

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-31 COUNTY LINE 3108 PAD

COUNTY LINE 3108-17H

Wellbore #1

Design #1

Anticollision Summary Report

10 September, 2021

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3108-17H
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 3108-17H	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	18,095.78	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	201.00	197.00	180.00	172.43	23.788	CC, ES
COUNTY LINE 3107-05H - Wellbore #1 - Design #3	300.00	295.98	181.70	174.06	23.756	SF
COUNTY LINE 3107-06H - Wellbore #1 - Design #3	201.00	198.00	165.01	157.44	21.806	CC, ES
COUNTY LINE 3107-06H - Wellbore #1 - Design #3	300.00	296.98	166.72	159.07	21.795	SF
COUNTY LINE 3107-07H - Wellbore #1 - Design #3	201.00	198.00	149.99	142.42	19.822	CC, ES, SF
COUNTY LINE 3107-08H - Wellbore #1 - Design #3	201.00	199.00	135.00	127.44	17.840	CC, ES, SF
COUNTY LINE 3107-09H - Wellbore #1 - Design #3	201.00	199.00	120.02	112.45	15.860	CC, ES, SF
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	100.00	72.95	105.02	97.49	13.952	CC, ES
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	201.00	173.89	105.09	97.54	13.912	SF
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	100.00	72.95	105.02	97.49	13.952	CC, ES
COUNTY LINE 3107-10H - VERDAD Drilled-Surface We	201.00	173.89	105.09	97.54	13.912	SF
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	100.00	72.97	90.02	82.50	11.961	CC, ES
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	201.00	173.93	90.08	82.52	11.924	SF
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	100.00	72.97	90.02	82.50	11.961	CC, ES
COUNTY LINE 3107-11H - VERDAD Drilled-Surface Wel	201.00	173.93	90.08	82.52	11.924	SF
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	209.16	182.38	74.75	67.19	9.890	CC, ES
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	1,800.00	1,773.95	251.85	217.70	7.373	SF
COUNTY LINE 3107-12H - VERDAD Drilled-Surface We	209.16	182.38	74.75	67.19	9.890	CC, ES, SF
1N-65W-31 COUNTY LINE 3108 PAD						
COUNTY LINE 3108-13H - Wellbore #1 - Design #1	201.00	200.00	60.00	52.44	7.929	CC, ES, SF
COUNTY LINE 3108-14H - Wellbore #1 - Design #1	201.00	201.00	45.00	37.43	5.946	CC, ES
COUNTY LINE 3108-14H - Wellbore #1 - Design #1	18,095.78	17,499.33	1,253.11	774.08	2.616	SF
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	201.00	201.00	30.00	22.43	3.964	CC, ES
COUNTY LINE 3108-15H - Wellbore #1 - Design #1	18,095.78	17,679.79	835.41	356.00	1.743	SF
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	201.00	201.00	15.00	7.43	1.982	CC
COUNTY LINE 3108-16H - Wellbore #1 - Design #1	18,095.78	17,878.99	417.71	-61.88	0.871	Level 1, ES, SF
1N-65W-31 COUNTY LINE 3112 PAD						
COUNTY LINE 3112-01H - Wellbore #1 - Design #3	201.00	194.00	240.00	232.44	31.722	CC, ES, SF
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	201.00	195.00	225.02	217.45	29.740	CC, ES
COUNTY LINE 3112-02H - Wellbore #1 - Design #3	300.00	290.75	227.04	219.39	29.698	SF
COUNTY LINE 3112-03H - Wellbore #1 - Design #3	201.00	196.00	210.00	202.43	27.754	CC, ES
COUNTY LINE 3112-03H - Wellbore #1 - Design #3	300.00	294.98	211.71	204.06	27.681	SF
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	201.00	196.00	195.01	187.45	25.773	CC, ES
COUNTY LINE 3112-04H - Wellbore #1 - Design #3	300.00	294.98	196.72	189.07	25.721	SF

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	COUNTY LINE 3108-17H	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 3130 PAD						
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - Ac	694.72	664.46	32.44	24.02	3.853	CC, ES
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - Ac	700.00	669.48	32.48	24.04	3.850	SF
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - PI	694.72	664.46	32.44	24.02	3.853	CC, ES
COUNTY LINE 3130-01H - VERDAD Drilled-Surface - PI	700.00	669.48	32.48	24.04	3.850	SF
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - Ac	763.11	727.89	58.42	49.85	6.818	CC, ES
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - Ac	800.00	763.24	59.11	50.41	6.791	SF
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - PI	763.11	727.89	58.42	49.85	6.818	CC, ES
COUNTY LINE 3130-02H - VERDAD Drilled-Surface - PI	800.00	763.24	59.11	50.41	6.791	SF
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	1,001.62	957.63	68.09	58.48	7.083	CC, ES
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - Ac	1,100.00	1,051.79	72.01	61.52	6.862	SF
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	1,001.62	957.63	68.09	58.48	7.083	CC, ES
COUNTY LINE 3130-04H - VERDAD Drilled-Surface - PI	1,100.00	1,051.79	72.01	61.52	6.862	SF
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	1,287.35	1,233.40	75.08	62.94	6.182	CC
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	1,300.00	1,245.77	75.12	62.78	6.085	ES
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - Ac	1,400.00	1,343.46	78.44	64.38	5.579	SF
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	1,287.35	1,233.40	75.08	62.94	6.182	CC
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	1,300.00	1,245.77	75.12	62.78	6.085	ES
COUNTY LINE 3130-05H - VERDAD Drilled-Surface - PI	1,400.00	1,343.46	78.44	64.38	5.579	SF
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	1,469.77	1,407.17	84.87	70.12	5.753	CC
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	1,500.00	1,436.23	85.24	69.83	5.535	ES
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - Ac	1,600.00	1,531.40	92.24	74.90	5.321	SF
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	1,469.77	1,407.17	84.87	70.12	5.753	CC
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	1,500.00	1,436.23	85.24	69.83	5.535	ES
COUNTY LINE 3130-06H - VERDAD Drilled-Surface - PI	1,600.00	1,531.40	92.24	74.90	5.321	SF
1N-65W-31 Offsets						
ADAM TEN 1-A - CPR P&A Well - No Surveys	3,245.93	2,893.25	359.87	228.97	2.749	CC
ADAM TEN 1-A - CPR P&A Well - No Surveys	3,300.00	2,938.21	361.12	228.04	2.714	ES
ADAM TEN 1-A - CPR P&A Well - No Surveys	3,400.00	3,021.36	369.91	233.28	2.707	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

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Reference Well:	COUNTY LINE 3108-17H	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-32 Offsets						
DREYER #32-1 - PAR Pacific D/A Well - No Surveys						Out of range
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	6,057.20	5,215.74	798.82	545.08	3.148	CC
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	6,200.00	5,334.47	802.75	543.01	3.091	ES
SACK-HIETT #1 - VESSELS P/A Well - No Surveys	6,300.00	5,417.62	810.13	546.57	3.074	SF
SAWYER #32-7 - LILIS Energy Planned Well - Planned L	8,343.12	12,577.01	1,252.87	1,111.54	8.865	CC
SAWYER #32-7 - LILIS Energy Planned Well - Planned L	8,350.00	12,577.01	1,252.92	1,111.34	8.850	ES
SAWYER #32-7 - LILIS Energy Planned Well - Planned L	8,450.00	12,577.01	1,265.18	1,120.49	8.744	SF
SAWYER #32-8 - LILIS Energy Planned Well - Planned L	8,210.60	12,495.50	758.83	616.54	5.333	CC, ES
SAWYER #32-8 - LILIS Energy Planned Well - Planned L	8,250.00	12,495.50	760.93	617.33	5.299	SF
SAWYER/POWELL #32-4 - APEX D/A Well - No Surveys						Out of range
SAWYER-GULLIKSEN #32-3 - PAR Pacific P/A Well - No	7,717.27	6,598.03	1,423.94	1,095.90	4.341	CC
SAWYER-GULLIKSEN #32-3 - PAR Pacific P/A Well - No	7,750.00	6,625.20	1,424.90	1,095.40	4.324	ES
SAWYER-GULLIKSEN #32-3 - PAR Pacific P/A Well - No	7,800.00	6,666.44	1,430.05	1,098.38	4.312	SF
1S-65W-05 Offsets						
HSR-DREYER 5-5 - Kerr McGee P&A Well - No Surveys	9,300.00	7,137.00	1,196.64	886.38	3.857	SF
HSR-DREYER 5-5 - Kerr McGee P&A Well - No Surveys	9,500.00	7,137.00	1,174.32	872.63	3.892	ES
HSR-DREYER 5-5 - Kerr McGee P&A Well - No Surveys	9,532.26	7,137.00	1,173.88	873.52	3.908	CC
CHAMPLIN 78 AMOCO D #1 - Kerr McGee P&A Well - N	9,616.62	7,145.00	1,429.89	1,127.71	4.732	CC
CHAMPLIN 78 AMOCO D #1 - Kerr McGee P&A Well - N	9,700.00	7,145.00	1,432.32	1,124.34	4.651	ES
CHAMPLIN 78 AMOCO D #1 - Kerr McGee P&A Well - N	10,000.00	7,145.00	1,480.40	1,151.25	4.498	SF
DREYER 1 - Kerr McGee P&A Well - No Surveys	12,186.76	7,175.00	1,462.93	1,105.48	4.093	CC
DREYER 1 - Kerr McGee P&A Well - No Surveys	12,300.00	7,175.00	1,467.30	1,101.19	4.008	ES
DREYER 1 - Kerr McGee P&A Well - No Surveys	12,500.00	7,175.00	1,496.09	1,116.14	3.938	SF
DREYER 2 - Kerr McGee P&A Well - No Surveys	11,600.00	7,137.00	484.09	133.26	1.380	Level 3, ES, SF
DREYER 2 - Kerr McGee P&A Well - No Surveys	11,647.69	7,137.00	481.73	137.61	1.400	Level 3, CC
1S-65W-08 Offsets						
BERGMAN 1 - VERDAD PR Well - No Surveys	14,152.77	7,184.00	1,466.78	1,064.44	3.646	CC
BERGMAN 1 - VERDAD PR Well - No Surveys	14,300.00	7,184.00	1,474.15	1,060.75	3.566	ES
BERGMAN 1 - VERDAD PR Well - No Surveys	14,400.00	7,184.00	1,487.47	1,067.43	3.541	SF
BERGMAN 32-8 - VERDAD PR Well - No Surveys	15,289.29	7,188.00	1,151.57	722.98	2.687	CC
BERGMAN 32-8 - VERDAD PR Well - No Surveys	15,400.00	7,188.00	1,156.88	718.46	2.639	ES
BERGMAN 32-8 - VERDAD PR Well - No Surveys	15,500.00	7,188.00	1,170.69	724.80	2.626	SF
MELISSA 1 - VERDAD PR Well - No Surveys	17,400.00	7,175.00	314.18	-175.27	0.642	Level 1, ES, SF
MELISSA 1 - VERDAD PR Well - No Surveys	17,462.49	7,175.00	307.90	-170.47	0.644	Level 1, CC
MELISSA 13-8 - VERDAD PR Well - No Surveys						Out of range
RAINBOW 1 - VERDAD PR Well - No Surveys	14,100.00	7,155.00	498.33	84.59	1.204	Level 2, ES, SF
RAINBOW 1 - VERDAD PR Well - No Surveys	14,195.19	7,155.00	489.15	86.86	1.216	Level 2, CC
TIPPERARY 1 - VERDAD PR Well - No Surveys						Out of range
TIPPERARY 34-8 - VERDAD PR Well - No Surveys	17,913.51	7,200.00	1,162.86	673.15	2.375	CC
TIPPERARY 34-8 - VERDAD PR Well - No Surveys	18,000.00	7,200.00	1,166.08	668.75	2.345	ES
TIPPERARY 34-8 - VERDAD PR Well - No Surveys	18,095.78	7,200.00	1,177.06	672.84	2.334	SF

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Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3108-17H
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)
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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						
1S-65W-20 Offsets Incomplete						
WAKEMAN 20-17-1NAH - POCO Planned Well - BKR PI						Out of range
WAKEMAN 20-17-1NBH - POCO Planned Well - BKR PI	18,095.78	17,835.13	1,247.21	786.21	2.705	CC, ES, SF
WAKEMAN 20-17-1NCH - POCO Planned Well - BKR PI						Out of range
WAKEMAN 20-17-2CDH - POCO Planned Well - BKR PI	18,095.78	17,954.40	1,013.21	630.11	2.645	CC, ES, SF
WAKEMAN 20-17-2NAH - POCO Planned Well - BKR PI	18,095.78	17,526.80	893.47	520.55	2.396	CC, ES, SF
WAKEMAN 20-17-2NBH - POCO Planned Well - BKR PI	18,095.78	17,593.78	766.78	648.61	6.489	CC, ES, SF
WAKEMAN 20-17-2NCH - POCO Planned Well - BKR PI	18,095.78	17,719.88	785.45	536.12	3.150	CC, ES, SF
WAKEMAN 20-17-3NCH - POCO Planned Well - BKR PI	18,095.78	17,619.74	971.79	725.92	3.953	CC, ES, SF

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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

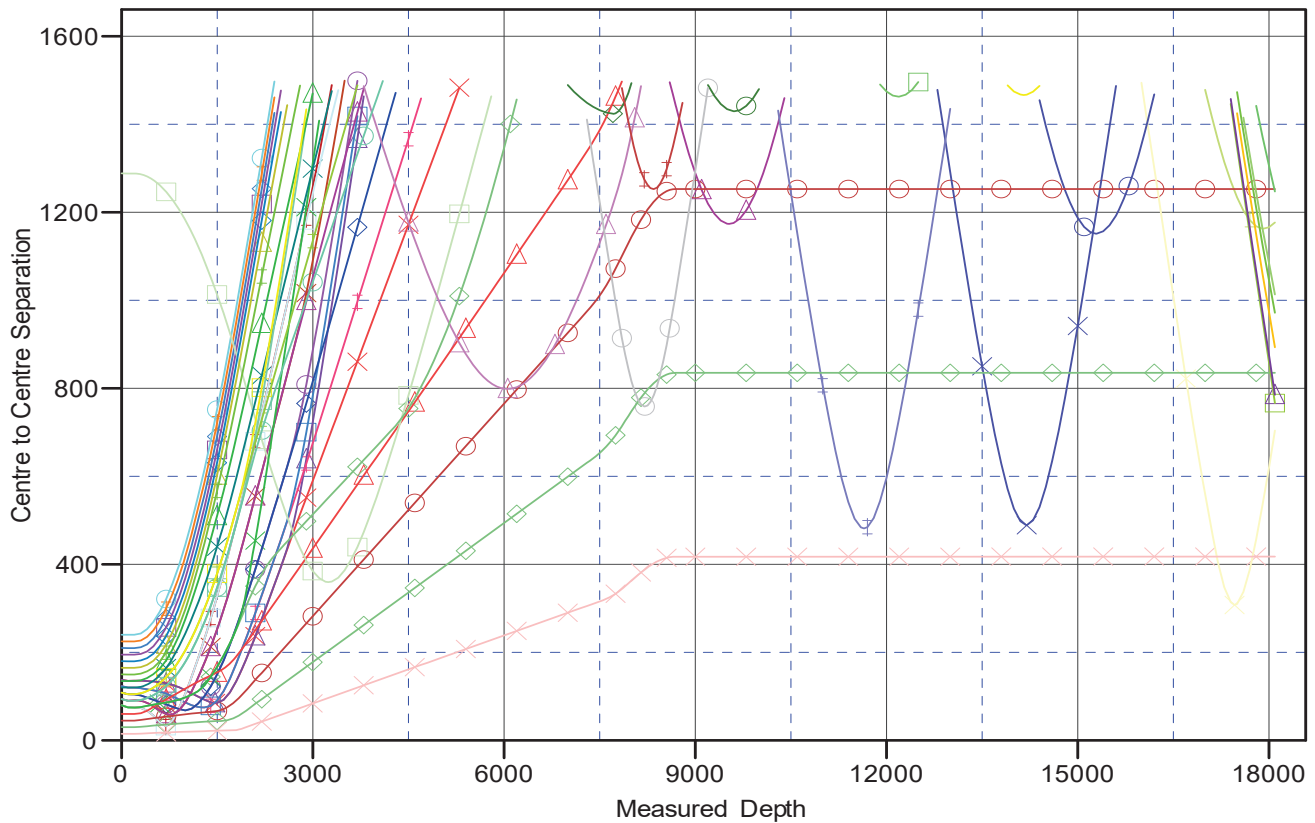
Central Meridian is -105.500000

Coordinates are relative to: COUNTY LINE 3108-17H

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	BERGMAN1, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-06H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-01H, Wellbore#1, Design #3 V0	RAINBOW1, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-09H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-03H, Wellbore#1, Design #3 V0	HSR-DREYER 5-5, Kerr McGee P&A Well, No Surveys V0	COUNTY LINE 3107-07H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-02H, Wellbore#1, Design #3 V0	DREYER 2, Kerr McGee P&A Well, No Surveys V0	COUNTY LINE 3107-05H, Wellbore#1, Design #3 V0
COUNTY LINE 3130-06H, VERDAD Drilled-Surface, PlanB V0	DREYER 1, 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	CHAMPLIN78 AMOCO D #1, Kerr McGee P&A Well, No Surveys V0	COUNTY LINE 3107-11H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-05H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3108-14H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-08H, Wellbore#1, Design #3 V0
COUNTY LINE 3130-01H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3108-15H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-10H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-01H, 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 3130-04H, 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 3130-02H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	ADAM TEND-A, CPR P&A Well, No Surveys V0	WAKEMAN20-17-3NCH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-04H, VERDAD Drilled-Surface, PlanB V0	SACK-HETT #1, VESSELS P/A Well, No Surveys V0	WAKEMAN20-17-2DCH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-02H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	SAWYER #2-8, LIUS Energy Planned Well, Planned LIUS Surveys V0	WAKEMAN20-17-2NBH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-02H, VERDAD Drilled-Surface, PlanB V0	SAWYER-QUILKSEN #32-3, PARPacfic P/A Well, No Surveys V0	WAKEMAN20-17-2NCH, POCO Planned Well, BKR Planned Surveys V0
MELISSA 1, VERDAD PR Well, No Surveys V0	SAWYER #2-7, LIUS Energy Planned Well, Planned LIUS Surveys V0	WAKEMAN20-17-1NBH, POCO Planned Well, BKR Planned Surveys V0
TIPPERARY 34-8, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Plan A V0	
BERGMAN32-8, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0	

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well COUNTY LINE 3108-17H
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 3108-17H	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

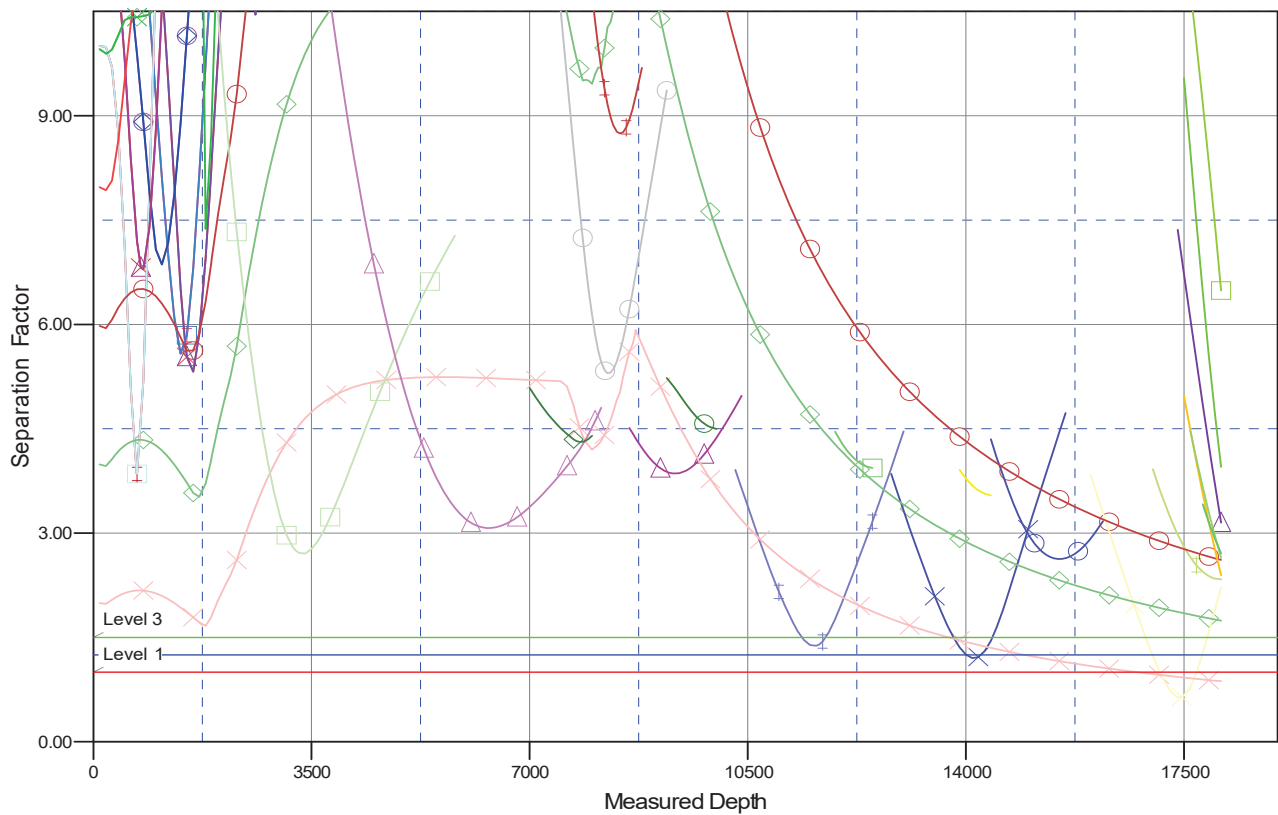
Central Meridian is -105.500000

Coordinates are relative to: COUNTY LINE 3108-17H

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	BERGMAN1, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-06H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-01H, Wellbore#1, Design #3 V0	RAINBOW1, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-09H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-03H, Wellbore#1, Design #3 V0	HSR-DREYER 5-5, Kerr McGee P&A Well, No Surveys V0	COUNTY LINE 3107-07H, Wellbore#1, Design #3 V0
COUNTY LINE 3112-02H, Wellbore#1, Design #3 V0	DREYER2, Kerr McGee P&A Well, No Surveys V0	COUNTY LINE 3107-05H, Wellbore#1, Design #3 V0
COUNTY LINE 3130-06H, VERDAD Drilled-Surface, PlanB V0	DREYER1, 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, Actual SLB Surface Surveys V0	CHAMPLIN78 AMOCO D #1, Kerr McGee P&A Well, No Surveys V0	COUNTY LINE 3107-11H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-05H, VERDAD Drilled-Surface, PlanB V0	COUNTY LINE 3108-14H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-08H, Wellbore#1, Design #3 V0
COUNTY LINE 3130-05H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	COUNTY LINE 3108-15H, Wellbore #1, Design #1 V0	COUNTY LINE 3107-10H, VERDAD Drilled-Surface Well, Plan A V0
COUNTY LINE 3130-01H, 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, PlanB V0	COUNTY LINE 3108-16H, Wellbore #1, Design #1 V0	WAKEMAN20-17-2NAH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-04H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	ADAM TEN-1A, CRR P&A Well, No Surveys V0	WAKEMAN20-17-3NCH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-04H, VERDAD Drilled-Surface, PlanB V0	SACK-HETT #1, VESSELS P/A Well, No Surveys V0	WAKEMAN20-17-2DCH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-02H, VERDAD Drilled-Surface, Actual SLB Surface Surveys V0	SAWYER #2-8, ULIS Energy Planned Well, Planned ULIS Surveys V0	WAKEMAN20-17-2NBH, POCO Planned Well, BKR Planned Surveys V0
COUNTY LINE 3130-02H, VERDAD Drilled-Surface, PlanB V0	SAWYER-QUILLIKSEN #32-3, PARPac P/A Well, No Surveys V0	WAKEMAN20-17-2NCH, POCO Planned Well, BKR Planned Surveys V0
MELISSA 1, VERDAD PR Well, No Surveys V0	SAWYER #2-7, ULIS Energy Planned Well, Planned ULIS Surveys V0	WAKEMAN20-17-1NBH, POCO Planned Well, BKR Planned Surveys V0
TIPPERARY 34-8, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Plan A V0	
BERGMAN32-8, VERDAD PR Well, No Surveys V0	COUNTY LINE 3107-12H, VERDAD Drilled-Surface Well, Actual SLB Surface Surveys V0	