

# **VERDAD RESOURCES**

**WATTENBERG FIELD**

**9N-58W-34 SPEED GOAT FED PAD**

**SPEED GOAT FED 3432-05H**

**Plan C**

**Permit Rev-1**

## **Anticollision Summary Report**

**25 January, 2024**

## Anticollision Summary Report

<b>Company:</b>	VERDAD RESOURCES	<b>Local Co-ordinate Reference:</b>	Well SPEED GOAT FED 3432-05H
<b>Project:</b>	WATTENBERG FIELD	<b>TVD Reference:</b>	RKB = 20' @ 4744.00usft (RIG)
<b>Reference Site:</b>	9N-58W-34 SPEED GOAT FED PAD	<b>MD Reference:</b>	RKB = 20' @ 4744.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SPEED GOAT FED 3432-05H	<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 C	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Permit Rev-1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Permit Rev-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>	1/25/2024		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	1,474.00	Permit Rev-1 (Plan C)	ISCWSA MWD	Fixed:v2:standard declination
1,474.00	19,660.12	Permit Rev-1 (Plan C)	ISCWSA MWD	Fixed:v2:standard declination

<b>Summary</b>						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
9N-58W-19 TIMBRO FED 1931 PAD						
TIMBRO FED 1931-08H - Wellbore #1 - Design #4	19,660.12	14,614.06	561.31	299.65	2.145	CC, ES, SF
<b>9N-58W-31 Offsets</b>						
ST JOHNS CATHOLIC CHURCH #41-31 - Ed Davis LLC						Out of range
<b>9N-58W-32 Offsets</b>						
Bringelson 1-32-9-58 - Verdad PR Well - Actual Precision	16,531.16	8,168.78	98.57	-31.82	0.756	Level 1, CC, ES, SF
Bringelson 2-32-9-58 - Verdad PR Well - Actual Precision	15,279.43	8,115.51	103.45	-15.52	0.870	Level 1, CC, ES, SF
FEDERAL PERRY #13-32 - Diversified D/A Well - No Su						Out of range
<b>9N-58W-33 Offsets</b>						
Bringelson #42-33 - Carrizo D/A Well - No Surveys	9,985.83	5,710.00	708.28	354.97	2.005	CC, ES, SF
BRINGELSON 2-33-9-58 - Verdad PR Well - Actual Prec	12,067.98	8,180.10	53.35	-37.53	0.587	Level 1, CC, SF
BRINGELSON 2-33-9-58 - Verdad PR Well - Actual Prec	12,100.00	8,179.32	62.22	-40.84	0.604	Level 1, ES
BRINGELSON 3-33-9-58 - Verdad PR Well - Actual Prec	11,400.00	8,239.80	71.92	-36.50	0.663	Level 1, ES
BRINGELSON 3-33-9-58 - Verdad PR Well - Actual Prec	11,446.43	8,241.61	54.95	-33.13	0.624	Level 1, CC, SF
BRINGELSON RANCH 33-21-9-58 - Verdad PR Well - A	12,875.94	8,101.10	62.81	-34.58	0.645	Level 1, CC
BRINGELSON RANCH 33-21-9-58 - Verdad PR Well - A	12,900.00	8,098.05	67.19	-42.42	0.613	Level 1, ES, SF
DENNIS #F - PEC D/A Well - No Surveys	12,600.00	5,656.00	706.53	264.82	1.600	ES, SF
DENNIS #F - PEC D/A Well - No Surveys	12,619.62	5,656.00	706.26	265.04	1.601	CC

# Anticollision Summary Report

<b>Company:</b>	VERDAD RESOURCES	<b>Local Co-ordinate Reference:</b>	Well SPEED GOAT FED 3432-05H
<b>Project:</b>	WATTENBERG FIELD	<b>TVD Reference:</b>	RKB = 20' @ 4744.00usft (RIG)
<b>Reference Site:</b>	9N-58W-34 SPEED GOAT FED PAD	<b>MD Reference:</b>	RKB = 20' @ 4744.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SPEED GOAT FED 3432-05H	<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 C	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Permit Rev-1	<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
Offset Well - Wellbore - Design						
9N-58W-34 Offsets						
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,384.46	1,380.60	273.71	220.17	5.112	CC
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,500.00	1,492.53	275.66	219.43	4.902	ES, SF
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	1,384.46	1,380.60	273.71	220.17	5.112	CC
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	1,500.00	1,492.53	275.66	219.43	4.902	ES, SF
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	0.00	8.99	309.93			
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	6,200.00	7,935.75	469.13	362.45	4.397	SF
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	6,491.70	8,148.37	64.43	2.62	1.042	Level 2, CC
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	6,550.00	8,158.66	87.79	-18.73	0.824	Level 1, ES, SF
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	7,100.00	8,340.79	39.32	-59.01	0.400	Level 1, ES, SF
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	7,132.28	8,341.87	22.48	-29.61	0.432	Level 1, CC
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P	8,990.97	8,270.74	126.97	62.60	1.973	CC
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P	9,000.00	8,270.50	127.29	61.50	1.935	ES
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P	9,100.00	8,267.73	167.34	73.33	1.780	SF
Bringelson Ranch 6-34-9-58 - Verdad PR Well - Actual P	8,703.20	7,852.69	28.13	-30.51	0.480	Level 1, CC, ES, SF
BRINGLESON #H - PEC D/A Well - No Surveys	3,984.44	3,583.94	1,086.09	926.16	6.791	CC
BRINGLESON #H - PEC D/A Well - No Surveys	4,100.00	3,681.63	1,087.84	923.01	6.600	ES
BRINGLESON #H - PEC D/A Well - No Surveys	4,900.00	4,357.91	1,191.13	995.39	6.085	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

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<b>Reference Site:</b>	9N-58W-34 SPEED GOAT FED PAD	<b>MD Reference:</b>	RKB = 20' @ 4744.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SPEED GOAT FED 3432-05H	<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 C	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Permit Rev-1	<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
Offset Well - Wellbore - Design						
9N-58W-34 SPEED GOAT FED PAD						
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	524.50	524.50	63.76	55.76	7.966	CC, ES
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	600.00	599.99	64.65	56.50	7.928	SF
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	524.50	524.50	47.72	39.72	5.963	CC, ES
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	600.00	599.99	48.62	40.46	5.962	SF
SPEED GOAT FED 3432-03H - Plan C - Permit Rev-1	524.50	524.50	32.06	24.05	4.005	CC, ES
SPEED GOAT FED 3432-03H - Plan C - Permit Rev-1	19,660.12	19,234.60	1,155.29	186.02	1.192	Level 2, SF
SPEED GOAT FED 3432-04H - Plan C - Permit Rev-1	524.50	524.50	16.03	8.03	2.003	CC
SPEED GOAT FED 3432-04H - Plan C - Permit Rev-1	19,660.12	19,417.46	577.10	-391.90	0.596	Level 1, ES, SF
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	416.60	416.60	16.03	8.22	2.052	CC
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	19,660.12	19,961.73	614.27	-354.27	0.634	Level 1, ES, SF
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	405.73	405.73	32.07	24.27	4.114	CC
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	500.00	499.74	32.17	24.21	4.045	ES
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	19,660.12	20,300.15	1,192.47	224.31	1.232	Level 2, SF
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	403.15	403.15	48.09	40.30	6.174	CC, ES
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	500.00	499.20	48.51	40.56	6.102	SF
SPEED GOAT FED 3432-09H - Plan C - Permit Rev-1	400.00	400.00	64.13	56.35	8.238	CC, ES
SPEED GOAT FED 3432-09H - Plan C - Permit Rev-1	2,400.00	2,332.53	185.21	161.54	7.825	SF
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	285.28	285.29	80.15	72.51	10.494	CC
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	300.00	300.00	80.15	72.50	10.473	ES
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	800.00	792.46	87.68	78.97	10.066	SF
SPEED GOAT FED 3435-11H - Plan C - Permit Rev-1	1,058.10	1,045.52	86.69	77.25	9.181	CC, ES
SPEED GOAT FED 3435-11H - Plan C - Permit Rev-1	1,100.00	1,085.61	87.02	77.45	9.095	SF
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	303.65	303.65	112.22	104.56	14.652	CC
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	1,047.41	1,030.31	113.53	104.13	12.070	ES
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	6,000.00	7,253.70	1,105.69	1,006.96	11.199	SF
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	300.00	300.00	128.26	120.60	16.754	CC, ES
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	6,200.00	7,268.78	588.97	490.05	5.954	SF
SPEED GOAT FED 3435-14H - Plan C - Permit Rev-1	6,524.97	7,185.91	75.39	-22.35	0.771	Level 1, CC
SPEED GOAT FED 3435-14H - Plan C - Permit Rev-1	6,600.00	7,114.05	78.34	-26.34	0.748	Level 1, ES, SF
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	205.85	205.85	159.95	152.38	21.123	CC
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	300.00	299.07	160.02	152.37	20.909	ES
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	7,300.00	6,634.34	438.15	315.87	3.583	SF
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	204.68	204.68	175.98	168.40	23.241	CC, ES
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	7,700.00	6,539.31	930.88	780.10	6.174	SF
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	200.00	200.00	192.01	184.44	25.369	CC, ES
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	8,000.00	6,618.99	1,412.25	1,238.72	8.138	SF
SPEED GOAT FED 3435-18H - Plan C - Permit Rev-1	200.00	200.00	208.04	200.47	27.487	CC, ES
SPEED GOAT FED 3435-18H - Plan C - Permit Rev-1	2,500.00	2,294.05	374.27	359.90	26.045	SF

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<b>Reference Site:</b>	9N-58W-34 SPEED GOAT FED PAD	<b>MD Reference:</b>	RKB = 20' @ 4744.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SPEED GOAT FED 3432-05H	<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 C	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Permit Rev-1	<b>Offset TVD Reference:</b>	Offset Datum

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

Offset Depths are relative to Offset Datum

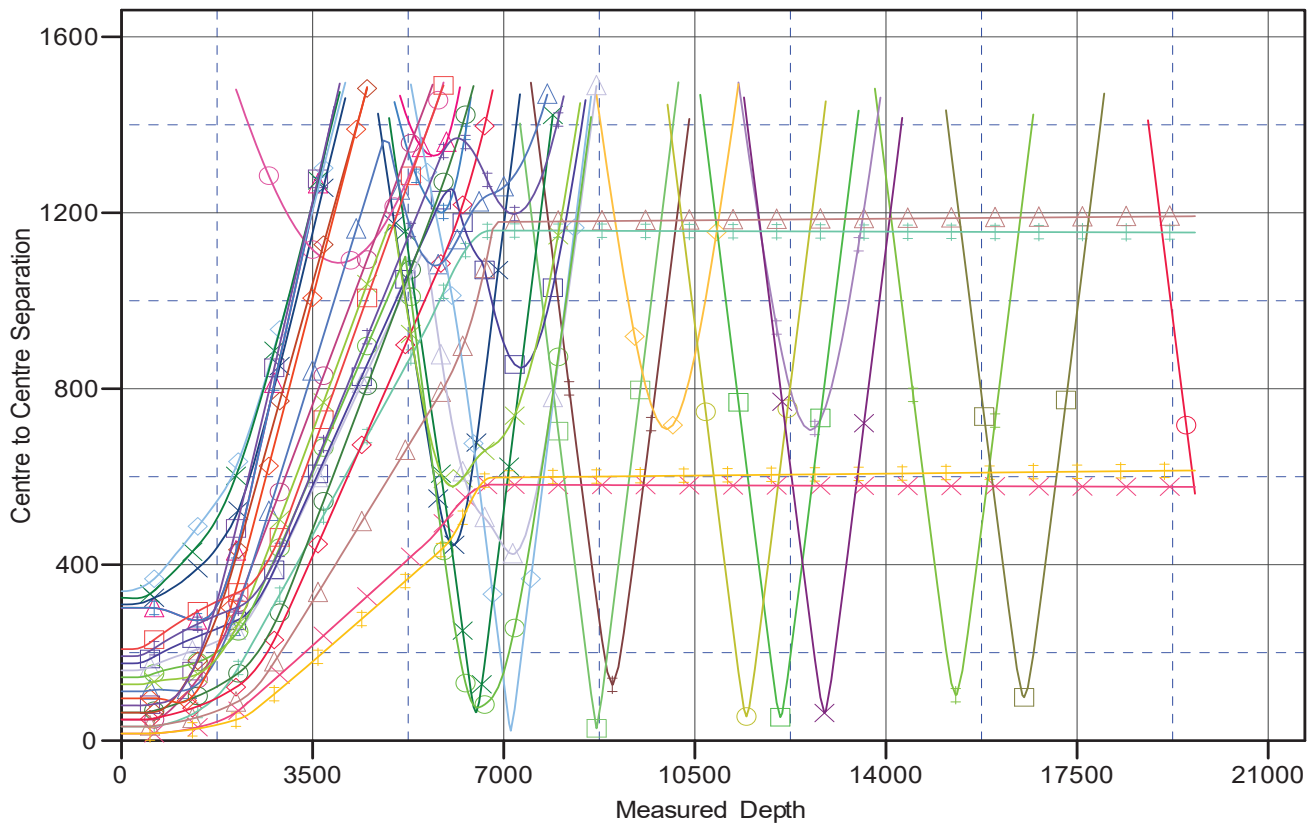
Central Meridian is -105.500000

Coordinates are relative to: SPEED GOAT FED 3432-05H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 1.07°

### Ladder Plot



### LEGEND

Bringelson 132-9-58, Verdad PR Well, Actual Precision Surveys V0	DENNIS #6 PEC DIA Well, No Surveys V0	SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0
Bringelson 132-9-58, Verdad PR Well, Actual Precision Surveys V0	BRINGELSON 2-33-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-05H, Plan C, Permit Rev-1 V0
TIMBRO FED 1931-08H, Wellbore #1, Design #4 V0	Bringelson #2-33, Carrizo D/A Well, No Surveys V0	SPEED GOAT FED 3432-01H, Plan C, Permit Rev-1 V0
Bringelson Ranch 2-34-9-58, Verdad PR Well, Actual Precision Surveys V0	BRINGELSON 3-33-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-04H, Plan C, Permit Rev-1 V0
Bringelson Ranch 5-34-9-58, Verdad PR Well, Actual Precision Surveys V0	BRINGELSON RANCH 33-21-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-11H, Plan C, Permit Rev-1 V0
Bringelson Ranch 6-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-15H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-13H, Plan C, Permit Rev-1 V0
Bringelson Ranch 1-34-41-9-58, Verdad Original Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-09H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-17H, Plan C, Permit Rev-1 V0
Bringelson Ranch 1-34-41-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-16H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-07H, Plan C, Permit Rev-1 V0
BRINGELSON #H, PEC DIA Well, No Surveys V0	SPEED GOAT FED 3432-02H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-18H, Plan C, Permit Rev-1 V0
Bringelson Ranch 4-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-08H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0
Bringelson Ranch 3-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-12H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0

## Anticollision Summary Report

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<b>Reference Site:</b>	9N-58W-34 SPEED GOAT FED PAD	<b>MD Reference:</b>	RKB = 20' @ 4744.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SPEED GOAT FED 3432-05H	<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 C	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Permit Rev-1	<b>Offset TVD Reference:</b>	Offset Datum

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

Offset Depths are relative to Offset Datum

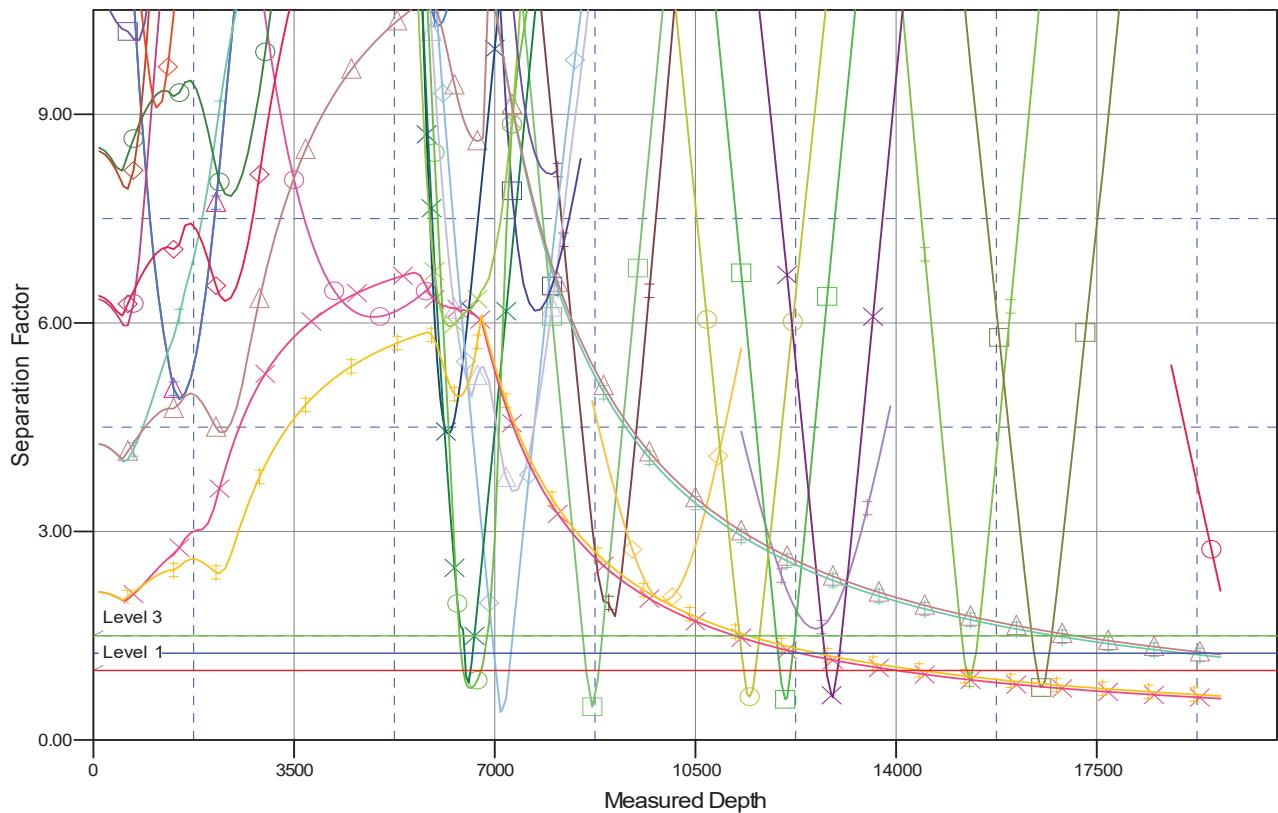
Central Meridian is -105.500000

Coordinates are relative to: SPEED GOAT FED 3432-05H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 1.07°

### Separation Factor Plot



#### LEGEND

<ul style="list-style-type: none"> <li>Bringelson 232-9-58, Verdard PR Well, Actual Precision Surveys V0</li> <li>Bringelson 132-9-58, Verdard PR Well, Actual Precision Surveys V0</li> <li>TIMBROFED 1931-08H, Wellbore #1, Design #4 V0</li> <li>Bringelson Ranch 2-34-9-58, Verdard PR Well, Actual Precision Surveys V0</li> <li>Bringelson Ranch 5-34-9-58, Verdard PR Well, Actual Precision Surveys V0</li> <li>Bringelson Ranch 6-34-9-58, Verdard PR Well, Actual Precision Surveys V0</li> <li>Bringelson Ranch 1-34-41-9-58, Verdard Original Well, Actual Precision Surveys V0</li> <li>Bringelson Ranch 1-34-41-9-58, Verdard PR Well, Actual Precision Surveys V0</li> <li>BRINGELSON #H, PEC D/A Well, No Surveys V0</li> <li>Bringelson Ranch 4-34-9-58, Verdard PR Well, Actual Precision Surveys V0</li> <li>Bringelson Ranch 3-34-9-58, Verdard PR Well, Actual Precision Surveys V0</li> </ul>	<ul style="list-style-type: none"> <li>DENNIS #F, PEC D/A Well, No Surveys V0</li> <li>BRINGELSON 2-33-9-58, Verdard PR Well, Actual Precision Surveys V0</li> <li>Bringelson #2-33, Carrizo D/A Well, No Surveys V0</li> <li>BRINGELSON 3-33-9-58, Verdard PR Well, Actual Precision Surveys V0</li> <li>BRINGELSON RANCH 33-21-9-58, Verdard PR Well, Actual Precision Surveys V0</li> <li>SPEED GOAT FED 3435-15H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3432-03H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3435-19H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3432-02H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3432-08H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3435-12H, Plan C, Permit Rev-1 V0</li> </ul>	<ul style="list-style-type: none"> <li>SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3432-01H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3432-04H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3435-11H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3435-13H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3435-17H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3432-07H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3435-18H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0</li> <li>SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0</li> </ul>
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