

# **VERDAD RESOURCES**

**WATTENBERG FIELD  
2N-64W-28 GEORGENE PAD  
GEORGENE 2833-03H**

**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 2833-03H
<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 2833-03H	<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

<b>Reference</b>	Design #3		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum centre distance of 1,000.00usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.45 Sigma	<b>Casing Method:</b>	Added to Error Values

<b>Survey Tool Program</b>	<b>Date</b>	10/28/2022			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.00	2,376.00	Design #3 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination	
2,376.00	15,741.87	Design #3 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination	

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (usft)</b>	<b>Offset Measured Depth (usft)</b>	<b>Distance Between Centres (usft)</b>	<b>Distance Between Ellipses (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
1N-64W-05 Offsets						
GRINDE 01-64-05 0108C - HPR PR Well - Actual Atlas S	15,742.80	13,909.47	867.72	665.99	4.301	CC, ES, SF
2N-64W-28 GEORGENE PAD						
GEORGENE 2833-01H - Plan B - Design #3	200.00	200.00	32.00	24.43	4.229	CC, ES
GEORGENE 2833-01H - Plan B - Design #3	15,742.80	16,191.78	949.09	652.30	3.198	SF
GEORGENE 2833-02H - Plan B - Design #3	201.58	201.58	16.00	8.43	2.114	CC, ES
GEORGENE 2833-02H - Plan B - Design #3	15,742.80	15,956.34	474.55	178.62	1.604	SF
GEORGENE 2833-04H - Plan B - Design #3	240.50	240.50	16.00	8.40	2.106	CC, ES, SF
GEORGENE 2833-05H - Plan B - Design #3	240.50	240.50	32.00	24.40	4.212	CC, ES, SF
GEORGENE 2833-06H - Plan B - Design #3	240.50	240.50	48.00	40.40	6.319	CC, ES, SF
GEORGENE 2833-07H - Plan B - Design #3	240.50	240.50	64.00	56.40	8.425	CC, ES
GEORGENE 2833-07H - Plan B - Design #3	300.00	300.00	64.46	56.81	8.424	SF
GEORGENE 2833-08H - Plan B - Design #3	200.00	200.00	80.00	72.43	10.572	CC
GEORGENE 2833-08H - Plan B - Design #3	240.50	240.48	80.01	72.41	10.532	ES
GEORGENE 2833-08H - Plan B - Design #3	300.00	299.92	80.50	72.85	10.520	SF

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<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 2833-03H	<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

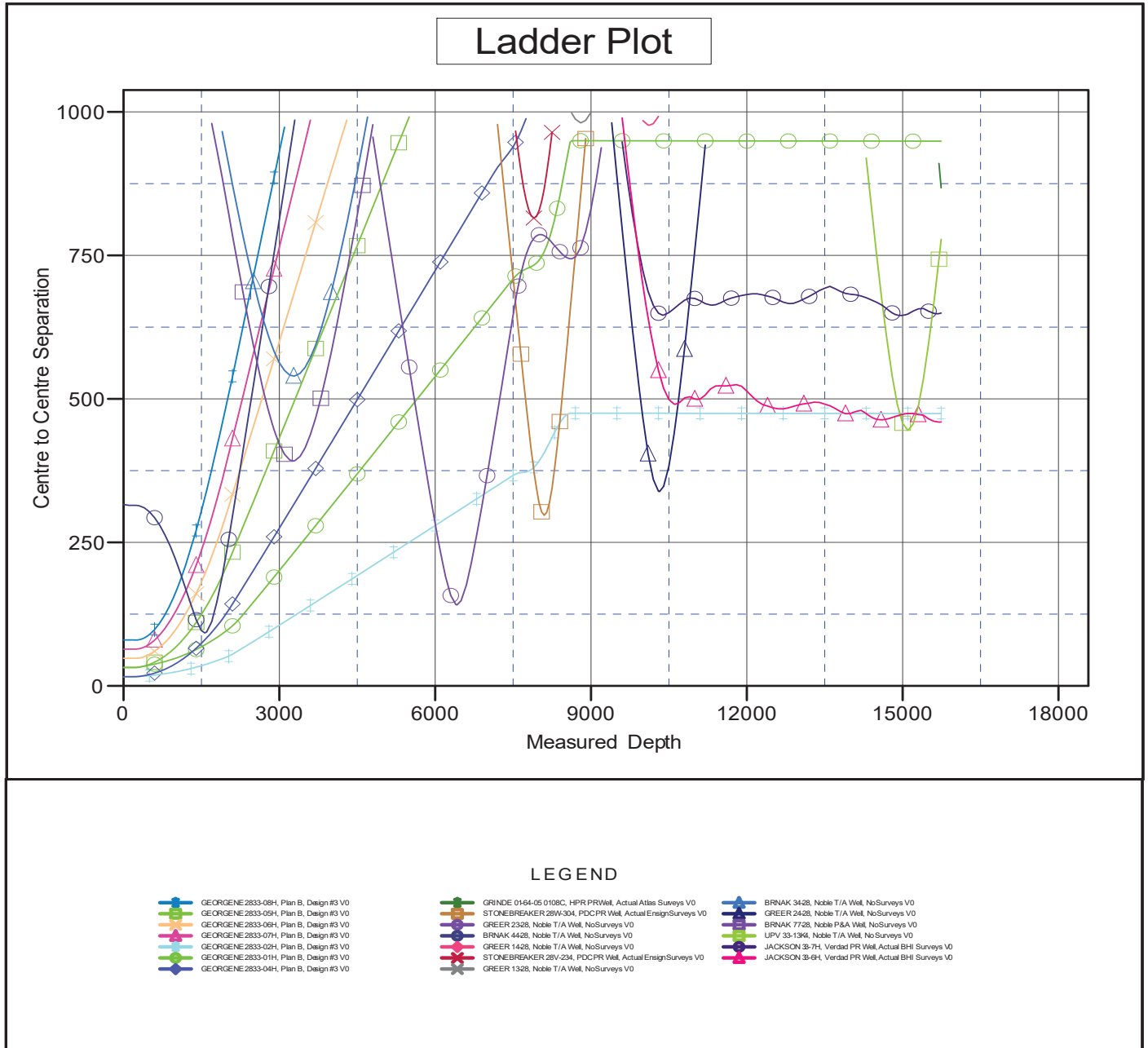
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
2N-64W-28 Offsets Incomplete						
BRNAK 34-28 - Noble T/A Well - No Surveys	3,276.09	2,875.68	539.86	409.52	4.142	CC
BRNAK 34-28 - Noble T/A Well - No Surveys	3,300.00	2,895.09	540.04	408.72	4.112	ES
BRNAK 34-28 - Noble T/A Well - No Surveys	3,500.00	3,057.49	555.46	416.52	3.998	SF
BRNAK 44-28 - Noble T/A Well - No Surveys	1,564.74	1,486.08	92.41	31.75	1.523	CC
BRNAK 44-28 - Noble T/A Well - No Surveys	1,600.00	1,517.54	93.77	31.74	1.512	ES, SF
BRNAK 77-28 - Noble P&A Well - No Surveys	3,265.16	2,858.81	391.97	262.37	3.024	CC
BRNAK 77-28 - Noble P&A Well - No Surveys	3,300.00	2,887.09	392.50	261.50	2.996	ES
BRNAK 77-28 - Noble P&A Well - No Surveys	3,400.00	2,968.29	399.80	265.14	2.969	SF
GREER 13-28 - Noble T/A Well - No Surveys	8,628.66	7,000.00	997.81	681.99	3.159	SF
GREER 13-28 - Noble T/A Well - No Surveys	8,700.00	7,000.00	987.34	676.44	3.176	ES
GREER 13-28 - Noble T/A Well - No Surveys	8,809.96	7,000.00	981.20	678.18	3.238	CC
GREER 14-28 - Noble T/A Well - No Surveys	10,000.00	7,024.00	984.78	681.21	3.244	SF
GREER 14-28 - Noble T/A Well - No Surveys	10,100.00	7,024.00	977.14	677.55	3.262	ES
GREER 14-28 - Noble T/A Well - No Surveys	10,124.99	7,024.00	976.82	678.08	3.270	CC
GREER 23-28 - Noble T/A Well - No Surveys	6,420.60	5,405.97	141.03	-124.86	0.530	Level 1, CC, ES, SF
GREER 24-28 - Noble T/A Well - No Surveys	10,320.94	7,018.00	338.56	39.25	1.131	Level 2, CC, ES, 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
STONEBREAKER 28V-234 - PDC PR Well - Actual Ensi	7,904.36	10,163.57	815.10	634.08	4.503	CC
STONEBREAKER 28V-234 - PDC PR Well - Actual Ensi	7,950.00	10,181.49	817.96	632.76	4.416	ES
STONEBREAKER 28V-234 - PDC PR Well - Actual Ensi	8,000.00	10,199.99	827.63	638.40	4.374	SF
STONEBREAKER 28W-304 - PDC PR Well - Actual Ens	8,102.07	10,349.63	297.28	145.16	1.954	CC
STONEBREAKER 28W-304 - PDC PR Well - Actual Ens	8,150.00	10,365.01	302.55	133.76	1.792	ES
STONEBREAKER 28W-304 - PDC PR Well - Actual Ens	8,200.00	10,379.30	318.85	136.73	1.751	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	15,710.90	12,310.50	459.72	208.80	1.832	CC
JACKSON 33-6H - Verdad PR Well - Actual BHI Surveys	15,742.80	12,339.46	459.82	207.70	1.824	ES, SF
JACKSON 33-7H - Verdad PR Well - Actual BHI Surveys	14,970.71	11,884.40	645.48	429.04	2.982	CC
JACKSON 33-7H - Verdad PR Well - Actual BHI Surveys	15,741.87	12,636.52	649.66	402.07	2.624	ES, SF
UPV 33-13K4 - Noble T/A Well - No Surveys	15,104.75	7,005.00	445.44	63.34	1.166	Level 2, 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 2833-03H  
 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

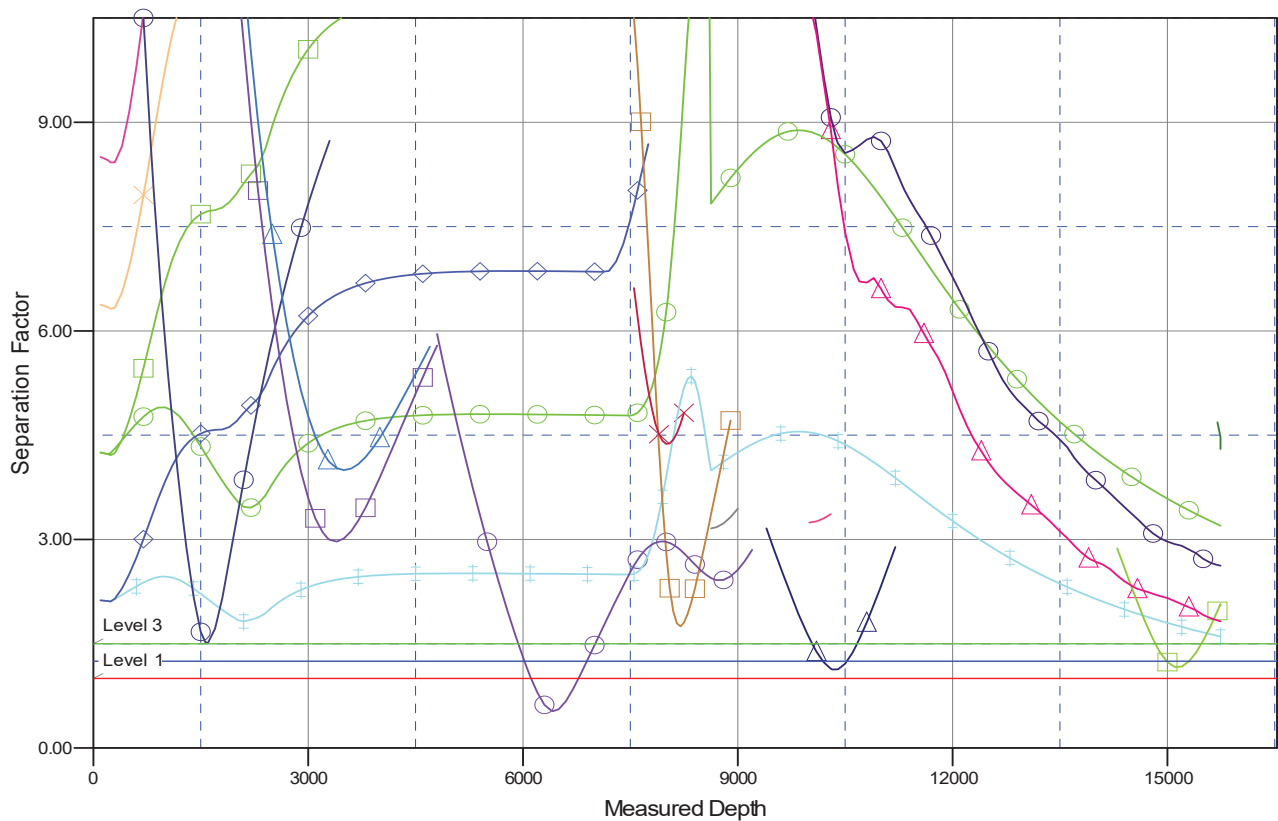
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Grid Convergence at Surface is: 0.61°

### Separation Factor 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 2833-05H, Plan B, Design #3 V0	STONEBREAKER 28W-304, PDCPR Well, Actual Ensign Surveys V0	GREER 2428, Noble T/A Well, No Surveys V0
GEORGENE 2833-06H, Plan B, Design #3 V0	GREER 2328, Noble T/A Well, No Surveys V0	BRNAK 7728, Noble P&A Well, No Surveys V0
GEORGENE 2833-07H, Plan B, Design #3 V0	BRNAK 4428, Noble T/A Well, No Surveys V0	UPV 33-13K4, Noble T/A Well, No Surveys V0
GEORGENE 2833-02H, Plan B, Design #3 V0	GREER 1428, Noble T/A Well, No Surveys V0	JACKSON 35-7H, Verdad PR Well, Actual BHI Surveys V0
GEORGENE 2833-01H, Plan B, Design #3 V0	STONEBREAKER 28V-254, PDCPR Well, Actual Ensign Surveys V0	JACKSON 35-6H, Verdad PR Well, Actual BHI Surveys V0
GEORGENE 2833-04H, Plan B, Design #3 V0	GREER 1328, Noble T/A Well, No Surveys V0	