

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-31 COUNTY LINE 3229 PAD

COUNTY LINE 3229-23H

Plan A

Design #2

Anticollision Summary Report

24 May, 2022

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-23H
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 3229-23H	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	16,542.87	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	16,542.87	20,360.00	1,312.77	999.48	4.190	CC, ES, SF
ENGLISH FARMS 8-11HZ - KMG PR Well - Actual BKR S	16,542.87	20,232.00	1,157.50	863.94	3.943	CC, ES, SF
ENGLISH FARMS 8-12HZ - KMG PR Well - Actual BKR S	16,542.87	20,526.00	981.28	724.95	3.828	CC, ES, SF
ENGLISH FARMS 8-13HZ - KMG PR Well - Actual BKR S	16,542.87	20,390.00	863.60	667.18	4.397	CC, ES, SF
ENGLISH FARMS 8-14HZ - KMG PR Well - Actual BKR S	16,542.87	20,354.00	885.34	724.80	5.515	CC, ES, SF
ENGLISH FARMS 8-15HZ - KMG PR Sidetrack - Actual BKR S	16,542.87	20,551.00	1,062.36	883.76	5.948	CC, ES, SF
ENGLISH FARMS 8-16HZ - KMG PR Well - Actual BKR S	16,542.87	20,309.00	1,229.49	1,006.86	5.523	CC, ES, SF
ENGLISH FARMS 8-17HZ - KMG PR Well - Actual BKR S	16,542.87	20,266.00	1,498.33	1,261.31	6.321	CC, ES, SF
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						Out of range
ENGLISH FARMS 8-7HZ - KMG PR Well - Actual BKR S						Out of range
ENGLISH FARMS 8-8HZ - KMG PR Well - Actual BKR S						Out of range
ENGLISH FARMS 8-9HZ - KMG PR Well - Actual BKR S						Out of range
1N-65W-29 Offsets						
GERALD PICKERING GU #1 - Kerr McGee SI Well - No	16,542.87	7,191.00	1,484.05	1,127.82	4.166	CC, ES, SF
HIGHLAND 01N-65W-29-1N - VERDAD PR Well - Actual BKR S						Out of range
KILKER #1 - Kerr McGee P/A Well - No Surveys						Out of range

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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 3229-23H	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 3107 PAD						
COUNTY LINE 3107-05H - Wellbore #1 - Design #3	288.75	282.75	405.25	397.61	53.056	CC, ES
COUNTY LINE 3107-05H - Wellbore #1 - Design #3	500.00	481.99	414.32	406.40	52.288	SF
COUNTY LINE 3107-06H - Wellbore #1 - Design #3	288.75	283.75	390.26	382.62	51.090	CC, ES
COUNTY LINE 3107-06H - Wellbore #1 - Design #3	500.00	489.36	398.30	390.37	50.215	SF
COUNTY LINE 3107-07H - Wellbore #1 - Design #3	288.75	283.75	375.24	367.60	49.125	CC, ES
COUNTY LINE 3107-07H - Wellbore #1 - Design #3	500.00	494.81	382.98	375.04	48.246	SF
COUNTY LINE 3107-08H - Wellbore #1 - Design #3	288.75	284.75	360.25	352.62	47.159	CC, ES
COUNTY LINE 3107-08H - Wellbore #1 - Design #3	600.00	590.21	377.35	369.21	46.352	SF
COUNTY LINE 3107-09H - Wellbore #1 - Design #3	288.75	284.75	345.27	337.63	45.197	CC, ES
COUNTY LINE 3107-09H - Wellbore #1 - Design #3	600.00	595.39	362.05	353.91	44.434	SF
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	100.00	70.86	330.27	322.74	43.880	CC, ES
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	1,900.00	1,729.00	756.54	722.09	21.963	SF
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	100.00	70.86	330.27	322.74	43.880	CC, ES
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	600.00	578.25	344.80	336.75	42.835	SF
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	100.00	70.90	315.27	307.75	41.888	CC, ES
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	1,900.00	1,729.00	724.98	690.58	21.075	SF
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	100.00	70.90	315.27	307.75	41.888	CC, ES
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	700.00	683.47	334.42	326.15	40.463	SF
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	887.59	920.29	293.09	284.25	33.167	CC
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	900.00	933.12	293.11	284.23	33.005	ES
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,800.00	1,775.00	426.44	392.25	12.473	SF
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	887.59	920.29	293.09	284.25	33.167	CC
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	900.00	933.12	293.11	284.23	33.005	ES
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,300.00	1,329.81	312.63	302.00	29.412	SF
1N-65W-31 COUNTY LINE 3108 PAD						
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	241.36	238.36	285.25	277.66	37.553	CC
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	288.75	285.73	285.26	277.62	37.339	ES
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	2,000.00	2,108.60	389.95	374.13	24.652	SF
COUNTY LINE 3108-14H - Wellbore #1 - Design #1	1,516.12	1,623.45	234.23	222.20	19.473	CC, ES
COUNTY LINE 3108-14H - Wellbore #1 - Design #1	1,900.00	2,006.07	260.04	245.08	17.377	SF
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	1,674.16	1,785.03	203.42	190.30	15.511	CC
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	1,700.00	1,810.86	203.54	190.22	15.283	ES
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	2,000.00	2,110.03	222.12	206.23	13.977	SF
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	1,823.19	1,934.27	172.04	157.74	12.024	CC, ES
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	7,400.00	7,474.07	802.75	727.39	10.652	SF
COUNTY LINE 3108-17H - Wellbore #1 - Design #1	1,960.47	2,068.39	140.54	124.73	8.889	CC
COUNTY LINE 3108-17H - Wellbore #1 - Design #1	2,000.00	2,107.88	140.82	124.54	8.650	ES
COUNTY LINE 3108-17H - Wellbore #1 - Design #1	7,600.00	7,693.27	533.62	425.58	4.939	SF
1N-65W-31 COUNTY LINE 3112 PAD						
COUNTY LINE 3112-01H - Wellbore #1 - Design #3	200.00	191.00	465.25	457.69	61.504	CC, ES
COUNTY LINE 3112-01H - Wellbore #1 - Design #3	300.00	278.27	466.52	458.88	61.074	SF
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	207.98	199.98	450.27	442.70	59.481	CC, ES
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	400.00	372.55	455.45	447.70	58.778	SF
COUNTY LINE 3112-03H - Wellbore #1 - Design #3	288.75	281.75	435.25	427.61	56.988	CC, ES
COUNTY LINE 3112-03H - Wellbore #1 - Design #3	400.00	380.65	438.70	430.95	56.549	SF
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	288.75	281.75	420.26	412.62	55.026	CC, ES
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	400.00	387.46	422.69	414.92	54.439	SF

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Reference Well:	COUNTY LINE 3229-23H	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	294.29	265.58	149.63	142.00	19.631	CC, ES
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - Ac	300.00	271.02	149.64	142.01	19.620	SF
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - PI	294.29	265.58	149.63	142.00	19.631	CC, ES
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - PI	300.00	271.02	149.64	142.01	19.620	SF
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - Ac	313.06	285.19	133.85	126.21	17.534	CC, ES
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - Ac	400.00	371.61	135.22	127.50	17.499	SF
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - PI	313.06	285.19	133.85	126.21	17.534	CC, ES
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - PI	400.00	371.61	135.22	127.50	17.499	SF
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	100.00	70.67	120.10	112.57	15.957	CC, ES
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	300.00	270.00	121.38	113.76	15.912	SF
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	100.00	70.67	120.10	112.57	15.957	CC, ES
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	300.00	270.00	121.38	113.76	15.912	SF
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	536.50	516.62	103.63	95.70	13.063	CC, ES
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	700.00	681.20	107.31	98.98	12.876	SF
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	536.50	516.62	103.63	95.70	13.063	CC, ES
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	700.00	681.20	107.31	98.98	12.876	SF
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	614.43	595.21	81.36	73.25	10.023	CC, ES
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	800.00	782.16	86.46	77.72	9.892	SF
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	614.43	595.21	81.36	73.25	10.023	CC, ES
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	800.00	782.16	86.46	77.72	9.892	SF
1N-65W-31 COUNTY LINE 3229 PAD						
COUNTY LINE 3229-18H - Plan A - Design #2	315.55	316.28	74.54	66.88	9.720	CC, ES, SF
COUNTY LINE 3229-19H - Plan A - Design #2	288.75	288.75	59.99	52.35	7.851	CC, ES
COUNTY LINE 3229-19H - Plan A - Design #2	300.00	300.00	60.01	52.36	7.842	SF
COUNTY LINE 3229-20H - Plan A - Design #2	288.75	288.75	45.00	37.36	5.889	CC, ES
COUNTY LINE 3229-20H - Plan A - Design #2	16,542.87	15,669.91	1,443.76	1,100.12	4.201	SF
COUNTY LINE 3229-21H - Plan A - Design #2	288.75	288.75	30.00	22.36	3.926	CC, ES
COUNTY LINE 3229-21H - Plan A - Design #2	16,542.87	15,914.15	962.50	618.56	2.798	SF
COUNTY LINE 3229-22H - Plan A - Design #2	288.75	288.75	15.00	7.36	1.963	CC
COUNTY LINE 3229-22H - Plan A - Design #2	8,000.00	8,015.76	50.56	-107.03	0.321	Level 1, ES, SF
COUNTY LINE 3229-24H - Plan A - Design #2	200.80	200.80	15.00	7.43	1.982	CC, ES
COUNTY LINE 3229-24H - Plan A - Design #2	16,542.87	16,649.75	481.26	136.01	1.394	Level 3, SF
COUNTY LINE 3229-25H - Plan A - Design #2	203.87	203.87	30.00	22.43	3.963	CC, ES
COUNTY LINE 3229-25H - Plan A - Design #2	16,542.87	17,078.50	962.51	616.91	2.785	SF
COUNTY LINE 3229-26H - Plan A - Design #2	200.00	200.00	45.00	37.43	5.947	CC, ES
COUNTY LINE 3229-26H - Plan A - Design #2	16,542.87	17,407.21	1,443.76	1,097.94	4.175	SF

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-23H
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 3229-23H	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	2,813.43	2,520.30	420.66	308.39	3.747	CC
ADAM TEN 1-A - CPR P&A Well - No Surveys	2,900.00	2,589.27	423.90	308.25	3.665	ES
ADAM TEN 1-A - CPR P&A Well - No Surveys	3,000.00	2,668.93	435.52	316.34	3.654	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	3,230.61	2,990.80	446.23	406.62	11.265	CC, ES
WALLA 5-15-2L - Confluence Planned Well - BKR Planne	3,300.00	3,052.64	447.34	407.28	11.168	SF
WALLA 5-8-4L - Confluence Planned Well - Planned Pro	2,751.51	2,495.98	633.06	601.52	20.073	CC, ES
WALLA 5-8-4L - Confluence Planned Well - Planned Pro	8,300.00	8,600.00	1,238.49	1,151.01	14.158	SF
WALLA 5-9-2L - Confluence Planned Well - BKR Planned	6,800.00	6,288.27	226.58	83.97	1.589	ES, SF
WALLA 5-9-2L - Confluence Planned Well - BKR Planned	6,901.25	6,387.29	225.59	85.27	1.608	CC
1N-65W-32 Offsets						
*KILKER 1 - VESSELS P&A Well - No Surveys	13,283.70	7,245.00	898.26	545.44	2.546	CC
*KILKER 1 - VESSELS P&A Well - No Surveys	13,400.00	7,245.00	905.75	539.99	2.476	ES
*KILKER 1 - VESSELS P&A Well - No Surveys	13,500.00	7,245.00	923.93	547.60	2.455	SF
*SAWYER 32-2 - NANKE ENERGY SI Well - No Surveys	9,500.00	7,234.00	152.96	-195.17	0.439	Level 1, ES, SF
*SAWYER 32-2 - NANKE ENERGY SI Well - No Surveys	9,524.13	7,234.00	151.30	-182.37	0.453	Level 1, CC
*SAWYER 32-34 - ABD D/A Well - No Surveys	10,369.50	7,236.00	284.61	-12.71	0.957	Level 1, CC
*SAWYER 32-34 - ABD D/A Well - No Surveys	10,500.00	7,236.00	309.34	-22.62	0.932	Level 1, ES, SF
DREYER #32-1 - PAR Pacific D/A Well - No Surveys						Out of range
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	5,339.58	4,517.72	968.81	746.10	4.350	CC
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	5,500.00	4,645.52	973.65	744.05	4.241	ES
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	5,700.00	4,804.85	993.00	755.68	4.184	SF
SAWYER/POWELL #32-4 - APEX D/A Well - No Surveys						Out of range
SAWYER-GULLIKSEN #32-3 - PAR Pacific P/A Well - No	10,894.11	7,207.00	1,492.29	1,194.35	5.009	CC
SAWYER-GULLIKSEN #32-3 - PAR Pacific P/A Well - No	10,900.00	7,207.00	1,492.31	1,194.30	5.008	ES
SAWYER-GULLIKSEN #32-3 - PAR Pacific P/A Well - No	11,000.00	7,207.00	1,497.99	1,198.11	4.995	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 3229-23H
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 3229-23H	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

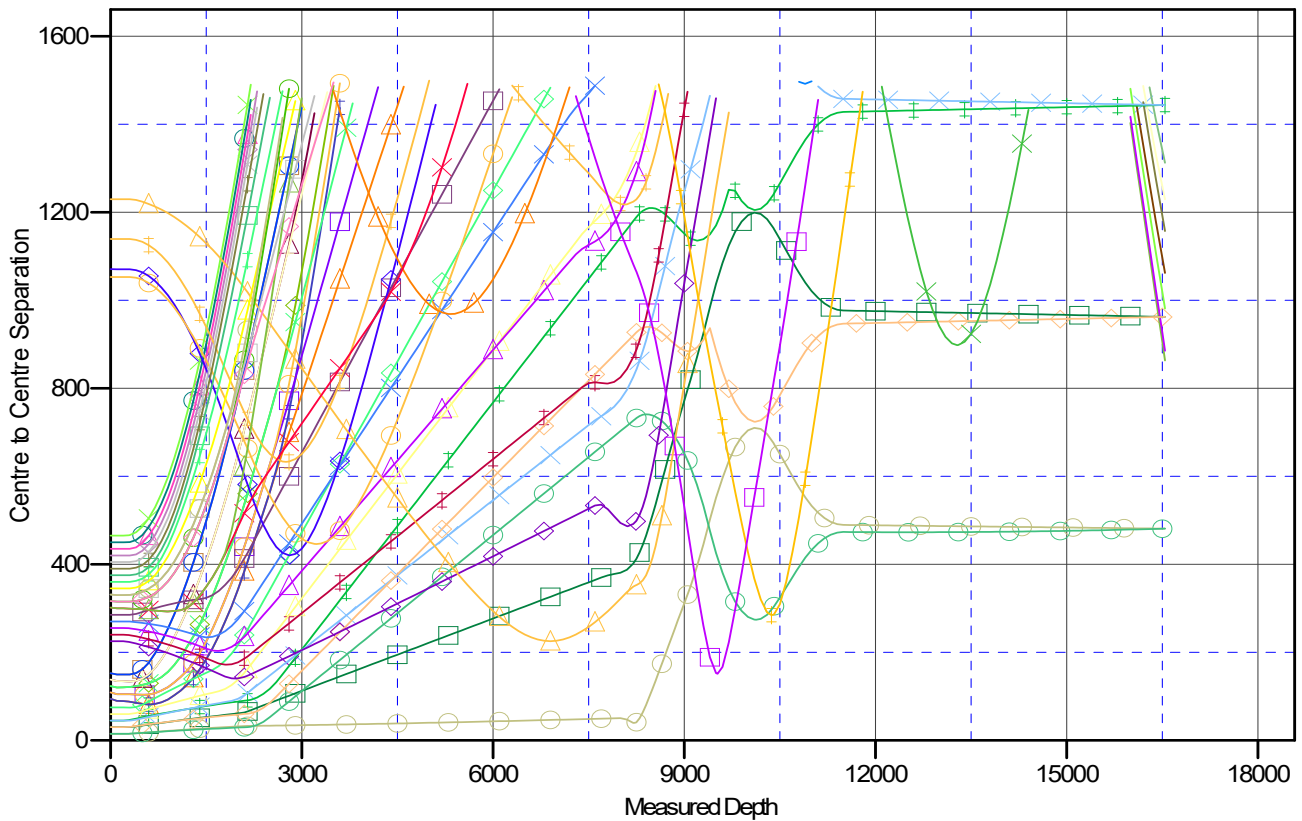
Central Meridian is -105.500000

Coordinates are relative to: COUNTY LINE 3229-23H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.51°

Ladder Plot



LEGEND

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> COUNTY LINE 3112-04H, Wellbore #1, Design #3 V0 COUNTY LINE 3112-01H, Wellbore #1, Design #3 V0 COUNTY LINE 3112-02H, Wellbore #1, Design #3 V0 COUNTY LINE 3112-02H, Wellbore #1, Design #3 V0 ENGLISH FARM S 8-11H2, KM GPR Well Actual BKR Surveys V0 ENGLISH FARM S 8-13H2, KM GPR Well Actual BKR Surveys V0 ENGLISH FARM S 8-15H2X, KM GPR Well Actual BKR Surveys V0 ENGLISH FARM S 8-17H2, KM GPR Well Actual BKR Surveys V0 ENGLISH FARM S 8-10H2, KM GPR Well Actual BKR Surveys V0 ENGLISH FARM S 8-12H2, KM GPR Well Actual BKR Surveys V0 ENGLISH FARM S 8-16H2, KM GPR Well Actual BKR Surveys V0 ENGLISH FARM S 8-14H2, KM GPR Well Actual BKR Surveys V0 GERALD PICKERING GU #1, Ker McGee SI Well, No Surveys V0 COUNTY LINE 3130-06H, VERDAD Dilled-Surface, Plan B V0 COUNTY LINE 3130-06H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 COUNTY LINE 3130-05H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 COUNTY LINE 3130-04H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 COUNTY LINE 3130-04H, VERDAD Dilled-Surface, Plan B V0 | <ul style="list-style-type: none"> COUNTY LINE 3130-02H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 COUNTY LINE 3130-01H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0 COUNTY LINE 3130-01H, VERDAD Dilled-Surface, Plan B V0 COUNTY LINE 3229-26H, Plan A, Design #2 V0 COUNTY LINE 3229-23H, Plan A, Design #2 V0 COUNTY LINE 3229-21H, Plan A, Design #2 V0 COUNTY LINE 3229-18H, Plan A, Design #2 V0 COUNTY LINE 3229-20H, Plan A, Design #2 V0 COUNTY LINE 3229-24H, Plan A, Design #2 V0 COUNTY LINE 3229-25H, Plan A, Design #2 V0 COUNTY LINE 3229-19H, Plan A, Design #2 V0 COUNTY LINE 3108-17H, Wellbore #1, Design #1 V0 COUNTY LINE 3108-14H, Wellbore #1, Design #1 V0 COUNTY LINE 3108-15H, Wellbore #1, Design #1 V0 COUNTY LINE 3108-13H, Wellbore #1, Design #1 V0 COUNTY LINE 3108-16H, Wellbore #1, Design #1 V0 ADAM TEN 1A, CPR P&A Well, No Surveys V0 WALLA 5-15L2, Confluence Planned Well, BKR Planned Surveys V0 | <ul style="list-style-type: none"> WALLA 5-8L2, Confluence Planned Well, Planned Pro Directional Surveys V0 WALLA 5-8L2, Confluence Planned Well, BKR Planned Surveys V0 *KILKER 1, VESSELS P&A Well, No Surveys V0 SACK-HIETT #1, VESSELS P/A Well, No Surveys V0 *SAWYER 3284, ABD D/A Well, No Surveys V0 *SAWYER 322, NANKE ENERGY SI Well, No Surveys V0 SAWYER-GULIKSEN #323, PAR Pacific P/A Well, No Surveys V0 COUNTY LINE 3107-12H, VERDAD Dilled-Surface Well, Plan A V0 COUNTY LINE 3107-12H, VERDAD Dilled-Surface Well, Actual SLB Surface Surveys V0 COUNTY LINE 3107-06H, Wellbore #1, Design #3 V0 COUNTY LINE 3107-09H, Wellbore #1, Design #3 V0 COUNTY LINE 3107-07H, Wellbore #1, Design #3 V0 COUNTY LINE 3107-11H, VERDAD Dilled-Surface Well, Actual SLB Surface Surveys V0 COUNTY LINE 3107-11H, VERDAD Dilled-Surface Well, Plan A V0 COUNTY LINE 3107-08H, Wellbore #1, Design #3 V0 COUNTY LINE 3107-10H, VERDAD Dilled-Surface Well, Plan A V0 COUNTY LINE 3107-10H, VERDAD Dilled-Surface Well, Actual SLB Surface Surveys V0 COUNTY LINE 3107-05H, Wellbore #1, Design #3 V0 |
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Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3229-23H
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 3229-23H	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

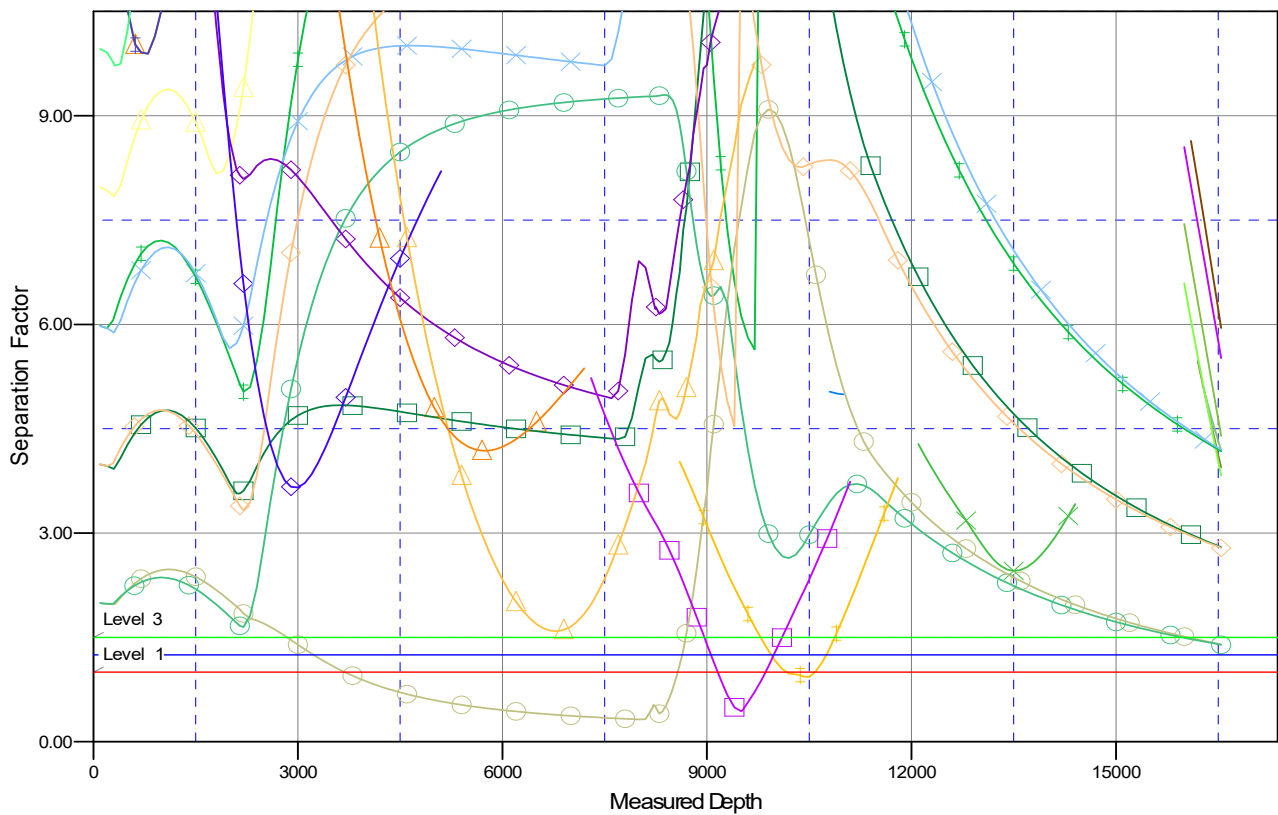
Central Meridian is -105.500000

Coordinates are relative to: COUNTY LINE 3229-23H

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 3130-02H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0	WALLA 5-8-4L, Confluence Planned Well, Remot Pro Directional Surveys V0
COUNTY LINE 3112-01H, Wellbore #1, Design #3 V0	COUNTY LINE 3130-02H, VERDAD Dilled-Surface, Plan B V0	WALLA 5-9-2L, Confluence Planned Well, BKR Planned Surveys V0
COUNTY LINE 3112-03H, Wellbore #1, Design #3 V0	COUNTY LINE 3130-01H, VERDAD Dilled-Surface, Actual SLB Surface Surveys V0	*KILKER 1, VESSELS P&A Well, No Surveys V0
COUNTY LINE 3112-02H, Wellbore #1, Design #3 V0	COUNTY LINE 3229-26H, Plan A, Design #2 V0	SACK-HIETT #1, VESSELS P/A Well, No Surveys V0
ENGLISH FARMS 8-11H2, 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 8-13H2, KM GPR Well Actual BKR Surveys V0	COUNTY LINE 3229-22H, Plan A, Design #2 V0	*SAWYER 322, NANKE ENERGY SI Well, No Surveys V0
ENGLISH FARMS 8-15H2, KM GPR Well Actual BKR Surveys V0	COUNTY LINE 3229-21H, Plan A, Design #2 V0	SAWYER-GULIKSEN #323, PAR Pacific P/A Well, No Surveys V0
ENGLISH FARMS 8-17H2, 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 8-10H2, 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 8-12H2, 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 8-16H2, 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 FARMS 8-14H2, 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
GERALD PICKERING GU #1, Ker McCabe SI 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
COUNTY LINE 3130-04H, VERDAD Dilled-Surface, Plan B V0	WALLA 5-15-2L, Confluence Planned Well, BKR Planned Surveys V0	