

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-31 COUNTY LINE 3229 PAD

COUNTY LINE 3229-21H

Plan A

Design #2

Anticollision Summary Report

24 May, 2022

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-21H
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 3229-21H	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	15,918.44	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	15,918.44	20,360.00	862.53	706.84	5.540	CC, ES, SF
ENGLISH FARMS 8-11HZ - KMG PR Well - Actual BKR S	15,918.44	20,232.00	980.71	834.40	6.703	CC, ES, SF
ENGLISH FARMS 8-12HZ - KMG PR Well - Actual BKR S	15,918.44	20,526.00	1,042.41	873.37	6.167	CC, ES, SF
ENGLISH FARMS 8-13HZ - KMG PR Well - Actual BKR S	15,918.44	20,390.00	1,210.36	1,001.76	5.802	CC, ES, SF
ENGLISH FARMS 8-14HZ - KMG PR Well - Actual BKR S	15,918.44	20,354.00	1,456.75	1,223.96	6.258	CC, ES, SF
ENGLISH FARMS 8-15HZ - 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						Out of range
ENGLISH FARMS 8-5HZ - KMG PR Well - Actual BKR S						Out of range
ENGLISH FARMS 8-6HZ - KMG PR Well - Actual BKR S	15,918.44	20,552.00	1,341.16	1,020.02	4.176	CC, ES, SF
ENGLISH FARMS 8-7HZ - KMG PR Well - Actual BKR S	15,918.44	20,442.00	1,137.58	865.93	4.188	CC, ES, SF
ENGLISH FARMS 8-8HZ - KMG PR Well - Actual BKR S	15,918.44	20,364.00	976.32	732.35	4.002	CC, ES, SF
ENGLISH FARMS 8-9HZ - KMG PR Well - Actual BKR S	15,918.44	20,538.00	947.35	721.04	4.186	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						Out of range
KILKER #1 - Kerr McGee P/A Well - No Surveys	14,600.00	7,187.00	1,435.21	1,034.92	3.585	SF
KILKER #1 - Kerr McGee P/A Well - No Surveys	14,661.22	7,187.00	1,433.91	1,034.81	3.593	CC, ES

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-21H
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 3229-21H	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	350.20	344.20	375.25	367.54	48.679	CC, ES
COUNTY LINE 3107-05H - Wellbore #1 - Design #3	500.00	482.95	380.48	372.56	48.027	SF
COUNTY LINE 3107-06H - Wellbore #1 - Design #3	350.20	345.20	360.26	352.55	46.730	CC, ES
COUNTY LINE 3107-06H - Wellbore #1 - Design #3	500.00	489.88	364.45	356.52	45.955	SF
COUNTY LINE 3107-07H - Wellbore #1 - Design #3	350.20	345.20	345.24	337.53	44.783	CC, ES
COUNTY LINE 3107-07H - Wellbore #1 - Design #3	600.00	584.27	357.40	349.28	43.984	SF
COUNTY LINE 3107-08H - Wellbore #1 - Design #3	350.20	346.20	330.25	322.54	42.835	CC, ES
COUNTY LINE 3107-08H - Wellbore #1 - Design #3	600.00	590.92	341.35	333.22	41.962	SF
COUNTY LINE 3107-09H - Wellbore #1 - Design #3	350.20	346.20	315.27	307.56	40.891	CC, ES
COUNTY LINE 3107-09H - Wellbore #1 - Design #3	600.00	595.68	326.05	317.90	40.046	SF
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	100.00	70.87	300.26	292.74	39.894	CC, ES
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	1,900.00	1,729.00	694.62	660.35	20.270	SF
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	100.00	70.87	300.26	292.74	39.894	CC, ES
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	700.00	679.38	316.46	308.20	38.290	SF
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	375.29	348.77	284.97	277.28	37.063	CC, ES
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	1,900.00	1,729.00	663.39	629.18	19.391	SF
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	375.29	348.77	284.97	277.28	37.063	CC, ES
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	700.00	682.41	296.27	288.02	35.901	SF
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,077.67	1,113.82	249.79	240.28	26.264	CC
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,100.00	1,136.72	249.85	240.25	26.019	ES
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,800.00	1,775.00	365.16	331.11	10.724	SF
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,077.67	1,113.82	249.79	240.28	26.264	CC
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,100.00	1,136.72	249.85	240.25	26.019	ES
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,300.00	1,323.34	262.00	251.46	24.853	SF
1N-65W-31 COUNTY LINE 3108 PAD						
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	239.72	236.72	255.25	247.66	33.609	CC
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	350.20	347.08	255.28	247.57	33.104	ES
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	1,900.00	1,995.83	311.04	296.06	20.759	SF
COUNTY LINE 3108-14H - Wellbore #1 - Design #1	1,575.90	1,665.11	181.14	168.90	14.794	CC
COUNTY LINE 3108-14H - Wellbore #1 - Design #1	1,600.00	1,689.20	181.25	168.82	14.588	ES
COUNTY LINE 3108-14H - Wellbore #1 - Design #1	1,900.00	1,988.32	199.76	185.01	13.547	SF
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	1,728.15	1,817.76	148.52	135.16	11.115	CC, ES
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	2,000.00	2,089.00	161.74	145.86	10.181	SF
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	1,865.46	1,952.12	116.51	101.61	7.820	CC
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	1,900.00	1,986.62	116.73	101.41	7.622	ES
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	7,400.00	7,470.64	523.10	414.63	4.822	SF
COUNTY LINE 3108-17H - Wellbore #1 - Design #1	1,978.06	2,058.46	86.65	68.74	4.840	CC
COUNTY LINE 3108-17H - Wellbore #1 - Design #1	8,200.00	8,295.43	105.06	15.10	1.168	Level 2, ES, SF
1N-65W-31 COUNTY LINE 3112 PAD						
COUNTY LINE 3112-01H - Wellbore #1 - Design #3	200.00	191.00	435.25	427.69	57.538	CC, ES
COUNTY LINE 3112-01H - Wellbore #1 - Design #3	400.00	365.61	441.20	433.46	56.966	SF
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	202.53	194.53	420.26	412.70	55.543	CC, ES
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	400.00	373.75	423.76	416.01	54.660	SF
COUNTY LINE 3112-03H - Wellbore #1 - Design #3	300.00	293.00	405.25	397.60	52.979	CC, ES
COUNTY LINE 3112-03H - Wellbore #1 - Design #3	400.00	381.45	407.00	399.24	52.433	SF
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	350.20	343.20	390.26	382.55	50.631	CC, ES
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	500.00	475.59	397.27	389.36	50.221	SF

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-21H
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 3229-21H	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	300.42	271.42	119.61	111.99	15.682	CC, ES
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - Ac	350.20	319.73	119.98	112.30	15.626	SF
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - PI	300.42	271.42	119.61	111.99	15.682	CC, ES
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - PI	350.20	319.73	119.98	112.30	15.626	SF
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - Ac	370.60	342.36	103.31	95.61	13.423	CC, ES
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - Ac	400.00	371.47	103.51	95.78	13.387	SF
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - PI	370.60	342.36	103.31	95.61	13.423	CC, ES
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - PI	400.00	371.47	103.51	95.78	13.387	SF
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	100.00	70.75	90.10	82.57	11.971	CC, ES
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	600.00	576.36	94.47	86.36	11.646	SF
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	100.00	70.75	90.10	82.57	11.971	CC, ES
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	600.00	576.36	94.47	86.36	11.646	SF
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	599.75	577.15	68.86	60.79	8.536	CC
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	600.00	577.40	68.86	60.79	8.536	ES
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	700.00	677.68	70.35	62.02	8.443	SF
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	599.75	577.15	68.86	60.79	8.536	CC
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	600.00	577.40	68.86	60.79	8.536	ES
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	700.00	677.68	70.35	62.02	8.443	SF
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	639.74	616.20	45.80	37.61	5.589	CC, ES
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	700.00	676.50	46.54	38.16	5.552	SF
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	639.74	616.20	45.80	37.61	5.589	CC, ES
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	700.00	676.50	46.54	38.16	5.552	SF
1N-65W-31 COUNTY LINE 3229 PAD						
COUNTY LINE 3229-18H - Plan A - Design #2	371.14	371.56	44.03	36.29	5.690	CC, ES
COUNTY LINE 3229-18H - Plan A - Design #2	15,918.44	15,227.53	1,443.78	1,100.77	4.209	SF
COUNTY LINE 3229-19H - Plan A - Design #2	350.20	350.20	29.99	22.28	3.889	CC, ES
COUNTY LINE 3229-19H - Plan A - Design #2	15,918.44	15,421.59	962.52	617.16	2.787	SF
COUNTY LINE 3229-20H - Plan A - Design #2	350.20	350.20	15.00	7.29	1.945	CC, ES
COUNTY LINE 3229-20H - Plan A - Design #2	15,918.44	15,674.25	481.25	132.04	1.378	Level 3, SF
COUNTY LINE 3229-22H - Plan A - Design #2	302.83	302.83	15.00	7.34	1.959	CC, ES
COUNTY LINE 3229-22H - Plan A - Design #2	15,918.44	16,165.54	481.25	131.45	1.376	Level 3, SF
COUNTY LINE 3229-23H - Plan A - Design #2	212.44	212.44	30.00	22.43	3.960	CC
COUNTY LINE 3229-23H - Plan A - Design #2	300.00	299.88	30.02	22.37	3.923	ES
COUNTY LINE 3229-23H - Plan A - Design #2	15,918.44	16,542.87	962.51	617.82	2.792	SF
COUNTY LINE 3229-24H - Plan A - Design #2	204.68	204.68	45.00	37.43	5.945	CC, ES
COUNTY LINE 3229-24H - Plan A - Design #2	15,918.44	16,649.75	1,443.77	1,093.04	4.116	SF
COUNTY LINE 3229-25H - Plan A - Design #2	200.00	200.00	60.00	52.44	7.929	CC, ES
COUNTY LINE 3229-25H - Plan A - Design #2	2,200.00	2,137.14	127.98	109.68	6.994	SF
COUNTY LINE 3229-26H - Plan A - Design #2	200.00	200.00	75.00	67.44	9.911	CC, ES
COUNTY LINE 3229-26H - Plan A - Design #2	2,200.00	2,120.78	158.44	140.30	8.733	SF

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-21H
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 3229-21H	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	2,964.19	2,678.39	450.31	332.26	3.815	CC
ADAM TEN 1-A - CPR P&A Well - No Surveys	3,000.00	2,708.02	450.76	331.25	3.772	ES
ADAM TEN 1-A - CPR P&A Well - No Surveys	3,200.00	2,873.49	469.38	342.43	3.697	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	3,544.16	3,304.84	442.10	399.34	10.339	CC, ES
WALLA 5-15-2L - Confluence Planned Well - BKR Planne	3,600.00	3,355.92	442.68	399.63	10.282	SF
WALLA 5-8-4L - Confluence Planned Well - Planned Pro	2,887.75	2,640.14	661.66	629.74	20.729	CC
WALLA 5-8-4L - Confluence Planned Well - Planned Pro	2,900.00	2,650.28	661.70	629.61	20.623	ES
WALLA 5-8-4L - Confluence Planned Well - Planned Pro	8,500.00	8,450.00	925.73	822.02	8.926	SF
WALLA 5-9-2L - Confluence Planned Well - BKR Planned	8,200.00	7,670.47	86.10	-50.70	0.629	Level 1, ES, SF
WALLA 5-9-2L - Confluence Planned Well - BKR Planned	8,268.66	7,707.13	61.89	-8.67	0.877	Level 1, 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	9,019.41	7,234.00	918.00	627.52	3.160	CC, ES
*SAWYER 32-2 - NANKE ENERGY SI Well - No Surveys	9,200.00	7,234.00	935.60	636.92	3.132	SF
*SAWYER 32-34 - ABD D/A Well - No Surveys	9,699.59	7,236.00	893.92	595.84	2.999	CC
*SAWYER 32-34 - ABD D/A Well - No Surveys	9,800.00	7,236.00	899.55	595.27	2.956	ES
*SAWYER 32-34 - ABD D/A Well - No Surveys	9,900.00	7,236.00	916.11	604.01	2.935	SF
DREYER #32-1 - PAR Pacific D/A Well - No Surveys	11,600.00	7,206.00	1,430.21	1,095.20	4.269	SF
DREYER #32-1 - PAR Pacific D/A Well - No Surveys	11,692.34	7,206.00	1,427.23	1,093.85	4.281	CC, ES
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	5,656.60	4,891.02	1,037.98	802.41	4.406	CC
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	5,800.00	5,009.67	1,041.10	799.33	4.306	ES
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	6,200.00	5,340.62	1,081.92	824.80	4.208	SF
SAWYER/POWELL #32-4 - APEX D/A Well - No Surveys						Out of range
SAWYER-GULLIKSEN #32-3 - PAR Pacific P/A Well - No	9,900.00	7,207.00	421.03	116.73	1.384	Level 3, ES, SF
SAWYER-GULLIKSEN #32-3 - PAR Pacific P/A Well - No	9,955.32	7,207.00	417.38	118.07	1.394	Level 3, CC
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 3229-21H
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 3229-21H	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

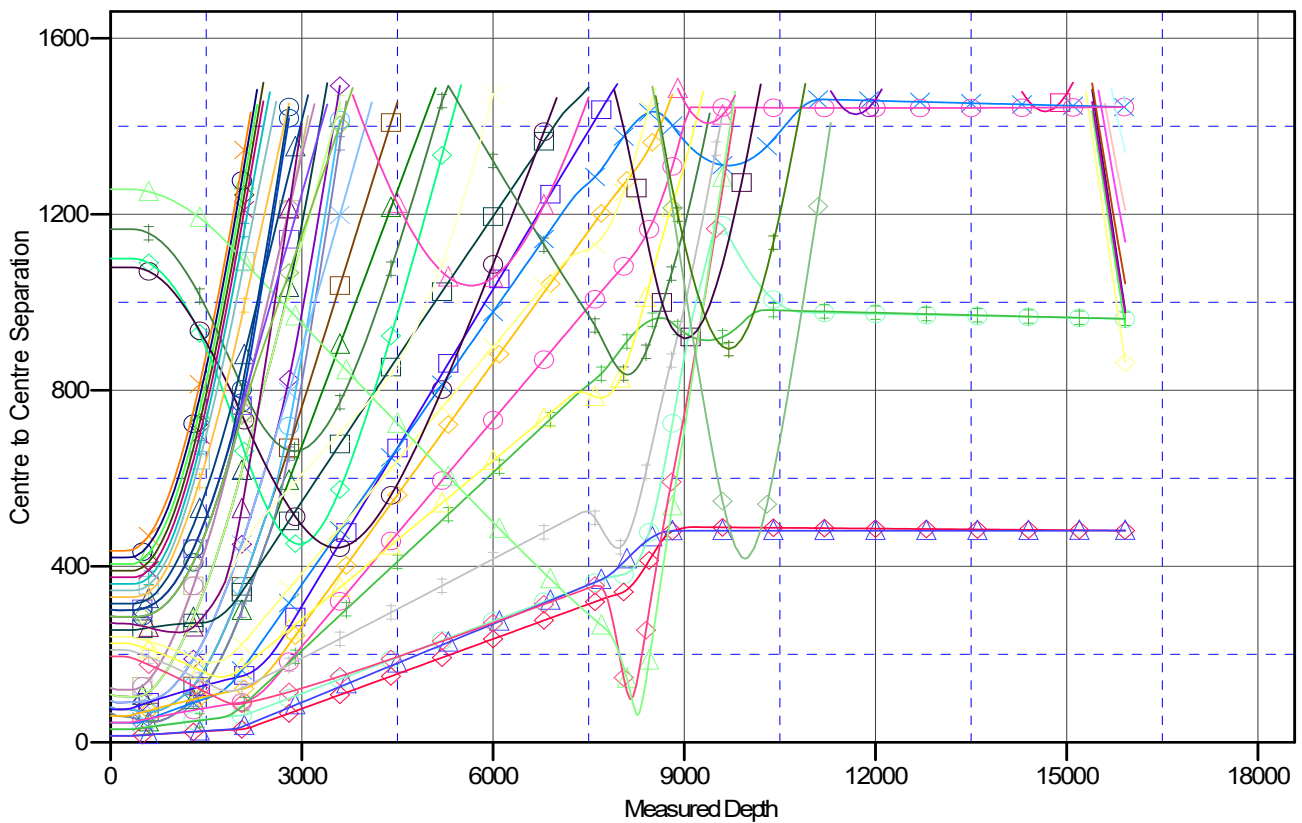
Central Meridian is -105.500000

Coordinates are relative to: COUNTY LINE 3229-21H

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 Dilled-Surface, Plan B V0 | WALLA 5-152L, Confluence Planned Well, BKR Planned Surveys V0 |
| COUNTY LINE 3112-01H, Wellbore #1, Design #3 V0 | COUNTY LINE 3130-02H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 | WALLA 5-94L, Confluence Planned Well, Refined Pro Directional Surveys V0 |
| COUNTY LINE 3112-02H, Wellbore #1, Design #3 V0 | COUNTY LINE 3130-01H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 | WALLA 5-92L, Confluence Planned Well, BKR Planned Surveys V0 |
| COUNTY LINE 3112-02H, Wellbore #1, Design #3 V0 | COUNTY LINE 3130-01H, VERDAD Dilled-Surface, Plan B 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 3229-23H, Plan A, Design #2 V0 | *SAWYER 3234, ABD D/A Well, No Surveys V0 |
| ENGLISH FARM S 8-13HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-24H, Plan A, Design #2 V0 | DREYER #3-1, PAR Pacific D/A Well, No Surveys V0 |
| ENGLISH FARM S 8-14HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-25H, Plan A, Design #2 V0 | *SAWYER 322, NANKE ENERGY SI 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 #3-3, PAR Pacific P/A Well, No Surveys V0 |
| ENGLISH FARM S 8-12HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-18H, Plan A, Design #2 V0 | COUNTY LINE 3107-12H, VERDAD Dilled-Surface Well, Plan A V0 |
| ENGLISH FARM S 8-8HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-20H, Plan A, Design #2 V0 | COUNTY LINE 3107-12H, VERDAD Dilled-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 3107-08H, Wellbore #1, Design #3 V0 |
| ENGLISH FARM S 8-14HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-25H, Plan A, Design #2 V0 | COUNTY LINE 3107-08H, Wellbore #1, Design #3 V0 |
| ENGLISH FARM S 8-6HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-19H, Plan A, Design #2 V0 | COUNTY LINE 3107-07H, Wellbore #1, Design #3 V0 |
| KILKER #1, VeriMax P/A Well, No Surveys V0 | COUNTY LINE 3108-17H, Wellbore #1, Design #1 V0 | COUNTY LINE 3107-11H, VERDAD Dilled-Surface Well, Actual SLB Surface Surveys V0 |
| COUNTY LINE 3130-06H, VERDAD Dilled-Surface, Plan B V0 | COUNTY LINE 3108-14H, Wellbore #1, Design #1 V0 | COUNTY LINE 3107-11H, VERDAD Dilled-Surface Well, Plan A V0 |
| COUNTY LINE 3130-06H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 | COUNTY LINE 3108-15H, Wellbore #1, Design #1 V0 | COUNTY LINE 3107-08H, Wellbore #1, Design #3 V0 |
| COUNTY LINE 3130-09H, VERDAD Dilled-Surface, Plan B V0 | COUNTY LINE 3108-13H, Wellbore #1, Design #1 V0 | COUNTY LINE 3107-10H, VERDAD Dilled-Surface Well, Plan A V0 |
| COUNTY LINE 3130-09H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 | COUNTY LINE 3108-16H, Wellbore #1, Design #1 V0 | COUNTY LINE 3107-10H, VERDAD Dilled-Surface Well, Actual SLB Surface Surveys V0 |
| COUNTY LINE 3130-09H, VERDAD Dilled-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 |

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-21H
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 3229-21H	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

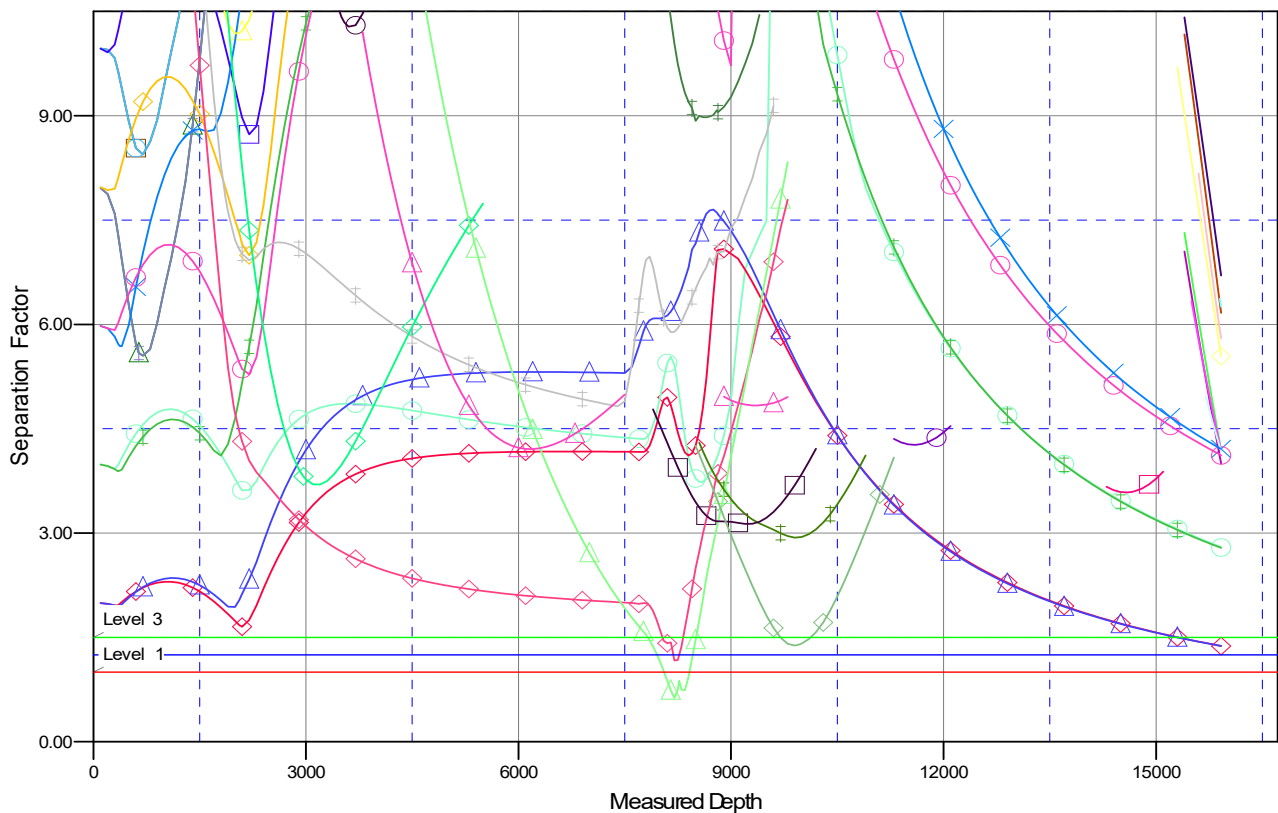
Central Meridian is -105.500000

Coordinates are relative to: COUNTY LINE 3229-21H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.51°

Separation Factor Plot



LEGEND

- | | | |
|--|--|---|
| COUNTY LINE 3112-06H, Wellbore #1, Design #3 V0 | COUNTY LINE 3130-04H, VERDAD Dilled-Surface, Plan B V0 | WALLA 5-15-2L, Confluence Planned Well, BKR Planned Surveys V0 |
| COUNTY LINE 3112-01H, Wellbore #1, Design #3 V0 | COUNTY LINE 3130-02H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 | WALLA 5-8-4L, Confluence Planned Well, Planned Pro Directional Surveys V0 |
| COUNTY LINE 3112-03H, Wellbore #1, Design #3 V0 | COUNTY LINE 3130-02H, VERDAD Dilled-Surface, Plan B V0 | WALLA 5-8-2L, Confluence Planned Well, BKR Planned Surveys V0 |
| COUNTY LINE 3112-02H, Wellbore #1, Design #3 V0 | COUNTY LINE 3130-01H, VERDAD Dilled-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 Dilled-Surface, Plan B V0 | *SAWYER 3284, ABD D/A Well, No Surveys V0 |
| ENGLISH FARMS 8-13HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-23H, Plan A, Design #2 V0 | DREYER #331, PAR Pacific D/A Well, No Surveys V0 |
| ENGLISH FARMS 8-8HZ, 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-GULIKSEN #323, PAR Pacific P/A Well, No Surveys V0 |
| ENGLISH FARMS 8-12HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-18H, Plan A, Design #2 V0 | COUNTY LINE 3107-12H, VERDAD Dilled-Surface Well, Plan A V0 |
| ENGLISH FARMS 8-8HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-20H, Plan A, Design #2 V0 | COUNTY LINE 3107-12H, VERDAD Dilled-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 3107-06H, Wellbore #1, Design #3 V0 |
| ENGLISH FARMS 8-14HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-25H, Plan A, Design #2 V0 | COUNTY LINE 3107-06H, Wellbore #1, Design #3 V0 |
| ENGLISH FARMS 8-9HZ, KM GPR Well, Actual BKR Surveys V0 | COUNTY LINE 3229-19H, Plan A, Design #2 V0 | COUNTY LINE 3107-07H, Wellbore #1, Design #3 V0 |
| KILKER #1, New McGee P/A Well, No Surveys V0 | COUNTY LINE 3108-17H, Wellbore #1, Design #1 V0 | COUNTY LINE 3107-11H, VERDAD Dilled-Surface Well, Actual SLB Surface Surveys V0 |
| COUNTY LINE 3130-06H, VERDAD Dilled-Surface, Plan B V0 | COUNTY LINE 3108-14H, Wellbore #1, Design #1 V0 | COUNTY LINE 3107-11H, VERDAD Dilled-Surface Well, Plan A V0 |
| COUNTY LINE 3130-06H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 | COUNTY LINE 3108-15H, Wellbore #1, Design #1 V0 | COUNTY LINE 3107-08H, Wellbore #1, Design #3 V0 |
| COUNTY LINE 3130-05H, VERDAD Dilled-Surface, Plan B V0 | COUNTY LINE 3108-13H, Wellbore #1, Design #1 V0 | COUNTY LINE 3107-10H, VERDAD Dilled-Surface Well, Plan A V0 |
| COUNTY LINE 3130-05H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 | COUNTY LINE 3108-16H, Wellbore #1, Design #1 V0 | COUNTY LINE 3107-10H, VERDAD Dilled-Surface Well, Actual SLB Surface Surveys V0 |
| COUNTY LINE 3130-04H, VERDAD Dilled-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 |