3,777.69	3,272.20	505.49	7.473	
16,100.00	7,086.21	17,115.96	7,157.86	254.78	260.55	90.96	3,629.28	-9,447.03	3,776.36	3,265.45	510.91	7.391	
16,200.00	7,086.73	17,226.37	7,158.90	257.51	263.47	90.97	3,629.91	-9,557.43	3,774.94	3,258.47	516.48	7.309	
16,300.00	7,087.24	17,320.00	7,160.29	260.24	265.94	90.98	3,630.29	-9,651.05	3,773.37	3,251.57	521.79	7.232	
16,400.00	7,087.76	17,415.00	7,162.03	262.97	268.45	91.00	3,630.85	-9,746.03	3,771.99	3,244.86	527.13	7.156	
16,500.00	7,088.28	17,521.73	7,164.42	265.69	271.28	91.03	3,631.54	-9,852.73	3,770.67	3,238.04	532.64	7.079	
16,600.00	7,088.80	17,626.43	7,167.04	268.42	274.05	91.06	3,631.91	-9,957.40	3,769.07	3,230.96	538.11	7.004	
16,700.00	7,089.32	17,709.42	7,169.25	271.15	276.25	91.09	3,632.42	-10,040.36	3,767.72	3,224.45	543.27	6.935	
16,800.00	7,089.84	17,800.75	7,171.64	273.88	278.67	91.12	3,633.30	-10,131.65	3,766.73	3,218.17	548.55	6.867	
16,900.00	7,090.35	17,914.19	7,174.60	276.61	281.68	91.16	3,634.29	-10,245.05	3,765.65	3,211.48	554.16	6.795	
17,000.00	7,090.87	18,010.79	7,177.12	279.34	284.25	91.19	3,634.87	-10,341.62	3,764.30	3,204.77	559.53	6.728	
17,024.65	7,091.00	18,028.44	7,177.56	280.01	284.72	91.19	3,635.03	-10,359.26	3,764.03	3,203.28	560.76	6.712 SF	

Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB 17' @ 4885.00usft

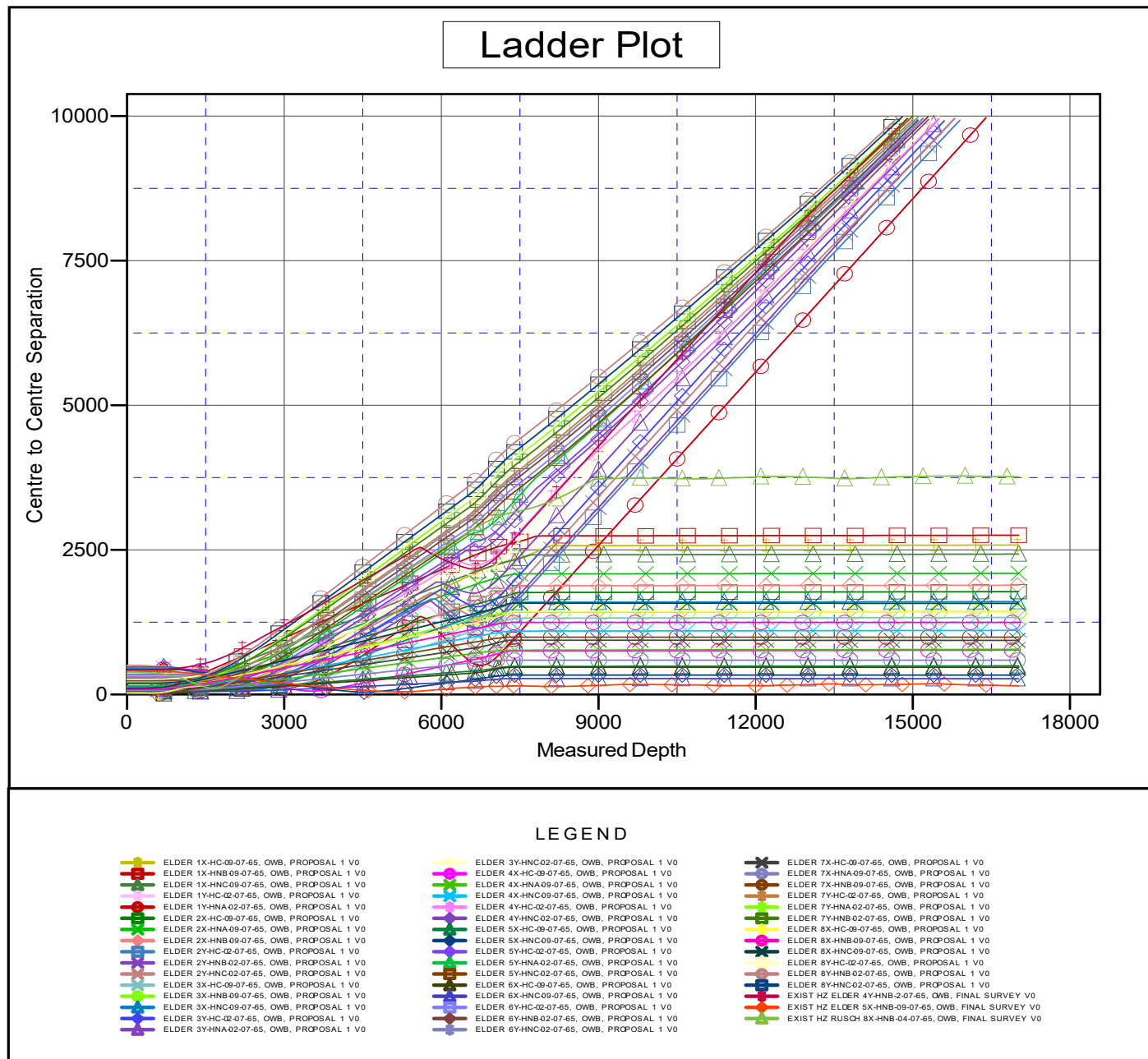
Offset Depths are relative to Offset Datum

Central Meridian is 105.500000°W

Coordinates are relative to: ELDER 6X-HNB-09-07-65

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.56°



Anticollision Report

Company:	NICKEL ROAD OPERATING	Local Co-ordinate Reference:	Well ELDER 6X-HNB-09-07-65
Project:	WELD COUNTY	TVD Reference:	KB 17' @ 4885.00usft
Reference Site:	SEC 11-T7N-R65W	MD Reference:	KB 17' @ 4885.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ELDER 6X-HNB-09-07-65	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.16 Single User Db
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB 17' @ 4885.00usft

Offset Depths are relative to Offset Datum

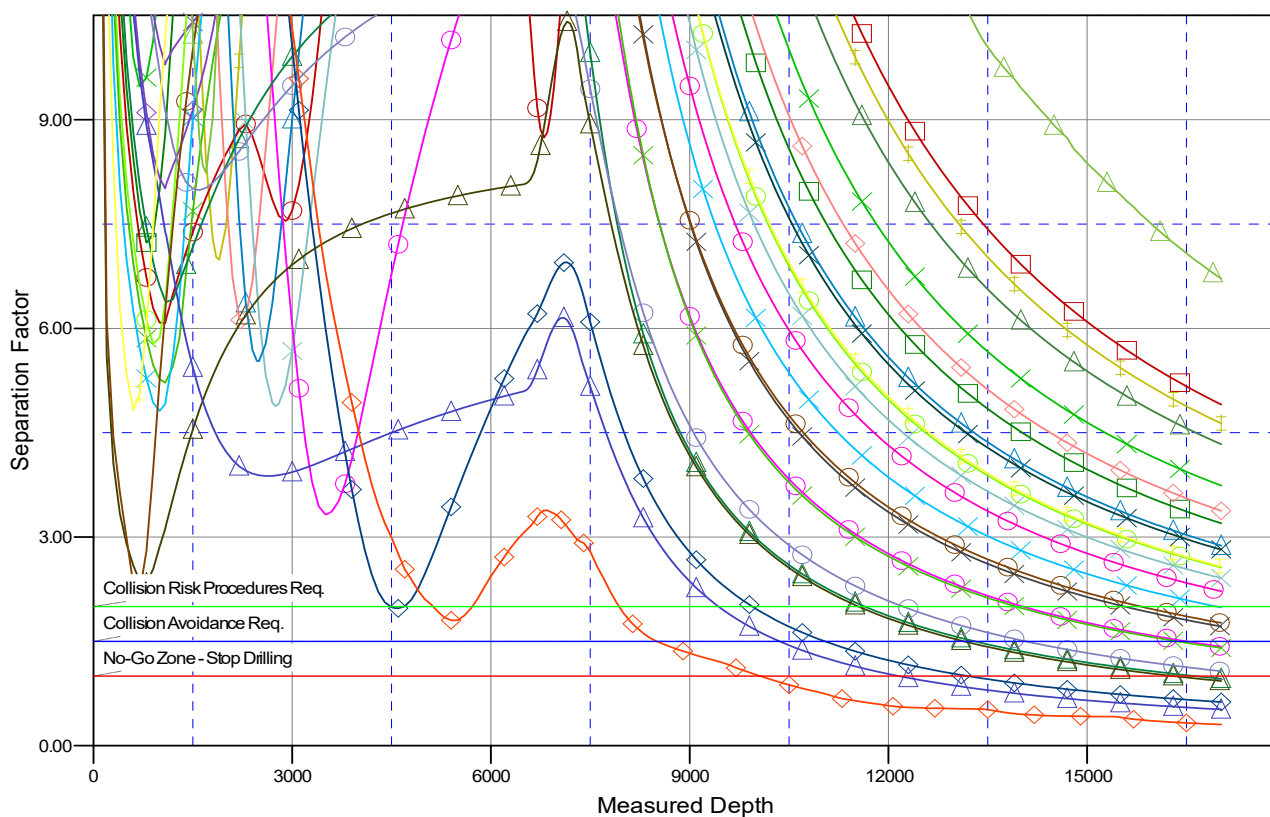
Central Meridian is 105.500000°W

Coordinates are relative to: ELDER 6X-HNB-09-07-65

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.56°

Separation Factor Plot



LEGEND

ELDER 1X-HC-09-07-65, OWB, PROPOSAL 1 V0	ELDER 3Y-HNC-02-07-65, OWB, PROPOSAL 1 V0	ELDER 7X-HC-09-07-65, OWB, PROPOSAL 1 V0
ELDER 1X-HNB-09-07-65, OWB, PROPOSAL 1 V0	ELDER 4X-HC-09-07-65, OWB, PROPOSAL 1 V0	ELDER 7X-HNA-09-07-65, OWB, PROPOSAL 1 V0
ELDER 1X-HNC-09-07-65, OWB, PROPOSAL 1 V0	ELDER 4X-HNA-09-07-65, OWB, PROPOSAL 1 V0	ELDER 7X-HNB-09-07-65, OWB, PROPOSAL 1 V0
ELDER 1Y-HC-02-07-65, OWB, PROPOSAL 1 V0	ELDER 4Y-HC-02-07-65, OWB, PROPOSAL 1 V0	ELDER 7Y-HC-02-07-65, OWB, PROPOSAL 1 V0
ELDER 1Y-HNA-02-07-65, OWB, PROPOSAL 1 V0	ELDER 4Y-HNA-02-07-65, OWB, PROPOSAL 1 V0	ELDER 7Y-HNA-02-07-65, OWB, PROPOSAL 1 V0
ELDER 2X-HNB-09-07-65, OWB, PROPOSAL 1 V0	ELDER 5X-HNC-02-07-65, OWB, PROPOSAL 1 V0	ELDER 7Y-HNB-02-07-65, OWB, PROPOSAL 1 V0
ELDER 2X-HNA-09-07-65, OWB, PROPOSAL 1 V0	ELDER 5X-HNA-02-07-65, OWB, PROPOSAL 1 V0	ELDER 8X-HC-09-07-65, OWB, PROPOSAL 1 V0
ELDER 2Y-HNC-02-07-65, OWB, PROPOSAL 1 V0	ELDER 5Y-HC-02-07-65, OWB, PROPOSAL 1 V0	ELDER 8X-HNB-09-07-65, OWB, PROPOSAL 1 V0
ELDER 2Y-HNB-02-07-65, OWB, PROPOSAL 1 V0	ELDER 5Y-HNA-02-07-65, OWB, PROPOSAL 1 V0	ELDER 8X-HNC-09-07-65, OWB, PROPOSAL 1 V0
ELDER 2Y-HNC-02-07-65, OWB, PROPOSAL 1 V0	ELDER 6X-HC-09-07-65, OWB, PROPOSAL 1 V0	ELDER 8Y-HC-02-07-65, OWB, PROPOSAL 1 V0
ELDER 3X-HC-09-07-65, OWB, PROPOSAL 1 V0	ELDER 6X-HNC-09-07-65, OWB, PROPOSAL 1 V0	ELDER 8Y-HNB-02-07-65, OWB, PROPOSAL 1 V0
ELDER 3X-HNB-09-07-65, OWB, PROPOSAL 1 V0	ELDER 6Y-HC-02-07-65, OWB, PROPOSAL 1 V0	ELDER 8Y-HNA-02-07-65, OWB, PROPOSAL 1 V0
ELDER 3X-HNC-09-07-65, OWB, PROPOSAL 1 V0	ELDER 6Y-HNB-02-07-65, OWB, PROPOSAL 1 V0	EXIST HZ ELDER 4Y-HNB-2-07-65, OWB, FINAL SURVEY V0
ELDER 3Y-HC-02-07-65, OWB, PROPOSAL 1 V0	ELDER 6Y-HNC-02-07-65, OWB, PROPOSAL 1 V0	EXIST HZ ELDER 5X-HNB-09-07-65, OWB, FINAL SURVEY V0
ELDER 3Y-HNA-02-07-65, OWB, PROPOSAL 1 V0		EXIST HZ RUSH 8X-HNB-04-07-65, OWB, FINAL SURVEY V0