



Project: Weld Co., CO
 Site: Sec.20-T7N-R66W
 Well: Lind EE 20-022HN
 Wellbore: Wellbore #1
 Design: Design #1
 Lat: 40° 33' 12.819 N
 Long: 104° 48' 39.611 W
 GL: 4960.30



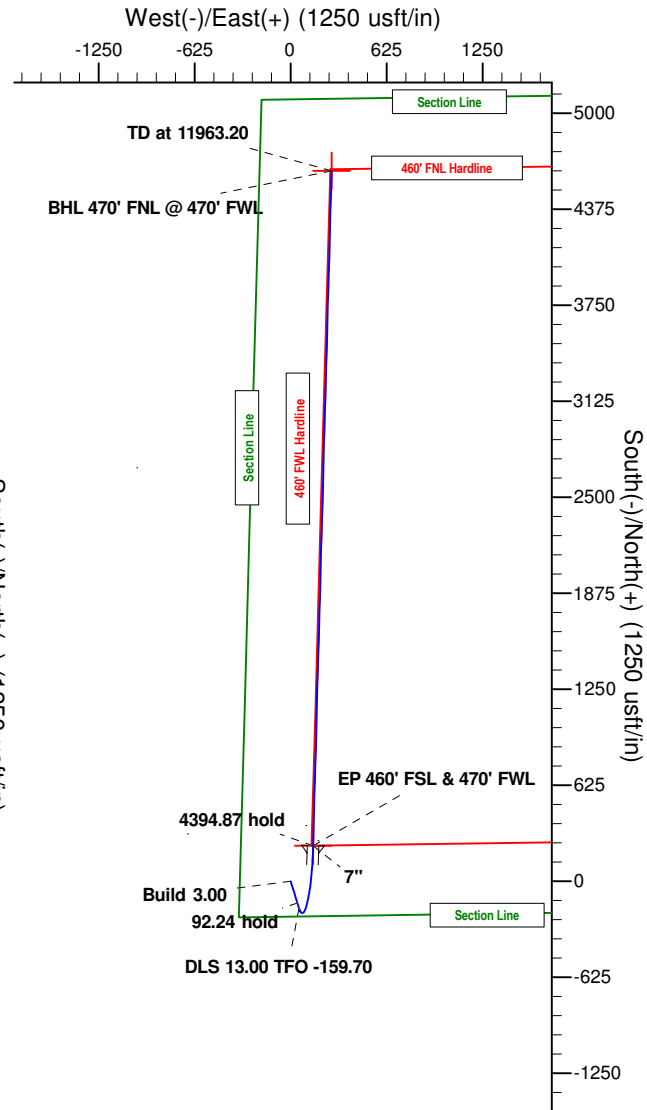
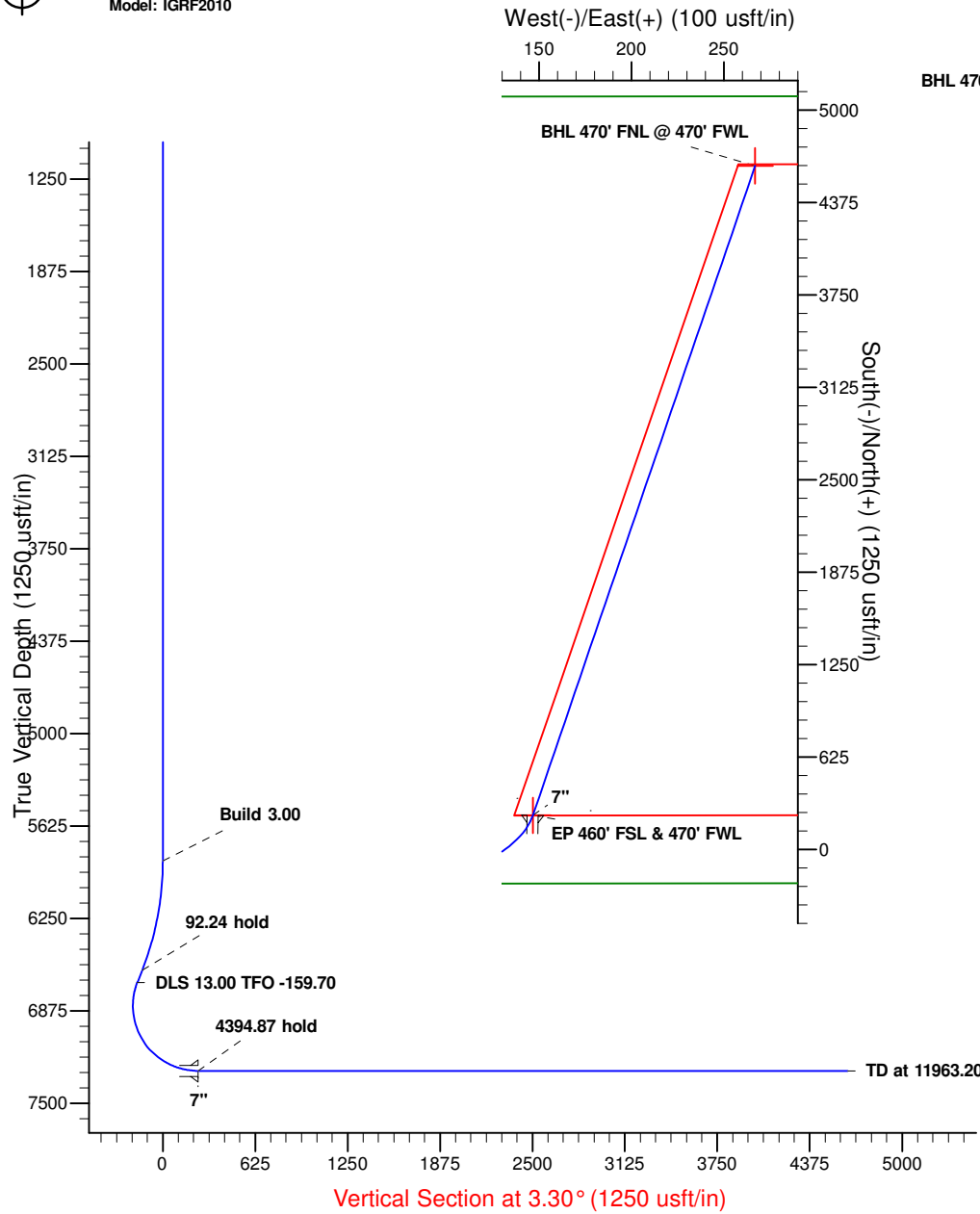
Precision
 Directional Services

KB: WELL @ 4976.50usft (Original Well Elev)



Azimuths to True North
 Magnetic North: 8.52°
 Magnetic Field
 Strength: 52909.3snT
 Dip Angle: 67.07°
 Date: 04/07/2014
 Model: IGRF2010

CASING DETAILS:
 TVD MD Name Size
 7280.50 7568.33 7" 7



WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
BHL 470' FNL @ 470' FWL	7280.50	4624.95	266.99	40° 33' 58.522 N	104° 48' 36.151 W	Shape
EP 460' FSL & 470' FWL	7280.50	231.72	146.72	40° 33' 15.109 N	104° 48' 37.710 W	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5860.00	0.00	0.00	5860.00	0.00	0.00	0.00	0.00	0.00	Build 3.00
6618.58	22.76	162.73	6598.79	-141.98	44.13	3.00	162.73	-139.20	92.24 hold
6710.82	22.76	162.73	6683.85	-176.05	54.72	0.00	0.00	-172.61	DLS 13.00 TFO -159.70
7568.33	90.00	1.57	7280.50	231.72	146.72	13.00	-159.70	239.79	4394.87 hold
11963.20	90.00	1.57	7280.50	4624.95	266.99	0.00	0.00	4632.65	TD at 11963.20



Great Western Oil & Gas

Weld Co., CO

Sec.20-T7N-R66W

Lind EE 20-022HN

Wellbore #1

Plan: Design #1

Standard Planning Report

08 April, 2014



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Company:	Great Western Oil & Gas	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site:	Sec.20-T7N-R66W	North Reference:	True
Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Weld Co., CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec.20-T7N-R66W			
Site Position:		Northing:	1,445,245.67 usft	Latitude:	40° 33' 12.809 N
From:	Lat/Long	Easting:	3,191,426.20 usft	Longitude:	104° 48' 40.000 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45

Well	Lind EE 20-022HN					
Well Position	+N/-S	1.08 usft	Northing:	1,445,246.98 usft	Latitude:	40° 33' 12.819 N
	+E/-W	30.01 usft	Easting:	3,191,456.20 usft	Longitude:	104° 48' 39.611 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,960.30 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/07/14	8.52	67.07	52,909

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	3.30

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,860.00	0.00	0.00	5,860.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,618.58	22.76	162.73	6,598.79	-141.98	44.13	3.00	3.00	0.00	162.73	
6,710.82	22.76	162.73	6,683.85	-176.05	54.72	0.00	0.00	0.00	0.00	
7,568.33	90.00	1.57	7,280.50	231.72	146.72	13.00	7.84	-18.79	-159.70	EP 460' FSL & 470' F
11,963.20	90.00	1.57	7,280.50	4,624.95	266.99	0.00	0.00	0.00	0.00	BHL 470' FNL @ 470'

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Company:	Great Western Oil & Gas	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site:	Sec.20-T7N-R66W	North Reference:	True
Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

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Wellbore:	Wellbore #1		
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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,860.00	0.00	0.00	5,860.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 3.00									
5,900.00	1.20	162.73	5,900.00	-0.40	0.12	-0.39	3.00	3.00	0.00
6,000.00	4.20	162.73	5,999.87	-4.90	1.52	-4.80	3.00	3.00	0.00
6,100.00	7.20	162.73	6,099.37	-14.38	4.47	-14.10	3.00	3.00	0.00
6,200.00	10.20	162.73	6,198.21	-28.82	8.96	-28.26	3.00	3.00	0.00
6,300.00	13.20	162.73	6,296.12	-48.19	14.98	-47.24	3.00	3.00	0.00
6,400.00	16.20	162.73	6,392.83	-72.42	22.51	-71.00	3.00	3.00	0.00
6,500.00	19.20	162.73	6,488.09	-101.45	31.53	-99.46	3.00	3.00	0.00
6,600.00	22.20	162.73	6,581.62	-135.20	42.02	-132.55	3.00	3.00	0.00
6,618.58	22.76	162.73	6,598.79	-141.98	44.13	-139.20	3.00	3.00	0.00
92.24 hold									
6,700.00	22.76	162.73	6,673.87	-172.06	53.48	-168.69	0.00	0.00	0.00
6,710.82	22.76	162.73	6,683.85	-176.05	54.72	-172.61	0.00	0.00	0.00
DLS 13.00 TFO -159.70									
6,725.00	21.04	160.95	6,697.01	-181.08	56.37	-177.53	13.00	-12.13	-12.56
6,750.00	18.06	157.03	6,720.56	-188.89	59.34	-185.16	13.00	-11.90	-15.68
6,775.00	15.20	151.66	6,744.52	-195.34	62.41	-191.42	13.00	-11.47	-21.49
6,800.00	12.51	143.96	6,768.79	-200.42	65.56	-196.31	13.00	-10.73	-30.80
6,825.00	10.16	132.48	6,793.30	-204.10	68.78	-199.80	13.00	-9.41	-45.94
6,850.00	8.42	115.34	6,817.98	-206.37	72.06	-201.88	13.00	-6.97	-68.55
6,875.00	7.71	92.56	6,842.74	-207.23	75.39	-202.54	13.00	-2.82	-91.13
6,900.00	8.32	69.48	6,867.50	-206.67	78.76	-201.79	13.00	2.41	-92.31
6,925.00	9.99	51.82	6,892.19	-204.70	82.16	-199.62	13.00	6.70	-70.62
6,950.00	12.31	39.95	6,916.72	-201.31	85.58	-196.05	13.00	9.26	-47.51
6,975.00	14.97	32.00	6,941.01	-196.53	89.00	-191.08	13.00	10.65	-31.78
7,000.00	17.82	26.48	6,964.99	-190.37	92.42	-184.73	13.00	11.42	-22.09
7,025.00	20.79	22.46	6,988.59	-182.84	95.82	-177.01	13.00	11.87	-16.06
7,050.00	23.83	19.42	7,011.71	-173.98	99.20	-167.97	13.00	12.16	-12.16
7,075.00	26.92	17.04	7,034.30	-163.80	102.54	-157.62	13.00	12.34	-9.54
7,100.00	30.03	15.12	7,056.27	-152.35	105.83	-145.99	13.00	12.47	-7.70
7,125.00	33.18	13.52	7,077.56	-139.65	109.06	-133.13	13.00	12.57	-6.37
7,150.00	36.33	12.18	7,098.10	-125.76	112.22	-119.08	13.00	12.63	-5.38
7,175.00	39.51	11.02	7,117.82	-110.71	115.30	-103.88	13.00	12.69	-4.63
7,200.00	42.69	10.01	7,136.66	-94.55	118.30	-87.58	13.00	12.73	-4.04
7,225.00	45.88	9.12	7,154.55	-77.34	121.19	-70.23	13.00	12.76	-3.58
7,250.00	49.07	8.31	7,171.45	-59.13	123.98	-51.89	13.00	12.78	-3.22
7,275.00	52.27	7.58	7,187.29	-39.98	126.65	-32.62	13.00	12.80	-2.92
7,300.00	55.48	6.91	7,202.03	-19.95	129.20	-12.47	13.00	12.82	-2.68
7,325.00	58.69	6.29	7,215.61	0.89	131.61	8.47	13.00	12.83	-2.48
7,350.00	61.90	5.72	7,228.00	22.48	133.88	30.16	13.00	12.84	-2.31
7,375.00	65.11	5.17	7,239.15	44.75	136.00	52.52	13.00	12.85	-2.18
7,400.00	68.33	4.65	7,249.03	67.63	137.96	75.47	13.00	12.86	-2.07
7,425.00	71.54	4.16	7,257.61	91.04	139.77	98.94	13.00	12.87	-1.98
7,450.00	74.76	3.68	7,264.85	114.91	141.40	122.87	13.00	12.87	-1.91
7,475.00	77.98	3.22	7,270.74	139.16	142.86	147.16	13.00	12.88	-1.85
7,500.00	81.20	2.77	7,275.26	163.71	144.15	171.74	13.00	12.88	-1.80
7,525.00	84.42	2.33	7,278.39	188.48	145.25	196.54	13.00	12.88	-1.77

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Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,550.00	87.64	1.89	7,280.12	213.40	146.17	221.47	13.00	12.88	-1.75
7,568.33	90.00	1.57	7,280.50	231.72	146.72	239.79	13.00	12.88	-1.75
4394.87 hold									
7,600.00	90.00	1.57	7,280.50	263.38	147.59	271.45	0.00	0.00	0.00
7,700.00	90.00	1.57	7,280.50	363.34	150.32	371.40	0.00	0.00	0.00
7,800.00	90.00	1.57	7,280.50	463.30	153.06	471.35	0.00	0.00	0.00
7,900.00	90.00	1.57	7,280.50	563.27	155.80	571.31	0.00	0.00	0.00
8,000.00	90.00	1.57	7,280.50	663.23	158.53	671.26	0.00	0.00	0.00
8,100.00	90.00	1.57	7,280.50	763.19	161.27	771.22	0.00	0.00	0.00
8,200.00	90.00	1.57	7,280.50	863.15	164.01	871.17	0.00	0.00	0.00
8,300.00	90.00	1.57	7,280.50	963.12	166.74	971.12	0.00	0.00	0.00
8,400.00	90.00	1.57	7,280.50	1,063.08	169.48	1,071.08	0.00	0.00	0.00
8,500.00	90.00	1.57	7,280.50	1,163.04	172.22	1,171.03	0.00	0.00	0.00
8,600.00	90.00	1.57	7,280.50	1,263.00	174.95	1,270.99	0.00	0.00	0.00
8,700.00	90.00	1.57	7,280.50	1,362.97	177.69	1,370.94	0.00	0.00	0.00
8,800.00	90.00	1.57	7,280.50	1,462.93	180.43	1,470.89	0.00	0.00	0.00
8,900.00	90.00	1.57	7,280.50	1,562.89	183.16	1,570.85	0.00	0.00	0.00
9,000.00	90.00	1.57	7,280.50	1,662.85	185.90	1,670.80	0.00	0.00	0.00
9,100.00	90.00	1.57	7,280.50	1,762.82	188.64	1,770.76	0.00	0.00	0.00
9,200.00	90.00	1.57	7,280.50	1,862.78	191.37	1,870.71	0.00	0.00	0.00
9,300.00	90.00	1.57	7,280.50	1,962.74	194.11	1,970.67	0.00	0.00	0.00
9,400.00	90.00	1.57	7,280.50	2,062.70	196.85	2,070.62	0.00	0.00	0.00
9,500.00	90.00	1.57	7,280.50	2,162.67	199.58	2,170.57	0.00	0.00	0.00
9,600.00	90.00	1.57	7,280.50	2,262.63	202.32	2,270.53	0.00	0.00	0.00
9,700.00	90.00	1.57	7,280.50	2,362.59	205.06	2,370.48	0.00	0.00	0.00
9,800.00	90.00	1.57	7,280.50	2,462.55	207.79	2,470.44	0.00	0.00	0.00
9,900.00	90.00	1.57	7,280.50	2,562.52	210.53	2,570.39	0.00	0.00	0.00
10,000.00	90.00	1.57	7,280.50	2,662.48	213.27	2,670.34	0.00	0.00	0.00
10,100.00	90.00	1.57	7,280.50	2,762.44	216.00	2,770.30	0.00	0.00	0.00
10,200.00	90.00	1.57	7,280.50	2,862.40	218.74	2,870.25	0.00	0.00	0.00
10,300.00	90.00	1.57	7,280.50	2,962.37	221.48	2,970.21	0.00	0.00	0.00
10,400.00	90.00	1.57	7,280.50	3,062.33	224.21	3,070.16	0.00	0.00	0.00
10,500.00	90.00	1.57	7,280.50	3,162.29	226.95	3,170.11	0.00	0.00	0.00
10,600.00	90.00	1.57	7,280.50	3,262.25	229.69	3,270.07	0.00	0.00	0.00
10,700.00	90.00	1.57	7,280.50	3,362.22	232.42	3,370.02	0.00	0.00	0.00
10,800.00	90.00	1.57	7,280.50	3,462.18	235.16	3,469.98	0.00	0.00	0.00
10,900.00	90.00	1.57	7,280.50	3,562.14	237.90	3,569.93	0.00	0.00	0.00
11,000.00	90.00	1.57	7,280.50	3,662.10	240.63	3,669.89	0.00	0.00	0.00
11,100.00	90.00	1.57	7,280.50	3,762.07	243.37	3,769.84	0.00	0.00	0.00
11,200.00	90.00	1.57	7,280.50	3,862.03	246.11	3,869.79	0.00	0.00	0.00
11,300.00	90.00	1.57	7,280.50	3,961.99	248.84	3,969.75	0.00	0.00	0.00
11,400.00	90.00	1.57	7,280.50	4,061.95	251.58	4,069.70	0.00	0.00	0.00
11,500.00	90.00	1.57	7,280.50	4,161.92	254.32	4,169.66	0.00	0.00	0.00
11,600.00	90.00	1.57	7,280.50	4,261.88	257.05	4,269.61	0.00	0.00	0.00
11,700.00	90.00	1.57	7,280.50	4,361.84	259.79	4,369.56	0.00	0.00	0.00
11,800.00	90.00	1.57	7,280.50	4,461.80	262.53	4,469.52	0.00	0.00	0.00
11,900.00	90.00	1.57	7,280.50	4,561.77	265.26	4,569.47	0.00	0.00	0.00
11,963.20	90.00	1.57	7,280.50	4,624.95	266.99	4,632.65	0.00	0.00	0.00
TD at 11963.20									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Company:	Great Western Oil & Gas	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site:	Sec.20-T7N-R66W	North Reference:	True
Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
BHL 470' FNL @ 470' F	0.00	0.00	7,280.50	4,624.95	266.99	1,449,873.86	3,191,687.25	40° 33' 58.522 N	104° 48' 36.151 W
- plan hits target center									
- Point									
EP 460' FSL & 470' FWL	0.00	0.00	7,280.50	231.72	146.72	1,445,479.83	3,191,601.12	40° 33' 15.109 N	104° 48' 37.710 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(usft)	(usft)			(")	(")
7,568.33	7,280.50	7"		7	7-1/2

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
5,860.00	5,860.00	0.00	0.00	Build 3.00
6,618.58	6,598.79	-141.98	44.13	92.24 hold
6,710.82	6,683.85	-176.05	54.72	DLS 13.00 TFO -159.70
7,568.33	7,280.50	231.72	146.72	4394.87 hold
11,963.20	7,280.50	4,624.95	266.99	TD at 11963.20



Precision
Directional Services

Great Western Oil & Gas

Weld Co., CO
Sec.20-T7N-R66W
Lind EE 20-022HN

Wellbore #1
Design #1

Anticollision Report

08 April, 2014



Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	04/08/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	11,963.20	Design #1 (Wellbore #1)	MWD	Std MWD	

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.20-T7N-R66W						
Lind EE 20-021HN - Wellbore #1 - Design #1	5,762.96	5,762.96	30.03	-0.06	0.998	Level 1, CC
Lind EE 20-021HN - Wellbore #1 - Design #1	5,800.00	5,799.91	30.05	-0.24	0.992	Level 1, ES, SF
Lind EE 20-024HC - Wellbore #1 - Design #1	5,991.02	5,990.61	28.61	-2.67	0.915	Level 1, CC
Lind EE 20-024HC - Wellbore #1 - Design #1	6,000.00	5,999.49	28.63	-2.70	0.914	Level 1, ES, SF
Lind EE 20-025HN - Wellbore #1 - Design #1	5,344.46	5,344.46	59.48	31.58	2.132	CC, ES
Lind EE 20-025HN - Wellbore #1 - Design #1	5,400.00	5,398.86	59.86	31.67	2.124	SF
Lind EE 20-027HN - Wellbore #1 - Design #1	4,433.34	4,433.34	89.50	66.38	3.870	CC, ES
Lind EE 20-027HN - Wellbore #1 - Design #1	4,500.00	4,497.79	90.12	66.65	3.839	SF

Offset Design	Sec.20-T7N-R66W - Lind EE 20-021HN - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-MWD											Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +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	-92.08	-1.09	-30.01	30.03				
100.00	100.00	100.00	100.00	0.22	0.22	-92.08	-1.09	-30.01	30.03	29.59	0.44	68.442	
200.00	200.00	200.00	200.00	0.48	0.48	-92.08	-1.09	-30.01	30.03	29.07	0.96	31.205	
300.00	300.00	300.00	300.00	0.74	0.74	-92.08	-1.09	-30.01	30.03	28.54	1.49	20.209	
400.00	400.00	400.00	400.00	1.00	1.00	-92.08	-1.09	-30.01	30.03	28.02	2.01	14.944	
500.00	500.00	500.00	500.00	1.27	1.27	-92.08	-1.09	-30.01	30.03	27.50	2.53	11.855	
600.00	600.00	600.00	600.00	1.53	1.53	-92.08	-1.09	-30.01	30.03	26.97	3.06	9.824	
700.00	700.00	700.00	700.00	1.79	1.79	-92.08	-1.09	-30.01	30.03	26.45	3.58	8.388	
800.00	800.00	800.00	800.00	2.05	2.05	-92.08	-1.09	-30.01	30.03	25.93	4.10	7.317	
900.00	900.00	900.00	900.00	2.31	2.31	-92.08	-1.09	-30.01	30.03	25.40	4.63	6.490	
1,000.00	1,000.00	1,000.00	1,000.00	2.58	2.58	-92.08	-1.09	-30.01	30.03	24.88	5.15	5.830	
1,100.00	1,100.00	1,100.00	1,100.00	2.84	2.84	-92.08	-1.09	-30.01	30.03	24.36	5.67	5.292	
1,200.00	1,200.00	1,200.00	1,200.00	3.10	3.10	-92.08	-1.09	-30.01	30.03	23.83	6.20	4.845	
1,300.00	1,300.00	1,300.00	1,300.00	3.36	3.36	-92.08	-1.09	-30.01	30.03	23.31	6.72	4.468	
1,400.00	1,400.00	1,400.00	1,400.00	3.62	3.62	-92.08	-1.09	-30.01	30.03	22.79	7.25	4.145	
1,500.00	1,500.00	1,500.00	1,500.00	3.88	3.88	-92.08	-1.09	-30.01	30.03	22.26	7.77	3.865	
1,600.00	1,600.00	1,600.00	1,600.00	4.15	4.15	-92.08	-1.09	-30.01	30.03	21.74	8.29	3.621	
1,700.00	1,700.00	1,700.00	1,700.00	4.41	4.41	-92.08	-1.09	-30.01	30.03	21.21	8.82	3.406	
1,800.00	1,800.00	1,800.00	1,800.00	4.67	4.67	-92.08	-1.09	-30.01	30.03	20.69	9.34	3.215	
1,900.00	1,900.00	1,900.00	1,900.00	4.93	4.93	-92.08	-1.09	-30.01	30.03	20.17	9.86	3.045	

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

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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		
2,000.00	2,000.00	2,000.00	2,000.00	5.19	5.19	-92.08	-1.09	-30.01	30.03	19.64	10.39	2.891		
2,100.00	2,100.00	2,100.00	2,100.00	5.46	5.46	-92.08	-1.09	-30.01	30.03	19.12	10.91	2.752		
2,200.00	2,200.00	2,200.00	2,200.00	5.72	5.72	-92.08	-1.09	-30.01	30.03	18.60	11.43	2.626		
2,300.00	2,300.00	2,300.00	2,300.00	5.98	5.98	-92.08	-1.09	-30.01	30.03	18.07	11.96	2.511		
2,400.00	2,400.00	2,400.00	2,400.00	6.24	6.24	-92.08	-1.09	-30.01	30.03	17.55	12.48	2.406		
2,500.00	2,500.00	2,500.00	2,500.00	6.50	6.50	-92.08	-1.09	-30.01	30.03	17.03	13.01	2.309		
2,600.00	2,600.00	2,600.00	2,600.00	6.76	6.76	-92.08	-1.09	-30.01	30.03	16.50	13.53	2.220		
2,700.00	2,700.00	2,700.00	2,700.00	7.03	7.03	-92.08	-1.09	-30.01	30.03	15.98	14.05	2.137		
2,800.00	2,800.00	2,800.00	2,800.00	7.29	7.29	-92.08	-1.09	-30.01	30.03	15.45	14.58	2.060		
2,900.00	2,900.00	2,900.00	2,900.00	7.55	7.55	-92.08	-1.09	-30.01	30.03	14.93	15.10	1.989		
3,000.00	3,000.00	3,000.00	3,000.00	7.81	7.81	-92.08	-1.09	-30.01	30.03	14.41	15.62	1.922		
3,100.00	3,100.00	3,100.00	3,100.00	8.07	8.07	-92.08	-1.09	-30.01	30.03	13.88	16.15	1.860		
3,200.00	3,200.00	3,200.00	3,200.00	8.34	8.34	-92.08	-1.09	-30.01	30.03	13.36	16.67	1.801		
3,300.00	3,300.00	3,300.00	3,300.00	8.60	8.60	-92.08	-1.09	-30.01	30.03	12.84	17.19	1.747		
3,400.00	3,400.00	3,400.00	3,400.00	8.86	8.86	-92.08	-1.09	-30.01	30.03	12.31	17.72	1.695		
3,500.00	3,500.00	3,500.00	3,500.00	9.12	9.12	-92.08	-1.09	-30.01	30.03	11.79	18.24	1.646		
3,600.00	3,600.00	3,600.00	3,600.00	9.38	9.38	-92.08	-1.09	-30.01	30.03	11.27	18.76	1.600		
3,700.00	3,700.00	3,700.00	3,700.00	9.64	9.64	-92.08	-1.09	-30.01	30.03	10.74	19.29	1.557		
3,800.00	3,800.00	3,800.00	3,800.00	9.91	9.91	-92.08	-1.09	-30.01	30.03	10.22	19.81	1.516		
3,900.00	3,900.00	3,900.00	3,900.00	10.17	10.17	-92.08	-1.09	-30.01	30.03	9.70	20.34	1.477	Level 3	
4,000.00	4,000.00	4,000.00	4,000.00	10.43	10.43	-92.08	-1.09	-30.01	30.03	9.17	20.86	1.440	Level 3	
4,100.00	4,100.00	4,100.00	4,100.00	10.69	10.69	-92.08	-1.09	-30.01	30.03	8.65	21.38	1.404	Level 3	
4,200.00	4,200.00	4,200.00	4,200.00	10.95	10.95	-92.08	-1.09	-30.01	30.03	8.12	21.91	1.371	Level 3	
4,300.00	4,300.00	4,300.00	4,300.00	11.21	11.21	-92.08	-1.09	-30.01	30.03	7.60	22.43	1.339	Level 3	
4,400.00	4,400.00	4,400.00	4,400.00	11.48	11.48	-92.08	-1.09	-30.01	30.03	7.08	22.95	1.308	Level 3	
4,500.00	4,500.00	4,500.00	4,500.00	11.74	11.74	-92.08	-1.09	-30.01	30.03	6.55	23.48	1.279	Level 3	
4,600.00	4,600.00	4,600.00	4,600.00	12.00	12.00	-92.08	-1.09	-30.01	30.03	6.03	24.00	1.251	Level 3	
4,700.00	4,700.00	4,700.00	4,700.00	12.26	12.26	-92.08	-1.09	-30.01	30.03	5.51	24.52	1.225	Level 2	
4,800.00	4,800.00	4,800.00	4,800.00	12.52	12.52	-92.08	-1.09	-30.01	30.03	4.98	25.05	1.199	Level 2	
4,900.00	4,900.00	4,900.00	4,900.00	12.79	12.79	-92.08	-1.09	-30.01	30.03	4.46	25.57	1.174	Level 2	
5,000.00	5,000.00	5,000.00	5,000.00	13.05	13.05	-92.08	-1.09	-30.01	30.03	3.94	26.10	1.151	Level 2	
5,100.00	5,100.00	5,100.00	5,100.00	13.31	13.31	-92.08	-1.09	-30.01	30.03	3.41	26.62	1.128	Level 2	
5,200.00	5,200.00	5,200.00	5,200.00	13.57	13.57	-92.08	-1.09	-30.01	30.03	2.89	27.14	1.106	Level 2	
5,300.00	5,300.00	5,300.00	5,300.00	13.83	13.83	-92.08	-1.09	-30.01	30.03	2.36	27.67	1.085	Level 2	
5,400.00	5,400.00	5,400.00	5,400.00	14.09	14.09	-92.08	-1.09	-30.01	30.03	1.84	28.19	1.065	Level 2	
5,500.00	5,500.00	5,500.00	5,500.00	14.36	14.36	-92.08	-1.09	-30.01	30.03	1.32	28.71	1.046	Level 2	
5,600.00	5,600.00	5,600.00	5,600.00	14.62	14.62	-92.08	-1.09	-30.01	30.03	0.79	29.24	1.027	Level 2	
5,700.00	5,700.00	5,700.00	5,700.00	14.88	14.88	-92.08	-1.09	-30.01	30.03	0.27	29.76	1.009	Level 2	
5,762.96	5,762.96	5,762.96	5,762.96	15.04	15.04	-92.08	-1.09	-30.01	30.03	-0.06	30.09	0.998	Level 1, CC	
5,800.00	5,800.00	5,799.91	5,799.91	15.14	15.14	-92.12	-1.11	-30.03	30.05	-0.24	30.28	0.992	Level 1, ES, SF	
5,860.00	5,860.00	5,859.30	5,859.29	15.30	15.30	-93.93	-2.11	-30.74	30.82	0.23	30.60	1.007	Level 2	
5,900.00	5,900.00	5,898.85	5,898.79	15.40	15.40	101.47	-3.61	-31.81	32.12	1.31	30.81	1.043	Level 2	
6,000.00	5,999.87	5,997.40	5,996.99	15.67	15.66	98.93	-10.25	-36.54	38.55	7.22	31.33	1.230	Level 2	
6,100.00	6,099.37	6,095.26	6,093.96	15.93	15.92	98.76	-20.91	-44.15	49.35	17.49	31.86	1.549		
6,200.00	6,198.21	6,192.15	6,189.18	16.19	16.17	99.73	-35.43	-54.50	64.44	32.05	32.39	1.989		
6,300.00	6,296.12	6,287.79	6,282.17	16.45	16.42	100.99	-53.61	-67.47	83.79	50.86	32.93	2.545		
6,400.00	6,392.83	6,381.95	6,372.52	16.72	16.68	102.15	-75.18	-82.85	107.34	73.86	33.47	3.207		
6,500.00	6,488.09	6,474.42	6,459.86	16.99	16.92	103.06	-99.87	-100.46	134.99	100.96	34.03	3.967		
6,600.00	6,581.62	6,565.02	6,543.92	17.26	17.17	103.72	-127.37	-120.07	166.61	132.02	34.59	4.816		
6,618.58	6,598.79	6,581.63	6,559.16	17.31	17.22	103.81	-132.76	-123.92	172.91	138.21	34.70	4.984		
6,700.00	6,673.87	6,653.79	6,624.64	17.53	17.42	104.55	-157.43	-141.52	201.65	166.46	35.19	5.731		
6,710.82	6,683.85	6,663.30	6,633.19	17.56	17.44	104.58	-160.83	-143.94	205.59	170.33	35.25	5.832		

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

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Sec.20-T7N-R66W - Lind EE 20-021HN - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft			
Reference		Offset		Semi Major Axis			Distance							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						
6,725.00	6,697.01	6,675.73	6,644.32	17.60	17.48	106.93	-165.33	-147.15	210.81	175.49	35.32	5.969						
6,750.00	6,720.56	6,700.00	6,665.96	17.67	17.55	111.47	-174.28	-153.53	220.25	184.80	35.45	6.213						
6,775.00	6,744.52	6,719.28	6,683.05	17.73	17.60	117.26	-181.54	-158.71	229.92	194.35	35.57	6.463						
6,800.00	6,768.79	6,741.74	6,702.98	17.80	17.66	125.05	-189.94	-164.78	239.79	204.08	35.71	6.715						
6,825.00	6,793.30	6,764.09	6,723.13	17.87	17.73	136.62	-197.41	-170.89	249.82	213.98	35.84	6.970						
6,850.00	6,817.98	6,786.58	6,743.76	17.93	17.79	153.90	-203.84	-177.11	260.00	224.03	35.97	7.228						
6,875.00	6,842.74	6,809.25	6,764.86	18.00	17.85	176.85	-209.21	-183.44	270.30	234.20	36.10	7.488						
6,900.00	6,867.50	6,832.13	6,786.40	18.06	17.91	-159.87	-213.46	-189.86	280.69	244.46	36.23	7.748						
6,925.00	6,892.19	6,855.25	6,808.36	18.13	17.98	-141.99	-216.57	-196.38	291.13	254.78	36.35	8.008						
6,950.00	6,916.72	6,878.65	6,830.72	18.19	18.04	-129.87	-218.49	-202.99	301.60	265.12	36.48	8.268						
6,975.00	6,941.01	6,902.35	6,853.45	18.26	18.11	-121.67	-219.18	-209.66	312.06	275.45	36.61	8.525						
7,000.00	6,964.99	6,926.41	6,876.53	18.32	18.17	-115.89	-218.57	-216.41	322.48	285.75	36.73	8.779						
7,025.00	6,988.59	6,950.85	6,899.92	18.38	18.23	-111.61	-216.61	-223.21	332.84	295.98	36.86	9.031						
7,050.00	7,011.71	6,975.72	6,923.59	18.45	18.30	-108.31	-213.23	-230.05	343.09	306.11	36.98	9.277						
7,075.00	7,034.30	7,001.07	6,947.49	18.51	18.37	-105.67	-208.36	-236.92	353.20	316.10	37.10	9.519						
7,100.00	7,056.27	7,026.93	6,971.57	18.57	18.43	-103.51	-201.93	-243.80	363.14	325.91	37.23	9.755						
7,125.00	7,077.56	7,053.34	6,995.76	18.64	18.50	-101.69	-193.86	-250.66	372.87	335.52	37.35	9.984						
7,150.00	7,098.10	7,080.35	7,019.99	18.70	18.57	-100.15	-184.07	-257.49	382.35	344.89	37.46	10.206						
7,175.00	7,117.82	7,108.00	7,044.15	18.76	18.64	-98.81	-172.47	-264.25	391.54	353.97	37.58	10.420						
7,200.00	7,136.66	7,136.32	7,068.14	18.83	18.72	-97.64	-158.98	-270.91	400.41	362.72	37.69	10.624						
7,225.00	7,154.55	7,165.34	7,091.82	18.89	18.79	-96.61	-143.52	-277.43	408.92	371.12	37.80	10.818						
7,250.00	7,171.45	7,195.09	7,115.03	18.95	18.87	-95.71	-126.04	-283.75	417.02	379.11	37.91	11.001						
7,275.00	7,187.29	7,225.58	7,137.61	19.02	18.95	-94.90	-106.49	-289.83	424.67	386.66	38.02	11.171						
7,300.00	7,202.03	7,256.82	7,159.36	19.08	19.03	-94.19	-84.82	-295.61	431.84	393.72	38.12	11.328						
7,325.00	7,215.61	7,288.80	7,180.04	19.15	19.11	-93.55	-61.05	-301.01	438.48	400.25	38.23	11.469						
7,350.00	7,228.00	7,321.50	7,199.44	19.22	19.19	-92.98	-35.21	-305.99	444.55	406.21	38.34	11.595						
7,375.00	7,239.15	7,354.88	7,217.30	19.28	19.28	-92.47	-7.37	-310.46	450.02	411.55	38.47	11.698						
7,400.00	7,249.03	7,388.89	7,233.38	19.35	19.37	-92.01	22.33	-314.36	454.85	416.22	38.63	11.773						
7,425.00	7,257.61	7,423.46	7,247.42	19.42	19.47	-91.59	53.74	-317.61	459.01	420.21	38.80	11.830						
7,450.00	7,264.85	7,458.49	7,259.21	19.49	19.57	-91.22	86.62	-320.16	462.47	423.49	38.97	11.867						
7,475.00	7,270.74	7,493.88	7,268.55	19.56	19.67	-90.88	120.70	-321.96	465.20	426.06	39.14	11.885						
7,500.00	7,275.26	7,529.51	7,275.27	19.63	19.77	-90.58	155.67	-322.98	467.19	427.87	39.32	11.883						
7,525.00	7,278.39	7,565.25	7,279.27	19.70	19.87	-90.30	191.17	-323.17	468.43	428.94	39.49	11.861						
7,550.00	7,280.12	7,600.36	7,280.50	19.78	19.97	-90.06	226.24	-322.58	468.92	429.25	39.67	11.821						
7,568.33	7,280.50	7,618.68	7,280.50	19.83	20.03	-90.00	244.56	-322.07	468.97	429.19	39.78	11.789						
7,600.00	7,280.50	7,650.35	7,280.50	19.92	20.12	-90.00	276.22	-321.21	468.97	429.00	39.97	11.734						
7,700.00	7,280.50	7,750.35	7,280.50	20.23	20.43	-90.00	376.18	-318.47	468.97	428.39	40.57	11.558						
7,800.00	7,280.50	7,850.35	7,280.50	20.55	20.75	-90.00	476.14	-315.73	468.97	427.76	41.21	11.381						
7,900.00	7,280.50	7,950.35	7,280.50	20.87	21.08	-90.00	576.11	-312.99	468.96	427.10	41.86	11.202						
8,000.00	7,280.50	8,050.35	7,280.50	21.21	21.41	-90.00	676.07	-310.25	468.96	426.42	42.54	11.024						
8,100.00	7,280.50	8,150.35	7,280.50	21.56	21.76	-90.00	776.03	-307.52	468.96	425.72	43.24	10.846						
8,200.00	7,280.50	8,250.35	7,280.50	21.92	22.12	-90.00	875.99	-304.78	468.96	425.00	43.96	10.668						
8,300.00	7,280.50	8,350.35	7,280.50	22.29	22.49	-90.00	975.96	-302.04	468.96	424.26	44.70	10.492						
8,400.00	7,280.50	8,450.35	7,280.50	22.67	22.87	-90.00	1,075.92	-299.30	468.96	423.50	45.45	10.317						
8,500.00	7,280.50	8,550.35	7,280.50	23.06	23.25	-90.00	1,175.88	-296.56	468.96	422.73	46.23	10.145						
8,600.00	7,280.50	8,650.35	7,280.50	23.45	23.65	-90.00	1,275.84	-293.83	468.95	421.94	47.02	9.974						
8,700.00	7,280.50	8,750.35	7,280.50	23.86	24.05	-90.00	1,375.81	-291.09	468.95	421.13	47.82	9.806						
8,800.00	7,280.50	8,850.35	7,280.50	24.27	24.46	-90.00	1,475.77	-288.35	468.95	420.31	48.64	9.640						
8,900.00	7,280.50	8,950.35	7,280.50	24.68	24.87	-90.00	1,575.73	-285.61	468.95	419.47	49.48	9.478						
9,000.00	7,280.50	9,050.35	7,280.50	25.11	25.29	-90.00	1,675.69	-282.87	468.95	418.62	50.33	9.318						
9,100.00	7,280.50	9,150.35	7,280.50	25.54	25.72	-90.00	1,775.66	-280.13	468.95	417.76	51.19	9.161						
9,200.00	7,280.50	9,250.35	7,280.50	25.98	26.16	-90.00	1,875.62	-277.40	468.94	416.88	52.06	9.007						

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

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance					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	
9,300.00	7,280.50	9,350.35	7,280.50	26.42	26.60	-90.00	1,975.58	-274.66	468.94	416.00	52.95	8.857	
9,400.00	7,280.50	9,450.35	7,280.50	26.87	27.05	-90.00	2,075.54	-271.92	468.94	415.10	53.84	8.710	
9,500.00	7,280.50	9,550.35	7,280.50	27.32	27.50	-90.00	2,175.51	-269.18	468.94	414.19	54.75	8.565	
9,600.00	7,280.50	9,650.35	7,280.50	27.78	27.95	-90.00	2,275.47	-266.44	468.94	413.27	55.66	8.424	
9,700.00	7,280.50	9,750.35	7,280.50	28.24	28.42	-90.00	2,375.43	-263.71	468.94	412.35	56.59	8.287	
9,800.00	7,280.50	9,850.35	7,280.50	28.71	28.88	-90.00	2,475.39	-260.97	468.94	411.41	57.52	8.152	
9,900.00	7,280.50	9,950.35	7,280.50	29.18	29.35	-90.00	2,575.36	-258.23	468.93	410.47	58.47	8.020	
10,000.00	7,280.50	10,050.35	7,280.50	29.66	29.83	-90.00	2,675.32	-255.49	468.93	409.51	59.42	7.892	
10,100.00	7,280.50	10,150.35	7,280.50	30.14	30.30	-90.00	2,775.28	-252.75	468.93	408.55	60.38	7.767	
10,200.00	7,280.50	10,250.35	7,280.50	30.62	30.79	-90.00	2,875.24	-250.02	468.93	407.59	61.34	7.644	
10,300.00	7,280.50	10,350.35	7,280.50	31.11	31.27	-90.00	2,975.21	-247.28	468.93	406.61	62.32	7.525	
10,400.00	7,280.50	10,450.35	7,280.50	31.60	31.76	-90.00	3,075.17	-244.54	468.93	405.63	63.30	7.408	
10,500.00	7,280.50	10,550.35	7,280.50	32.09	32.25	-90.00	3,175.13	-241.80	468.93	404.64	64.28	7.295	
10,600.00	7,280.50	10,650.35	7,280.50	32.59	32.75	-90.00	3,275.09	-239.06	468.92	403.65	65.28	7.184	
10,700.00	7,280.50	10,750.35	7,280.50	33.09	33.25	-90.00	3,375.06	-236.32	468.92	402.65	66.28	7.075	
10,800.00	7,280.50	10,850.35	7,280.50	33.59	33.75	-90.00	3,475.02	-233.59	468.92	401.64	67.28	6.970	
10,900.00	7,280.50	10,950.35	7,280.50	34.10	34.25	-90.00	3,574.98	-230.85	468.92	400.63	68.29	6.867	
11,000.00	7,280.50	11,050.35	7,280.50	34.60	34.76	-90.00	3,674.94	-228.11	468.92	399.62	69.30	6.766	
11,100.00	7,280.50	11,150.35	7,280.50	35.11	35.27	-90.00	3,774.91	-225.37	468.92	398.59	70.32	6.668	
11,200.00	7,280.50	11,250.35	7,280.50	35.63	35.78	-90.00	3,874.87	-222.63	468.92	397.57	71.35	6.572	
11,300.00	7,280.50	11,350.35	7,280.50	36.14	36.29	-90.00	3,974.83	-219.90	468.91	396.54	72.38	6.479	
11,400.00	7,280.50	11,450.35	7,280.50	36.66	36.81	-90.00	4,074.79	-217.16	468.91	395.50	73.41	6.388	
11,500.00	7,280.50	11,550.35	7,280.50	37.18	37.32	-90.00	4,174.76	-214.42	468.91	394.47	74.45	6.299	
11,600.00	7,280.50	11,650.35	7,280.50	37.70	37.84	-90.00	4,274.72	-211.68	468.91	393.42	75.49	6.212	
11,700.00	7,280.50	11,750.35	7,280.50	38.22	38.36	-90.00	4,374.68	-208.94	468.91	392.38	76.53	6.127	
11,800.00	7,280.50	11,850.35	7,280.50	38.74	38.89	-90.00	4,474.64	-206.21	468.91	391.33	77.58	6.044	
11,900.00	7,280.50	11,950.35	7,280.50	39.27	39.41	-90.00	4,574.61	-203.47	468.91	390.27	78.63	5.963	
11,938.07	7,280.50	11,988.42	7,280.50	39.47	39.61	-90.00	4,612.66	-202.43	468.91	389.87	79.03	5.933	
11,963.20	7,280.50	11,994.51	7,280.50	39.60	39.64	-90.00	4,618.75	-202.26	469.29	390.09	79.20	5.926	

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Sec.20-T7N-R66W - Lind EE 20-024HC - Wellbore #1 - Design #1												Offset Site Error: 0.00 usft	
Survey Program: 0-MWD												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance							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	
0.00	0.00	0.00	0.00	0.00	0.00	90.01	0.00	29.46	29.46				
100.00	100.00	100.00	100.00	0.22	0.22	90.01	0.00	29.46	29.46	29.02	0.44	67.130	
200.00	200.00	200.00	200.00	0.48	0.48	90.01	0.00	29.46	29.46	28.49	0.96	30.607	
300.00	300.00	300.00	300.00	0.74	0.74	90.01	0.00	29.46	29.46	27.97	1.49	19.822	
400.00	400.00	400.00	400.00	1.00	1.00	90.01	0.00	29.46	29.46	27.45	2.01	14.657	
500.00	500.00	500.00	500.00	1.27	1.27	90.01	0.00	29.46	29.46	26.92	2.53	11.628	
600.00	600.00	600.00	600.00	1.53	1.53	90.01	0.00	29.46	29.46	26.40	3.06	9.636	
700.00	700.00	700.00	700.00	1.79	1.79	90.01	0.00	29.46	29.46	25.87	3.58	8.227	
800.00	800.00	800.00	800.00	2.05	2.05	90.01	0.00	29.46	29.46	25.35	4.10	7.177	
900.00	900.00	900.00	900.00	2.31	2.31	90.01	0.00	29.46	29.46	24.83	4.63	6.365	
1,000.00	1,000.00	1,000.00	1,000.00	2.58	2.58	90.01	0.00	29.46	29.46	24.30	5.15	5.718	
1,100.00	1,100.00	1,100.00	1,100.00	2.84	2.84	90.01	0.00	29.46	29.46	23.78	5.67	5.191	
1,200.00	1,200.00	1,200.00	1,200.00	3.10	3.10	90.01	0.00	29.46	29.46	23.26	6.20	4.752	
1,300.00	1,300.00	1,300.00	1,300.00	3.36	3.36	90.01	0.00	29.46	29.46	22.73	6.72	4.382	
1,400.00	1,400.00	1,400.00	1,400.00	3.62	3.62	90.01	0.00	29.46	29.46	22.21	7.25	4.065	
1,500.00	1,500.00	1,500.00	1,500.00	3.88	3.88	90.01	0.00	29.46	29.46	21.69	7.77	3.791	
1,600.00	1,600.00	1,600.00	1,600.00	4.15	4.15	90.01	0.00	29.46	29.46	21.16	8.29	3.552	
1,700.00	1,700.00	1,700.00	1,700.00	4.41	4.41	90.01	0.00	29.46	29.46	20.64	8.82	3.341	
1,800.00	1,800.00	1,800.00	1,800.00	4.67	4.67	90.01	0.00	29.46	29.46	20.12	9.34	3.154	
1,900.00	1,900.00	1,900.00	1,900.00	4.93	4.93	90.01	0.00	29.46	29.46	19.59	9.86	2.986	
2,000.00	2,000.00	2,000.00	2,000.00	5.19	5.19	90.01	0.00	29.46	29.46	19.07	10.39	2.836	
2,100.00	2,100.00	2,100.00	2,100.00	5.46	5.46	90.01	0.00	29.46	29.46	18.54	10.91	2.700	
2,200.00	2,200.00	2,200.00	2,200.00	5.72	5.72	90.01	0.00	29.46	29.46	18.02	11.43	2.576	
2,300.00	2,300.00	2,300.00	2,300.00	5.98	5.98	90.01	0.00	29.46	29.46	17.50	11.96	2.463	
2,400.00	2,400.00	2,400.00	2,400.00	6.24	6.24	90.01	0.00	29.46	29.46	16.97	12.48	2.360	
2,500.00	2,500.00	2,500.00	2,500.00	6.50	6.50	90.01	0.00	29.46	29.46	16.45	13.01	2.265	
2,600.00	2,600.00	2,600.00	2,600.00	6.76	6.76	90.01	0.00	29.46	29.46	15.93	13.53	2.177	
2,700.00	2,700.00	2,700.00	2,700.00	7.03	7.03	90.01	0.00	29.46	29.46	15.40	14.05	2.096	
2,800.00	2,800.00	2,800.00	2,800.00	7.29	7.29	90.01	0.00	29.46	29.46	14.88	14.58	2.021	
2,900.00	2,900.00	2,900.00	2,900.00	7.55	7.55	90.01	0.00	29.46	29.46	14.36	15.10	1.951	
3,000.00	3,000.00	3,000.00	3,000.00	7.81	7.81	90.01	0.00	29.46	29.46	13.83	15.62	1.885	
3,100.00	3,100.00	3,100.00	3,100.00	8.07	8.07	90.01	0.00	29.46	29.46	13.31	16.15	1.824	
3,200.00	3,200.00	3,200.00	3,200.00	8.34	8.34	90.01	0.00	29.46	29.46	12.78	16.67	1.767	
3,300.00	3,300.00	3,300.00	3,300.00	8.60	8.60	90.01	0.00	29.46	29.46	12.26	17.19	1.713	
3,400.00	3,400.00	3,400.00	3,400.00	8.86	8.86	90.01	0.00	29.46	29.46	11.74	17.72	1.662	
3,500.00	3,500.00	3,500.00	3,500.00	9.12	9.12	90.01	0.00	29.46	29.46	11.21	18.24	1.615	
3,600.00	3,600.00	3,600.00	3,600.00	9.38	9.38	90.01	0.00	29.46	29.46	10.69	18.76	1.570	
3,700.00	3,700.00	3,700.00	3,700.00	9.64	9.64	90.01	0.00	29.46	29.46	10.17	19.29	1.527	
3,800.00	3,800.00	3,800.00	3,800.00	9.91	9.91	90.01	0.00	29.46	29.46	9.64	19.81	1.487 Level 3	
3,900.00	3,900.00	3,900.00	3,900.00	10.17	10.17	90.01	0.00	29.46	29.46	9.12	20.34	1.448 Level 3	
4,000.00	4,000.00	4,000.00	4,000.00	10.43	10.43	90.01	0.00	29.46	29.46	8.60	20.86	1.412 Level 3	
4,100.00	4,100.00	4,100.00	4,100.00	10.69	10.69	90.01	0.00	29.46	29.46	8.07	21.38	1.378 Level 3	
4,200.00	4,200.00	4,200.00	4,200.00	10.95	10.95	90.01	0.00	29.46	29.46	7.55	21.91	1.345 Level 3	
4,300.00	4,300.00	4,300.00	4,300.00	11.21	11.21	90.01	0.00	29.46	29.46	7.03	22.43	1.313 Level 3	
4,400.00	4,400.00	4,400.00	4,400.00	11.48	11.48	90.01	0.00	29.46	29.46	6.50	22.95	1.283 Level 3	
4,500.00	4,500.00	4,500.00	4,500.00	11.74	11.74	90.01	0.00	29.46	29.46	5.98	23.48	1.255 Level 3	
4,600.00	4,600.00	4,600.00	4,600.00	12.00	12.00	90.01	0.00	29.46	29.46	5.45	24.00	1.227 Level 2	
4,700.00	4,700.00	4,700.00	4,700.00	12.26	12.26	90.01	0.00	29.46	29.46	4.93	24.52	1.201 Level 2	
4,800.00	4,800.00	4,800.00	4,800.00	12.52	12.52	90.01	0.00	29.46	29.46	4.41	25.05	1.176 Level 2	
4,900.00	4,900.00	4,900.00	4,900.00	12.79	12.79	90.01	0.00	29.46	29.46	3.88	25.57	1.152 Level 2	
5,000.00	5,000.00	5,000.00	5,000.00	13.05	13.05	90.01	0.00	29.46	29.46	3.36	26.10	1.129 Level 2	
5,100.00	5,100.00	5,100.00	5,100.00	13.31	13.31	90.01	0.00	29.46	29.46	2.84	26.62	1.107 Level 2	

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

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Sec.20-T7N-R66W - Lind EE 20-024HC - Wellbore #1 - Design #1		Offset Site Error: 0.00 usft	
Survey Program: 0-MWD													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance							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				
5,200.00	5,200.00	5,200.00	5,200.00	13.57	13.57	90.01	0.00	29.46	29.46	2.31	27.14	1.085	Level 2			
5,300.00	5,300.00	5,300.00	5,300.00	13.83	13.83	90.01	0.00	29.46	29.46	1.79	27.67	1.065	Level 2			
5,400.00	5,400.00	5,400.00	5,400.00	14.09	14.09	90.01	0.00	29.46	29.46	1.27	28.19	1.045	Level 2			
5,500.00	5,500.00	5,500.00	5,500.00	14.36	14.36	90.01	0.00	29.46	29.46	0.74	28.71	1.026	Level 2			
5,600.00	5,600.00	5,600.00	5,600.00	14.62	14.62	90.01	0.00	29.46	29.46	0.22	29.24	1.007	Level 2			
5,700.00	5,700.00	5,700.00	5,700.00	14.88	14.88	90.01	0.00	29.46	29.46	-0.31	29.76	0.990	Level 1			
5,800.00	5,800.00	5,800.00	5,800.00	15.14	15.14	90.01	0.00	29.46	29.46	-0.83	30.28	0.973	Level 1			
5,860.00	5,860.00	5,860.00	5,860.00	15.30	15.30	90.01	0.00	29.46	29.46	-1.14	30.60	0.963	Level 1			
5,900.00	5,900.00	5,900.00	5,900.00	15.40	15.40	-73.51	0.00	29.46	29.33	-1.47	30.81	0.952	Level 1			
5,991.02	5,990.92	5,990.61	5,990.61	15.64	15.64	-81.01	-0.16	29.64	28.61	-2.67	31.28	0.915	Level 1, CC			
6,000.00	5,999.87	5,999.49	5,999.49	15.67	15.66	-82.01	-0.27	29.77	28.63	-2.70	31.33	0.914	Level 1, ES, SF			
6,100.00	6,099.37	6,098.40	6,098.28	15.93	15.92	-93.62	-3.21	33.31	30.94	-0.91	31.85	0.972	Level 1			
6,200.00	6,198.21	6,197.31	6,196.70	16.19	16.18	-103.49	-9.42	40.77	37.29	4.94	32.35	1.153	Level 2			
6,300.00	6,296.12	6,296.11	6,294.38	16.45	16.44	-110.04	-18.88	52.13	47.35	14.53	32.82	1.443	Level 3			
6,400.00	6,392.83	6,394.66	6,390.92	16.72	16.70	-113.79	-31.51	67.31	60.69	27.42	33.27	1.824				
6,500.00	6,488.09	6,492.87	6,485.98	16.99	16.96	-115.68	-47.26	86.22	77.02	43.30	33.71	2.285				
6,600.00	6,581.62	6,590.62	6,579.22	17.26	17.22	-116.46	-66.01	108.75	96.15	61.99	34.16	2.815				
6,618.58	6,598.79	6,608.72	6,596.32	17.31	17.27	-116.52	-69.82	113.32	100.00	65.76	34.25	2.920				
6,700.00	6,673.87	6,687.96	6,670.46	17.53	17.49	-116.28	-87.70	134.79	117.22	82.49	34.73	3.375				
6,710.82	6,683.85	6,698.47	6,680.21	17.56	17.52	-116.13	-90.21	137.82	119.53	84.73	34.80	3.435				
6,725.00	6,697.01	6,712.27	6,692.97	17.60	17.55	-114.44	-93.57	141.85	122.40	87.41	34.99	3.498				
6,750.00	6,720.56	6,736.66	6,715.43	17.67	17.62	-110.18	-99.65	149.16	126.71	91.41	35.30	3.589				
6,775.00	6,744.52	6,761.01	6,737.73	17.73	17.69	-103.89	-105.91	156.67	130.11	94.55	35.57	3.658				
6,800.00	6,768.79	6,785.21	6,759.78	17.80	17.76	-94.72	-112.30	164.35	132.69	96.91	35.77	3.709				
6,825.00	6,793.30	6,809.15	6,781.45	17.87	17.82	-81.24	-118.80	172.16	134.55	98.63	35.92	3.746				
6,850.00	6,817.98	6,832.71	6,802.66	17.93	17.89	-61.63	-125.37	180.05	135.86	99.85	36.01	3.773				
6,875.00	6,842.74	6,855.78	6,823.30	18.00	17.95	-35.92	-131.96	187.97	136.81	100.75	36.06	3.794				
6,900.00	6,867.50	6,878.26	6,843.29	18.06	18.02	-9.52	-138.54	195.87	137.63	101.55	36.08	3.814				
6,925.00	6,892.19	6,900.00	6,862.51	18.13	18.08	11.76	-145.04	203.68	138.59	102.48	36.11	3.838				
6,950.00	6,916.72	6,921.08	6,881.03	18.19	18.14	27.50	-151.48	211.41	139.97	103.82	36.15	3.872				
6,975.00	6,941.01	6,941.25	6,898.64	18.26	18.20	39.38	-157.76	218.96	142.08	105.84	36.24	3.921				
7,000.00	6,964.99	6,960.79	6,915.62	18.32	18.25	48.86	-163.96	226.40	145.21	108.84	36.37	3.993				
7,025.00	6,988.59	6,980.16	6,932.42	18.38	18.31	56.82	-170.12	233.81	149.52	112.98	36.55	4.091				
7,050.00	7,011.71	6,998.68	6,948.49	18.45	18.36	63.53	-176.02	240.89	155.17	118.42	36.75	4.222				
7,075.00	7,034.30	7,016.94	6,964.44	18.51	18.41	69.26	-181.42	247.94	162.27	125.30	36.97	4.389				
7,100.00	7,056.27	7,035.67	6,981.00	18.57	18.47	74.27	-186.20	255.27	170.73	133.54	37.19	4.591				
7,125.00	7,077.56	7,054.94	6,998.19	18.64	18.52	78.68	-190.32	262.92	180.39	142.99	37.40	4.824				
7,150.00	7,098.10	7,074.83	7,016.10	18.70	18.58	82.59	-193.70	270.90	191.10	153.52	37.58	5.085				
7,175.00	7,117.82	7,095.46	7,034.78	18.76	18.64	86.06	-196.27	279.26	202.73	165.00	37.73	5.373				
7,200.00	7,136.66	7,116.96	7,054.33	18.83	18.70	89.17	-197.93	288.04	215.12	177.27	37.85	5.684				
7,225.00	7,154.55	7,139.47	7,074.85	18.89	18.76	91.98	-198.54	297.28	228.14	190.22	37.93	6.015				
7,250.00	7,171.45	7,163.19	7,096.45	18.95	18.83	94.54	-197.94	307.05	241.68	203.71	37.97	6.366				
7,275.00	7,187.29	7,188.36	7,119.29	19.02	18.90	96.91	-195.92	317.42	255.60	217.64	37.96	6.733				
7,300.00	7,202.03	7,215.26	7,143.53	19.08	18.98	99.12	-192.17	328.47	269.80	231.88	37.92	7.115				
7,325.00	7,215.61	7,244.27	7,169.35	19.15	19.06	101.24	-186.32	340.30	284.15	246.32	37.83	7.512				
7,350.00	7,228.00	7,275.82	7,196.96	19.22	19.14	103.30	-177.85	353.00	298.52	260.83	37.69	7.920				
7,375.00	7,239.15	7,310.50	7,226.54	19.28	19.24	105.33	-166.07	366.70	312.77	275.27	37.50	8.340				
7,400.00	7,249.03	7,349.01	7,258.26	19.35	19.34	107.36	-150.02	381.48	326.74	289.48	37.26	8.770				
7,425.00	7,257.61	7,392.21	7,292.13	19.42	19.46	109.41	-128.47	397.39	340.22	303.26	36.96	9.205				
7,450.00	7,264.85	7,441.11	7,327.89	19.49	19.59	111.47	-99.80	414.36	352.96	316.34	36.61	9.640				
7,475.00	7,270.74	7,496.83	7,364.76	19.56	19.75	113.49	-62.02	432.09	364.64	328.41	36.23	10.063				
7,500.00	7,275.26	7,560.38	7,401.05	19.63	19.92	115.40	-13.06	449.88	374.89	339.00	35.89	10.445				

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

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Sec.20-T7N-R66W - Lind EE 20-024HC - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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		
7,525.00	7,278.39	7,632.31	7,433.82	19.70	20.13	117.08	48.71	466.46	383.24	347.57	35.66	10.746		
7,550.00	7,280.12	7,712.20	7,458.88	19.78	20.35	118.39	123.24	479.92	389.19	353.63	35.56	10.944		
7,568.33	7,280.50	7,774.74	7,469.65	19.83	20.54	119.02	184.44	486.54	391.78	356.17	35.61	11.003		
7,600.00	7,280.50	7,844.01	7,472.50	19.92	20.74	119.28	253.51	489.82	392.54	356.68	35.86	10.947		
7,700.00	7,280.50	7,944.01	7,472.50	20.23	21.05	119.27	353.47	492.70	392.67	356.14	36.53	10.750		
7,800.00	7,280.50	8,044.01	7,472.50	20.55	21.37	119.26	453.43	495.58	392.79	355.57	37.22	10.554		
7,900.00	7,280.50	8,144.01	7,472.50	20.87	21.69	119.25	553.39	498.47	392.92	354.99	37.93	10.359		
8,000.00	7,280.50	8,244.01	7,472.50	21.21	22.03	119.24	653.35	501.35	393.04	354.38	38.66	10.165		
8,100.00	7,280.50	8,344.01	7,472.50	21.56	22.38	119.23	753.30	504.23	393.17	353.75	39.42	9.975		
8,200.00	7,280.50	8,444.01	7,472.50	21.92	22.73	119.22	853.26	507.11	393.30	353.11	40.19	9.786		
8,300.00	7,280.50	8,544.01	7,472.50	22.29	23.10	119.21	953.22	509.99	393.42	352.45	40.98	9.601		
8,400.00	7,280.50	8,644.01	7,472.50	22.67	23.47	119.20	1,053.18	512.87	393.55	351.77	41.78	9.420		
8,500.00	7,280.50	8,744.01	7,472.50	23.06	23.85	119.19	1,153.14	515.75	393.68	351.08	42.60	9.241		
8,600.00	7,280.50	8,844.01	7,472.50	23.45	24.24	119.18	1,253.10	518.63	393.80	350.37	43.43	9.067		
8,700.00	7,280.50	8,944.00	7,472.50	23.86	24.64	119.17	1,353.05	521.52	393.93	349.65	44.28	8.896		
8,800.00	7,280.50	9,044.00	7,472.50	24.27	25.05	119.16	1,453.01	524.40	394.05	348.92	45.14	8.730		
8,900.00	7,280.50	9,144.00	7,472.50	24.68	25.46	119.15	1,552.97	527.28	394.18	348.17	46.01	8.567		
9,000.00	7,280.50	9,244.00	7,472.50	25.11	25.88	119.14	1,652.93	530.16	394.31	347.41	46.89	8.408		
9,100.00	7,280.50	9,344.00	7,472.50	25.54	26.30	119.13	1,752.89	533.04	394.43	346.64	47.79	8.254		
9,200.00	7,280.50	9,444.00	7,472.50	25.98	26.73	119.12	1,852.85	535.92	394.56	345.87	48.69	8.103		
9,300.00	7,280.50	9,544.00	7,472.50	26.42	27.17	119.11	1,952.80	538.80	394.69	345.08	49.61	7.956		
9,400.00	7,280.50	9,644.00	7,472.50	26.87	27.61	119.10	2,052.76	541.69	394.81	344.28	50.53	7.814		
9,500.00	7,280.50	9,744.00	7,472.50	27.32	28.06	119.09	2,152.72	544.57	394.94	343.48	51.46	7.675		
9,600.00	7,280.50	9,844.00	7,472.50	27.78	28.51	119.08	2,252.68	547.45	395.07	342.66	52.40	7.539		
9,700.00	7,280.50	9,944.00	7,472.50	28.24	28.97	119.07	2,352.64	550.33	395.19	341.84	53.35	7.408		
9,800.00	7,280.50	10,044.00	7,472.50	28.71	29.43	119.06	2,452.60	553.21	395.32	341.02	54.30	7.280		
9,900.00	7,280.50	10,144.00	7,472.50	29.18	29.90	119.05	2,552.56	556.09	395.44	340.18	55.26	7.155		
10,000.00	7,280.50	10,244.00	7,472.50	29.66	30.37	119.04	2,652.51	558.97	395.57	339.34	56.23	7.035		
10,100.00	7,280.50	10,344.00	7,472.50	30.14	30.84	119.03	2,752.47	561.85	395.70	338.49	57.21	6.917		
10,200.00	7,280.50	10,444.00	7,472.50	30.62	31.32	119.02	2,852.43	564.74	395.82	337.64	58.19	6.803		
10,300.00	7,280.50	10,544.00	7,472.50	31.11	31.80	119.01	2,952.39	567.62	395.95	336.78	59.17	6.691		
10,400.00	7,280.50	10,644.00	7,472.50	31.60	32.29	119.00	3,052.35	570.50	396.08	335.91	60.17	6.583		
10,500.00	7,280.50	10,744.00	7,472.50	32.09	32.78	118.99	3,152.31	573.38	396.20	335.04	61.16	6.478		
10,600.00	7,280.50	10,844.00	7,472.50	32.59	33.27	118.98	3,252.26	576.26	396.33	334.17	62.16	6.376		
10,700.00	7,280.50	10,944.00	7,472.50	33.09	33.76	118.97	3,352.22	579.14	396.46	333.29	63.17	6.276		
10,800.00	7,280.50	11,044.00	7,472.50	33.59	34.26	118.96	3,452.18	582.02	396.58	332.40	64.18	6.179		
10,900.00	7,280.50	11,144.00	7,472.50	34.10	34.76	118.95	3,552.14	584.90	396.71	331.51	65.20	6.085		
11,000.00	7,280.50	11,244.00	7,472.50	34.60	35.27	118.94	3,652.10	587.79	396.84	330.62	66.21	5.993		
11,100.00	7,280.50	11,344.00	7,472.50	35.11	35.77	118.93	3,752.06	590.67	396.96	329.73	67.24	5.904		
11,200.00	7,280.50	11,444.00	7,472.50	35.63	36.28	118.92	3,852.01	593.55	397.09	328.83	68.26	5.817		
11,300.00	7,280.50	11,544.00	7,472.50	36.14	36.79	118.91	3,951.97	596.43	397.22	327.92	69.29	5.732		
11,400.00	7,280.50	11,644.00	7,472.50	36.66	37.30	118.90	4,051.93	599.31	397.34	327.02	70.33	5.650		
11,500.00	7,280.50	11,744.00	7,472.50	37.18	37.82	118.89	4,151.89	602.19	397.47	326.11	71.36	5.570		
11,600.00	7,280.50	11,844.00	7,472.50	37.70	38.33	118.88	4,251.85	605.07	397.60	325.19	72.40	5.491		
11,700.00	7,280.50	11,944.00	7,472.50	38.22	38.85	118.87	4,351.81	607.95	397.72	324.28	73.45	5.415		
11,800.00	7,280.50	12,044.00	7,472.50	38.74	39.37	118.85	4,451.76	610.84	397.85	323.36	74.49	5.341		
11,900.00	7,280.50	12,144.00	7,472.50	39.27	39.89	118.84	4,551.72	613.72	397.98	322.44	75.54	5.268		
11,963.20	7,280.50	12,207.20	7,472.50	39.60	40.23	118.84	4,614.90	615.54	398.06	321.85	76.20	5.224		

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Sec.20-T7N-R66W - Lind EE 20-025HN - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft	
Survey Program: 0-MWD														Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
0.00	0.00	0.00	0.00	0.00	0.00	88.95	1.09	59.47	59.48								
100.00	100.00	100.00	100.00	0.22	0.22	88.95	1.09	59.47	59.48	59.04	0.44	135.550					
200.00	200.00	200.00	200.00	0.48	0.48	88.95	1.09	59.47	59.48	58.51	0.96	61.802					
300.00	300.00	300.00	300.00	0.74	0.74	88.95	1.09	59.47	59.48	57.99	1.49	40.025					
400.00	400.00	400.00	400.00	1.00	1.00	88.95	1.09	59.47	59.48	57.47	2.01	29.596					
500.00	500.00	500.00	500.00	1.27	1.27	88.95	1.09	59.47	59.48	56.94	2.53	23.479					
600.00	600.00	600.00	600.00	1.53	1.53	88.95	1.09	59.47	59.48	56.42	3.06	19.457					
700.00	700.00	700.00	700.00	1.79	1.79	88.95	1.09	59.47	59.48	55.90	3.58	16.612					
800.00	800.00	800.00	800.00	2.05	2.05	88.95	1.09	59.47	59.48	55.37	4.10	14.492					
900.00	900.00	900.00	900.00	2.31	2.31	88.95	1.09	59.47	59.48	54.85	4.63	12.853					
1,000.00	1,000.00	1,000.00	1,000.00	2.58	2.58	88.95	1.09	59.47	59.48	54.33	5.15	11.546					
1,100.00	1,100.00	1,100.00	1,100.00	2.84	2.84	88.95	1.09	59.47	59.48	53.80	5.67	10.481					
1,200.00	1,200.00	1,200.00	1,200.00	3.10	3.10	88.95	1.09	59.47	59.48	53.28	6.20	9.595					
1,300.00	1,300.00	1,300.00	1,300.00	3.36	3.36	88.95	1.09	59.47	59.48	52.75	6.72	8.848					
1,400.00	1,400.00	1,400.00	1,400.00	3.62	3.62	88.95	1.09	59.47	59.48	52.23	7.25	8.209					
1,500.00	1,500.00	1,500.00	1,500.00	3.88	3.88	88.95	1.09	59.47	59.48	51.71	7.77	7.655					
1,600.00	1,600.00	1,600.00	1,600.00	4.15	4.15	88.95	1.09	59.47	59.48	51.18	8.29	7.172					
1,700.00	1,700.00	1,700.00	1,700.00	4.41	4.41	88.95	1.09	59.47	59.48	50.66	8.82	6.746					
1,800.00	1,800.00	1,800.00	1,800.00	4.67	4.67	88.95	1.09	59.47	59.48	50.14	9.34	6.368					
1,900.00	1,900.00	1,900.00	1,900.00	4.93	4.93	88.95	1.09	59.47	59.48	49.61	9.86	6.030					
2,000.00	2,000.00	2,000.00	2,000.00	5.19	5.19	88.95	1.09	59.47	59.48	49.09	10.39	5.726					
2,100.00	2,100.00	2,100.00	2,100.00	5.46	5.46	88.95	1.09	59.47	59.48	48.57	10.91	5.451					
2,200.00	2,200.00	2,200.00	2,200.00	5.72	5.72	88.95	1.09	59.47	59.48	48.04	11.43	5.202					
2,300.00	2,300.00	2,300.00	2,300.00	5.98	5.98	88.95	1.09	59.47	59.48	47.52	11.96	4.974					
2,400.00	2,400.00	2,400.00	2,400.00	6.24	6.24	88.95	1.09	59.47	59.48	46.99	12.48	4.765					
2,500.00	2,500.00	2,500.00	2,500.00	6.50	6.50	88.95	1.09	59.47	59.48	46.47	13.01	4.573					
2,600.00	2,600.00	2,600.00	2,600.00	6.76	6.76	88.95	1.09	59.47	59.48	45.95	13.53	4.396					
2,700.00	2,700.00	2,700.00	2,700.00	7.03	7.03	88.95	1.09	59.47	59.48	45.42	14.05	4.232					
2,800.00	2,800.00	2,800.00	2,800.00	7.29	7.29	88.95	1.09	59.47	59.48	44.90	14.58	4.080					
2,900.00	2,900.00	2,900.00	2,900.00	7.55	7.55	88.95	1.09	59.47	59.48	44.38	15.10	3.939					
3,000.00	3,000.00	3,000.00	3,000.00	7.81	7.81	88.95	1.09	59.47	59.48	43.85	15.62	3.807					
3,100.00	3,100.00	3,100.00	3,100.00	8.07	8.07	88.95	1.09	59.47	59.48	43.33	16.15	3.683					
3,200.00	3,200.00	3,200.00	3,200.00	8.34	8.34	88.95	1.09	59.47	59.48	42.81	16.67	3.568					
3,300.00	3,300.00	3,300.00	3,300.00	8.60	8.60	88.95	1.09	59.47	59.48	42.28	17.19	3.459					
3,400.00	3,400.00	3,400.00	3,400.00	8.86	8.86	88.95	1.09	59.47	59.48	41.76	17.72	3.357					
3,500.00	3,500.00	3,500.00	3,500.00	9.12	9.12	88.95	1.09	59.47	59.48	41.24	18.24	3.261					
3,600.00	3,600.00	3,600.00	3,600.00	9.38	9.38	88.95	1.09	59.47	59.48	40.71	18.76	3.170					
3,700.00	3,700.00	3,700.00	3,700.00	9.64	9.64	88.95	1.09	59.47	59.48	40.19	19.29	3.084					
3,800.00	3,800.00	3,800.00	3,800.00	9.91	9.91	88.95	1.09	59.47	59.48	39.66	19.81	3.002					
3,900.00	3,900.00	3,900.00	3,900.00	10.17	10.17	88.95	1.09	59.47	59.48	39.14	20.34	2.925					
4,000.00	4,000.00	4,000.00	4,000.00	10.43	10.43	88.95	1.09	59.47	59.48	38.62	20.86	2.851					
4,100.00	4,100.00	4,100.00	4,100.00	10.69	10.69	88.95	1.09	59.47	59.48	38.09	21.38	2.782					
4,200.00	4,200.00	4,200.00	4,200.00	10.95	10.95	88.95	1.09	59.47	59.48	37.57	21.91	2.715					
4,300.00	4,300.00	4,300.00	4,300.00	11.21	11.21	88.95	1.09	59.47	59.48	37.05	22.43	2.652					
4,400.00	4,400.00	4,400.00	4,400.00	11.48	11.48	88.95	1.09	59.47	59.48	36.52	22.95	2.591					
4,500.00	4,500.00	4,500.00	4,500.00	11.74	11.74	88.95	1.09	59.47	59.48	36.00	23.48	2.533					
4,600.00	4,600.00	4,600.00	4,600.00	12.00	12.00	88.95	1.09	59.47	59.48	35.48	24.00	2.478					
4,700.00	4,700.00	4,700.00	4,700.00	12.26	12.26	88.95	1.09	59.47	59.48	34.95	24.52	2.425					
4,800.00	4,800.00	4,800.00	4,800.00	12.52	12.52	88.95	1.09	59.47	59.48	34.43	25.05	2.374					
4,900.00	4,900.00	4,900.00	4,900.00	12.79	12.79	88.95	1.09	59.47	59.48	33.90	25.57	2.326					
5,000.00	5,000.00	5,000.00	5,000.00	13.05	13.05	88.95	1.09	59.47	59.48	33.38	26.10	2.279					
5,100.00	5,100.00	5,100.00	5,100.00	13.31	13.31	88.95	1.09	59.47	59.48	32.86	26.62	2.234					

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

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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		
5,200.00	5,200.00	5,200.00	5,200.00	13.57	13.57	88.95	1.09	59.47	59.48	32.33	27.14	2.191		
5,300.00	5,300.00	5,300.00	5,300.00	13.83	13.83	88.95	1.09	59.47	59.48	31.81	27.67	2.150		
5,344.46	5,344.46	5,344.46	5,344.46	13.95	13.95	88.95	1.09	59.47	59.48	31.58	27.90	2.132 CC, ES		
5,400.00	5,400.00	5,398.86	5,398.86	14.09	14.09	89.08	0.96	59.84	59.86	31.67	28.19	2.124 SF		
5,500.00	5,500.00	5,495.81	5,495.69	14.36	14.35	90.47	-0.53	64.01	64.16	35.46	28.70	2.235		
5,600.00	5,600.00	5,592.06	5,591.49	14.62	14.60	92.86	-3.64	72.73	73.32	44.10	29.22	2.509		
5,700.00	5,700.00	5,687.14	5,685.54	14.88	14.85	95.52	-8.30	85.79	87.40	57.67	29.73	2.940		
5,800.00	5,800.00	5,780.61	5,777.22	15.14	15.09	97.97	-14.41	102.91	106.38	76.14	30.24	3.518		
5,860.00	5,860.00	5,835.75	5,830.85	15.30	15.24	99.24	-18.71	114.99	120.09	89.54	30.55	3.931		
5,900.00	5,900.00	5,872.14	5,866.02	15.40	15.34	-62.61	-21.84	123.75	129.99	99.23	30.76	4.226		
6,000.00	5,999.87	5,961.98	5,952.06	15.67	15.58	-61.69	-30.52	148.08	156.28	125.02	31.26	5.000		
6,100.00	6,099.37	6,050.07	6,035.16	15.93	15.82	-61.93	-40.34	175.61	184.63	152.88	31.74	5.816		
6,200.00	6,198.21	6,136.28	6,115.08	16.19	16.05	-62.80	-51.19	206.02	215.04	182.82	32.23	6.673		
6,300.00	6,296.12	6,220.48	6,191.67	16.45	16.29	-63.97	-62.95	238.97	247.59	214.89	32.71	7.570		
6,400.00	6,392.83	6,300.00	6,262.51	16.72	16.52	-65.19	-75.08	272.98	282.36	249.18	33.18	8.510		
6,500.00	6,488.09	6,385.12	6,336.65	16.99	16.77	-66.64	-89.12	312.35	319.29	285.60	33.69	9.478		
6,600.00	6,581.62	6,476.64	6,415.76	17.26	17.04	-68.46	-104.59	355.69	356.14	321.89	34.24	10.400		
6,618.58	6,598.79	6,493.63	6,430.45	17.31	17.09	-68.82	-107.46	363.74	362.88	328.53	34.35	10.564		
6,700.00	6,673.87	6,568.04	6,494.77	17.53	17.32	-71.13	-120.03	398.97	392.62	357.73	34.89	11.252		
6,710.82	6,683.85	6,577.93	6,503.31	17.56	17.35	-71.41	-121.70	403.66	396.61	361.65	34.96	11.344		
6,725.00	6,697.01	6,590.93	6,514.55	17.60	17.39	-70.82	-123.89	409.81	401.85	366.77	35.08	11.455		
6,750.00	6,720.56	6,614.02	6,534.51	17.67	17.46	-68.80	-127.79	420.75	411.05	375.77	35.27	11.653		
6,775.00	6,744.52	6,637.27	6,554.61	17.73	17.53	-65.10	-131.72	431.76	420.15	384.70	35.46	11.850		
6,800.00	6,768.79	6,660.60	6,574.78	17.80	17.60	-58.83	-135.66	442.81	429.12	393.49	35.63	12.044		
6,825.00	6,793.30	6,683.94	6,594.95	17.87	17.67	-48.55	-139.61	453.86	437.93	402.14	35.79	12.235		
6,850.00	6,817.98	6,707.20	6,615.06	17.93	17.74	-32.41	-143.54	464.88	446.57	410.62	35.95	12.422		
6,875.00	6,842.74	6,730.33	6,635.05	18.00	17.82	-10.43	-147.44	475.83	455.03	418.94	36.09	12.607		
6,900.00	6,867.50	6,753.23	6,654.85	18.06	17.89	12.02	-151.31	486.67	463.33	427.10	36.23	12.788		
6,925.00	6,892.19	6,775.85	6,674.40	18.13	17.96	29.20	-155.13	497.38	471.48	435.12	36.36	12.967		
6,950.00	6,916.72	6,798.10	6,693.63	18.19	18.03	40.74	-158.89	507.92	479.52	443.04	36.48	13.145		
6,975.00	6,941.01	6,819.91	6,712.49	18.26	18.10	48.46	-162.58	518.25	487.47	450.88	36.59	13.321		
7,000.00	6,964.99	6,841.22	6,730.90	18.32	18.17	53.84	-166.18	528.34	495.39	458.69	36.70	13.497		
7,025.00	6,988.59	6,861.95	6,748.83	18.38	18.23	57.78	-169.68	538.16	503.31	466.50	36.81	13.673		
7,050.00	7,011.71	6,882.04	6,766.19	18.45	18.30	60.78	-173.08	547.67	511.28	474.37	36.92	13.850		
7,075.00	7,034.30	6,901.43	6,782.95	18.51	18.36	63.15	-176.35	556.85	519.36	482.34	37.02	14.030		
7,100.00	7,056.27	6,920.05	6,799.04	18.57	18.42	65.05	-179.50	565.67	527.60	490.48	37.12	14.213		
7,125.00	7,077.56	6,937.84	6,814.42	18.64	18.48	66.58	-182.50	574.09	536.04	498.82	37.22	14.401		
7,150.00	7,098.10	6,954.74	6,829.03	18.70	18.53	67.82	-185.36	582.10	544.73	507.41	37.32	14.596		
7,175.00	7,117.82	6,972.33	6,844.25	18.76	18.59	68.92	-188.19	590.44	553.71	516.29	37.42	14.796		
7,200.00	7,136.66	6,991.35	6,860.80	18.83	18.65	69.95	-190.53	599.53	562.93	525.40	37.53	14.998		
7,225.00	7,154.55	7,011.16	6,878.09	18.89	18.71	70.87	-192.10	609.05	572.37	534.72	37.65	15.203		
7,250.00	7,171.45	7,031.89	6,896.23	18.95	18.78	71.72	-192.78	619.07	582.00	544.23	37.77	15.410		
7,275.00	7,187.29	7,053.75	6,915.35	19.02	18.85	72.53	-192.45	629.66	591.79	553.89	37.89	15.618		
7,300.00	7,202.03	7,076.97	6,936.61	19.08	18.92	73.33	-190.91	640.91	601.71	563.68	38.02	15.824		
7,325.00	7,215.61	7,101.88	6,957.21	19.15	19.00	74.16	-187.91	652.94	611.72	573.56	38.16	16.029		
7,350.00	7,228.00	7,128.88	6,980.39	19.22	19.08	75.03	-183.09	665.90	621.78	583.47	38.31	16.229		
7,375.00	7,239.15	7,158.50	7,005.45	19.28	19.18	75.99	-175.93	679.96	631.83	593.36	38.47	16.423		
7,400.00	7,249.03	7,191.42	7,032.71	19.35	19.28	77.08	-165.74	695.32	641.80	603.16	38.64	16.609		
7,425.00	7,257.61	7,228.57	7,062.55	19.42	19.39	78.33	-151.47	712.22	651.59	612.77	38.82	16.785		
7,450.00	7,264.85	7,271.18	7,095.29	19.49	19.52	79.78	-131.62	730.88	661.07	622.07	39.00	16.950		
7,475.00	7,270.74	7,320.82	7,131.05	19.56	19.67	81.47	-104.04	751.43	670.08	630.90	39.18	17.104		
7,500.00	7,275.26	7,379.47	7,169.41	19.63	19.84	83.39	-65.75	773.70	678.37	639.03	39.34	17.244		

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

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Sec.20-T7N-R66W - Lind EE 20-025HN - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft	
Survey Program: 0-MWD														Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation			Warning			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)						
7,525.00	7,278.39	7,449.27	7,208.69	19.70	20.05	85.46	-13.00	796.88	685.63	646.14	39.48	17.365					
7,550.00	7,280.12	7,531.96	7,244.99	19.78	20.29	87.50	57.82	818.92	691.40	651.76	39.64	17.441					
7,568.33	7,280.50	7,600.85	7,265.88	19.83	20.49	88.78	122.02	832.24	694.40	654.54	39.86	17.422					
7,600.00	7,280.50	7,724.85	7,280.50	19.92	20.86	90.00	244.20	843.70	696.37	656.11	40.26	17.295					
7,700.00	7,280.50	7,824.85	7,280.50	20.23	21.16	90.00	344.16	846.45	696.39	655.52	40.87	17.038					
7,800.00	7,280.50	7,924.85	7,280.50	20.55	21.47	90.00	444.13	849.20	696.41	654.90	41.50	16.779					
7,900.00	7,280.50	8,024.85	7,280.50	20.87	21.79	90.00	544.09	851.96	696.43	654.27	42.16	16.519					
8,000.00	7,280.50	8,124.85	7,280.50	21.21	22.12	90.00	644.05	854.71	696.44	653.61	42.83	16.259					
8,100.00	7,280.50	8,224.85	7,280.50	21.56	22.47	90.00	744.01	857.46	696.46	652.93	43.53	15.999					
8,200.00	7,280.50	8,324.85	7,280.50	21.92	22.82	90.00	843.98	860.22	696.48	652.23	44.25	15.740					
8,300.00	7,280.50	8,424.85	7,280.50	22.29	23.18	90.00	943.94	862.97	696.49	651.51	44.99	15.482					
8,400.00	7,280.50	8,524.85	7,280.50	22.67	23.55	90.00	1,043.90	865.72	696.51	650.77	45.74	15.227					
8,500.00	7,280.50	8,624.85	7,280.50	23.06	23.93	90.00	1,143.86	868.48	696.53	650.01	46.51	14.975					
8,600.00	7,280.50	8,724.85	7,280.50	23.45	24.31	90.00	1,243.82	871.23	696.54	649.24	47.30	14.726					
8,700.00	7,280.50	8,824.85	7,280.50	23.86	24.71	90.00	1,343.79	873.98	696.56	648.45	48.11	14.480					
8,800.00	7,280.50	8,924.85	7,280.50	24.27	25.11	90.00	1,443.75	876.74	696.58	647.65	48.92	14.238					
8,900.00	7,280.50	9,024.85	7,280.50	24.68	25.52	90.00	1,543.71	879.49	696.59	646.84	49.76	14.000					
9,000.00	7,280.50	9,124.85	7,280.50	25.11	25.93	90.00	1,643.67	882.25	696.61	646.01	50.60	13.766					
9,100.00	7,280.50	9,224.85	7,280.50	25.54	26.35	90.00	1,743.63	885.00	696.63	645.16	51.46	13.537					
9,200.00	7,280.50	9,324.85	7,280.50	25.98	26.78	90.00	1,843.60	887.75	696.64	644.31	52.33	13.311					
9,300.00	7,280.50	9,424.85	7,280.50	26.42	27.22	90.00	1,943.56	890.51	696.66	643.44	53.22	13.091					
9,400.00	7,280.50	9,524.85	7,280.50	26.87	27.65	90.00	2,043.52	893.26	696.68	642.57	54.11	12.875					
9,500.00	7,280.50	9,624.85	7,280.50	27.32	28.10	90.00	2,143.48	896.01	696.69	641.68	55.02	12.664					
9,600.00	7,280.50	9,724.85	7,280.50	27.78	28.55	90.00	2,243.44	898.77	696.71	640.78	55.93	12.457					
9,700.00	7,280.50	9,824.85	7,280.50	28.24	29.00	90.00	2,343.41	901.52	696.73	639.87	56.85	12.255					
9,800.00	7,280.50	9,924.85	7,280.50	28.71	29.46	90.00	2,443.37	904.27	696.74	638.96	57.79	12.057					
9,900.00	7,280.50	10,024.85	7,280.50	29.18	29.93	90.00	2,543.33	907.03	696.76	638.03	58.73	11.864					
10,000.00	7,280.50	10,124.85	7,280.50	29.66	30.39	90.00	2,643.29	909.78	696.78	637.10	59.68	11.676					
10,100.00	7,280.50	10,224.85	7,280.50	30.14	30.86	90.00	2,743.25	912.53	696.80	636.16	60.63	11.492					
10,200.00	7,280.50	10,324.85	7,280.50	30.62	31.34	90.00	2,843.22	915.29	696.81	635.21	61.60	11.312					
10,300.00	7,280.50	10,424.85	7,280.50	31.11	31.82	90.00	2,943.18	918.04	696.83	634.26	62.57	11.137					
10,400.00	7,280.50	10,524.85	7,280.50	31.60	32.30	90.00	3,043.14	920.79	696.85	633.30	63.55	10.966					
10,500.00	7,280.50	10,624.85	7,280.50	32.09	32.79	90.00	3,143.10	923.55	696.86	632.33	64.53	10.799					
10,600.00	7,280.50	10,724.85	7,280.50	32.59	33.28	90.00	3,243.07	926.30	696.88	631.36	65.52	10.635					
10,700.00	7,280.50	10,824.85	7,280.50	33.09	33.77	90.00	3,343.03	929.05	696.90	630.38	66.52	10.476					
10,800.00	7,280.50	10,924.85	7,280.50	33.59	34.27	90.00	3,442.99	931.81	696.91	629.39	67.52	10.321					
10,900.00	7,280.50	11,024.85	7,280.50	34.10	34.76	90.00	3,542.95	934.56	696.93	628.40	68.53	10.170					
11,000.00	7,280.50	11,124.85	7,280.50	34.60	35.26	90.00	3,642.91	937.31	696.95	627.40	69.54	10.022					
11,100.00	7,280.50	11,224.85	7,280.50	35.11	35.77	90.00	3,742.88	940.07	696.96	626.40	70.56	9.877					
11,200.00	7,280.50	11,324.85	7,280.50	35.63	36.27	90.00	3,842.84	942.82	696.98	625.40	71.58	9.736					
11,300.00	7,280.50	11,424.85	7,280.50	36.14	36.78	90.00	3,942.80	945.57	697.00	624.38	72.61	9.599					
11,400.00	7,280.50	11,524.85	7,280.50	36.66	37.29	90.00	4,042.76	948.33	697.01	623.37	73.64	9.465					
11,500.00	7,280.50	11,624.85	7,280.50	37.18	37.81	90.00	4,142.72	951.08	697.03	622.35	74.68	9.334					
11,600.00	7,280.50	11,724.85	7,280.50	37.70	38.32	90.00	4,242.69	953.84	697.05	621.33	75.72	9.206					
11,700.00	7,280.50	11,824.85	7,280.50	38.22	38.84	90.00	4,342.65	956.59	697.06	620.30	76.76	9.081					
11,800.00	7,280.50	11,924.85	7,280.50	38.74	39.36	90.00	4,442.61	959.34	697.08	619.27	77.81	8.959					
11,900.00	7,280.50	12,024.85	7,280.50	39.27	39.88	90.00	4,542.57	962.10	697.10	618.24	78.86	8.840					
11,963.20	7,280.50	12,088.05	7,280.50	39.60	40.21	90.00	4,605.75	963.84	697.11	617.58	79.53	8.766					

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Sec.20-T7N-R66W - Lind EE 20-027HN - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance							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	
0.00	0.00	0.00	0.00	0.00	0.00	88.60	2.19	89.48	89.50				
100.00	100.00	100.00	100.00	0.22	0.22	88.60	2.19	89.48	89.50	89.07	0.44	203.985	
200.00	200.00	200.00	200.00	0.48	0.48	88.60	2.19	89.48	89.50	88.54	0.96	93.003	
300.00	300.00	300.00	300.00	0.74	0.74	88.60	2.19	89.48	89.50	88.02	1.49	60.232	
400.00	400.00	400.00	400.00	1.00	1.00	88.60	2.19	89.48	89.50	87.49	2.01	44.539	
500.00	500.00	500.00	500.00	1.27	1.27	88.60	2.19	89.48	89.50	86.97	2.53	35.333	
600.00	600.00	600.00	600.00	1.53	1.53	88.60	2.19	89.48	89.50	86.45	3.06	29.281	
700.00	700.00	700.00	700.00	1.79	1.79	88.60	2.19	89.48	89.50	85.92	3.58	24.999	
800.00	800.00	800.00	800.00	2.05	2.05	88.60	2.19	89.48	89.50	85.40	4.10	21.809	
900.00	900.00	900.00	900.00	2.31	2.31	88.60	2.19	89.48	89.50	84.88	4.63	19.341	
1,000.00	1,000.00	1,000.00	1,000.00	2.58	2.58	88.60	2.19	89.48	89.50	84.35	5.15	17.375	
1,100.00	1,100.00	1,100.00	1,100.00	2.84	2.84	88.60	2.19	89.48	89.50	83.83	5.67	15.772	
1,200.00	1,200.00	1,200.00	1,200.00	3.10	3.10	88.60	2.19	89.48	89.50	83.31	6.20	14.440	
1,300.00	1,300.00	1,300.00	1,300.00	3.36	3.36	88.60	2.19	89.48	89.50	82.78	6.72	13.315	
1,400.00	1,400.00	1,400.00	1,400.00	3.62	3.62	88.60	2.19	89.48	89.50	82.26	7.25	12.353	
1,500.00	1,500.00	1,500.00	1,500.00	3.88	3.88	88.60	2.19	89.48	89.50	81.73	7.77	11.520	
1,600.00	1,600.00	1,600.00	1,600.00	4.15	4.15	88.60	2.19	89.48	89.50	81.21	8.29	10.793	
1,700.00	1,700.00	1,700.00	1,700.00	4.41	4.41	88.60	2.19	89.48	89.50	80.69	8.82	10.152	
1,800.00	1,800.00	1,800.00	1,800.00	4.67	4.67	88.60	2.19	89.48	89.50	80.16	9.34	9.583	
1,900.00	1,900.00	1,900.00	1,900.00	4.93	4.93	88.60	2.19	89.48	89.50	79.64	9.86	9.074	
2,000.00	2,000.00	2,000.00	2,000.00	5.19	5.19	88.60	2.19	89.48	89.50	79.12	10.39	8.617	
2,100.00	2,100.00	2,100.00	2,100.00	5.46	5.46	88.60	2.19	89.48	89.50	78.59	10.91	8.203	
2,200.00	2,200.00	2,200.00	2,200.00	5.72	5.72	88.60	2.19	89.48	89.50	78.07	11.43	7.828	
2,300.00	2,300.00	2,300.00	2,300.00	5.98	5.98	88.60	2.19	89.48	89.50	77.55	11.96	7.485	
2,400.00	2,400.00	2,400.00	2,400.00	6.24	6.24	88.60	2.19	89.48	89.50	77.02	12.48	7.171	
2,500.00	2,500.00	2,500.00	2,500.00	6.50	6.50	88.60	2.19	89.48	89.50	76.50	13.01	6.882	
2,600.00	2,600.00	2,600.00	2,600.00	6.76	6.76	88.60	2.19	89.48	89.50	75.98	13.53	6.616	
2,700.00	2,700.00	2,700.00	2,700.00	7.03	7.03	88.60	2.19	89.48	89.50	75.45	14.05	6.369	
2,800.00	2,800.00	2,800.00	2,800.00	7.29	7.29	88.60	2.19	89.48	89.50	74.93	14.58	6.141	
2,900.00	2,900.00	2,900.00	2,900.00	7.55	7.55	88.60	2.19	89.48	89.50	74.40	15.10	5.928	
3,000.00	3,000.00	3,000.00	3,000.00	7.81	7.81	88.60	2.19	89.48	89.50	73.88	15.62	5.729	
3,100.00	3,100.00	3,100.00	3,100.00	8.07	8.07	88.60	2.19	89.48	89.50	73.36	16.15	5.543	
3,200.00	3,200.00	3,200.00	3,200.00	8.34	8.34	88.60	2.19	89.48	89.50	72.83	16.67	5.369	
3,300.00	3,300.00	3,300.00	3,300.00	8.60	8.60	88.60	2.19	89.48	89.50	72.31	17.19	5.206	
3,400.00	3,400.00	3,400.00	3,400.00	8.86	8.86	88.60	2.19	89.48	89.50	71.79	17.72	5.052	
3,500.00	3,500.00	3,500.00	3,500.00	9.12	9.12	88.60	2.19	89.48	89.50	71.26	18.24	4.907	
3,600.00	3,600.00	3,600.00	3,600.00	9.38	9.38	88.60	2.19	89.48	89.50	70.74	18.76	4.770	
3,700.00	3,700.00	3,700.00	3,700.00	9.64	9.64	88.60	2.19	89.48	89.50	70.22	19.29	4.640	
3,800.00	3,800.00	3,800.00	3,800.00	9.91	9.91	88.60	2.19	89.48	89.50	69.69	19.81	4.518	
3,900.00	3,900.00	3,900.00	3,900.00	10.17	10.17	88.60	2.19	89.48	89.50	69.17	20.34	4.401	
4,000.00	4,000.00	4,000.00	4,000.00	10.43	10.43	88.60	2.19	89.48	89.50	68.64	20.86	4.291	
4,100.00	4,100.00	4,100.00	4,100.00	10.69	10.69	88.60	2.19	89.48	89.50	68.12	21.38	4.186	
4,200.00	4,200.00	4,200.00	4,200.00	10.95	10.95	88.60	2.19	89.48	89.50	67.60	21.91	4.086	
4,300.00	4,300.00	4,300.00	4,300.00	11.21	11.21	88.60	2.19	89.48	89.50	67.07	22.43	3.990	
4,400.00	4,400.00	4,400.00	4,400.00	11.48	11.48	88.60	2.19	89.48	89.50	66.55	22.95	3.899	
4,433.34	4,433.34	4,433.34	4,433.34	11.56	11.56	88.60	2.19	89.48	89.50	66.38	23.13	3.870 CC, ES	
4,500.00	4,500.00	4,497.79	4,497.79	11.74	11.73	88.67	2.09	90.07	90.12	66.65	23.47	3.839 SF	
4,600.00	4,600.00	4,593.14	4,593.00	12.00	11.98	89.22	1.29	94.76	95.03	71.05	23.98	3.962	
4,700.00	4,700.00	4,687.77	4,687.16	12.26	12.23	90.16	-0.29	104.05	104.84	80.34	24.50	4.280	
4,800.00	4,800.00	4,781.25	4,779.59	12.52	12.48	91.28	-2.62	117.72	119.51	94.50	25.01	4.779	
4,900.00	4,900.00	4,873.15	4,869.70	12.79	12.72	92.39	-5.65	135.50	138.96	113.44	25.52	5.446	
5,000.00	5,000.00	4,963.10	4,956.95	13.05	12.96	93.39	-9.31	157.02	163.08	137.05	26.03	6.265	

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

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Sec.20-T7N-R66W - Lind EE 20-027HN - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft	
Survey Program: 0-MWD														Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Distance											
Measured Depth 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	Warning				
5,100.00	5,100.00	5,050.78	5,040.93	13.31	13.19	94.26	-13.54	181.87	191.70	165.16	26.54	7.223					
5,200.00	5,200.00	5,135.92	5,121.27	13.57	13.43	94.98	-18.26	209.61	224.65	197.59	27.05	8.304					
5,300.00	5,300.00	5,218.31	5,197.75	13.83	13.66	95.57	-23.40	239.78	261.72	234.16	27.56	9.496					
5,400.00	5,400.00	5,300.00	5,272.22	14.09	13.89	96.07	-29.03	272.89	302.72	274.64	28.08	10.781					
5,500.00	5,500.00	5,374.22	5,338.57	14.36	14.10	96.46	-34.61	305.66	347.40	318.82	28.58	12.155					
5,600.00	5,600.00	5,451.45	5,406.19	14.62	14.33	96.81	-40.87	342.44	395.60	366.50	29.10	13.596					
5,700.00	5,700.00	5,533.34	5,477.07	14.88	14.58	97.11	-47.75	382.86	445.59	415.96	29.63	15.038					
5,800.00	5,800.00	5,619.91	5,552.01	15.14	14.84	97.37	-55.03	425.58	495.63	465.44	30.18	16.420					
5,860.00	5,860.00	5,671.85	5,596.97	15.30	15.01	97.50	-59.39	451.21	525.65	495.13	30.52	17.225					
5,900.00	5,900.00	5,706.56	5,627.02	15.40	15.12	-64.58	-62.31	468.35	545.51	515.11	30.40	17.942					
6,000.00	5,999.87	5,794.09	5,702.79	15.67	15.39	-63.39	-69.66	511.55	593.79	562.89	30.89	19.222					
6,100.00	6,099.37	5,882.47	5,779.29	15.93	15.68	-62.71	-77.09	555.17	640.04	608.65	31.39	20.390					
6,200.00	6,198.21	5,971.46	5,856.33	16.19	15.97	-62.45	-84.56	599.09	684.28	652.39	31.89	21.457					
6,300.00	6,296.12	6,060.81	5,933.67	16.45	16.26	-62.53	-92.07	643.19	726.60	694.21	32.38	22.437					
6,400.00	6,392.83	6,150.28	6,011.13	16.72	16.56	-62.89	-99.59	687.35	767.11	734.23	32.87	23.335					
6,500.00	6,488.09	6,239.63	6,088.47	16.99	16.87	-63.48	-107.09	731.45	805.99	772.62	33.37	24.153					
6,600.00	6,581.62	6,328.61	6,165.50	17.26	17.17	-64.26	-114.57	775.37	843.44	809.55	33.89	24.889					
6,618.58	6,598.79	6,345.09	6,179.76	17.31	17.23	-64.43	-115.95	783.50	850.25	816.27	33.99	25.018					
6,700.00	6,673.87	6,417.22	6,242.20	17.53	17.48	-65.98	-122.01	819.10	880.35	845.85	34.50	25.514					
6,710.82	6,683.85	6,426.81	6,250.50	17.56	17.51	-66.18	-122.82	823.83	884.40	849.82	34.57	25.581					
6,725.00	6,697.01	6,439.43	6,261.42	17.60	17.55	-65.51	-123.88	830.06	889.72	855.01	34.71	25.632					
6,750.00	6,720.56	6,461.95	6,280.92	17.67	17.63	-63.50	-125.77	841.18	899.19	864.24	34.95	25.728					
6,775.00	6,744.52	6,484.74	6,300.65	17.73	17.71	-59.95	-127.69	852.43	908.69	873.51	35.18	25.828					
6,800.00	6,768.79	6,507.73	6,320.55	17.80	17.79	-53.97	-129.62	863.77	918.19	882.78	35.41	25.931					
6,825.00	6,793.30	6,530.85	6,340.56	17.87	17.87	-44.10	-131.56	875.18	927.64	892.01	35.63	26.035					
6,850.00	6,817.98	6,554.02	6,360.62	17.93	17.96	-28.47	-133.51	886.62	937.01	901.17	35.84	26.141					
6,875.00	6,842.74	6,577.17	6,380.66	18.00	18.04	-7.08	-135.45	898.05	946.27	910.22	36.05	26.248					
6,900.00	6,867.50	6,600.22	6,400.61	18.06	18.12	14.72	-137.39	909.42	955.39	919.15	36.25	26.357					
6,925.00	6,892.19	6,623.10	6,420.42	18.13	18.20	31.20	-139.31	920.72	964.37	927.94	36.43	26.469					
6,950.00	6,916.72	6,645.74	6,440.01	18.19	18.28	42.01	-141.21	931.89	973.19	936.58	36.61	26.584					
6,975.00	6,941.01	6,668.06	6,459.33	18.26	18.36	48.98	-143.09	942.90	981.84	945.08	36.77	26.703					
7,000.00	6,964.99	6,689.99	6,478.32	18.32	18.44	53.61	-144.93	953.73	990.34	953.42	36.91	26.828					
7,025.00	6,988.59	6,711.46	6,496.90	18.38	18.51	56.81	-146.73	964.32	998.68	961.63	37.05	26.957					
7,050.00	7,011.71	6,732.40	6,515.03	18.45	18.59	59.10	-148.49	974.66	1,006.87	969.70	37.16	27.092					
7,075.00	7,034.30	6,752.74	6,532.64	18.51	18.66	60.80	-150.20	984.70	1,014.92	977.65	37.27	27.233					
7,100.00	7,056.27	6,772.42	6,549.68	18.57	18.73	62.08	-151.86	994.42	1,022.85	985.49	37.36	27.380					
7,125.00	7,077.56	6,791.38	6,566.09	18.64	18.80	63.06	-153.45	1,003.77	1,030.68	993.25	37.43	27.533					
7,150.00	7,098.10	6,809.55	6,581.82	18.70	18.87	63.81	-154.97	1,012.74	1,038.43	1,000.93	37.50	27.692					
7,175.00	7,117.82	6,826.88	6,596.82	18.76	18.93	64.39	-156.43	1,021.29	1,046.11	1,008.56	37.55	27.859					
7,200.00	7,136.66	6,843.31	6,611.04	18.83	18.99	64.82	-157.81	1,029.40	1,053.75	1,016.16	37.59	28.033					
7,225.00	7,154.55	6,858.78	6,624.43	18.89	19.04	65.12	-159.11	1,037.04	1,061.36	1,023.74	37.62	28.215					
7,250.00	7,171.45	6,873.25	6,636.96	18.95	19.10	65.31	-160.33	1,044.18	1,068.96	1,031.33	37.63	28.408					
7,275.00	7,187.29	6,886.68	6,648.58	19.02	19.14	65.39	-161.45	1,050.81	1,076.58	1,038.95	37.63	28.611					
7,300.00	7,202.03	6,899.01	6,659.25	19.08	19.19	65.36	-162.49	1,056.89	1,084.22	1,046.61	37.61	28.827					
7,325.00	7,215.61	6,910.20	6,668.95	19.15	19.23	65.23	-163.43	1,062.42	1,091.90	1,054.32	37.58	29.058					
7,350.00	7,228.00	6,920.23	6,677.63	19.22	19.27	65.00	-164.27	1,067.37	1,099.63	1,062.11	37.52	29.305					
7,375.00	7,239.15	6,929.06	6,685.27	19.28	19.30	64.67	-165.02	1,071.73	1,107.42	1,069.97	37.45	29.571					
7,400.00	7,249.03	6,936.66	6,691.85	19.35	19.33	64.24	-165.65	1,075.48	1,115.26	1,077.91	37.35	29.858					
7,425.00	7,257.61	6,943.01	6,697.35	19.42	19.35	63.71	-166.19	1,078.61	1,123.16	1,085.93	37.23	30.168					
7,450.00	7,264.85	6,948.09	6,701.74	19.49	19.37	63.08	-166.61	1,081.12	1,131.11	1,094.03	37.08	30.502					
7,475.00	7,270.74	6,951.87	6,705.02	19.56	19.38	62.35	-166.93	1,082.98	1,139.11	1,102.20	36.91	30.862					
7,500.00	7,275.26	6,954.35	6,707.16	19.63	19.39	61.53	-167.14	1,084.21	1,147.13	1,110.42	36.71	31.248					

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

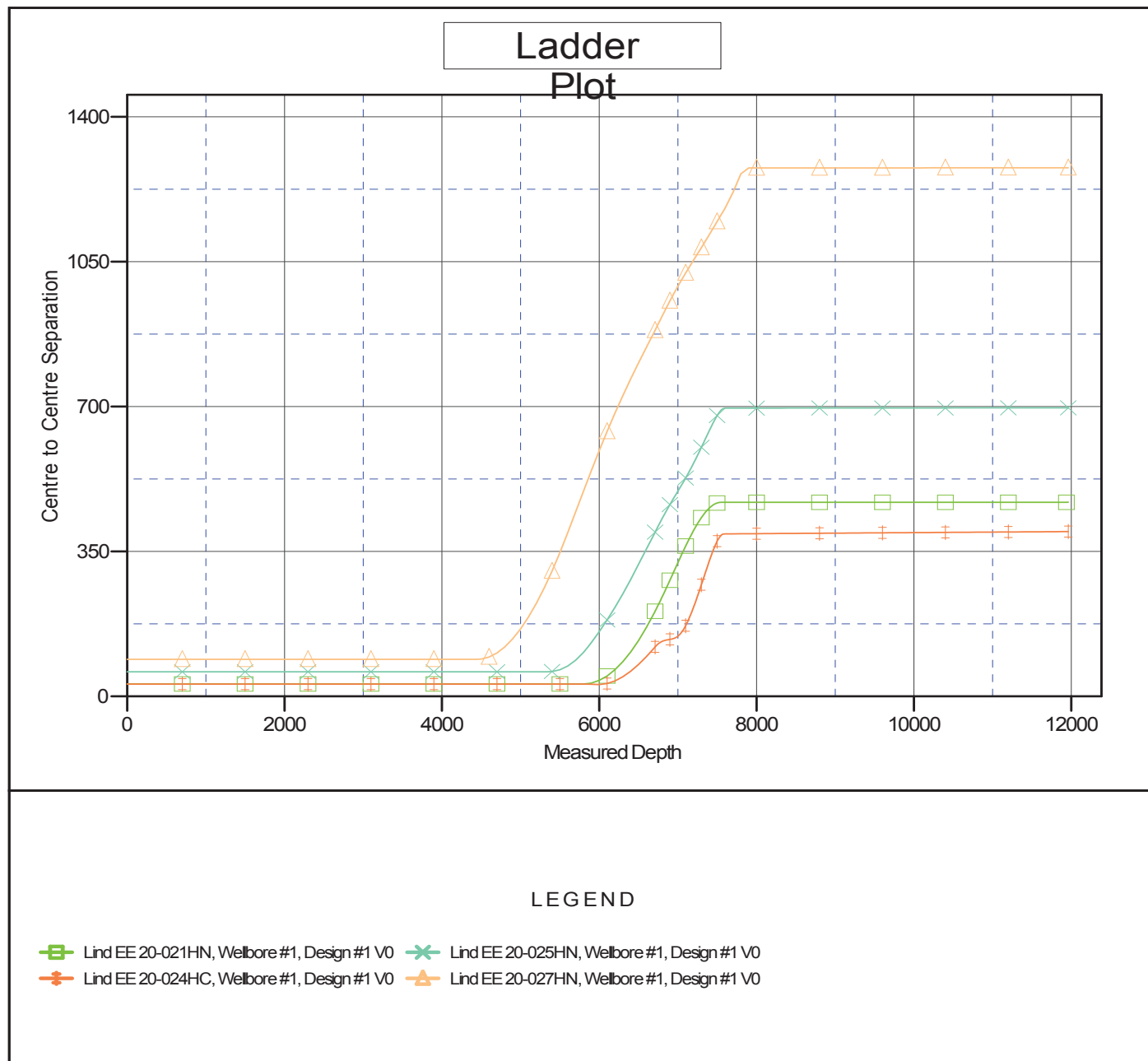
Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Sec.20-T7N-R66W - Lind EE 20-027HN - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance							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	
7,525.00	7,278.39	6,955.52	6,708.18	19.70	19.39	60.62	-167.24	1,084.79	1,155.17	1,118.68	36.49	31.660	
7,550.00	7,280.12	6,955.38	6,708.05	19.78	19.39	59.62	-167.23	1,084.72	1,163.19	1,126.95	36.24	32.096	
7,568.33	7,280.50	6,954.44	6,707.24	19.83	19.39	58.84	-167.15	1,084.25	1,169.05	1,133.01	36.05	32.430	
7,600.00	7,280.50	6,952.21	6,705.31	19.92	19.38	58.73	-166.96	1,083.15	1,179.54	1,143.41	36.13	32.649	
7,700.00	7,280.50	6,945.16	6,699.21	20.23	19.36	58.36	-166.37	1,079.67	1,217.45	1,181.06	36.38	33.460	
7,800.00	7,280.50	6,938.11	6,693.11	20.55	19.33	58.00	-165.78	1,076.19	1,262.12	1,225.47	36.65	34.434	
7,900.00	7,280.50	8,145.37	7,280.50	20.87	23.23	90.00	528.14	1,431.78	1,276.46	1,233.77	42.69	29.900	
8,000.00	7,280.50	8,245.37	7,280.50	21.21	23.55	90.00	628.10	1,434.53	1,276.48	1,233.11	43.36	29.437	
8,100.00	7,280.50	8,345.37	7,280.50	21.56	23.87	90.00	728.06	1,437.28	1,276.49	1,232.44	44.06	28.974	
8,200.00	7,280.50	8,445.37	7,280.50	21.92	24.21	90.00	828.03	1,440.03	1,276.51	1,231.74	44.77	28.513	
8,300.00	7,280.50	8,545.37	7,280.50	22.29	24.55	90.00	927.99	1,442.78	1,276.52	1,231.02	45.50	28.054	
8,400.00	7,280.50	8,645.37	7,280.50	22.67	24.90	90.00	1,027.95	1,445.53	1,276.54	1,230.29	46.25	27.600	
8,500.00	7,280.50	8,745.37	7,280.50	23.06	25.26	90.00	1,127.91	1,448.29	1,276.55	1,229.53	47.02	27.150	
8,600.00	7,280.50	8,845.37	7,280.50	23.45	25.63	90.00	1,227.87	1,451.04	1,276.57	1,228.77	47.80	26.705	
8,700.00	7,280.50	8,945.37	7,280.50	23.86	26.01	90.00	1,327.84	1,453.79	1,276.58	1,227.98	48.60	26.266	
8,800.00	7,280.50	9,045.37	7,280.50	24.27	26.40	90.00	1,427.80	1,456.54	1,276.60	1,227.18	49.42	25.833	
8,900.00	7,280.50	9,145.37	7,280.50	24.68	26.79	90.00	1,527.76	1,459.29	1,276.61	1,226.37	50.25	25.408	
9,000.00	7,280.50	9,245.37	7,280.50	25.11	27.19	90.00	1,627.72	1,462.05	1,276.63	1,225.54	51.09	24.989	
9,100.00	7,280.50	9,345.37	7,280.50	25.54	27.59	90.00	1,727.68	1,464.80	1,276.64	1,224.70	51.94	24.578	
9,200.00	7,280.50	9,445.37	7,280.50	25.98	28.00	90.00	1,827.65	1,467.55	1,276.66	1,223.85	52.81	24.175	
9,300.00	7,280.50	9,545.37	7,280.50	26.42	28.42	90.00	1,927.61	1,470.30	1,276.68	1,222.99	53.69	23.780	
9,400.00	7,280.50	9,645.37	7,280.50	26.87	28.84	90.00	2,027.57	1,473.05	1,276.69	1,222.11	54.58	23.393	
9,500.00	7,280.50	9,745.37	7,280.50	27.32	29.27	90.00	2,127.53	1,475.80	1,276.71	1,221.23	55.48	23.014	
9,600.00	7,280.50	9,845.37	7,280.50	27.78	29.71	90.00	2,227.50	1,478.56	1,276.72	1,220.33	56.39	22.643	
9,700.00	7,280.50	9,945.37	7,280.50	28.24	30.15	90.00	2,327.46	1,481.31	1,276.74	1,219.43	57.31	22.280	
9,800.00	7,280.50	10,045.37	7,280.50	28.71	30.59	90.00	2,427.42	1,484.06	1,276.75	1,218.52	58.23	21.925	
9,900.00	7,280.50	10,145.37	7,280.50	29.18	31.04	90.00	2,527.38	1,486.81	1,276.77	1,217.59	59.17	21.578	
10,000.00	7,280.50	10,245.37	7,280.50	29.66	31.50	90.00	2,627.34	1,489.56	1,276.78	1,216.66	60.12	21.239	
10,100.00	7,280.50	10,345.37	7,280.50	30.14	31.95	90.00	2,727.31	1,492.32	1,276.80	1,215.73	61.07	20.907	
10,200.00	7,280.50	10,445.37	7,280.50	30.62	32.42	90.00	2,827.27	1,495.07	1,276.81	1,214.78	62.03	20.584	
10,300.00	7,280.50	10,545.37	7,280.50	31.11	32.88	90.00	2,927.23	1,497.82	1,276.83	1,213.83	63.00	20.268	
10,400.00	7,280.50	10,645.37	7,280.50	31.60	33.35	90.00	3,027.19	1,500.57	1,276.84	1,212.87	63.97	19.959	
10,500.00	7,280.50	10,745.37	7,280.50	32.09	33.83	90.00	3,127.15	1,503.32	1,276.86	1,211.90	64.95	19.658	
10,600.00	7,280.50	10,845.37	7,280.50	32.59	34.30	90.00	3,227.12	1,506.07	1,276.87	1,210.93	65.94	19.364	
10,700.00	7,280.50	10,945.37	7,280.50	33.09	34.78	90.00	3,327.08	1,508.83	1,276.89	1,209.95	66.93	19.077	
10,800.00	7,280.50	11,045.37	7,280.50	33.59	35.27	90.00	3,427.04	1,511.58	1,276.90	1,208.97	67.93	18.796	
10,900.00	7,280.50	11,145.37	7,280.50	34.10	35.75	90.00	3,527.00	1,514.33	1,276.92	1,207.98	68.94	18.523	
11,000.00	7,280.50	11,245.37	7,280.50	34.60	36.24	90.00	3,626.97	1,517.08	1,276.93	1,206.99	69.95	18.256	
11,100.00	7,280.50	11,345.37	7,280.50	35.11	36.73	90.00	3,726.93	1,519.83	1,276.95	1,205.99	70.96	17.995	
11,200.00	7,280.50	11,445.37	7,280.50	35.63	37.23	90.00	3,826.89	1,522.58	1,276.96	1,204.98	71.98	17.740	
11,300.00	7,280.50	11,545.37	7,280.50	36.14	37.73	90.00	3,926.85	1,525.34	1,276.98	1,203.97	73.01	17.492	
11,400.00	7,280.50	11,645.37	7,280.50	36.66	38.23	90.00	4,026.81	1,528.09	1,276.99	1,202.96	74.03	17.249	
11,500.00	7,280.50	11,745.37	7,280.50	37.18	38.73	90.00	4,126.78	1,530.84	1,277.01	1,201.94	75.07	17.012	
11,600.00	7,280.50	11,845.37	7,280.50	37.70	39.23	90.00	4,226.74	1,533.59	1,277.02	1,200.92	76.10	16.780	
11,700.00	7,280.50	11,945.37	7,280.50	38.22	39.74	90.00	4,326.70	1,536.34	1,277.04	1,199.90	77.14	16.554	
11,800.00	7,280.50	12,045.37	7,280.50	38.74	40.25	90.00	4,426.66	1,539.10	1,277.05	1,198.87	78.19	16.333	
11,900.00	7,280.50	12,145.37	7,280.50	39.27	40.76	90.00	4,526.62	1,541.85	1,277.07	1,197.83	79.24	16.117	
11,963.20	7,280.50	12,208.57	7,280.50	39.60	41.09	90.00	4,589.80	1,543.59	1,277.08	1,197.18	79.90	15.984	

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4976.50usft (Original Well E
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Lind EE 20-022HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.45°



Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Lind EE 20-022HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4976.50usft (Original Well Elev)
Reference Site:	Sec.20-T7N-R66W	MD Reference:	WELL @ 4976.50usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Lind EE 20-022HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4976.50usft (Original Well E

Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Lind EE 20-022HN

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

