

# **VERDAD RESOURCES**

**WATTENBERG FIELD  
2N-64W-28 GEORGENE PAD  
GEORGENE 2833-07H**

**Plan B  
Design #3**

## **Anticollision Summary Report**

**28 October, 2022**

## Anticollision Summary Report

<b>Company:</b>	VERDAD RESOURCES	<b>Local Co-ordinate Reference:</b>	Well GEORGENE 2833-07H
<b>Project:</b>	WATTENBERG FIELD	<b>TVD Reference:</b>	RKB = 24' @ 5042.00usft (RIG)
<b>Reference Site:</b>	2N-64W-28 GEORGENE PAD	<b>MD Reference:</b>	RKB = 24' @ 5042.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGENE 2833-07H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Plan B	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	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	15,098.14	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	15,098.14	16,689.80	874.62	693.51	4.829	CC, ES, SF
2N-64W-28 GEORGENE PAD						
GEORGENE 2833-01H - Plan B - Design #3	200.00	200.00	96.00	88.43	12.686	CC, ES, SF
GEORGENE 2833-02H - Plan B - Design #3	200.00	200.00	80.00	72.43	10.572	CC, ES
GEORGENE 2833-02H - Plan B - Design #3	300.00	298.27	80.86	73.20	10.569	SF
GEORGENE 2833-03H - Plan B - Design #3	208.02	208.02	64.00	56.43	8.452	CC, ES
GEORGENE 2833-03H - Plan B - Design #3	300.00	299.02	64.45	56.80	8.424	SF
GEORGENE 2833-04H - Plan B - Design #3	208.50	208.50	48.00	40.43	6.338	CC
GEORGENE 2833-04H - Plan B - Design #3	300.00	299.81	48.04	40.39	6.277	ES, SF
GEORGENE 2833-05H - Plan B - Design #3	300.00	300.00	32.00	24.35	4.181	CC, ES, SF
GEORGENE 2833-06H - Plan B - Design #3	300.00	300.00	16.00	8.35	2.091	CC, ES
GEORGENE 2833-06H - Plan B - Design #3	15,098.14	15,146.46	541.60	253.05	1.877	SF
GEORGENE 2833-08H - Plan B - Design #3	200.29	200.29	16.00	8.43	2.114	CC, ES
GEORGENE 2833-08H - Plan B - Design #3	15,098.14	15,051.34	541.70	252.56	1.874	SF
2N-64W-28 Offsets Incomplete						
BRNAK 34-28 - Noble T/A Well - No Surveys	9,513.42	7,008.00	934.93	647.02	3.247	CC, ES, SF
BRNAK 44-28 - Noble T/A Well - No Surveys	1,724.88	1,646.04	181.38	115.12	2.737	CC
BRNAK 44-28 - Noble T/A Well - No Surveys	9,705.21	7,028.00	204.94	-84.77	0.707	Level 1, ES, SF
BRNAK 77-28 - Noble P&A Well - No Surveys	8,833.06	7,000.00	298.16	10.45	1.036	Level 2, CC, ES, SF
GREER 13-28 - Noble T/A Well - No Surveys						Out of range
GREER 14-28 - Noble T/A Well - No Surveys						Out of range
GREER 23-28 - Noble T/A Well - No Surveys						Out of range
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	6,975.30	6,289.24	728.18	458.23	2.697	CC
STONEBRAKER 42-28 - PDC P&A Well - No Surveys	7,000.00	6,313.85	728.52	457.56	2.689	ES
STONEBRAKER 42-28 - PDC P&A Well - No Surveys	7,050.00	6,363.70	731.34	458.47	2.680	SF
STONEBREAKER 28V-234 - PDC PR Well - Actual Ensi	7,278.74	7,582.00	845.08	794.07	16.567	CC, ES
STONEBREAKER 28V-234 - PDC PR Well - Actual Ensi	7,400.00	7,582.00	865.03	811.37	16.121	SF
STONEBREAKER 28W-304 - PDC PR Well - Actual Ens	7,483.96	7,679.00	321.64	277.32	7.258	CC
STONEBREAKER 28W-304 - PDC PR Well - Actual Ens	7,500.00	7,679.00	322.24	276.71	7.077	ES
STONEBREAKER 28W-304 - PDC PR Well - Actual Ens	7,550.00	7,679.00	331.67	282.67	6.769	SF

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<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

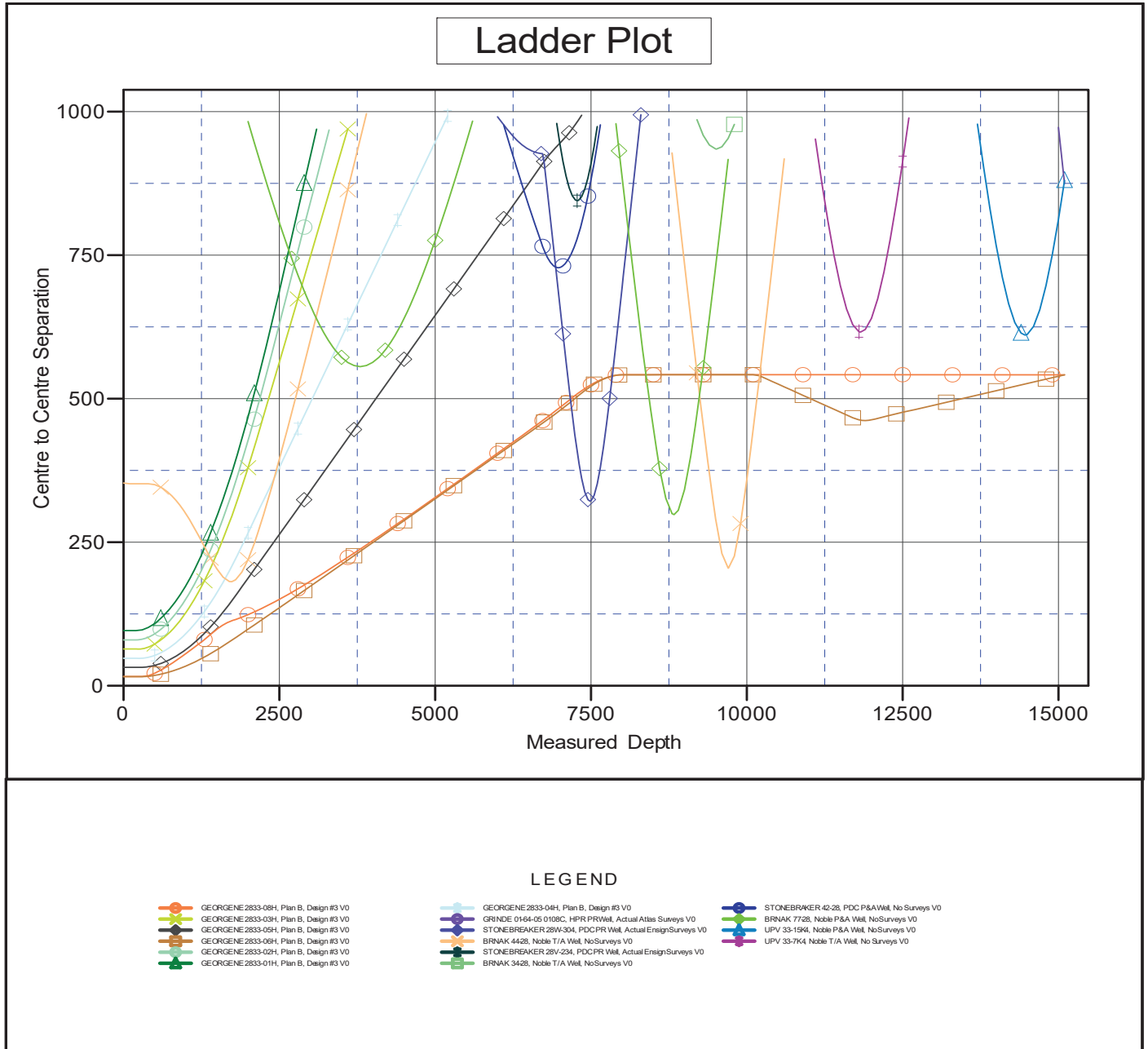
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
2N-64W-29 Offsets						
BAUMGARTNER 14-29 - Noble P&A Well - Actual VES S						Out of range
BELL #41-29 - Noble T/A Well - 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						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						Out of range
JACKSON 33-7H - Verdad PR Well - Actual BHI Surveys						Out of range
UPV 33-13K4 - Noble T/A Well - No Surveys						Out of range
UPV 33-15K4 - Noble P&A Well - No Surveys	14,464.23	7,044.00	610.99	232.24	1.613	CC, ES
UPV 33-15K4 - Noble P&A Well - No Surveys	14,500.00	7,044.00	612.03	232.38	1.612	SF
UPV 33-7K4 - Noble T/A Well - No Surveys	11,826.11	7,048.00	616.10	293.65	1.911	CC, ES, SF
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 2833-07H  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.61°



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Offset Depths are relative to Offset Datum

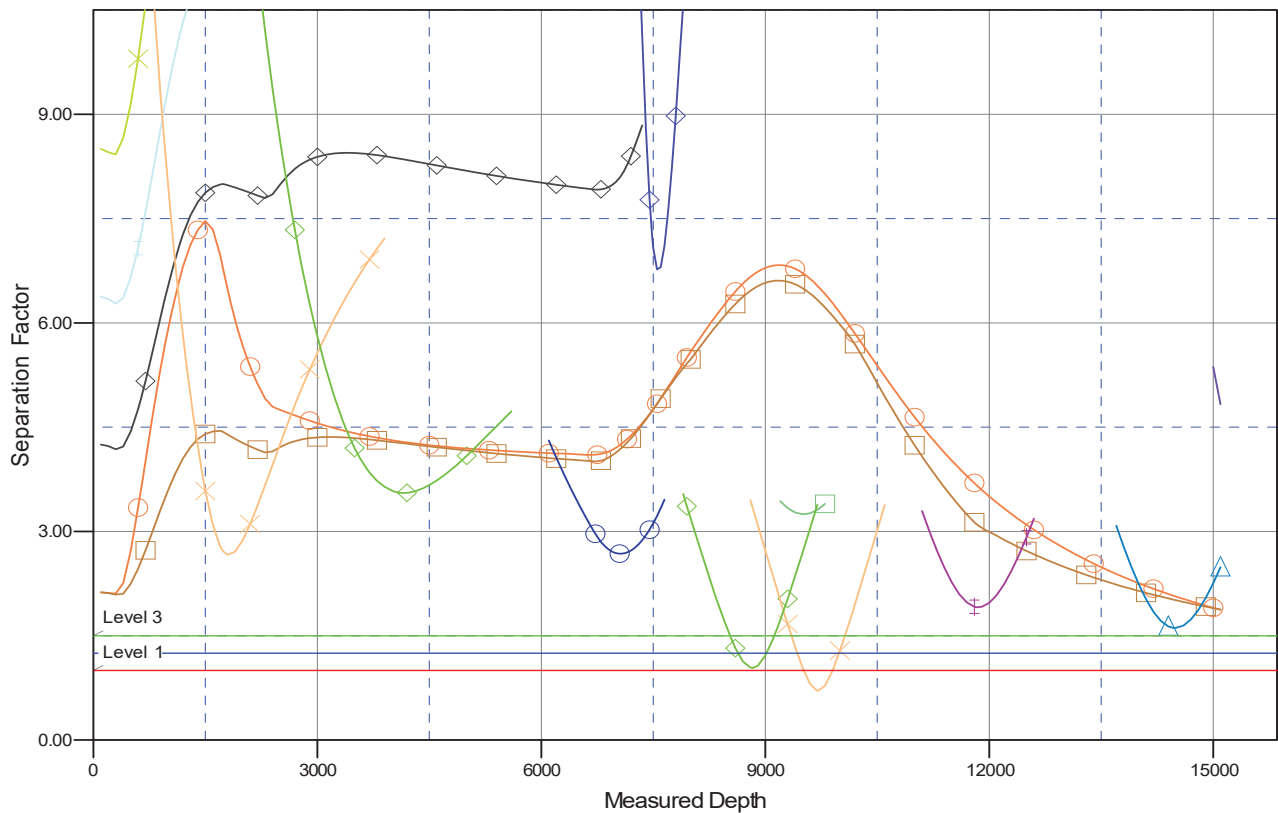
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### Separation Factor Plot



#### LEGEND

GEORGENE 2833-08H, Plan B, Design #3 V0	GEORGENE 2833-04H, Plan B, Design #3 V0	STONEBROWER 42-38, PDC P&A Well, No Surveys V0
GEORGENE 2833-09H, Plan B, Design #3 V0	GRINDE 0164-06 0109C, HPR PRW Well, Actual Atlas Surveys V0	BRNAK 7728, Noble P&A Well, No Surveys V0
GEORGENE 2833-05H, Plan B, Design #3 V0	STONEBREAKER 28W-304, PDCPR Well, Actual Ensign Surveys V0	UPV 33-19K4, 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 33-7K4, Noble T/A Well, No Surveys V0
GEORGENE 2833-02H, Plan B, Design #3 V0	STONEBREAKER 28V-234, PDCPR Well, Actual Ensign Surveys V0	
GEORGENE 2833-01H, Plan B, Design #3 V0	BRNAK 3428, Noble T/A Well, No Surveys V0	