

VERDAD RESOURCES

WATTENBERG FIELD

9N-58W-34 SPEED GOAT FED PAD

SPEED GOAT FED 3435-14H

Plan C

Permit Rev-2

Anticollision Summary Report

30 January, 2024

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well SPEED GOAT FED 3435-14H
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 3435-14H	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-2	Offset TVD Reference:	Offset Datum

Reference	Permit Rev-2		
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	1/30/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,474.00	Permit Rev-2 (Plan C)	ISCWSA MWD	Fixed:v2:standard declination
1,474.00	14,730.45	Permit Rev-2 (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	1,216.67	1,210.13	304.14	256.55	6.391	CC
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,300.00	1,288.84	305.36	254.46	5.999	ES
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,500.00	1,475.96	320.64	263.11	5.573	SF
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	8,778.44	7,991.53	9.79	-51.04	0.161	Level 1, CC, SF
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	8,800.00	7,993.56	23.07	-90.35	0.203	Level 1, ES
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	7,898.28	7,970.91	2.74	-53.13	0.049	Level 1, CC
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	7,900.00	7,970.86	3.23	-78.27	0.040	Level 1, ES, SF
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	7,200.00	8,118.81	51.81	-57.59	0.474	Level 1, ES
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	7,250.10	8,119.26	13.19	-39.71	0.249	Level 1, CC, SF
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	6,664.64	8,220.25	177.07	110.51	2.660	CC
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	6,700.00	8,227.95	181.17	101.99	2.288	ES
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	6,750.00	8,238.95	199.80	106.46	2.140	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	6,212.92	7,594.93	1,493.79	1,398.81	15.727	CC, ES
Bringelson Ranch 6-34-9-58 - Verdad PR Well - Actual P	6,250.00	7,609.00	1,495.12	1,398.87	15.534	SF
BRINGLESON #H - PEC D/A Well - No Surveys	9,057.49	5,609.00	617.52	322.36	2.092	CC
BRINGLESON #H - PEC D/A Well - No Surveys	9,100.00	5,609.00	618.98	322.04	2.085	ES, 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						Out of range

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well SPEED GOAT FED 3435-14H
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 3435-14H	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-2	Offset TVD Reference:	Offset Datum

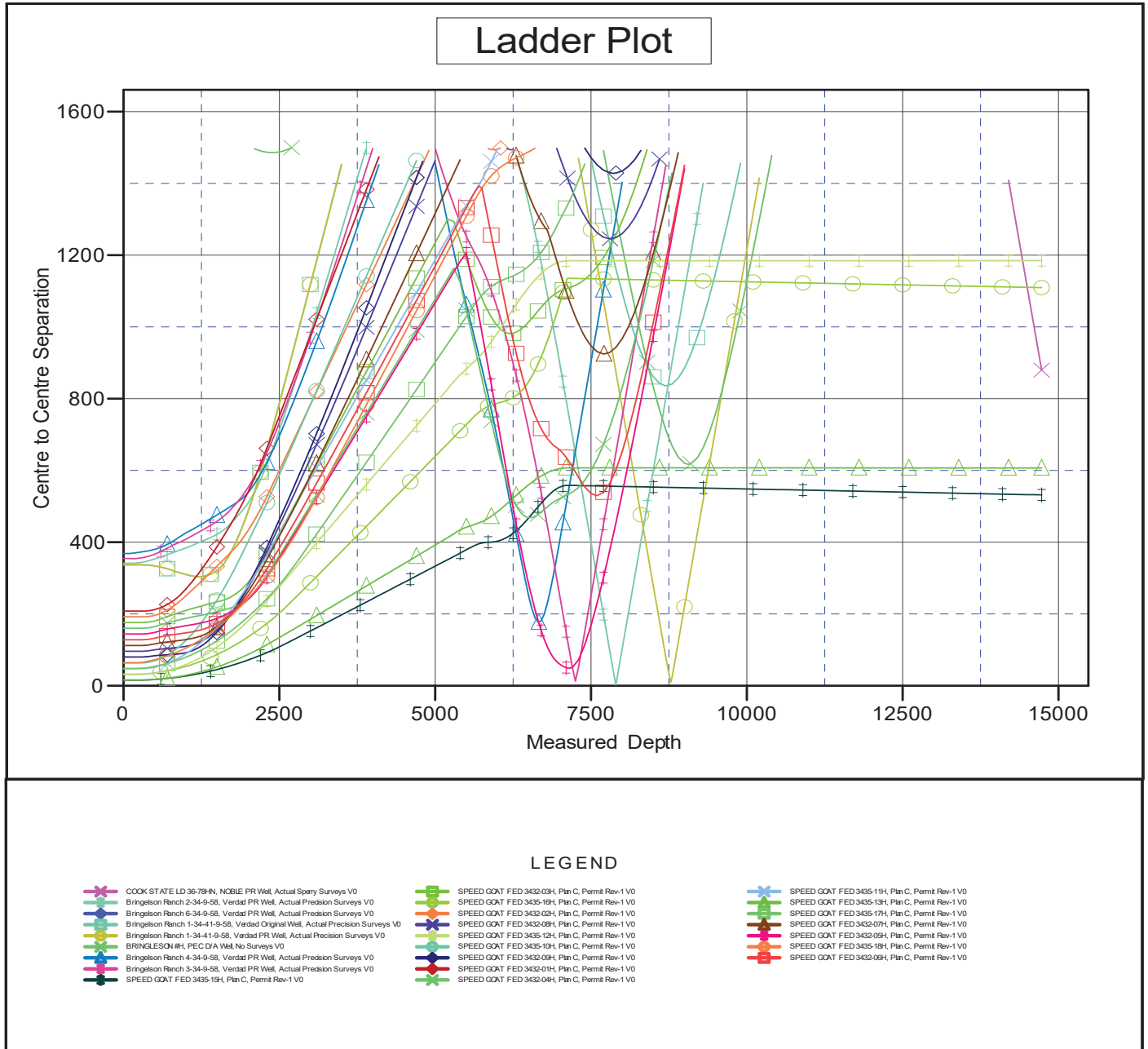
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
9N-58W-34 SPEED GOAT FED PAD						
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	300.45	300.45	208.04	200.38	27.174	CC, ES
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	500.00	499.84	212.40	204.46	26.748	SF
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	300.45	300.45	192.00	184.35	25.080	CC, ES
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	6,050.00	6,786.08	1,498.44	1,380.98	12.758	SF
SPEED GOAT FED 3432-03H - Plan C - Permit Rev-1	300.45	300.45	176.34	168.68	23.034	CC, ES
SPEED GOAT FED 3432-03H - Plan C - Permit Rev-1	6,350.00	6,810.92	990.50	873.77	8.486	SF
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	300.45	300.45	160.31	152.65	20.940	CC, ES
SPEED GOAT FED 3432-04H - Plan C - Permit Rev-1	6,600.00	6,839.75	472.26	359.69	4.195	SF
SPEED GOAT FED 3432-05H - Plan C - Permit Rev-1	7,100.00	6,623.61	50.45	-58.18	0.464	Level 1, ES, SF
SPEED GOAT FED 3432-05H - Plan C - Permit Rev-1	7,150.82	6,573.84	48.93	-49.62	0.496	Level 1, CC
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	300.45	300.45	128.25	120.59	16.752	CC, ES
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	7,300.00	6,498.63	580.89	460.06	4.807	SF
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	300.45	300.45	112.21	104.56	14.657	CC, ES
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	7,200.00	6,288.12	1,050.22	927.74	8.575	SF
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	300.45	300.45	96.19	88.53	12.564	CC, ES
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	7,000.00	6,201.73	1,473.17	1,348.24	11.792	SF
SPEED GOAT FED 3432-09H - Plan C - Permit Rev-1	300.45	300.45	80.15	72.49	10.469	CC, ES
SPEED GOAT FED 3432-09H - Plan C - Permit Rev-1	1,000.00	1,014.93	91.99	82.78	9.989	SF
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	200.00	200.00	64.12	56.55	8.472	CC
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	300.45	300.37	64.17	56.52	8.385	ES, SF
SPEED GOAT FED 3435-11H - Plan C - Permit Rev-1	300.45	300.45	48.09	40.43	6.282	CC, ES, SF
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	300.45	300.45	32.06	24.40	4.188	CC, ES
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	14,730.45	14,391.36	1,184.86	622.37	2.106	SF
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	300.45	300.45	16.02	8.37	2.093	CC, ES
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	14,730.45	14,527.08	607.01	45.63	1.081	Level 2, SF
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	205.71	205.71	15.67	8.10	2.070	CC
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	14,730.79	14,964.78	531.95	-26.91	0.952	Level 1, ES, SF
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	208.25	208.25	31.70	24.12	4.185	CC, ES
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	14,730.79	15,248.78	1,109.80	552.31	1.991	SF
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	200.00	200.00	47.73	40.17	6.307	CC, ES, SF
SPEED GOAT FED 3435-18H - Plan C - Permit Rev-1	200.00	200.00	63.76	56.20	8.425	CC, ES, SF
9N-58W-35 Offsets						
FEDERAL 13-35 - AEXCO P&A Well - No Surveys						Out of range
9N-58W-36 Offsets						
COOK STATE LD 36-78HN - NOBLE PR Well - Actual S	14,730.79	8,063.25	879.84	758.96	7.279	CC, ES, SF
STATE OF COLORADO 14-36 - NOBLE P&A Well - NOB						Out of range

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well SPEED GOAT FED 3435-14H
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 3435-14H	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-2	Offset TVD Reference:	Offset Datum

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 3435-14H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 1.07°



Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well SPEED GOAT FED 3435-14H
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 3435-14H	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-2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 20' @ 4744.00usft (RIG)

Offset Depths are relative to Offset Datum

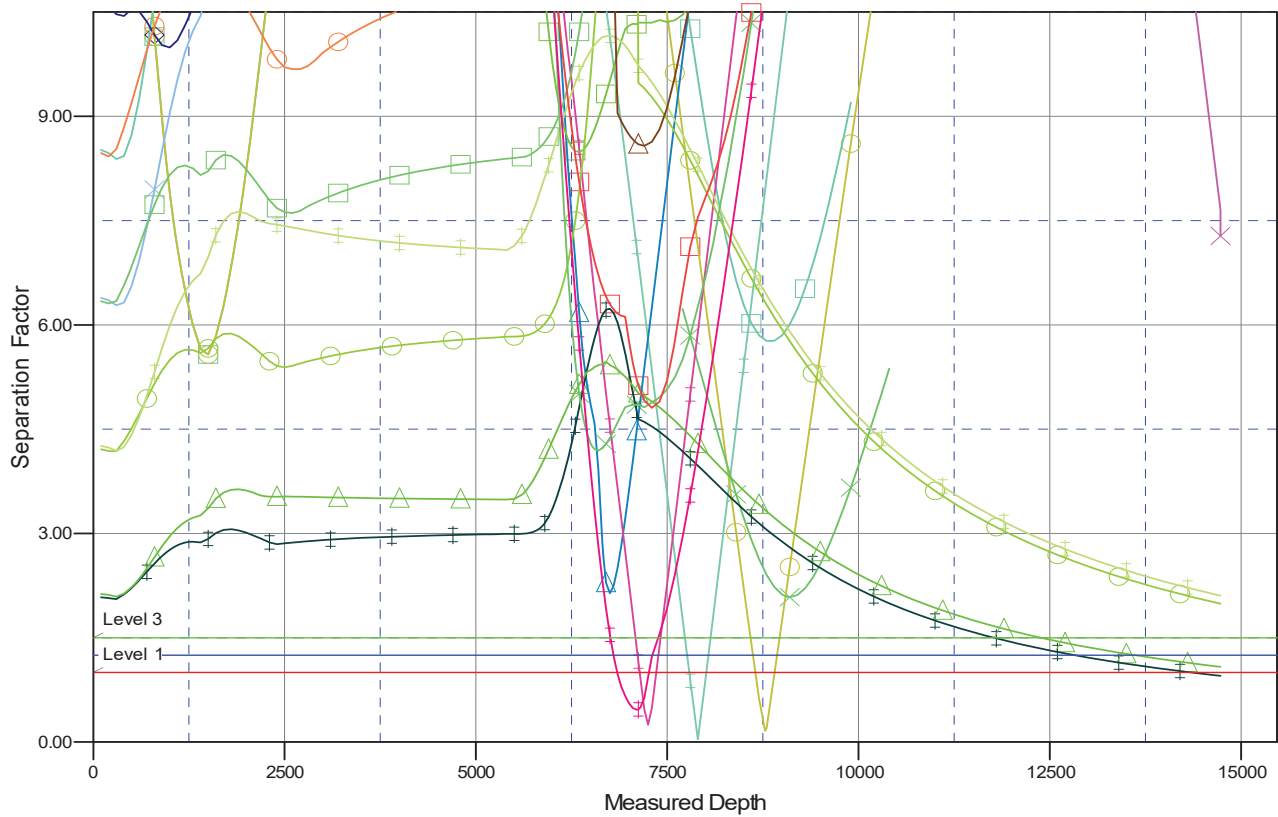
Central Meridian is -105.500000

Coordinates are relative to: SPEED GOAT FED 3435-14H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 1.07°

Separation Factor Plot



LEGEND

COOK STATE LD 36-78N, NOBLE PR Well, Actual Sperry Surveys V0	SPEED GOAT FED 3432-03H, 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 3435-16H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-13H, Plan C, Permit Rev-1 V0
Brington Ranch 6-34-9-58, 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 1-34-41-9-58, Verdad Original 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 PR 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
BRINGLESON RH, PED DIA Well, No Surveys V0	SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-18H, 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 3432-05H, Plan C, Permit Rev-1 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	
SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-04H, Plan C, Permit Rev-1 V0	