

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-31 COUNTY LINE 3229 PAD

COUNTY LINE 3229-20H

Plan A

Design #2

Anticollision Summary Report

24 May, 2022

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-20H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3229 PAD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3229-20H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Reference	Design #2		
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 centre distance of 1,500.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	5/23/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	2,275.00	Design #2 (Plan A)	ISCWSA MWD	Fixed:v2:standard declination	
2,275.00	15,677.72	Design #2 (Plan A)	ISCWSA MWD	Fixed:v2:standard declination	

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
1N-65W-08 Incomplete Offsets						
ENGLISH FARMS 8-10HZ - KMG PR Well - Actual BKR S	15,678.14	20,360.00	972.70	821.09	6.416	CC, ES, SF
ENGLISH FARMS 8-11HZ - KMG PR Well - Actual BKR S	15,678.14	20,232.00	1,210.13	1,007.46	5.971	CC, ES, SF
ENGLISH FARMS 8-12HZ - KMG PR Well - Actual BKR S	15,678.14	20,526.00	1,356.60	1,133.32	6.076	CC, ES, SF
ENGLISH FARMS 8-13HZ - KMG PR Well - Actual BKR S						Out of range
ENGLISH FARMS 8-14HZ - KMG PR Well - Actual BKR S						Out of range
ENGLISH FARMS 8-15HZX - KMG PR Sidetrack - Actua						Out of range
ENGLISH FARMS 8-16HZ - KMG PR Well - Actual BKR S						Out of range
ENGLISH FARMS 8-17HZ - KMG PR Well - Actual BKR S						Out of range
ENGLISH FARMS 8-19HZ - KMG PR Well - Actual BKR S						Out of range
ENGLISH FARMS 8-2HZ - KMG PR Well - Actual BKR S						Out of range
ENGLISH FARMS 8-3HZ - KMG PR Well - Actual BKR S						Out of range
ENGLISH FARMS 8-4HZ - KMG PR Well - Actual BKR S	15,678.14	20,443.00	1,403.91	1,103.74	4.677	CC, ES, SF
ENGLISH FARMS 8-5HZ - KMG PR Well - Actual BKR S	15,678.14	20,677.00	1,181.39	882.57	3.953	CC, ES, SF
ENGLISH FARMS 8-6HZ - KMG PR Well - Actual BKR S	15,678.14	20,552.00	1,007.89	747.00	3.863	CC, ES, SF
ENGLISH FARMS 8-7HZ - KMG PR Well - Actual BKR S	15,678.14	20,442.00	905.05	719.60	4.880	CC, ES, SF
ENGLISH FARMS 8-8HZ - KMG PR Well - Actual BKR S	15,678.14	20,364.00	861.05	723.15	6.244	CC, ES, SF
ENGLISH FARMS 8-9HZ - KMG PR Well - Actual BKR S	15,678.14	20,538.00	909.23	768.94	6.481	CC, ES, SF
1N-65W-29 Offsets						
GERALD PICKERING GU #1 - Kerr McGee SI Well - No						Out of range
HIGHLAND 01N-65W-29-1N - VERDAD PR Well - Actua	13,102.56	9,639.29	1,407.89	1,240.87	8.429	CC
HIGHLAND 01N-65W-29-1N - VERDAD PR Well - Actua	14,263.99	8,477.00	1,412.34	1,239.63	8.178	ES
HIGHLAND 01N-65W-29-1N - VERDAD PR Well - Actua	15,300.00	7,370.00	1,445.59	1,256.13	7.630	SF
KILKER #1 - Kerr McGee P/A Well - No Surveys	14,400.00	7,187.00	952.89	553.55	2.386	ES, SF
KILKER #1 - Kerr McGee P/A Well - No Surveys	14,417.13	7,187.00	952.74	554.00	2.389	CC

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-20H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3229 PAD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3229-20H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
1N-65W-31 COUNTY LINE 3107 PAD						
COUNTY LINE 3107-05H - Wellbore #1 - Design #3	380.85	374.85	360.24	352.49	46.484	CC, ES
COUNTY LINE 3107-05H - Wellbore #1 - Design #3	500.00	483.41	364.06	356.13	45.957	SF
COUNTY LINE 3107-06H - Wellbore #1 - Design #3	380.85	375.85	345.26	337.51	44.546	CC, ES
COUNTY LINE 3107-06H - Wellbore #1 - Design #3	500.00	490.11	348.02	340.09	43.885	SF
COUNTY LINE 3107-07H - Wellbore #1 - Design #3	380.85	375.85	330.24	322.49	42.609	CC, ES
COUNTY LINE 3107-07H - Wellbore #1 - Design #3	600.00	584.82	339.91	331.78	41.842	SF
COUNTY LINE 3107-08H - Wellbore #1 - Design #3	380.85	376.85	315.25	307.50	40.671	CC, ES
COUNTY LINE 3107-08H - Wellbore #1 - Design #3	600.00	591.23	323.85	315.72	39.821	SF
COUNTY LINE 3107-09H - Wellbore #1 - Design #3	380.85	376.85	300.26	292.51	38.738	CC, ES
COUNTY LINE 3107-09H - Wellbore #1 - Design #3	600.00	595.79	308.54	300.40	37.905	SF
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	100.00	70.88	285.26	277.74	37.901	CC, ES
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	1,900.00	1,729.00	664.01	629.83	19.426	SF
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	100.00	70.88	285.26	277.74	37.901	CC, ES
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	700.00	679.04	297.89	289.63	36.061	SF
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	422.61	397.49	269.61	261.86	34.797	CC, ES
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	1,900.00	1,729.00	633.02	598.90	18.553	SF
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	422.61	397.49	269.61	261.86	34.797	CC, ES
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	800.00	782.23	286.06	277.56	33.660	SF
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,113.43	1,145.12	227.35	217.72	23.596	CC, ES
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,800.00	1,775.00	334.97	300.97	9.854	SF
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,113.43	1,145.12	227.35	217.72	23.596	CC, ES
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	4,400.00	4,436.19	667.24	636.00	21.358	SF
1N-65W-31 COUNTY LINE 3108 PAD						
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	239.32	236.32	240.25	232.66	31.635	CC
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	380.85	377.64	240.31	232.56	30.994	ES
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	2,100.00	2,185.57	315.49	298.64	18.719	SF
COUNTY LINE 3108-14H - Wellbore #1 - Design #1	1,603.06	1,683.14	154.73	142.37	12.513	CC, ES
COUNTY LINE 3108-14H - Wellbore #1 - Design #1	1,900.00	1,979.29	170.53	155.81	11.579	SF
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	1,747.94	1,826.83	121.73	108.15	8.963	CC
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	1,800.00	1,878.82	122.22	108.13	8.675	ES
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	7,200.00	7,264.10	503.37	405.89	5.164	SF
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	7,950.20	8,061.73	55.17	-10.44	0.841	Level 1, CC
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	8,000.00	8,062.80	74.31	-28.86	0.720	Level 1, ES, SF
COUNTY LINE 3108-17H - Wellbore #1 - Design #1	2,011.21	2,077.58	64.71	42.03	2.854	CC
COUNTY LINE 3108-17H - Wellbore #1 - Design #1	2,300.00	2,365.44	68.70	35.55	2.072	ES
COUNTY LINE 3108-17H - Wellbore #1 - Design #1	2,600.00	2,664.48	80.00	38.80	1.942	SF
1N-65W-31 COUNTY LINE 3112 PAD						
COUNTY LINE 3112-01H - Wellbore #1 - Design #3	200.00	191.00	420.25	412.69	55.555	CC, ES
COUNTY LINE 3112-01H - Wellbore #1 - Design #3	400.00	366.39	425.86	418.11	54.977	SF
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	202.53	194.53	405.26	397.70	53.561	CC, ES
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	400.00	374.33	408.41	400.65	52.671	SF
COUNTY LINE 3112-03H - Wellbore #1 - Design #3	300.00	293.00	390.25	382.60	51.018	CC, ES
COUNTY LINE 3112-03H - Wellbore #1 - Design #3	500.00	469.53	398.40	390.50	50.422	SF
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	302.20	295.20	375.26	367.61	49.043	CC
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	380.85	371.09	375.35	367.60	48.455	ES
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	500.00	476.25	380.85	372.94	48.151	SF

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-20H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3229 PAD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3229-20H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
1N-65W-31 COUNTY LINE 3130 PAD						
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - Ac	300.37	271.37	104.61	96.98	13.715	CC, ES
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - Ac	380.85	350.43	105.39	97.68	13.661	SF
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - PI	300.37	271.37	104.61	96.98	13.715	CC, ES
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - PI	380.85	350.43	105.39	97.68	13.661	SF
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - Ac	393.57	365.00	88.14	80.41	11.409	CC, ES
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - Ac	400.00	371.40	88.15	80.41	11.398	SF
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - PI	393.57	365.00	88.14	80.41	11.409	CC, ES
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - PI	400.00	371.40	88.15	80.41	11.398	SF
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	100.00	70.79	75.10	67.57	9.978	CC, ES
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	600.00	575.18	77.45	69.34	9.549	SF
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	100.00	70.79	75.10	67.57	9.978	CC, ES
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	600.00	575.18	77.45	69.34	9.549	SF
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	622.26	598.11	51.90	43.77	6.387	CC, ES
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	700.00	675.92	52.89	44.55	6.342	SF
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	622.26	598.11	51.90	43.77	6.387	CC, ES
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	700.00	675.92	52.89	44.55	6.342	SF
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	637.70	612.19	29.26	21.05	3.564	CC, ES, SF
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	637.70	612.19	29.26	21.05	3.564	CC, ES, SF
1N-65W-31 COUNTY LINE 3229 PAD						
COUNTY LINE 3229-18H - Plan A - Design #2	389.00	389.20	29.04	21.28	3.740	CC, ES
COUNTY LINE 3229-18H - Plan A - Design #2	15,678.14	15,229.62	962.52	619.68	2.807	SF
COUNTY LINE 3229-19H - Plan A - Design #2	380.85	380.85	14.99	7.24	1.933	CC, ES
COUNTY LINE 3229-19H - Plan A - Design #2	15,678.14	15,423.74	481.25	136.07	1.394	Level 3, SF
COUNTY LINE 3229-21H - Plan A - Design #2	305.11	305.11	15.00	7.34	1.959	CC, ES
COUNTY LINE 3229-21H - Plan A - Design #2	15,678.14	15,918.44	481.27	130.99	1.374	Level 3, SF
COUNTY LINE 3229-22H - Plan A - Design #2	300.00	300.00	30.00	22.35	3.920	CC, ES
COUNTY LINE 3229-22H - Plan A - Design #2	15,678.14	16,165.54	962.52	612.67	2.751	SF
COUNTY LINE 3229-23H - Plan A - Design #2	212.44	212.44	45.00	37.43	5.940	CC
COUNTY LINE 3229-23H - Plan A - Design #2	300.00	299.83	45.02	37.37	5.884	ES
COUNTY LINE 3229-23H - Plan A - Design #2	15,678.14	16,542.87	1,443.78	1,099.15	4.189	SF
COUNTY LINE 3229-24H - Plan A - Design #2	204.68	204.68	60.00	52.43	7.926	CC, ES
COUNTY LINE 3229-24H - Plan A - Design #2	2,100.00	2,041.87	128.65	111.55	7.526	SF
COUNTY LINE 3229-25H - Plan A - Design #2	200.00	200.00	75.00	67.44	9.911	CC, ES
COUNTY LINE 3229-25H - Plan A - Design #2	2,100.00	2,026.74	158.52	141.54	9.338	SF
COUNTY LINE 3229-26H - Plan A - Design #2	200.00	200.00	90.00	82.44	11.894	CC, ES
COUNTY LINE 3229-26H - Plan A - Design #2	2,200.00	2,104.49	199.98	182.04	11.149	SF

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-20H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3229 PAD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3229-20H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
1N-65W-31 Offsets						
ADAM TEN 1-A - CPR P&A Well - No Surveys	3,102.92	2,832.99	470.97	347.51	3.815	CC
ADAM TEN 1-A - CPR P&A Well - No Surveys	3,200.00	2,916.37	473.59	346.20	3.718	ES
ADAM TEN 1-A - CPR P&A Well - No Surveys	3,300.00	3,002.26	481.67	350.47	3.671	SF
DREYER 1 - EnCana P&A Well - No Surveys						Out of range
EPPINGER 1 - CPR P&A Well - No Surveys						Out of range
LOCHBUIE 1 - EnCana P&A Well - No Surveys						Out of range
LOCHBUIE 21-31 - CPR P&A Well - No Surveys						Out of range
LOCHBUIE 2A-31H - CPR PR Well - Actual Cathedral Su						Out of range
LOCHBUIE 2B-31H - CPR PR Well - Actual Cathedral Su						Out of range
LOCHBUIE 2C-31H - CPR PR Well - Actual Cathedral Su						Out of range
LOCHBUIE 2D-31H - CPR PR Well - Actual Cathedral Su						Out of range
LOCHBUIE 2E-31H - CPR PR Well - Actual Cathedral Su						Out of range
LOCHBUIE 2F-31H - CPR SI Well - Actual Cathedral Sur						Out of range
LOCHBUIE 2G-31H - CPR PR Well - Actual Cathedral Su						Out of range
LOCHBUIE 2H-31H - CPR PR Well - Actual Cathedral Su						Out of range
LUTZ 1 - EnCana P&A Well - No Surveys						Out of range
LUTZ 1A - CPR D/A Well - No Surveys						Out of range
SACK-DREYER 1 - CPR P&A Well - No Surveys						Out of range
WALLA 5-15-2L - Confluence Planned Well - BKR Planne	3,915.33	3,686.58	423.41	377.44	9.211	CC, ES
WALLA 5-15-2L - Confluence Planned Well - BKR Planne	4,000.00	3,765.89	424.44	378.26	9.190	SF
WALLA 5-8-4L - Confluence Planned Well - Planned Pro	8,077.23	8,322.66	466.54	391.92	6.252	CC
WALLA 5-8-4L - Confluence Planned Well - Planned Pro	8,150.00	8,319.72	472.86	387.20	5.520	ES
WALLA 5-8-4L - Confluence Planned Well - Planned Pro	8,350.00	8,288.05	545.95	434.80	4.912	SF
WALLA 5-9-2L - Confluence Planned Well - BKR Planned	7,700.00	7,234.39	552.12	447.36	5.271	SF
WALLA 5-9-2L - Confluence Planned Well - BKR Planned	8,050.00	7,516.71	481.54	408.09	6.556	ES
WALLA 5-9-2L - Confluence Planned Well - BKR Planned	8,113.92	7,554.53	478.45	410.22	7.012	CC
1N-65W-32 Offsets						
*KILKER 1 - VESSELS P&A Well - No Surveys						Out of range
*SAWYER 32-2 - NANKE ENERGY SI Well - No Surveys	8,775.17	7,234.01	1,398.81	1,110.34	4.849	CC
*SAWYER 32-2 - NANKE ENERGY SI Well - No Surveys	8,800.00	7,234.00	1,399.03	1,110.24	4.844	ES
*SAWYER 32-2 - NANKE ENERGY SI Well - No Surveys	9,100.00	7,234.00	1,436.04	1,136.34	4.792	SF
*SAWYER 32-34 - ABD D/A Well - No Surveys	9,455.36	7,236.00	1,374.78	1,078.27	4.637	CC
*SAWYER 32-34 - ABD D/A Well - No Surveys	9,500.00	7,236.00	1,375.50	1,077.28	4.612	ES
*SAWYER 32-34 - ABD D/A Well - No Surveys	9,800.00	7,236.00	1,417.32	1,104.05	4.524	SF
DREYER #32-1 - PAR Pacific D/A Well - No Surveys	11,400.00	7,206.00	947.47	613.34	2.836	ES, SF
DREYER #32-1 - PAR Pacific D/A Well - No Surveys	11,448.25	7,206.00	946.24	613.63	2.845	CC
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	9,100.00	7,205.00	926.82	637.29	3.201	SF
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	9,131.75	7,205.00	926.28	637.08	3.203	CC, ES
SAWYER/POWELL #32-4 - APEX D/A Well - No Surveys	10,100.00	7,200.00	1,096.51	788.68	3.562	SF
SAWYER/POWELL #32-4 - APEX D/A Well - No Surveys	10,181.08	7,200.00	1,093.51	787.32	3.571	CC, ES
SAWYER-GULLIKSEN #32-3 - PAR Pacific P/A Well - No	9,711.13	7,207.00	63.49	-234.35	0.213	Level 1, CC, ES, SF
1N-65W-33 Offsets Incomplete						
BUFORD 33-10-2L - Confluence Drilled Well - Plan Only						Out of range
DESHA 4-15-1 - Confluence PR Well - Actual BKR Surve						Out of range

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-20H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3229 PAD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3229-20H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 24' @ 5070.00usft (RIG)

Offset Depths are relative to Offset Datum

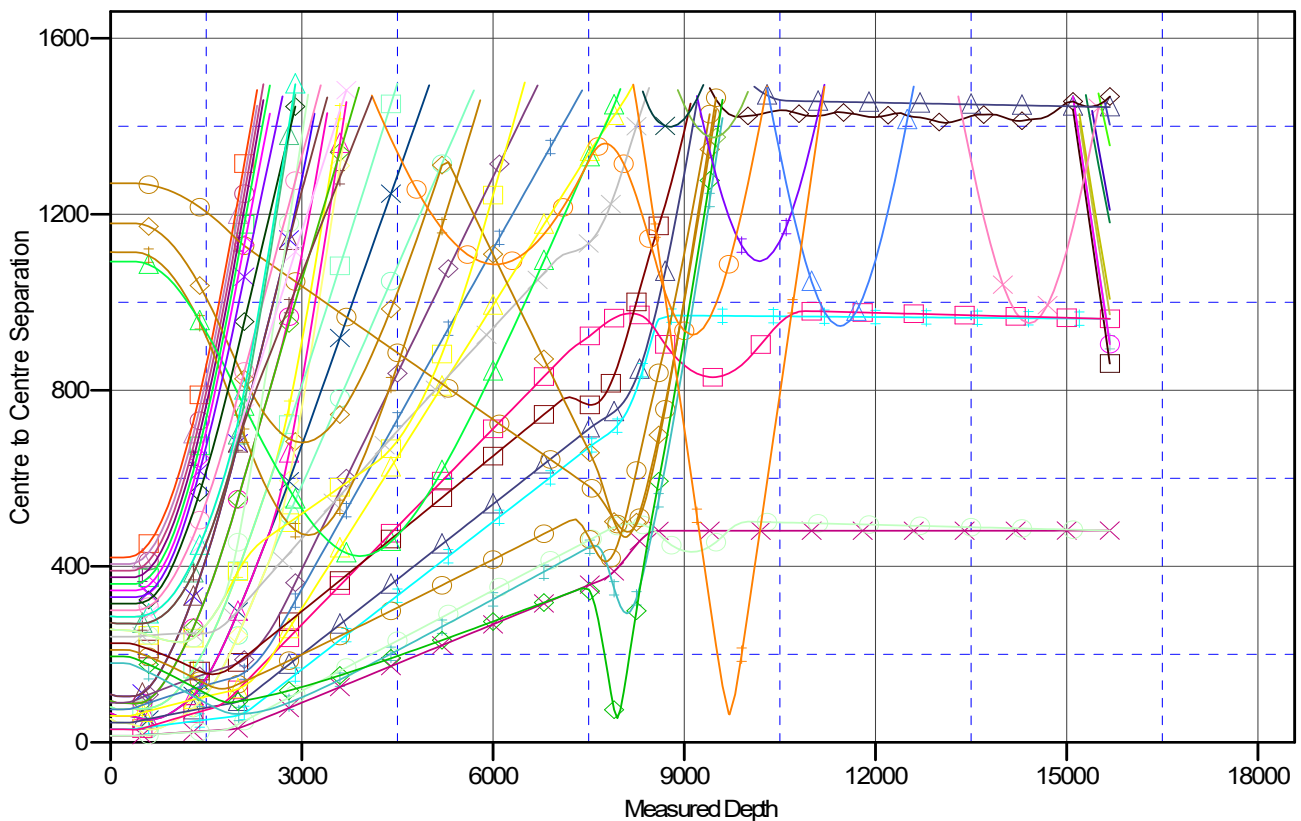
Central Meridian is -105.500000

Coordinates are relative to: COUNTY LINE 3229-20H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.51°

Ladder Plot



LEGEND

COUNTY LINE 3112-04H, Wellbore #1, Design #3 V0	COUNTY LINE 3130-04H, VERDAD Drilled-Surface, Plan B V0	WALLA 56-4L, Confluence Planned Well, Planned Pro Directional Surveys V0
COUNTY LINE 3112-01H, Wellbore #1, Design #3 V0	COUNTY LINE 3130-02H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	WALLA 59-2L, Confluence Planned Well, BKR Planned Surveys V0
COUNTY LINE 3112-03H, Wellbore #1, Design #3 V0	COUNTY LINE 3130-02H, VERDAD Drilled-Surface, Plan B V0	SAWYER/POMELL #324, APEX D/A Well, No Surveys V0
COUNTY LINE 3112-01H, Wellbore #1, Design #3 V0	COUNTY LINE 3130-01H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	SACK-HIETT #1, VESSELS P/A Well, No Surveys V0
ENGLISH FARM S 8-11HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3130-01H, VERDAD Drilled-Surface, Plan B V0	*SAWYER 3284, ABD D/A Well, No Surveys V0
ENGLISH FARM S 8-4HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-23H, Plan A, Design #2 V0	DREYER #33-1, PAR Pacific D/A Well, No Surveys V0
ENGLISH FARM S 8-6HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-26H, Plan A, Design #2 V0	*SAWYER 332, NANKE ENERGY S1 Well, No Surveys V0
ENGLISH FARM S 8-10HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-22H, Plan A, Design #2 V0	SAWYER/GULIKSEN #33-3, PAR Pacific P/A Well, No Surveys V0
ENGLISH FARM S 8-12HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-21H, Plan A, Design #2 V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Plan A V0
ENGLISH FARM S 8-8HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-19H, Plan A, Design #2 V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0
ENGLISH FARM S 8-7HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-24H, Plan A, Design #2 V0	COUNTY LINE 3107-06H, Wellbore #1, Design #3 V0
ENGLISH FARM S 8-5HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-25H, Plan A, Design #2 V0	COUNTY LINE 3107-07H, Wellbore #1, Design #3 V0
ENGLISH FARM S 8-4HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-19H, Plan A, Design #2 V0	COUNTY LINE 3107-07H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0
HIGHLAND 0N-65W-25-1N, VERDAD PR Well, Actual Ensign Surveys V0	COUNTY LINE 3108-17H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-11H, VERDAD Drilled-Surface Well, Plan A V0
KILKER #1, Kerr McGe P/A Well, No Surveys V0	COUNTY LINE 3108-14H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-11H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0
COUNTY LINE 3130-06H, VERDAD Drilled-Surface, Plan B V0	COUNTY LINE 3108-15H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-08H, Wellbore #1, Design #3 V0
COUNTY LINE 3130-06H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3108-13H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-10H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-05H, VERDAD Drilled-Surface, Plan B V0	COUNTY LINE 3108-16H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-10H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0
COUNTY LINE 3130-05H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	ADAM TEN 1A, CPR P&A Well, No Surveys V0	COUNTY LINE 3107-09H, Wellbore #1, Design #3 V0
COUNTY LINE 3130-06H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	WALLA 5-45-2L, Confluence Planned Well, BKR Planned Surveys V0	

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-20H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5070.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3229 PAD	MD Reference:	RKB = 24' @ 5070.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3229-20H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 24' @ 5070.00usft (RIG)

Offset Depths are relative to Offset Datum

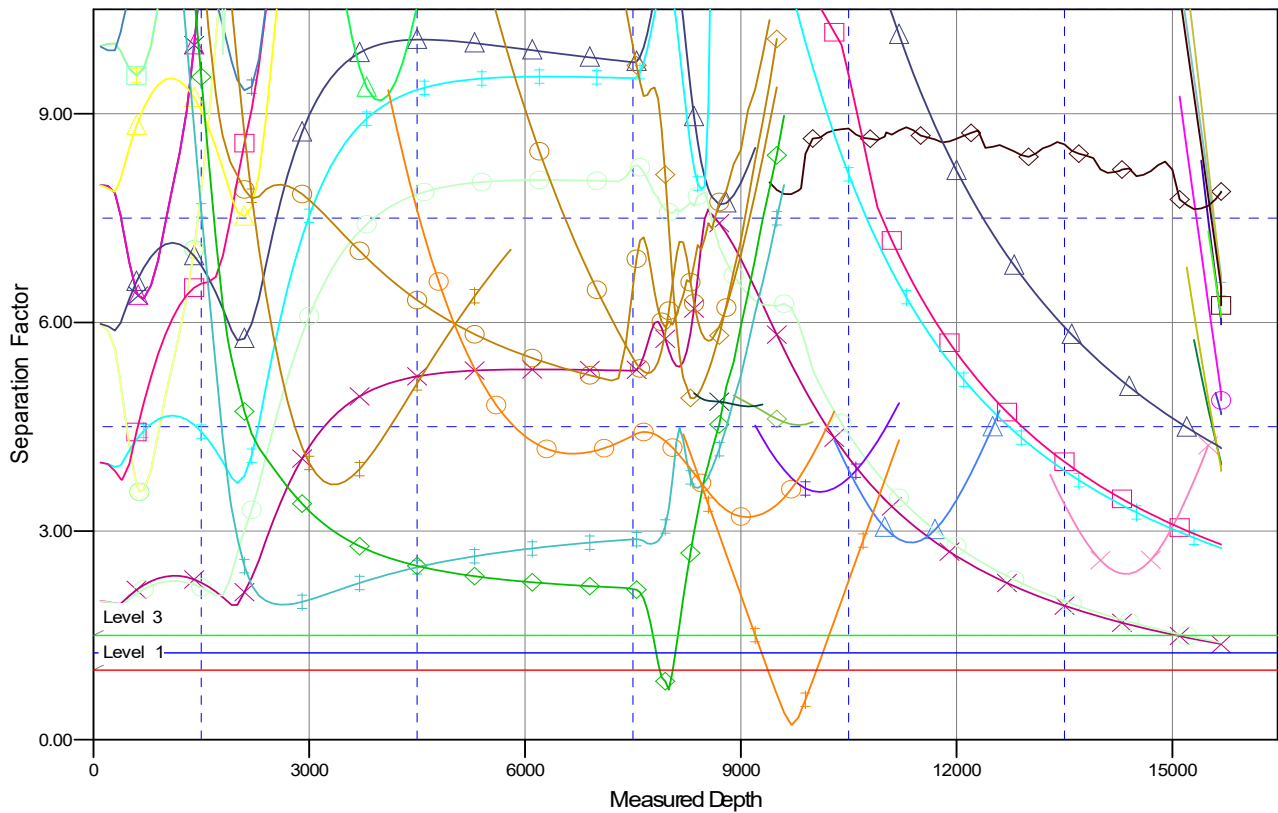
Central Meridian is -105.500000

Coordinates are relative to: COUNTY LINE 3229-20H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.51°

Separation Factor Plot



LEGEND

COUNTY LINE 3112-04H, Wellbore #1, Design #3 V0	COUNTY LINE 3130-04H, VERDAD Drilled-Surface, Plan B V0	WALLA 56-4L, Confluence Planned Well, Planned Pro Directional Surveys V0
COUNTY LINE 3112-01H, Wellbore #1, Design #3 V0	COUNTY LINE 3130-02H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	WALLA 59-2L, Confluence Planned Well, BKR Planned Surveys V0
COUNTY LINE 3112-03H, Wellbore #1, Design #3 V0	COUNTY LINE 3130-02H, VERDAD Drilled-Surface, Plan B V0	SAWYER/POWELL #32-4, APEX D/A Well, No Surveys V0
COUNTY LINE 3112-02H, Wellbore #1, Design #3 V0	COUNTY LINE 3130-01H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	SACK-HIETT #1, VESSELS P/A Well, No Surveys V0
ENGLISH FARMS 8-11HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3130-01H, VERDAD Drilled-Surface, Plan B V0	*SAWYER 3284, ABD D/A Well, No Surveys V0
ENGLISH FARMS 8-4HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-23H, Plan A, Design #2 V0	DREYER #33-1, PAR Pacific D/A Well, No Surveys V0
ENGLISH FARMS 8-6HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-26H, Plan A, Design #2 V0	*SAWYER 332, NANKE ENERGY SI Well, No Surveys V0
ENGLISH FARMS 8-10HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-22H, Plan A, Design #2 V0	SAWYER/JULIKSEN #33-3, PAR Pacific P/A Well, No Surveys V0
ENGLISH FARMS 8-12HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-21H, Plan A, Design #2 V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Plan A V0
ENGLISH FARMS 8-8HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-19H, Plan A, Design #2 V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0
ENGLISH FARMS 8-7HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-24H, Plan A, Design #2 V0	COUNTY LINE 3107-09H, Wellbore #1, Design #3 V0
ENGLISH FARMS 8-6HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3229-19H, Plan A, Design #2 V0	COUNTY LINE 3107-09H, Wellbore #1, Design #3 V0
ENGLISH FARMS 8-6HZ, KM GPR Well, Actual BKR Surveys V0	COUNTY LINE 3108-17H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-07H, Wellbore #1, Design #3 V0
HIGHLAND 0N-65W-29-1N, VERDAD FR Well, Actual Ensign Surveys V0	COUNTY LINE 3108-14H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-11H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0
KILKER #1, Kerr McGee P/A Well, No Surveys V0	COUNTY LINE 3108-15H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-11H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-06H, VERDAD Drilled-Surface, Plan B V0	COUNTY LINE 3108-13H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-08H, Wellbore #1, Design #3 V0
COUNTY LINE 3130-06H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3108-19H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-10H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-05H, VERDAD Drilled-Surface, Plan B V0	ADAM TERN 1A, CNPR P&A Well, No Surveys V0	COUNTY LINE 3107-10H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0
COUNTY LINE 3130-05H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	WALLA 5-45-2L, Confluence Planned Well, BKR Planned Surveys V0	COUNTY LINE 3107-05H, Wellbore #1, Design #3 V0