

VERDAD RESOURCES

WATTENBERG FIELD

9N-58W-34 SPEED GOAT FED PAD

SPEED GOAT FED 3435-15H

Plan C

Permit Rev-1

Anticollision Summary Report

25 January, 2024

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well SPEED GOAT FED 3435-15H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 4744.00usft (RIG)
Reference Site:	9N-58W-34 SPEED GOAT FED PAD	MD Reference:	RKB = 20' @ 4744.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPEED GOAT FED 3435-15H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan C	Database:	EDM 5000.16 Single User Db
Reference Design:	Permit Rev-1	Offset TVD Reference:	Offset Datum

Reference	Permit Rev-1		
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 1,500.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	1/25/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,474.00	Permit Rev-1 (Plan C)	ISCWSA MWD	Fixed:v2:standard declination
1,474.00	14,965.28	Permit Rev-1 (Plan C)	ISCWSA MWD	Fixed:v2:standard declination

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						
9N-58W-34 Offsets						
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,029.49	1,029.82	329.99	289.66	8.183	CC
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,200.00	1,193.04	333.64	286.66	7.102	ES
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,500.00	1,474.04	366.13	308.62	6.366	SF
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	9,074.13	8,548.05	1.98	-68.52	0.028	Level 1, CC, SF
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	9,100.00	8,550.36	26.21	-120.40	0.179	Level 1, ES
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	8,100.00	8,527.48	26.88	-101.41	0.210	Level 1, ES
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	8,124.50	8,527.10	11.07	-52.68	0.174	Level 1, CC, SF
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	7,465.43	8,678.67	13.95	-46.04	0.233	Level 1, CC, SF
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	7,500.00	8,677.72	37.26	-86.59	0.301	Level 1, ES
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	6,883.02	8,762.83	179.86	99.61	2.241	CC
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	6,950.00	8,781.00	193.48	86.84	1.814	ES, SF
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P						Out of range
Bringelson Ranch 6-34-9-58 - Verdad PR Well - Actual P	6,431.70	8,122.26	1,482.66	1,366.92	12.811	CC
Bringelson Ranch 6-34-9-58 - Verdad PR Well - Actual P	6,450.00	8,132.91	1,482.97	1,366.54	12.737	ES
Bringelson Ranch 6-34-9-58 - Verdad PR Well - Actual P	6,550.00	8,192.18	1,495.51	1,375.60	12.473	SF
BRINGLESON #H - PEC D/A Well - No Surveys	9,293.67	5,609.00	1,169.35	875.24	3.976	CC
BRINGLESON #H - PEC D/A Well - No Surveys	9,300.00	5,609.00	1,169.37	875.01	3.973	ES
BRINGLESON #H - PEC D/A Well - No Surveys	9,400.00	5,609.00	1,174.17	876.27	3.941	SF
LILLI UNIT #14-34 - Noble P&A Well - Partial VES Surve						Out of range
LILLI UNIT #16-34 - Noble P&A Well - Actual VES Surve	9,053.59	5,633.21	1,474.71	1,371.29	14.260	CC, ES
LILLI UNIT #16-34 - Noble P&A Well - Actual VES Surve	9,300.00	5,635.41	1,495.15	1,388.04	13.958	SF

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPEED GOAT FED 3435-15H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan C	Database:	EDM 5000.16 Single User Db
Reference Design:	Permit Rev-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
9N-58W-34 SPEED GOAT FED PAD						
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	275.50	275.50	223.71	216.08	29.320	CC, ES
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	500.00	499.77	229.98	222.04	28.967	SF
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	275.50	275.50	207.67	200.04	27.219	CC, ES
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	500.00	499.77	213.95	206.01	26.949	SF
SPEED GOAT FED 3432-03H - Plan C - Permit Rev-1	275.50	275.50	192.01	184.38	25.165	CC, ES
SPEED GOAT FED 3432-03H - Plan C - Permit Rev-1	6,350.00	6,883.79	1,430.76	1,311.36	11.984	SF
SPEED GOAT FED 3432-04H - Plan C - Permit Rev-1	275.50	275.50	175.98	168.35	23.065	CC, ES
SPEED GOAT FED 3432-04H - Plan C - Permit Rev-1	6,500.00	7,026.16	922.88	806.08	7.901	SF
SPEED GOAT FED 3432-05H - Plan C - Permit Rev-1	275.50	275.50	159.95	152.32	20.964	CC, ES
SPEED GOAT FED 3432-05H - Plan C - Permit Rev-1	6,800.00	7,103.46	429.78	316.37	3.789	SF
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	7,400.00	6,850.32	80.71	-31.11	0.722	Level 1, ES, SF
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	7,462.79	6,790.34	77.80	-19.88	0.796	Level 1, CC
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	275.50	275.50	127.88	120.25	16.761	CC, ES
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	7,500.00	6,793.77	591.33	456.06	4.371	SF
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	275.50	275.50	111.86	104.23	14.661	CC, ES
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	7,400.00	6,574.89	1,019.13	883.61	7.520	SF
SPEED GOAT FED 3432-09H - Plan C - Permit Rev-1	275.50	275.50	95.82	88.19	12.558	CC, ES
SPEED GOAT FED 3432-09H - Plan C - Permit Rev-1	7,300.00	6,521.87	1,271.63	1,136.01	9.376	SF
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	200.00	200.00	79.79	72.22	10.542	CC
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	275.50	275.44	79.82	72.19	10.463	ES
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	300.00	299.91	79.91	72.26	10.444	SF
SPEED GOAT FED 3435-11H - Plan C - Permit Rev-1	275.50	275.50	63.76	56.13	8.358	CC, ES
SPEED GOAT FED 3435-11H - Plan C - Permit Rev-1	300.00	300.00	63.83	56.18	8.341	SF
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	275.50	275.50	47.73	40.10	6.256	CC, ES
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	300.00	300.00	47.80	40.15	6.246	SF
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	275.50	275.50	31.69	24.06	4.154	CC, ES
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	14,965.28	14,527.08	1,138.96	578.87	2.034	SF
SPEED GOAT FED 3435-14H - Plan C - Permit Rev-1	275.50	275.50	15.67	8.04	2.054	CC
SPEED GOAT FED 3435-14H - Plan C - Permit Rev-1	14,965.28	14,718.87	561.82	2.91	1.005	Level 2, ES, SF
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	200.52	200.52	16.03	8.46	2.117	CC, ES
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	14,966.19	15,250.25	577.86	21.59	1.039	Level 2, SF
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	202.22	202.22	32.06	24.49	4.235	CC, ES
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	14,966.19	15,561.24	1,154.98	600.09	2.081	SF
SPEED GOAT FED 3435-18H - Plan C - Permit Rev-1	200.00	200.00	48.09	40.52	6.354	CC, ES, SF
9N-58W-35 Offsets						
FEDERAL 13-35 - AEXCO P&A Well - No Surveys	10,515.96	5,608.00	1,487.47	1,155.67	4.483	CC, ES
FEDERAL 13-35 - AEXCO P&A Well - No Surveys	10,700.00	5,608.00	1,498.81	1,162.26	4.453	SF
9N-58W-36 Offsets						
COOK STATE LD 36-78HN - NOBLE PR Well - Actual S	14,966.19	8,609.02	870.07	728.14	6.130	CC, ES, SF
STATE OF COLORADO 14-36 - NOBLE P&A Well - NOB						Out of range

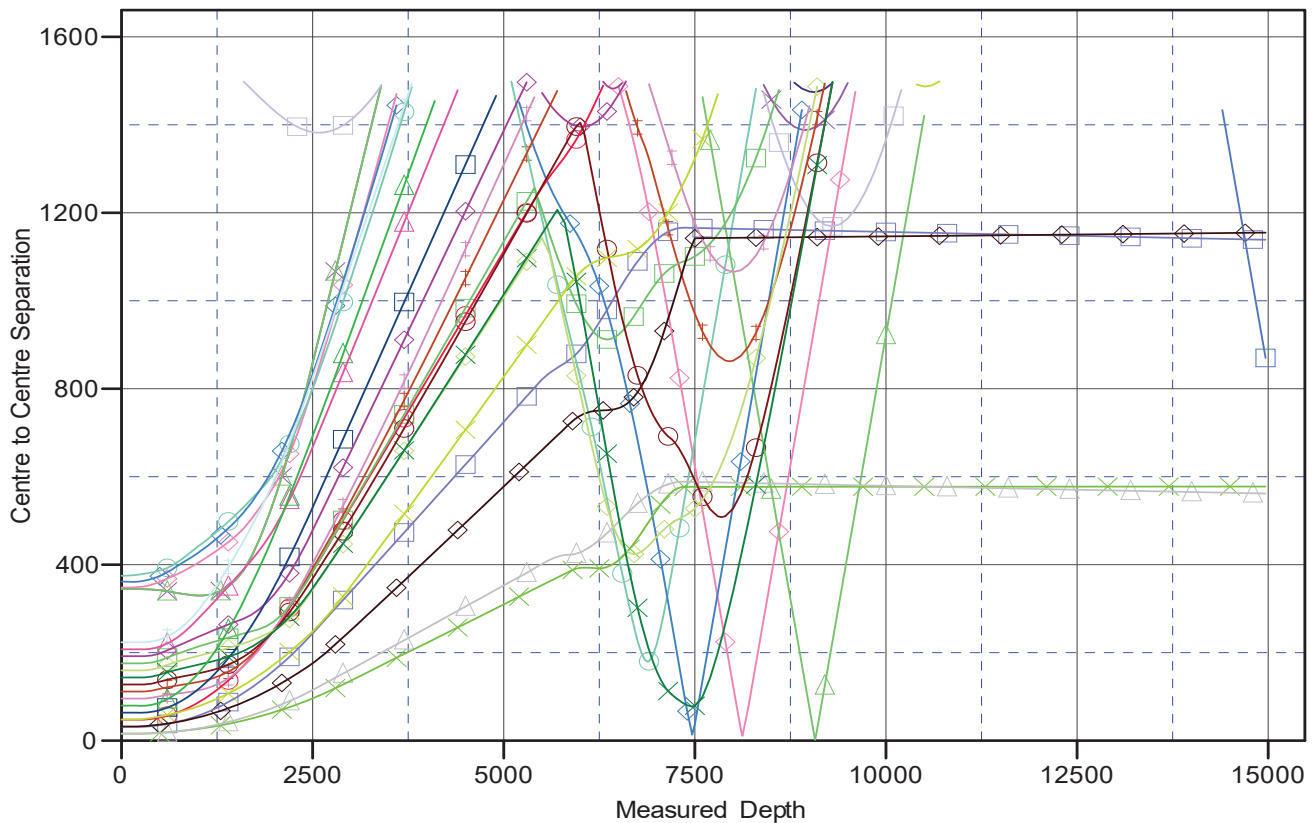
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Well Error:	3.28 usft	Output errors are at	2.45 sigma
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Reference Depths are relative to RKB = 20' @ 4744.00usft (RIG)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: SPEED GOAT FED 3435-15H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 1.07°

Ladder Plot



LEGEND

FEDERAL 9-35, AEXCOP&A VML, No Surveys V0	Brington Ranch 3-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-01H, Plan C, Permit Rev-1 V0
COOK STATE LD 36-78N, NOBIE PR Well, Actual Sperry Surveys V0	SPEED GOAT FED 3432-03H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-04H, Plan C, Permit Rev-1 V0
ULLI UNIT #16-34, Noble P&A VML, Actual VES Surveys V0	SPEED GOAT FED 3435-16H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-11H, Plan C, Permit Rev-1 V0
Brington Ranch 2-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-02H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-17H, Plan C, Permit Rev-1 V0
Brington Ranch 6-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-08H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-07H, Plan C, Permit Rev-1 V0
Brington Ranch 1-34-41-9-58, Verdad Original Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-12H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-05H, Plan C, Permit Rev-1 V0
Brington Ranch 1-34-41-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-13H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-18H, Plan C, Permit Rev-1 V0
BRINGLESON #H, PEC D/A Well, No Surveys V0	SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0
Brington Ranch 4-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-09H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0

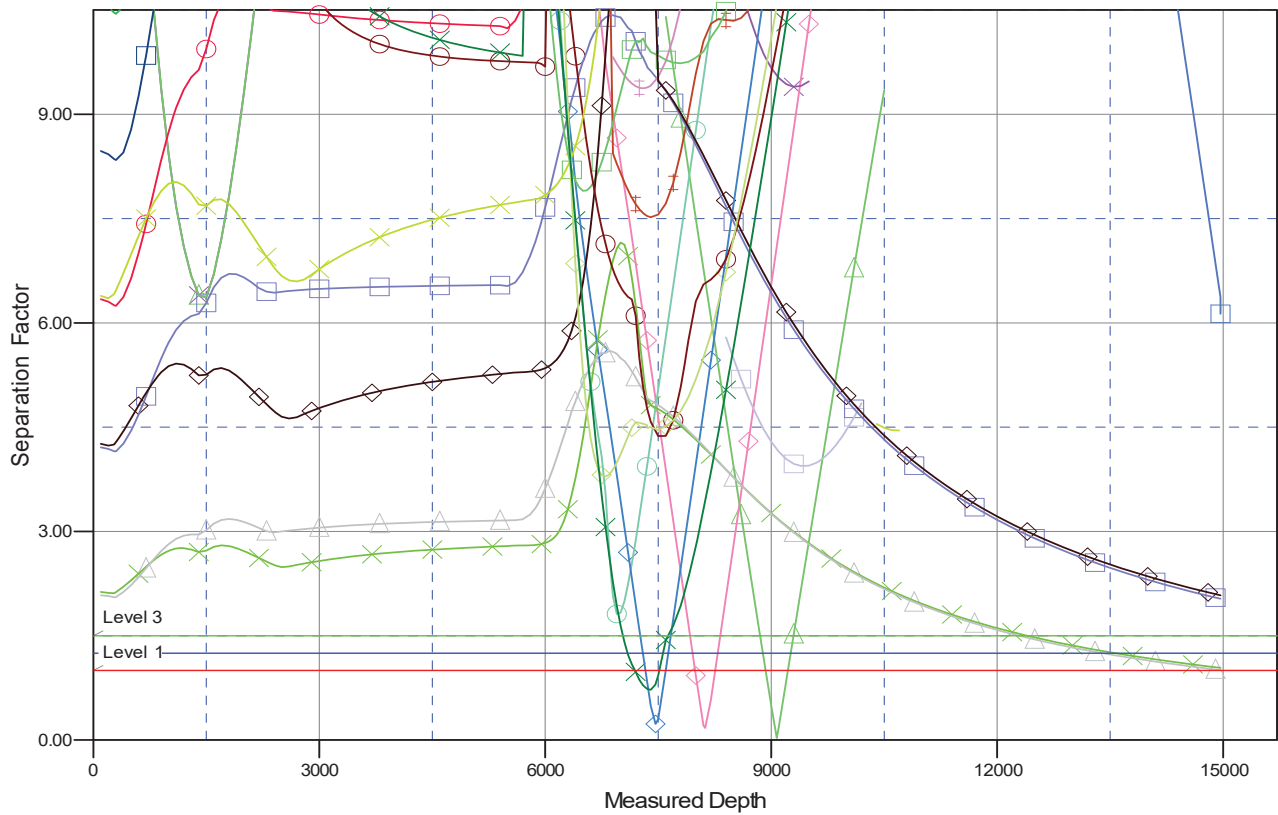
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Reference Depths are relative to RKB = 20' @ 4744.00usft (RIG)
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 Central Meridian is -105.500000

Coordinates are relative to: SPEED GOAT FED 3435-15H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 1.07°

Separation Factor Plot



LEGEND

FEDERAL 13-35, AEXCOP&A VML, No Surveys V0	Bringelson Ranch 3-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-01H, Plan C, Permit Rev-1 V0
COOK STATE LD 36-78H-N, NOBIE PR Well, Actual Sperry Surveys V0	SPEED GOAT FED 3432-03H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-04H, Plan C, Permit Rev-1 V0
LULL UNIT #16-34, Noble P&A VML, Actual VES Surveys V0	SPEED GOAT FED 3435-16H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-11H, Plan C, Permit Rev-1 V0
Bringelson Ranch 2-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-02H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-17H, Plan C, Permit Rev-1 V0
Bringelson Ranch 6-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-08H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-07H, Plan C, Permit Rev-1 V0
Bringelson Ranch 1-34-41-9-58, Verdad Original Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-12H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-05H, Plan C, Permit Rev-1 V0
Bringelson Ranch 1-34-41-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-13H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-18H, Plan C, Permit Rev-1 V0
BRINGELSON I#H, PEC D/A Well, No Surveys V0	SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0
Bringelson Ranch 4-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-09H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0