

# **VERDAD RESOURCES**

**WATTENBERG FIELD  
1N-64W-17 WARNER PAD  
WARNER 1708-09H**

**Plan A  
Design #1**

## **Anticollision Summary Report**

**24 May, 2023**

## Anticollision Summary Report

<b>Company:</b>	VERDAD RESOURCES	<b>Local Co-ordinate Reference:</b>	Well WARNER 1708-09H
<b>Project:</b>	WATTENBERG FIELD	<b>TVD Reference:</b>	RKB = 20' @ 5088.00usft (RIG)
<b>Reference Site:</b>	1N-64W-17 WARNER PAD	<b>MD Reference:</b>	RKB = 20' @ 5088.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WARNER 1708-09H	<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 A	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Design #1		
<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 1,500.00usft	<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>	5/24/2023			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.00	2,120.00	Design #1 (Plan A)	ISCWSA MWD	Fixed:v2:standard declination	
2,120.00	17,764.39	Design #1 (Plan A)	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 01-64-05-6457CB - HPR PR Well - Actual Atlas	17,764.73	12,023.77	389.49	162.68	1.717	CC, ES, SF
1N-64W-08 Offsets						
BLACKBURN 01N-64W-08-8N - Verdad SI Well - Actual	16,159.00	8,805.61	169.19	-66.80	0.717	Level 1, CC
BLACKBURN 01N-64W-08-8N - Verdad SI Well - Actual	17,425.62	7,538.14	176.87	-73.03	0.708	Level 1, ES, SF
EAST HUDSON A/HUBBS #1-8 - Classic Petroleum D/A						Out of range
1N-64W-10 Offsets						
BRNAK 01-64-10-1H - VERDAD PR Well - Actual BKR S						Out of range
1N-64W-16 Offsets						
EAST HUDSON B STATE #1-16 - Gusher Oil & Gas P/A	10,799.68	7,143.00	1,084.90	754.61	3.285	CC
EAST HUDSON B STATE #1-16 - Gusher Oil & Gas P/A	10,900.00	7,143.00	1,089.53	753.97	3.247	ES
EAST HUDSON B STATE #1-16 - Gusher Oil & Gas P/A	11,000.00	7,143.00	1,103.24	763.03	3.243	SF
STATE #1 - Karen Oil D/A Well - No Surveys						Out of range
STATE #14-16 - Kaiser-Francis Oil P/A Well - No Survey						Out of range
TURECEK STATE 16-1H - VERDAD PR Well - Actual M	12,178.56	6,847.18	792.49	674.27	6.703	CC
TURECEK STATE 16-1H - VERDAD PR Well - Actual M	12,200.00	6,838.00	792.73	673.69	6.659	ES
TURECEK STATE 16-1H - VERDAD PR Well - Actual M	12,300.00	6,806.00	800.19	677.45	6.519	SF
1N-64W-17 WARNER PAD						
WARNER 01N-64W-17-1H - Verdad SI Well - Actual BHI	150.42	145.43	132.64	125.09	17.563	CC, ES
WARNER 01N-64W-17-1H - Verdad SI Well - Actual BHI	200.00	193.33	132.95	125.37	17.539	SF
WARNER 01N-64W-17-2H - Verdad SI Well - Actual BHI	100.00	94.88	117.19	109.65	15.557	CC, ES
WARNER 01N-64W-17-2H - Verdad SI Well - Actual BHI	200.00	194.80	117.33	109.75	15.478	SF
WARNER 1708-03H - Plan B - Design #1	200.00	200.00	96.04	88.47	12.689	CC, ES, SF
WARNER 1708-04H - Plan B - Design #1	200.00	200.00	80.14	72.57	10.589	CC, ES, SF
WARNER 1708-05H - Plan B - Design #1	200.00	200.00	64.12	56.55	8.472	CC, ES, SF
WARNER 1708-06H - Plan B - Design #1	200.00	200.00	48.16	40.59	6.363	CC, ES, SF
WARNER 1708-07H - Plan B - Design #1	200.00	200.00	32.20	24.64	4.255	CC, ES
WARNER 1708-07H - Plan B - Design #1	17,757.25	17,471.01	1,118.86	640.61	2.340	SF
WARNER 1708-08H - Plan B - Design #1	200.00	200.00	15.96	8.40	2.109	CC, ES
WARNER 1708-08H - Plan B - Design #1	17,761.74	17,597.70	559.99	81.56	1.170	Level 2, SF

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Reference Site:	1N-64W-17 WARNER PAD	MD Reference:	RKB = 20' @ 5088.00usft (RIG)			
Site Error:	0.00 usft	North Reference:	True			
Reference Well:	WARNER 1708-09H	Survey Calculation Method:	Minimum Curvature			
Well Error:	3.28 usft	Output errors are at	2.45 sigma			
Reference Wellbore	Plan A	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-64W-20 Offsets						
STALKING WOLF #1 - Karen D/A Well - No Surveys						Out of range
TURECEK #1-20 - Duncan P&A Well - No Surveys						Out of range

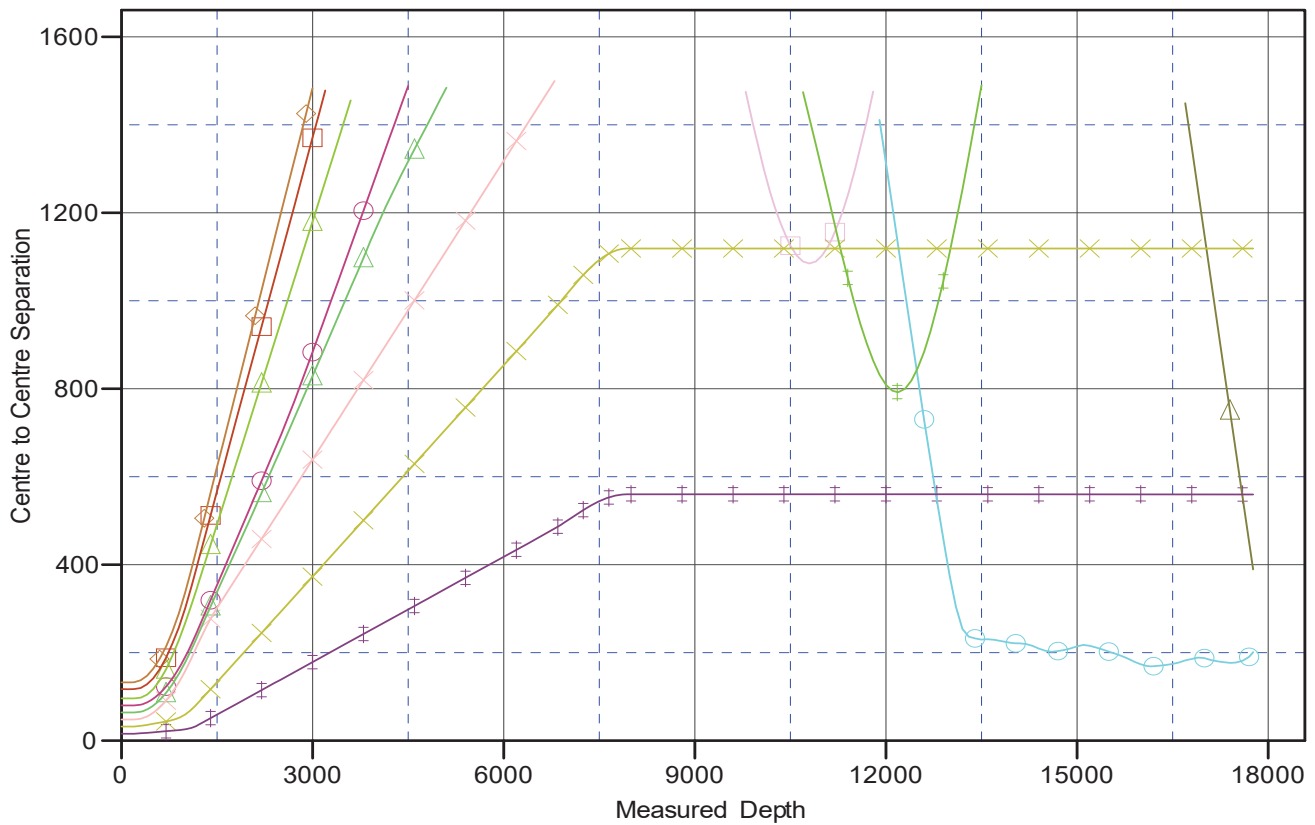
## Anticollision Summary Report

<b>Company:</b>	VERDAD RESOURCES	<b>Local Co-ordinate Reference:</b>	Well WARNER 1708-09H
<b>Project:</b>	WATTENBERG FIELD	<b>TVD Reference:</b>	RKB = 20' @ 5088.00usft (RIG)
<b>Reference Site:</b>	1N-64W-17 WARNER PAD	<b>MD Reference:</b>	RKB = 20' @ 5088.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WARNER 1708-09H	<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 A	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB = 20' @ 5088.00usft (RIG)  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: WARNER 1708-09H  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.60°

### Ladder Plot



### LEGEND

BLACKBURN 01N-64W-08-2N, Verdad SI Well, Actual Ensign Directional Survey V0	WARNER 1708-09H, Plan B, Design #1 V0	WARNER 1708-04H, Plan B, Design #1 V0
GRINDE 0164-05-6457CB, HPR PR Well, Actual Atlas Surveys V0	WARNER 1708-09H, Plan B, Design #1 V0	WARNER 01N-64W-17-1H, Verdad SI Well, Actual BHI Surveys V0
EAST HUDSON B STATE #1-16, Gusher Oil & Gas P/A Well, No Surveys V0	WARNER 1708-09H, Plan B, Design #1 V0	WARNER 1708-07H, Plan B, Design #1 V0
TURECEK STATE 16-1H, VERDAD PR Well, Actual MS Directional Surveys V0	WARNER 01N-64W-17-2H, Verdad SI Well, Actual BHI Surveys V0	WARNER 1708-03H, Plan B, Design #1 V0

## Anticollision Summary Report

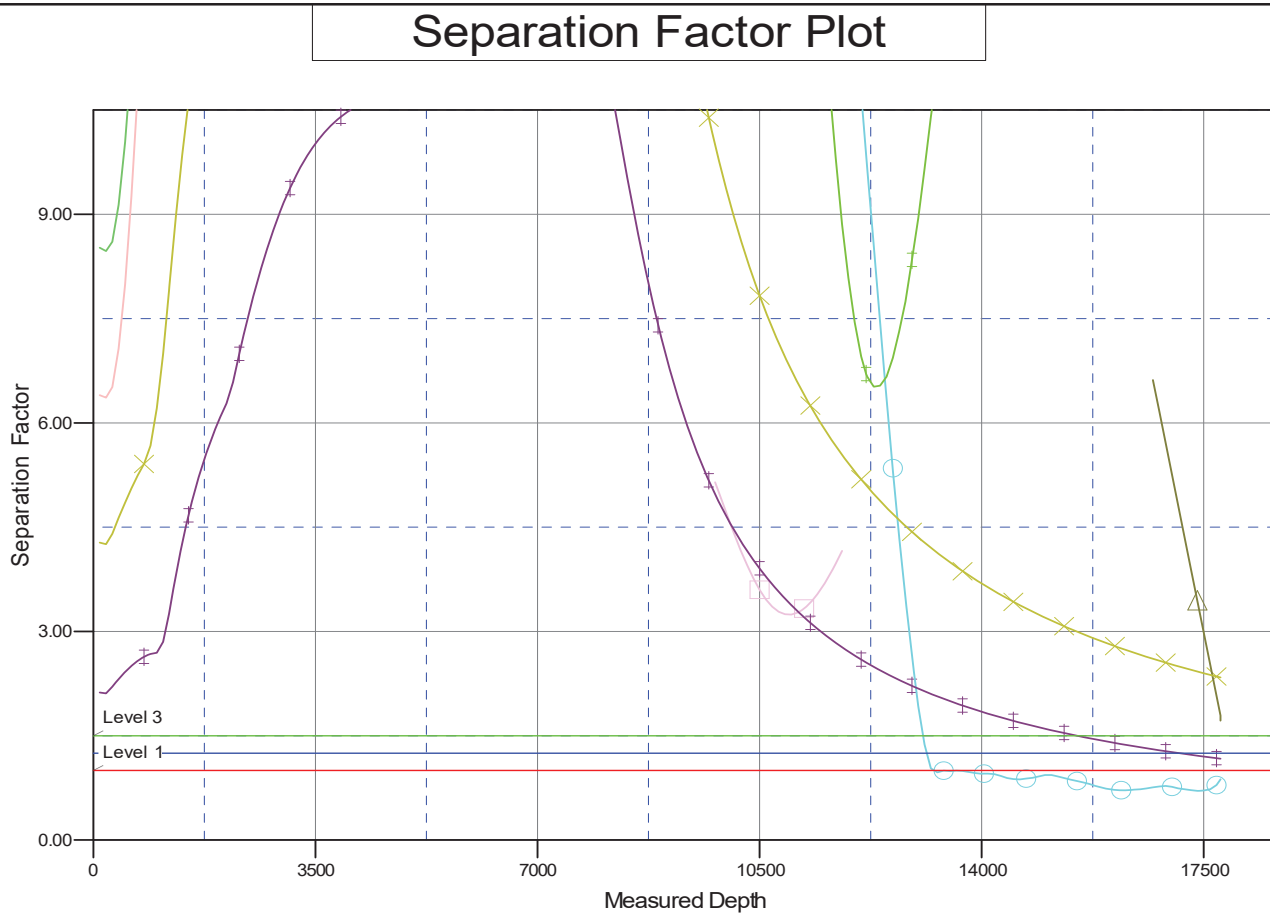
<b>Company:</b>	VERDAD RESOURCES	<b>Local Co-ordinate Reference:</b>	Well WARNER 1708-09H
<b>Project:</b>	WATTENBERG FIELD	<b>TVD Reference:</b>	RKB = 20' @ 5088.00usft (RIG)
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<b>Reference Well:</b>	WARNER 1708-09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Plan A	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

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: 0.60°



## LEGEND

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|---|--|---|--------------------------------------|---|--------------------------------------|
|  | BLACKBURN 01A-66W-08-IN, Verdast SI Well, Actual EN Directional Surveys V0 |  | WARNER 008-00H, Plan B, Design #1 V0 |  | WARNER 008-00H, Plan B, Design #1 V0 |
|  | GRINDE 0164-05-67CBL, HPR IR Well, Actual Atlas Surveys V0                 |  | WARNER 008-00H, Plan B, Design #1 V0 |  | WARNER 008-00H, Plan B, Design #1 V0 |
|  | EAST HUDSON B STATE #1-16, Quaher Oil & Gas P/A/Well, No Surveys V0        |  | WARNER 008-00H, Plan B, Design #1 V0 |  | WARNER 008-00H, Plan B, Design #1 V0 |
|  | TURECK STATE #1-16, VERDAST PR Well, Actual MSD Directional Surveys V0     |  | WARNER 008-00H, Plan B, Design #1 V0 |  | WARNER 008-00H, Plan B, Design #1 V0 |
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