

VERDAD RESOURCES

**WATTENBERG FIELD
2N-64W-28 GEORGENE PAD
GEORGENE 2833-01H**

**Plan B
Design #3**

Anticollision Summary Report

28 October, 2022

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well GEORGENE 2833-01H
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 2833-01H	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	16,191.78	Design #3 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
Offset Well - Wellbore - Design			Between Centres (usft)	Between Ellipses (usft)		
1N-64W-05 Offsets						
GRINDE 01-64-05 0108C - HPR PR Well - Actual Atlas S	16,191.78	12,893.67	875.33	676.17	4.395	CC, ES, SF
2N-64W-28 GEORGENE PAD						
GEORGENE 2833-02H - Plan B - Design #3	200.00	200.00	16.00	8.43	2.114	CC, ES
GEORGENE 2833-02H - Plan B - Design #3	16,191.78	15,956.34	474.53	176.85	1.594	SF
GEORGENE 2833-03H - Plan B - Design #3	200.00	200.00	32.00	24.43	4.229	CC, ES
GEORGENE 2833-03H - Plan B - Design #3	16,191.78	15,742.80	949.09	652.30	3.198	SF
GEORGENE 2833-04H - Plan B - Design #3	200.00	200.00	48.00	40.43	6.343	CC, ES, SF
GEORGENE 2833-05H - Plan B - Design #3	200.00	200.00	64.00	56.43	8.457	CC, ES, SF
GEORGENE 2833-06H - Plan B - Design #3	200.00	200.00	80.00	72.43	10.572	CC, ES, SF
GEORGENE 2833-07H - Plan B - Design #3	200.00	200.00	96.00	88.43	12.686	CC, ES, SF
GEORGENE 2833-08H - Plan B - Design #3	200.00	200.00	112.00	104.43	14.800	CC, ES, SF
2N-64W-28 Offsets Incomplete						
BRNAK 34-28 - Noble T/A Well - No Surveys	3,170.64	2,728.03	357.06	230.64	2.824	CC
BRNAK 34-28 - Noble T/A Well - No Surveys	3,200.00	2,750.37	357.57	229.96	2.802	ES
BRNAK 34-28 - Noble T/A Well - No Surveys	3,300.00	2,826.46	366.79	235.71	2.798	SF
BRNAK 44-28 - Noble T/A Well - No Surveys	1,430.54	1,361.04	147.86	92.55	2.673	CC, ES
BRNAK 44-28 - Noble T/A Well - No Surveys	1,500.00	1,423.84	150.81	92.73	2.596	SF
BRNAK 77-28 - Noble P&A Well - No Surveys	2,979.42	2,574.54	566.50	448.22	4.789	CC
BRNAK 77-28 - Noble P&A Well - No Surveys	3,000.00	2,590.20	566.66	447.55	4.758	ES
BRNAK 77-28 - Noble P&A Well - No Surveys	3,200.00	2,742.37	584.30	457.84	4.620	SF
GREER 13-28 - Noble T/A Well - No Surveys	9,200.00	7,000.00	66.68	-296.80	0.183	Level 1, ES
GREER 13-28 - Noble T/A Well - No Surveys	9,258.84	7,000.00	31.35	-276.34	0.102	Level 1, CC, SF
GREER 14-28 - Noble T/A Well - No Surveys	10,500.00	7,024.00	78.70	-278.60	0.220	Level 1, ES
GREER 14-28 - Noble T/A Well - No Surveys	10,573.87	7,024.00	27.12	-276.69	0.089	Level 1, CC, SF
GREER 23-28 - Noble T/A Well - No Surveys	5,898.69	4,780.69	270.52	25.40	1.104	Level 2, CC
GREER 23-28 - Noble T/A Well - No Surveys	5,900.00	4,781.69	270.52	25.35	1.103	Level 2, ES, SF
GREER 24-28 - Noble T/A Well - No Surveys						Out of range
STONEBRAKER 32-28 - PDC P&A Well - No Surveys						Out of range
STONEBRAKER 42-28 - PDC P&A Well - No Surveys						Out of range
STONEBREAKER 28V-234 - PDC PR Well - Actual Ensi	8,321.38	11,060.88	794.16	559.24	3.381	CC
STONEBREAKER 28V-234 - PDC PR Well - Actual Ensi	8,350.00	11,076.07	795.23	557.15	3.340	ES
STONEBREAKER 28V-234 - PDC PR Well - Actual Ensi	8,400.00	11,105.60	802.16	559.26	3.302	SF
STONEBREAKER 28W-304 - PDC PR Well - Actual Ens	8,523.29	11,259.94	271.92	76.83	1.394	Level 3, CC
STONEBREAKER 28W-304 - PDC PR Well - Actual Ens	8,600.00	11,295.08	284.82	56.83	1.249	Level 2, ES, SF

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Offset Well - Wellbore - Design						
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	8,800.00	7,849.34	979.31	874.40	9.335	SF
NGL C5A - NGL IJ Well - Actual Ensign Surveys	9,000.00	7,868.46	912.72	827.42	10.700	ES
NGL C5A - NGL IJ Well - Actual Ensign Surveys	9,035.59	7,868.61	911.07	829.17	11.124	CC
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	15,943.27	11,542.00	746.36	483.64	2.841	CC, ES
Ruhl 1K-32H-B264 - CPR PR Well - Actual Cathedral Su	16,000.00	11,542.00	748.52	483.90	2.829	SF
Ruhl 1L-32H-B264 - CPR PR Well - Actual Cathedral Su	11,607.01	7,332.97	529.33	442.80	6.117	CC
Ruhl 1L-32H-B264 - CPR PR Well - Actual Cathedral Su	16,100.00	11,798.00	546.41	295.58	2.178	ES, SF
2N-64W-33 Offsets						
JACKSON 33-6H - Verdad PR Well - Actual BHI Surveys						Out of range
JACKSON 33-7H - Verdad PR Well - Actual BHI Surveys						Out of range
UPV 33-13K4 - Noble T/A Well - No Surveys	15,500.00	7,005.00	506.57	120.29	1.311	Level 3, SF
UPV 33-13K4 - Noble T/A Well - No Surveys	15,553.70	7,005.00	503.72	119.65	1.312	Level 3, CC, ES
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						
FRTZLER 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

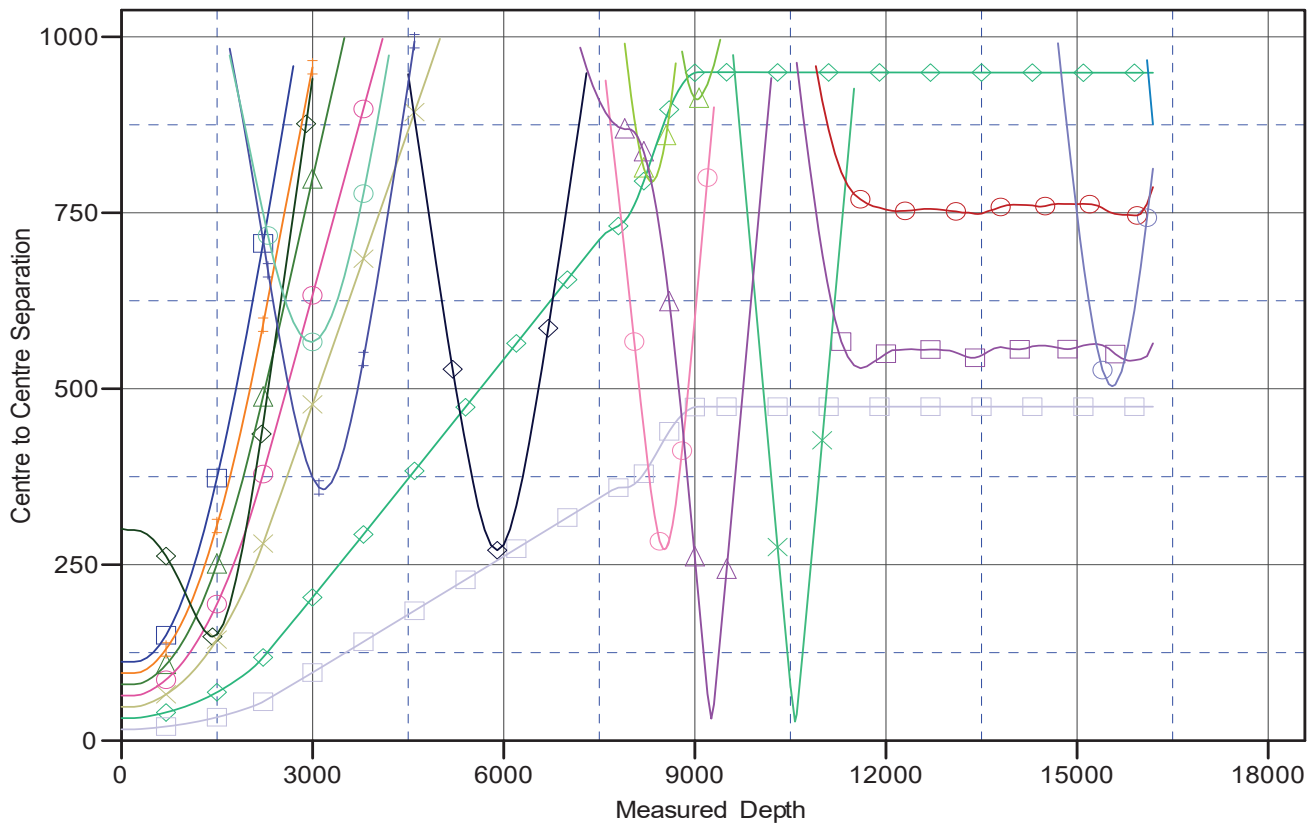
Central Meridian is -105.500000

Coordinates are relative to: GEORGENE 2833-01H

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
GEORGENE 2833-03H, Plan B, Design #3 V0
GEORGENE 2833-05H, Plan B, Design #3 V0
GEORGENE 2833-06H, Plan B, Design #3 V0
GEORGENE 2833-07H, Plan B, Design #3 V0
GEORGENE 2833-02H, Plan B, Design #3 V0
GEORGENE 2833-04H, Plan B, Design #3 V0

GRINDE 0164-05 0108C, HPR PR Well, Actual Atlas Surveys V0
STONEBREAKER 28W-304, PDC PR Well, Actual Ensign Surveys V0
GREER 2328, Noble T/A Well, No Surveys V0
BRNAK 4428, Noble T/A Well, No Surveys V0
GREER 1428, Noble T/A Well, No Surveys V0
STONEBREAKER 28V-254, PDC PR Well, Actual Ensign Surveys V0
GREER 1328, Noble T/A Well, No Surveys V0

BRNAK 3428, Noble T/A Well, No Surveys V0
BRNAK 7728, Noble P&A Well, No Surveys V0
Ruhl 1L-32HB254, CPR PR Well, Actual Cathedral Surveys V0
Ruhl 1K-32HB254, CPR PR Well, Actual Cathedral Surveys V0
UPV 33-139A, Noble T/A Well, No Surveys V0
NGL CSA, NGL IJ Well, Actual Ensign Surveys V0

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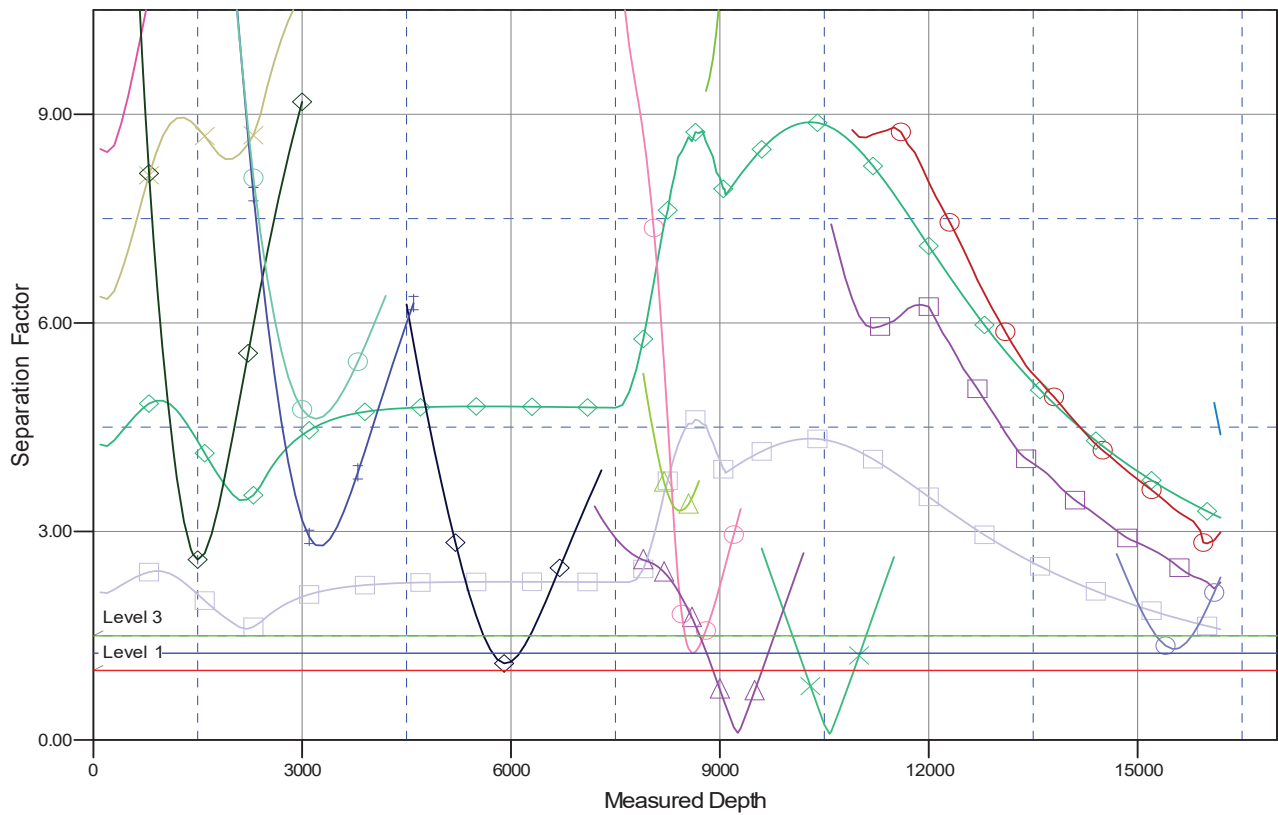
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Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.61°

Separation Factor Plot



LEGEND

GEORGENE 2833-08H, Plan B, Design #3 V0
GEORGENE 2833-03H, Plan B, Design #3 V0
GEORGENE 2833-05H, Plan B, Design #3 V0
GEORGENE 2833-06H, Plan B, Design #3 V0
GEORGENE 2833-07H, Plan B, Design #3 V0
GEORGENE 2833-02H, Plan B, Design #3 V0
GEORGENE 2833-04H, Plan B, Design #3 V0

GRINDE 0164-06 0108C, HPR PR Well, Actual Atlas Surveys V0
STONEBREAKER 28W-304, PDCPR Well, Actual Ensign Surveys V0
GREER 2328, Noble T/A Well, No Surveys V0
BRNAK 4428, Noble T/A Well, No Surveys V0
GREER 1428, Noble T/A Well, No Surveys V0
STONEBREAKER 28V-254, PDCPR Well, Actual Ensign Surveys V0
GREER 1328, Noble T/A Well, No Surveys V0

BRNAK 3428, Noble T/A Well, No Surveys V0
BRNAK 7728, Noble P&A Well, No Surveys V0
Ruhl 1K-32HB264, CPR PR Well, Actual Cathedral Surveys V0
Ruhl 1K-32HB264, CPR PR Well, Actual Cathedral Surveys V0
UPV 33-13N4, Noble T/A Well, No Surveys V0
NGL CSA, NGL U Well, Actual Ensign Surveys V0