

VERDAD RESOURCES

WATTENBERG FIELD

9N-58W-34 SPEED GOAT FED PAD

SPEED GOAT FED 3432-04H

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 3432-04H
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 3432-04H	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	19,418.66	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-19 TIMBRO FED 1931 PAD						
TIMBRO FED 1931-08H - Wellbore #1 - Design #4	19,418.66	14,036.97	564.37	326.17	2.369	CC, ES, SF
9N-58W-31 Offsets						
ST JOHNS CATHOLIC CHURCH #41-31 - Ed Davis LLC						Out of range
9N-58W-32 Offsets						
Bringelson 1-32-9-58 - Verdad PR Well - Actual Precision	16,284.12	8,750.03	95.93	-36.19	0.726	Level 1, CC
Bringelson 1-32-9-58 - Verdad PR Well - Actual Precision	16,300.00	8,750.18	97.23	-37.63	0.721	Level 1, ES, SF
Bringelson 2-32-9-58 - Verdad PR Well - Actual Precision	15,044.94	8,696.30	100.35	-20.22	0.832	Level 1, CC, ES, SF
FEDERAL PERRY #13-32 - Diversified D/A Well - No Su						Out of range
9N-58W-33 Offsets						
Bringelson #42-33 - Carrizo D/A Well - No Surveys	9,742.91	5,710.00	127.47	-225.93	0.361	Level 1, CC, ES, SF
BRINGELSON 2-33-9-58 - Verdad PR Well - Actual Prec	11,821.82	7,600.92	50.21	-31.98	0.611	Level 1, CC, ES, SF
BRINGELSON 3-33-9-58 - Verdad PR Well - Actual Prec	11,174.63	7,663.80	46.00	-31.54	0.593	Level 1, CC, SF
BRINGELSON 3-33-9-58 - Verdad PR Well - Actual Prec	11,200.00	7,664.89	52.53	-34.50	0.604	Level 1, ES
BRINGELSON RANCH 33-21-9-58 - Verdad PR Well - A	12,700.47	7,517.05	62.95	-26.76	0.702	Level 1, CC, ES, SF
DENNIS #F - PEC D/A Well - No Surveys	12,376.69	5,656.00	126.46	-314.98	0.286	Level 1, CC, ES, SF

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPEED GOAT FED 3432-04H	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
Offset Well - Wellbore - Design						
9N-58W-34 Offsets						
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,557.82	1,547.97	247.94	191.57	4.399	CC, ES
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,600.00	1,585.83	248.56	192.04	4.398	SF
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	1,557.82	1,547.97	247.94	191.57	4.399	CC, ES
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	1,600.00	1,585.83	248.56	192.04	4.398	SF
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	0.00	8.99	310.55			
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	5,950.00	7,352.35	467.27	386.02	5.751	SF
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	6,270.16	7,574.19	59.76	8.90	1.175	Level 2, CC
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	6,300.00	7,577.26	67.25	-7.10	0.905	Level 1, ES, SF
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	6,878.47	7,758.52	17.16	-27.75	0.382	Level 1, CC
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	6,900.00	7,758.67	27.53	-53.66	0.339	Level 1, ES, SF
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P	8,754.62	7,685.87	124.90	68.41	2.211	CC
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P	8,800.00	7,687.31	132.88	67.53	2.034	ES, SF
Bringelson Ranch 6-34-9-58 - Verdad PR Well - Actual P	8,458.45	7,270.72	36.68	-14.09	0.722	Level 1, CC
Bringelson Ranch 6-34-9-58 - Verdad PR Well - Actual P	8,500.00	7,271.85	55.41	-26.82	0.674	Level 1, ES, SF
BRINGLESON #H - PEC D/A Well - No Surveys	4,121.74	3,804.92	1,250.06	1,084.64	7.557	CC
BRINGLESON #H - PEC D/A Well - No Surveys	4,400.00	4,053.57	1,256.28	1,079.13	7.091	ES
BRINGLESON #H - PEC D/A Well - No Surveys	5,600.00	5,125.83	1,415.52	1,191.59	6.321	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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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 3432-04H	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	549.50	549.50	47.73	39.68	5.926	CC, ES
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	600.00	600.00	48.10	39.95	5.896	SF
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	549.50	549.50	31.69	23.64	3.935	CC, ES
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	19,418.66	19,127.56	1,154.93	184.33	1.190	Level 2, SF
SPEED GOAT FED 3432-03H - Plan C - Permit Rev-1	549.50	549.50	16.03	7.97	1.990	CC
SPEED GOAT FED 3432-03H - Plan C - Permit Rev-1	19,418.66	19,235.82	578.19	-391.48	0.596	Level 1, ES, SF
SPEED GOAT FED 3432-05H - Plan C - Permit Rev-1	501.34	501.34	16.03	8.07	2.014	CC
SPEED GOAT FED 3432-05H - Plan C - Permit Rev-1	19,418.66	19,660.12	577.10	-392.10	0.595	Level 1, ES, SF
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	416.60	416.60	32.06	24.25	4.105	CC
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	500.00	499.80	32.06	24.11	4.030	ES
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	19,418.66	19,961.73	1,191.37	222.56	1.230	Level 2, SF
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	405.73	405.73	48.10	40.30	6.171	CC
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	500.00	499.61	48.20	40.24	6.060	ES, SF
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	403.15	403.15	64.12	56.33	8.232	CC, ES
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	500.00	498.94	64.54	56.59	8.119	SF
SPEED GOAT FED 3432-09H - Plan C - Permit Rev-1	400.00	400.00	80.16	72.38	10.297	CC, ES
SPEED GOAT FED 3432-09H - Plan C - Permit Rev-1	500.00	498.01	81.09	73.14	10.206	SF
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	289.81	289.83	96.18	88.54	12.585	CC
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	300.00	300.01	96.18	88.53	12.568	ES
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	900.00	888.69	105.83	96.77	11.679	SF
SPEED GOAT FED 3435-11H - Plan C - Permit Rev-1	1,160.80	1,143.92	102.31	92.45	10.368	CC, ES
SPEED GOAT FED 3435-11H - Plan C - Permit Rev-1	1,300.00	1,275.75	105.75	95.42	10.238	SF
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	303.61	303.61	128.25	120.59	16.745	CC, ES
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	6,100.00	7,028.12	621.09	520.46	6.172	SF
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	6,319.61	6,964.15	75.30	-24.12	0.757	Level 1, CC
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	6,350.00	6,934.89	75.73	-26.69	0.739	Level 1, ES, SF
SPEED GOAT FED 3435-14H - Plan C - Permit Rev-1	300.00	300.00	160.31	152.65	20.941	CC, ES
SPEED GOAT FED 3435-14H - Plan C - Permit Rev-1	7,000.00	6,455.78	451.67	333.97	3.838	SF
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	205.85	205.85	175.98	168.41	23.239	CC
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	300.00	298.98	176.05	168.40	23.004	ES
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	7,400.00	6,313.46	970.15	830.15	6.930	SF
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	204.67	204.67	192.01	184.43	25.358	CC, ES
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	7,700.00	6,350.00	1,461.74	1,301.98	9.150	SF
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	200.00	200.00	208.04	200.47	27.487	CC, ES
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	2,100.00	1,946.15	342.40	329.42	26.373	SF
SPEED GOAT FED 3435-18H - Plan C - Permit Rev-1	200.00	200.00	224.07	216.50	29.605	CC, ES
SPEED GOAT FED 3435-18H - Plan C - Permit Rev-1	2,200.00	2,016.29	395.13	381.03	28.008	SF

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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 3432-04H	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 Depths are relative to RKB = 20' @ 4744.00usft (RIG)

Offset Depths are relative to Offset Datum

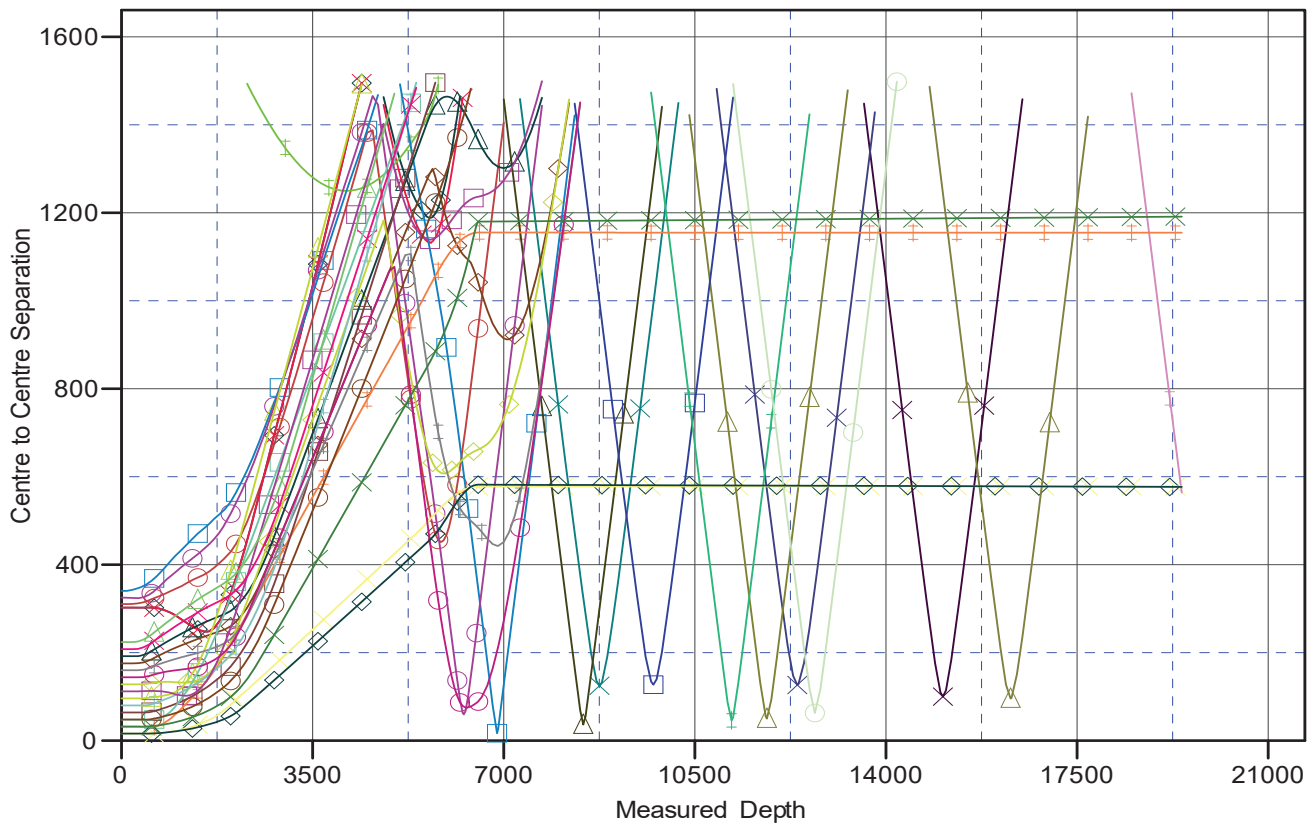
Central Meridian is -105.500000

Coordinates are relative to: SPEED GOAT FED 3432-04H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 1.07°

Ladder Plot



LEGEND

<ul style="list-style-type: none"> Bringelson 332-9-58, Verdad PR Well, Actual Precision Surveys V0 Bringelson 132-9-58, Verdad PR Well, Actual Precision Surveys V0 TIMBRO FED 1931-08H, Wellbore#1, Design #4 V0 Bringelson Ranch 2-34-9-58, Verdad PR Well, Actual Precision Surveys V0 Bringelson Ranch 5-34-9-58, Verdad PR Well, Actual Precision Surveys V0 Bringelson Ranch 6-34-9-58, Verdad PR Well, Actual Precision Surveys V0 Bringelson Ranch 1-34-41-9-58, Verdad Original Well, Actual Precision Surveys V0 Bringelson Ranch 1-34-41-9-58, Verdad PR Well, Actual Precision Surveys V0 BRINGELSON #H, PEC DIA Well, No Surveys V0 Bringelson Ranch 4-34-9-58, Verdad PR Well, Actual Precision Surveys V0 Bringelson Ranch 3-34-9-58, Verdad PR Well, Actual Precision Surveys V0 	<ul style="list-style-type: none"> DENNIS #F, PEC DIA Well, No Surveys V0 BRINGELSON 2-33-9-58, Verdad PR Well, Actual Precision Surveys V0 Bringelson #2-33, Carrizo DIA Well, No Surveys V0 BRINGELSON 3-33-9-58, Verdad PR Well, Actual Precision Surveys V0 BRINGELSON RANCH 33-21-9-58, Verdad PR Well, Actual Precision Surveys V0 SPEED GOAT FED 3435-15H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3432-09H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3435-16H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3432-02H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3432-08H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3435-12H, Plan C, Permit Rev-1 V0 	<ul style="list-style-type: none"> SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3432-01H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3435-11H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3435-13H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3435-17H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3432-07H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3432-05H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3435-18H, Plan C, Permit Rev-1 V0 SPEED GOAT FED 3432-09H, Plan C, Permit Rev-1 V0
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Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 4744.00usft (RIG)
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Reference Design:	Permit Rev-1	Offset TVD Reference:	Offset Datum

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

Offset Depths are relative to Offset Datum

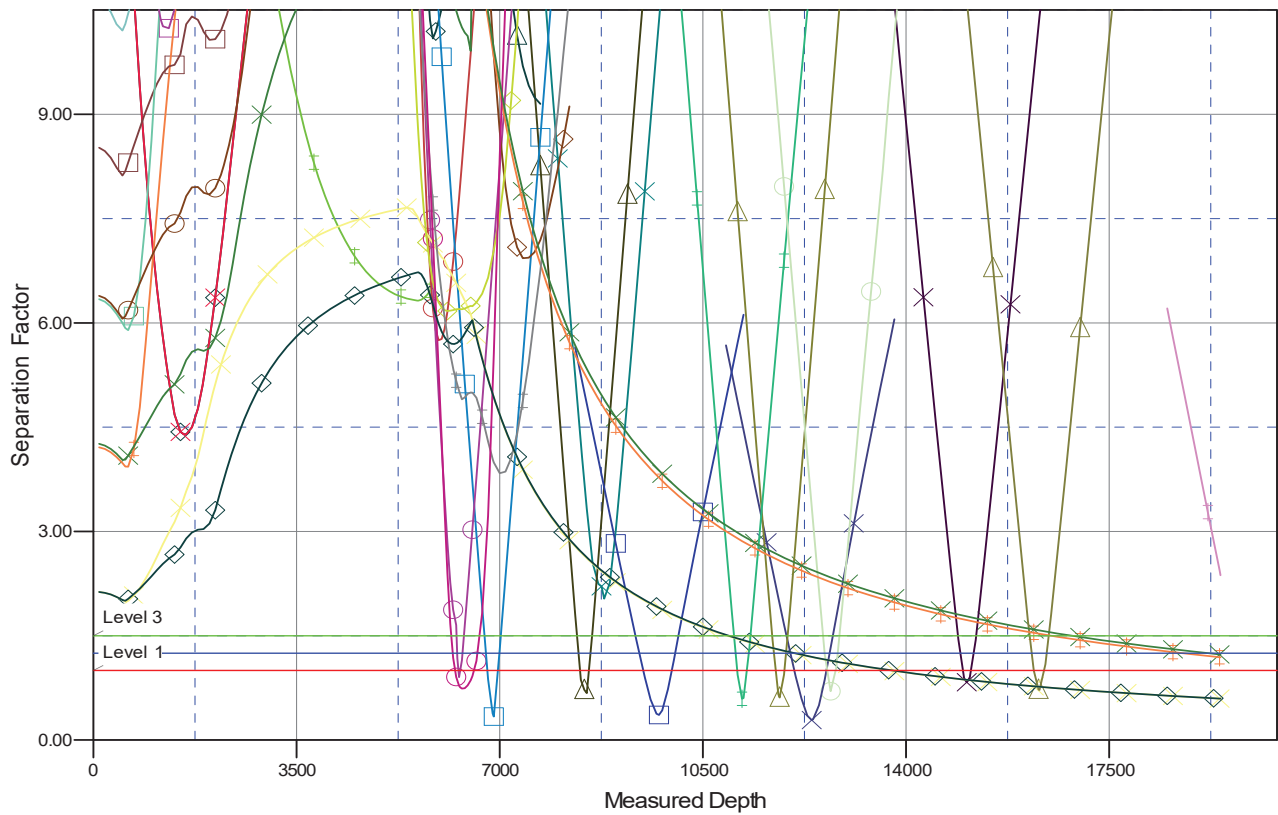
Central Meridian is -105.500000

Coordinates are relative to: SPEED GOAT FED 3432-04H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 1.07°

Separation Factor Plot



LEGEND

BRINGELSON 232-9-58, Verdard PR Well, Actual Precision Surveys V0	DENNIS #6, PEC DIA Well, No Surveys V0	SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0
BRINGELSON 132-9-58, Verdard PR Well, Actual Precision Surveys V0	BRINGELSON 2-33-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0
TIMBROFED 1931-08H, Wellbore #1, Design #4 V0	BRINGELSON #2-33, Carrizo DIA Well, No Surveys V0	SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0
BRINGELSON RANCH 2-34-9-58, Verdard PR Well, Actual Precision Surveys V0	BRINGELSON 3-33-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-01H, Plan C, Permit Rev-1 V0
BRINGELSON RANCH 5-34-9-58, Verdard PR Well, Actual Precision Surveys V0	BRINGELSON RANCH 33-21-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-11H, Plan C, Permit Rev-1 V0
BRINGELSON RANCH 6-34-9-58, Verdard 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, Verdard Original Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-03H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-17H, Plan C, Permit Rev-1 V0
BRINGELSON RANCH 1-34-41-9-58, Verdard 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 3432-05H, Plan C, Permit Rev-1 V0
BRINGELSON RANCH 4-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-08H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-18H, Plan C, Permit Rev-1 V0
BRINGELSON RANCH 3-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-12H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-08H, Plan C, Permit Rev-1 V0