

VERDAD RESOURCES

**WATTENBERG FIELD
2N-64W-28 GEORGENE PAD
GEORGENE 2833-02H**

**Plan B
Design #3**

Anticollision Summary Report

28 October, 2022

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well GEORGENE 2833-02H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 5042.00usft (RIG)
Reference Site:	2N-64W-28 GEORGENE PAD	MD Reference:	RKB = 24' @ 5042.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGENE 2833-02H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #3	Offset TVD Reference:	Offset Datum

Reference	Design #3		
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 1,000.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	10/28/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	2,376.00	Design #3 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination
2,376.00	15,955.96	Design #3 (Plan B)	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-64W-05 Offsets						
GRINDE 01-64-05 0108C - HPR PR Well - Actual Atlas S	15,956.34	13,429.68	882.10	676.71	4.295	CC, ES, SF
2N-64W-28 GEORGENE PAD						
GEORGENE 2833-01H - Plan B - Design #3	200.00	200.00	16.00	8.43	2.114	CC, ES
GEORGENE 2833-01H - Plan B - Design #3	15,956.34	16,191.68	474.53	176.84	1.594	SF
GEORGENE 2833-03H - Plan B - Design #3	220.40	220.40	16.00	8.42	2.110	CC, ES
GEORGENE 2833-03H - Plan B - Design #3	15,956.34	15,742.74	474.55	178.63	1.604	SF
GEORGENE 2833-04H - Plan B - Design #3	220.40	220.40	32.00	24.42	4.221	CC, ES, SF
GEORGENE 2833-05H - Plan B - Design #3	220.40	220.40	48.00	40.42	6.331	CC, ES, SF
GEORGENE 2833-06H - Plan B - Design #3	220.40	220.40	64.00	56.42	8.442	CC, ES, SF
GEORGENE 2833-07H - Plan B - Design #3	220.40	220.40	80.00	72.42	10.552	CC, ES, SF
GEORGENE 2833-08H - Plan B - Design #3	200.00	200.00	96.00	88.43	12.686	CC
GEORGENE 2833-08H - Plan B - Design #3	220.40	220.39	96.00	88.42	12.663	ES, SF
2N-64W-28 Offsets Incomplete						
BRNAK 34-28 - Noble T/A Well - No Surveys	3,226.33	2,802.56	442.27	313.73	3.441	CC
BRNAK 34-28 - Noble T/A Well - No Surveys	3,300.00	2,860.54	444.60	313.12	3.382	ES
BRNAK 34-28 - Noble T/A Well - No Surveys	3,400.00	2,939.24	455.06	320.04	3.370	SF
BRNAK 44-28 - Noble T/A Well - No Surveys	1,499.98	1,425.85	122.55	64.47	2.110	CC
BRNAK 44-28 - Noble T/A Well - No Surveys	1,500.00	1,425.87	122.55	64.47	2.110	ES
BRNAK 44-28 - Noble T/A Well - No Surveys	1,600.00	1,515.29	130.47	68.58	2.108	SF
BRNAK 77-28 - Noble P&A Well - No Surveys	3,113.01	2,705.37	486.96	363.40	3.941	CC
BRNAK 77-28 - Noble P&A Well - No Surveys	3,200.00	2,773.83	489.91	362.93	3.858	ES
BRNAK 77-28 - Noble P&A Well - No Surveys	3,300.00	2,852.54	500.44	369.90	3.834	SF
GREER 13-28 - Noble T/A Well - No Surveys	8,900.00	7,000.00	520.86	197.59	1.611	ES, SF
GREER 13-28 - Noble T/A Well - No Surveys	9,023.51	7,000.00	506.01	200.60	1.657	CC
GREER 14-28 - Noble T/A Well - No Surveys	10,300.00	7,024.00	503.23	198.40	1.651	ES, SF
GREER 14-28 - Noble T/A Well - No Surveys	10,338.54	7,024.00	501.75	200.40	1.665	CC
GREER 23-28 - Noble T/A Well - No Surveys	6,150.52	5,081.02	80.79	-174.48	0.317	Level 1, CC, ES, SF
GREER 24-28 - Noble T/A Well - No Surveys	10,534.60	7,018.00	813.62	511.73	2.695	CC
GREER 24-28 - Noble T/A Well - No Surveys	10,600.00	7,018.00	816.24	510.92	2.673	ES
GREER 24-28 - Noble T/A Well - No Surveys	10,700.00	7,018.00	830.26	519.63	2.673	SF
STONEBRAKER 32-28 - PDC P&A Well - No Surveys						Out of range
STONEBRAKER 42-28 - PDC P&A Well - No Surveys						Out of range
STONEBRAKER 28V-234 - PDC PR Well - Actual Ensi	8,108.40	10,641.91	808.55	601.56	3.906	CC
STONEBRAKER 28V-234 - PDC PR Well - Actual Ensi	8,150.00	10,665.24	810.80	599.87	3.844	ES

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Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #3	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						
2N-64W-28 Offsets Incomplete						
STONEBREAKER 28V-234 - PDC PR Well - Actual Ensi	8,200.00	10,687.29	819.55	604.20	3.806	SF
STONEBREAKER 28W-304 - PDC PR Well - Actual Ens	8,302.70	10,790.00	284.06	111.47	1.646	CC
STONEBREAKER 28W-304 - PDC PR Well - Actual Ens	8,400.00	10,835.47	304.24	97.59	1.472	Level 3, ES, SF
2N-64W-29 Offsets						
BAUMGARTNER 14-29 - Noble P&A Well - Actual VES S						Out of range
BELL #41-29 - Noble T/A Well - No Surveys						Out of range
Bell USX #Y29-03 - Noble T/A Well - No Surveys						Out of range
JIM CREEK #1-29 - Noble P&A Well - No Surveys						Out of range
KAMINSKY #1-29 - Noble P&A Well - Actual VES Survey						Out of range
NGL C5 - NGL T/A IJ Well - No Surveys						Out of range
NGL C5A - NGL IJ Well - Actual Ensign Surveys						Out of range
NGL C5B - NGL IJ Well - Actual Total Surveys						Out of range
PARKER #29-34 - Noble SI Well - Actual Coretech Surve						Out of range
2N-64W-32 Offsets						
Ruhl 1K-32H-B264 - CPR PR Well - Actual Cathedral Su						Out of range
Ruhl 1L-32H-B264 - CPR PR Well - Actual Cathedral Su						Out of range
2N-64W-33 Offsets						
JACKSON 33-6H - Verdad PR Well - Actual BHI Surveys	15,925.48	12,311.40	934.20	682.36	3.710	CC
JACKSON 33-6H - Verdad PR Well - Actual BHI Surveys	15,955.97	12,336.74	934.28	681.34	3.694	ES
JACKSON 33-6H - Verdad PR Well - Actual BHI Surveys	15,956.34	12,337.05	934.28	681.34	3.694	SF
JACKSON 33-7H - Verdad PR Well - Actual BHI Surveys						Out of range
UPV 33-13K4 - Noble T/A Well - No Surveys	15,318.39	7,005.00	29.17	-353.89	0.076	Level 1, CC, ES, SF
UPV 33-15K4 - Noble P&A Well - No Surveys						Out of range
UPV 33-7K4 - Noble T/A Well - No Surveys						Out of range
2N-64W-34 Offsets Incomplete						
FRITZLER 12-34 - Noble PR Well - Actual VES Surveys						Out of range

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Reference Depths are relative to RKB = 24' @ 5042.00usft (RIG)

Offset Depths are relative to Offset Datum

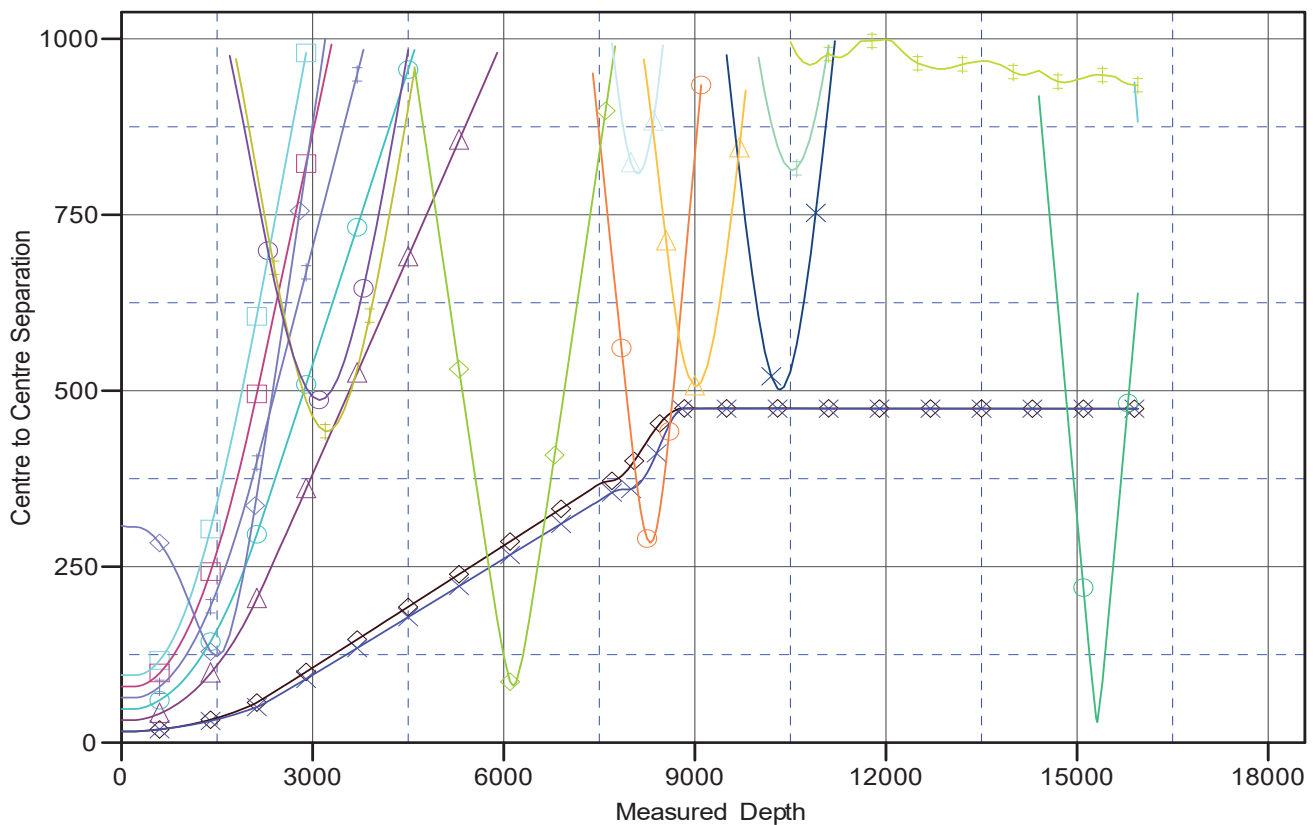
Central Meridian is -105.500000

Coordinates are relative to: GEORGENE 2833-02H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.61°

Ladder Plot



LEGEND

GEORGENE 2833-08H, Plan B, Design #3 V0	GRINDE 0164-05 0108C, HPR PR Well, Actual Atlas Surveys V0	BRNAK 3428, Noble T/A Well, No Surveys V0
GEORGENE 2833-03H, Plan B, Design #3 V0	STONEBREAKER 28W-304, PDC PR Well, Actual Ensign Surveys V0	GREER 2428, Noble T/A Well, No Surveys V0
GEORGENE 2833-05H, Plan B, Design #3 V0	GREER 2328, Noble T/A Well, No Surveys V0	BRNAK 7728, Noble P&A Well, No Surveys V0
GEORGENE 2833-06H, Plan B, Design #3 V0	BRNAK 4428, Noble T/A Well, No Surveys V0	UPV 33-1394, Noble T/A Well, No Surveys V0
GEORGENE 2833-07H, Plan B, Design #3 V0	GREER 1428, Noble T/A Well, No Surveys V0	JACKSON 38-6H, Verdad PR Well, Actual BHI Surveys V0
GEORGENE 2833-01H, Plan B, Design #3 V0	STONEBREAKER 28V-254, PDC PR Well, Actual Ensign Surveys V0	
GEORGENE 2833-04H, Plan B, Design #3 V0	GREER 1328, Noble T/A Well, No Surveys V0	

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Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.61°

