

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-31 COUNTY LINE 3108 PAD

COUNTY LINE 3108-14H

Wellbore #1

Design #1

Anticollision Summary Report

10 September, 2021

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3108-14H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5068.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3108 PAD	MD Reference:	RKB = 24' @ 5068.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3108-14H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 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 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	9/10/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	2,296.00	Design #1 (Wellbore #1)	ISCWSA MWD	Fixed:v2:standard declination	
2,296.00	17,499.33	Design #1 (Wellbore #1)	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-31 COUNTY LINE 3107 PAD						
COUNTY LINE 3107-05H - Wellbore #1 - Design #3	260.40	256.40	134.99	127.38	17.734	CC, ES
COUNTY LINE 3107-05H - Wellbore #1 - Design #3	300.00	296.00	135.27	127.62	17.683	SF
COUNTY LINE 3107-06H - Wellbore #1 - Design #3	260.40	257.40	120.01	112.39	15.764	CC, ES
COUNTY LINE 3107-06H - Wellbore #1 - Design #3	300.00	297.00	120.28	112.63	15.722	SF
COUNTY LINE 3107-07H - Wellbore #1 - Design #3	260.40	257.40	104.99	97.38	13.792	CC, ES
COUNTY LINE 3107-07H - Wellbore #1 - Design #3	300.00	297.00	105.26	97.61	13.760	SF
COUNTY LINE 3107-08H - Wellbore #1 - Design #3	260.40	258.40	90.00	82.39	11.822	CC, ES
COUNTY LINE 3107-08H - Wellbore #1 - Design #3	300.00	298.00	90.27	82.62	11.800	SF
COUNTY LINE 3107-09H - Wellbore #1 - Design #3	260.40	258.40	75.01	67.40	9.854	CC, ES
COUNTY LINE 3107-09H - Wellbore #1 - Design #3	300.00	298.00	75.29	67.64	9.841	SF
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	100.00	72.97	60.01	52.49	7.973	CC, ES
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	260.40	233.31	60.18	52.59	7.935	SF
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	100.00	72.97	60.01	52.49	7.973	CC, ES
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	260.40	233.31	60.18	52.59	7.935	SF
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	100.00	72.99	45.02	37.49	5.982	CC, ES
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	260.40	233.35	45.13	37.54	5.950	SF
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	100.00	72.99	45.02	37.49	5.982	CC, ES
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	260.40	233.35	45.13	37.54	5.950	SF
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	303.53	276.98	29.40	21.78	3.858	CC, ES, SF
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	303.53	276.98	29.40	21.78	3.858	CC, ES
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	17,400.00	17,114.40	1,389.61	916.04	2.934	SF
1N-65W-31 COUNTY LINE 3108 PAD						
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	210.87	209.87	15.00	7.43	1.981	CC
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	17,495.74	17,350.69	417.70	-61.02	0.873	Level 1, ES, SF
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	205.76	205.76	15.00	7.43	1.981	CC
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	17,499.33	17,677.62	417.70	-61.24	0.872	Level 1, ES, SF
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	200.79	200.79	30.00	22.43	3.964	CC, ES
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	17,499.33	17,875.69	835.40	356.19	1.743	SF
COUNTY LINE 3108-17H - Wellbore #1 - Design #1	200.00	200.00	45.00	37.43	5.947	CC, ES
COUNTY LINE 3108-17H - Wellbore #1 - Design #1	17,499.33	18,090.79	1,253.10	773.62	2.613	SF

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3108-14H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5068.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3108 PAD	MD Reference:	RKB = 24' @ 5068.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3108-14H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
1N-65W-31 COUNTY LINE 3112 PAD						
COUNTY LINE 3112-01H - Wellbore #1 - Design #3	200.00	193.00	195.00	187.44	25.776	CC, ES
COUNTY LINE 3112-01H - Wellbore #1 - Design #3	260.40	249.99	195.47	187.86	25.693	SF
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	208.48	202.48	180.01	172.44	23.777	CC
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	260.40	254.14	180.02	172.41	23.653	ES
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	300.00	291.39	180.60	172.96	23.621	SF
COUNTY LINE 3112-03H - Wellbore #1 - Design #3	260.40	255.40	165.00	157.39	21.677	CC, ES
COUNTY LINE 3112-03H - Wellbore #1 - Design #3	300.00	295.00	165.27	157.62	21.607	SF
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	260.40	255.40	150.01	142.40	19.708	CC, ES
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	300.00	295.00	150.28	142.63	19.647	SF
1N-65W-31 COUNTY LINE 3130 PAD						
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - Ac	858.91	825.90	58.77	49.71	6.486	CC, ES, SF
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - PI	858.91	825.90	58.77	49.71	6.486	CC, ES, SF
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - Ac	965.48	923.94	92.96	83.57	9.901	CC, ES
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - Ac	1,000.00	956.49	93.47	83.90	9.768	SF
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - PI	965.48	923.94	92.96	83.57	9.901	CC, ES
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - PI	1,000.00	956.49	93.47	83.90	9.768	SF
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	1,256.16	1,198.96	100.89	89.74	9.046	CC
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	1,300.00	1,241.47	101.33	89.66	8.682	ES
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	1,485.40	1,419.34	115.68	101.33	8.060	SF
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	1,256.16	1,198.96	100.89	89.74	9.046	CC
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	1,300.00	1,241.47	101.33	89.66	8.682	ES
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	1,485.40	1,419.34	115.68	101.33	8.060	SF
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	1,569.09	1,500.09	90.17	75.07	5.969	CC
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	1,600.00	1,529.85	90.59	74.82	5.746	ES
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	1,700.00	1,625.10	97.91	80.29	5.558	SF
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	1,569.09	1,500.09	90.17	75.07	5.969	CC
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	1,600.00	1,529.85	90.59	74.82	5.746	ES
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	1,700.00	1,625.10	97.91	80.29	5.558	SF
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	1,741.62	1,663.49	98.25	80.51	5.539	CC
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	1,800.00	1,719.64	99.42	80.36	5.217	ES
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	1,900.00	1,816.26	106.89	85.94	5.101	SF
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	1,741.62	1,663.49	98.25	80.51	5.539	CC
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	1,800.00	1,719.64	99.42	80.36	5.217	ES
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	1,900.00	1,816.26	106.89	85.94	5.101	SF

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3108-14H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5068.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3108 PAD	MD Reference:	RKB = 24' @ 5068.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3108-14H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
1N-65W-31 Offsets						
ADAM TEN 1-A - CPR P&A Well - No Surveys	3,937.46	3,651.69	386.14	228.10	2.443	CC
ADAM TEN 1-A - CPR P&A Well - No Surveys	4,000.00	3,708.60	387.01	226.42	2.410	ES
ADAM TEN 1-A - CPR P&A Well - No Surveys	4,100.00	3,799.59	391.97	227.55	2.384	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
1N-65W-32 Offsets						
DREYER #32-1 - PAR Pacific D/A Well - No Surveys						Out of range
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	7,191.78	6,597.83	881.68	586.75	2.989	CC
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	7,200.00	6,605.26	881.73	586.41	2.986	ES
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	7,250.00	6,650.07	884.62	586.91	2.971	SF
SAWYER #32-7 - LILIS Energy Planned Well - Planned L						Out of range
SAWYER #32-8 - LILIS Energy Planned Well - Planned L						Out of range
SAWYER/POWELL #32-4 - APEX D/A Well - No Surveys						Out of range
SAWYER-GULLIKSEN #32-3 - PAR Pacific P/A Well - No						Out of range
1S-65W-05 Offsets						
HSR-DREYER 5-5 - Kerr McGee P&A Well - No Surveys	8,940.80	7,137.00	79.03	-217.72	0.266	Level 1, CC, SF
HSR-DREYER 5-5 - Kerr McGee P&A Well - No Surveys	9,000.00	7,137.00	98.75	-225.57	0.304	Level 1, ES
CHAMPLIN 78 AMOCO D #1 - Kerr McGee P&A Well - N						Out of range
DREYER 1 - Kerr McGee P&A Well - No Surveys						Out of range
DREYER 2 - Kerr McGee P&A Well - No Surveys	11,056.21	7,137.00	771.23	429.03	2.254	CC
DREYER 2 - Kerr McGee P&A Well - No Surveys	11,100.00	7,137.00	772.47	426.24	2.231	ES
DREYER 2 - Kerr McGee P&A Well - No Surveys	11,200.00	7,137.00	784.52	430.16	2.214	SF

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3108-14H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5068.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3108 PAD	MD Reference:	RKB = 24' @ 5068.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3108-14H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
1S-65W-08 Offsets						
BERGMAN 1 - VERDAD PR Well - No Surveys						Out of range
BERGMAN 32-8 - VERDAD PR Well - No Surveys						Out of range
MELISSA 1 - VERDAD PR Well - No Surveys	16,871.01	7,175.00	945.19	467.70	1.979	CC
MELISSA 1 - VERDAD PR Well - No Surveys	16,900.00	7,175.00	945.64	465.82	1.971	ES
MELISSA 1 - VERDAD PR Well - No Surveys	17,000.00	7,175.00	953.95	467.75	1.962	SF
MELISSA 13-8 - VERDAD PR Well - No Surveys	16,000.00	7,152.00	252.89	-211.23	0.545	Level 1, ES
MELISSA 13-8 - VERDAD PR Well - No Surveys	16,054.20	7,152.00	247.02	-210.68	0.540	Level 1, CC, SF
RAINBOW 1 - VERDAD PR Well - No Surveys	13,603.72	7,155.00	763.87	362.82	1.905	CC
RAINBOW 1 - VERDAD PR Well - No Surveys	13,700.00	7,155.00	769.91	360.63	1.881	ES, SF
TIPPERARY 1 - VERDAD PR Well - No Surveys						Out of range
TIPPERARY 34-8 - VERDAD PR Well - No Surveys						Out of range
1S-65W-20 Offsets Incomplete						
WAKEMAN 20-17-1NAH - POCO Planned Well - BKR PI	17,499.33	17,822.97	867.59	520.98	2.503	CC, ES, SF
WAKEMAN 20-17-1NBH - POCO Planned Well - BKR PI	17,499.33	17,835.13	796.37	693.35	7.730	CC, ES, SF
WAKEMAN 20-17-1NCH - POCO Planned Well - BKR PI	17,499.33	18,013.26	781.66	572.32	3.734	CC, ES, SF
WAKEMAN 20-17-2CDH - POCO Planned Well - BKR PI	17,499.33	17,954.40	1,047.56	800.73	4.244	CC, ES, SF
WAKEMAN 20-17-2NAH - POCO Planned Well - BKR PI	17,499.33	17,526.80	1,058.09	774.69	3.734	CC, ES, SF
WAKEMAN 20-17-2NBH - POCO Planned Well - BKR PI						Out of range
WAKEMAN 20-17-2NCH - POCO Planned Well - BKR PI	17,499.33	17,719.88	1,296.19	954.24	3.791	CC, ES, SF
WAKEMAN 20-17-3NCH - POCO Planned Well - BKR PI						Out of range

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3108-14H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5068.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3108 PAD	MD Reference:	RKB = 24' @ 5068.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3108-14H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 24' @ 5068.00usft (RIG)

Offset Depths are relative to Offset Datum

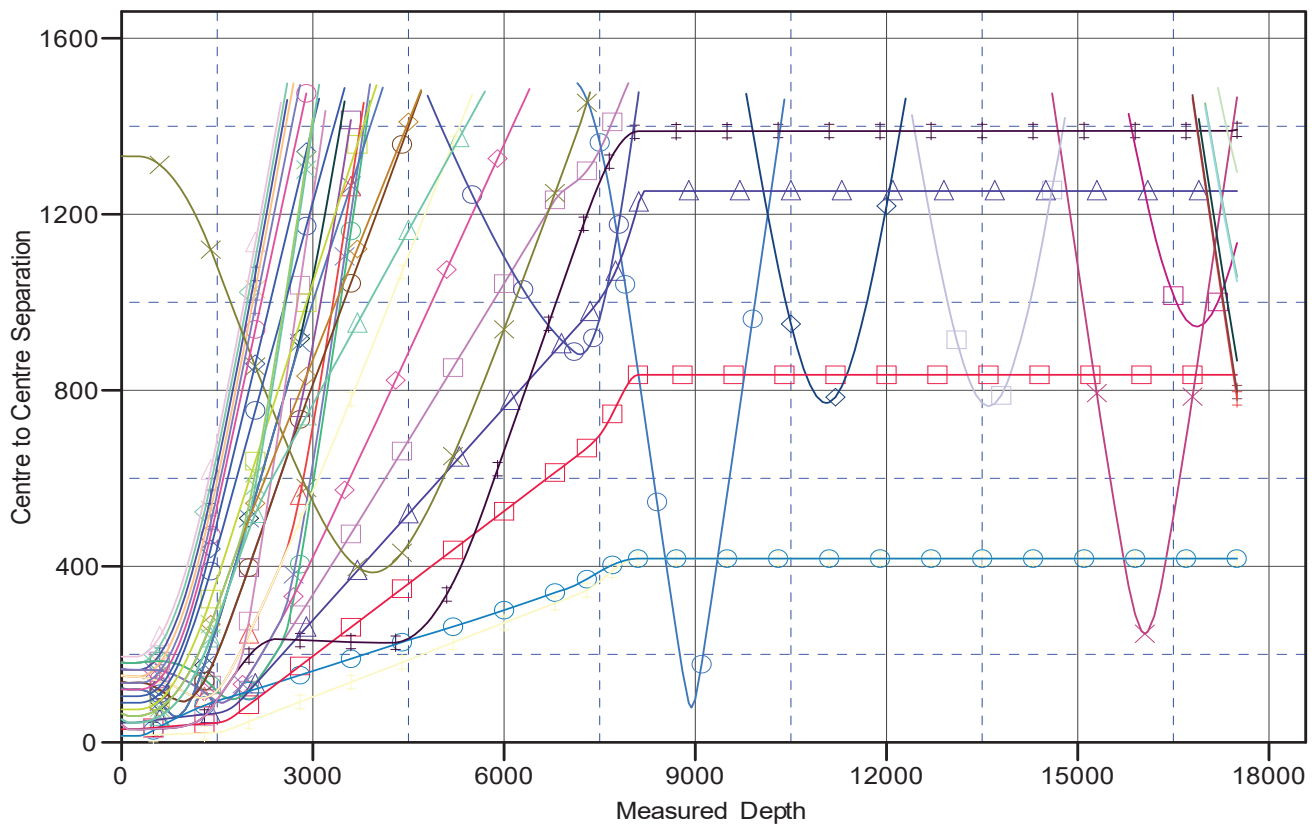
Central Meridian is -105.500000

Coordinates are relative to: COUNTY LINE 3108-14H

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	MELISSA 1, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-09H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-01H, Wellbore#1, Design #3 V0	MELISSA 13-8, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-07H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-03H, Wellbore#1, Design #3 V0	RAINBOW1, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-05H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-02H, Wellbore#1, Design #3 V0	HSR-DREYER 5-5, Kerr McGee P&A Well, No Surveys V0	COUNTY LINE 3107-11H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0
COUNTY LINE 3130-06H, VERDAD Drilled-Surface, PlanB V0	DREYER2, Kerr McGee P&A Well, No Surveys V0	COUNTY LINE 3107-11H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-08H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3108-17H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-09H, Wellbore#1, Design #3 V0
COUNTY LINE 3130-05H, VERDAD Drilled-Surface, PlanB V0	COUNTY LINE 3108-15H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-10H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-09H, 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, Actual SLB Surface Surveys V0
COUNTY LINE 3130-01H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3108-16H, Wellbore #1, Design #1 V0	WAKEMAN20-17-2NAH, POOCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-01H, VERDAD Drilled-Surface, PlanB V0	ADAM TEN-1-A, CPR P&A Well, No Surveys V0	WAKEMAN20-17-1NCH, POOCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-04H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	SACK-HEIT #1, VESSELS P&A Well, No Surveys V0	WAKEMAN20-17-20CH, POOCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-04H, VERDAD Drilled-Surface, PlanB V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Plan A V0	WAKEMAN20-17-1NAH, POOCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-02H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0	WAKEMAN20-17-2NCH, POOCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-02H, VERDAD Drilled-Surface, PlanB V0	COUNTY LINE 3107-06H, Wellbore#1, Design #3 V0	WAKEMAN20-17-1NBH, POOCO Planned Well, BKR Planned Surveys V0

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3108-14H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5068.00usft (RIG)
Reference Site:	1N-65W-31 COUNTY LINE 3108 PAD	MD Reference:	RKB = 24' @ 5068.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3108-14H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 24' @ 5068.00usft (RIG)

Offset Depths are relative to Offset Datum

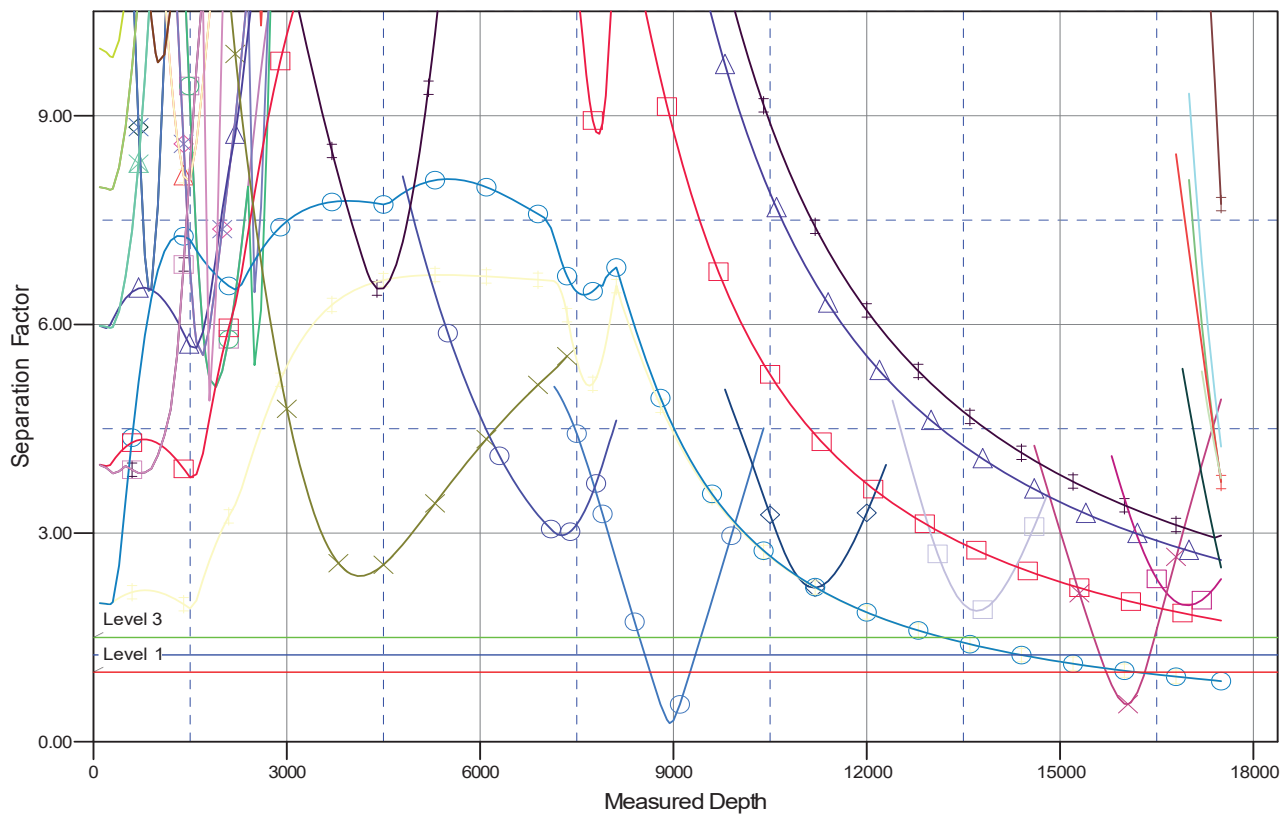
Central Meridian is -105.500000

Coordinates are relative to: COUNTY LINE 3108-14H

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	MELISSA 1, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-09H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-01H, Wellbore#1, Design #3 V0	MELISSA 13-8, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-07H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-03H, Wellbore#1, Design #3 V0	RAINBOW 1, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-05H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-02H, Wellbore#1, Design #3 V0	HSR-DREYER 5-5, Kerr McGee P&A Well, No Surveys V0	COUNTY LINE 3107-11H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0
COUNTY LINE 3130-09H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	DREYER 2, Kerr McGee P&A Well, No Surveys V0	COUNTY LINE 3107-11H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-09H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3108-17H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-08H, Wellbore#1, Design #3 V0
COUNTY LINE 3130-05H, VERDAD Drilled-Surface, PlanB V0	COUNTY LINE 3108-15H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-10H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-05H, 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, Actual SLB Surface Surveys V0
COUNTY LINE 3130-01H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3108-16H, Wellbore #1, Design #1 V0	WAKEMAN20-17-2NAH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-01H, VERDAD Drilled-Surface, PlanB V0	ADAM TEN 1-A, CPR P&A Well, No Surveys V0	WAKEMAN20-17-1NCH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-04H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	SACK-HETT #1, VESSELS P&A Well, No Surveys V0	WAKEMAN20-17-20CH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-04H, VERDAD Drilled-Surface, PlanB V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Plan A V0	WAKEMAN20-17-1NAH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-02H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0	WAKEMAN20-17-2NCH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-02H, VERDAD Drilled-Surface, PlanB V0	COUNTY LINE 3107-06H, Wellbore#1, Design #3 V0	WAKEMAN20-17-1NBH, POCO Planned Well, BKR Planned Surveys V0