

VERDAD RESOURCES

WATTENBERG FIELD

9N-58W-34 SPEED GOAT FED PAD

SPEED GOAT FED 3432-09H

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 3432-09H
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 3432-09H	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	20,928.60	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	20,928.60	16,961.45	552.98	191.01	1.528	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	17,833.18	5,836.53	24.04	-212.42	0.102	Level 1, CC, ES, SF
Bringelson 2-32-9-58 - Verdad PR Well - Actual Precision	16,529.63	5,811.86	1.85	-217.11	0.008	Level 1, CC, ES, SF
FEDERAL PERRY #13-32 - Diversified D/A Well - No Su	20,500.00	5,748.00	251.70	-423.84	0.373	Level 1, ES, SF
FEDERAL PERRY #13-32 - Diversified D/A Well - No Su	20,519.97	5,748.00	250.90	-420.72	0.374	Level 1, CC
9N-58W-33 Offsets						
Bringelson #42-33 - Carrizo D/A Well - No Surveys						Out of range
BRINGELSON 2-33-9-58 - Verdad PR Well - Actual Prec	13,300.00	10,153.00	272.08	-1.47	0.995	Level 1, ES, SF
BRINGELSON 2-33-9-58 - Verdad PR Well - Actual Prec	13,369.87	10,153.00	262.95	12.45	1.050	Level 2, CC
BRINGELSON 3-33-9-58 - Verdad PR Well - Actual Prec	12,600.00	10,214.00	283.92	20.76	1.079	Level 2, SF
BRINGELSON 3-33-9-58 - Verdad PR Well - Actual Prec	12,700.00	10,214.00	256.69	19.30	1.081	Level 2, ES
BRINGELSON 3-33-9-58 - Verdad PR Well - Actual Prec	12,723.59	10,214.00	255.60	21.43	1.092	Level 2, CC
BRINGELSON RANCH 33-21-9-58 - Verdad PR Well - A	13,800.00	9,345.00	1,022.26	708.04	3.253	SF
BRINGELSON RANCH 33-21-9-58 - Verdad PR Well - A	13,900.00	9,345.00	1,008.06	700.67	3.279	ES
BRINGELSON RANCH 33-21-9-58 - Verdad PR Well - A	13,994.10	9,345.00	1,003.66	701.89	3.326	CC
DENNIS #F - PEC D/A Well - No Surveys						Out of range

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPEED GOAT FED 3432-09H	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	660.34	669.08	309.89	283.41	11.702	CC
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,000.00	1,005.15	313.56	274.61	8.050	ES
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,400.00	1,390.29	346.34	292.14	6.390	SF
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	660.34	669.08	309.89	283.41	11.702	CC
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	1,000.00	1,005.15	313.56	274.61	8.050	ES
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	1,400.00	1,390.29	346.34	292.14	6.390	SF
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	0.00	8.97	316.25			
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	7,400.00	9,936.07	425.24	219.60	2.068	ES
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	7,450.00	9,957.00	446.63	226.74	2.031	SF
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	7,600.00	10,110.00	212.79	54.52	1.344	Level 3, SF
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	7,650.00	10,110.00	193.39	54.23	1.390	Level 3, ES
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	7,710.00	10,110.00	184.53	78.59	1.742	CC
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	0.00	8.95	345.70			
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	7,900.00	9,818.00	829.81	629.08	4.134	SF
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P	10,100.00	10,218.00	320.45	116.30	1.570	SF
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P	10,200.00	10,218.00	284.27	114.46	1.674	ES
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P	10,259.39	10,218.00	278.00	130.29	1.882	CC
Bringelson Ranch 6-34-9-58 - Verdad PR Well - Actual P	9,800.00	9,798.00	280.35	66.86	1.313	Level 3, ES, SF
Bringelson Ranch 6-34-9-58 - Verdad PR Well - Actual P	9,959.25	9,798.00	230.73	91.94	1.662	CC
BRINGLESON #H - PEC D/A Well - No Surveys	3,613.65	3,028.92	767.05	624.91	5.397	CC
BRINGLESON #H - PEC D/A Well - No Surveys	3,700.00	3,084.14	769.92	624.40	5.291	ES
BRINGLESON #H - PEC D/A Well - No Surveys	3,800.00	3,148.09	780.31	631.21	5.233	SF
LILLI UNIT #14-34 - Noble P&A Well - Partial VES Surve	8,500.00	5,656.56	161.30	25.91	1.191	Level 2, ES, SF
LILLI UNIT #14-34 - Noble P&A Well - Partial VES Surve	8,602.51	5,659.48	124.57	31.81	1.343	Level 3, CC
LILLI UNIT #16-34 - Noble P&A Well - Actual VES Surve	6,996.73	5,200.00	1,203.55	1,093.95	10.981	CC
LILLI UNIT #16-34 - Noble P&A Well - Actual VES Surve	7,065.14	5,242.18	1,204.75	1,093.87	10.865	ES
LILLI UNIT #16-34 - Noble P&A Well - Actual VES Surve	7,100.00	5,263.71	1,207.10	1,095.67	10.833	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 3432-09H	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 SPEED GOAT FED PAD						
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	425.00	425.00	127.89	120.07	16.346	CC, ES
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	500.00	499.99	128.84	120.89	16.211	SF
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	425.00	425.00	111.86	104.03	14.296	CC, ES
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	500.00	499.99	112.81	104.86	14.193	SF
SPEED GOAT FED 3432-03H - Plan C - Permit Rev-1	425.00	425.00	96.19	88.37	12.294	CC, ES
SPEED GOAT FED 3432-03H - Plan C - Permit Rev-1	500.00	499.99	97.14	89.19	12.222	SF
SPEED GOAT FED 3432-04H - Plan C - Permit Rev-1	425.00	425.00	80.16	72.34	10.246	CC, ES
SPEED GOAT FED 3432-04H - Plan C - Permit Rev-1	500.00	499.99	81.11	73.16	10.205	SF
SPEED GOAT FED 3432-05H - Plan C - Permit Rev-1	425.00	425.00	64.13	56.31	8.197	CC, ES
SPEED GOAT FED 3432-05H - Plan C - Permit Rev-1	2,300.00	2,339.60	178.22	155.25	7.760	SF
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	425.00	425.00	48.10	40.28	6.148	CC, ES
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	2,500.00	2,540.08	131.90	104.69	4.847	SF
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	425.00	425.00	32.07	24.24	4.098	CC, ES
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	20,928.60	20,296.28	1,154.93	189.36	1.196	Level 2, SF
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	425.00	425.00	16.04	8.22	2.050	CC
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	20,928.60	20,670.14	577.83	-387.46	0.599	Level 1, ES, SF
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	229.02	229.02	16.03	8.44	2.112	CC, ES
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	300.00	299.97	16.10	8.45	2.104	SF
SPEED GOAT FED 3435-11H - Plan C - Permit Rev-1	731.85	729.62	26.56	18.17	3.164	CC, ES, SF
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	777.93	773.28	45.13	36.63	5.305	CC, ES
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	800.00	794.89	45.21	36.65	5.283	SF
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	300.00	300.00	64.12	56.47	8.377	CC, ES
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	900.00	889.52	67.03	58.21	7.603	SF
SPEED GOAT FED 3435-14H - Plan C - Permit Rev-1	300.00	300.00	80.15	72.49	10.470	CC, ES
SPEED GOAT FED 3435-14H - Plan C - Permit Rev-1	1,000.00	982.16	91.07	81.97	10.002	SF
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	205.86	205.86	95.82	88.25	12.653	CC
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	300.00	299.44	95.89	88.24	12.529	ES
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	6,700.00	7,946.28	1,109.58	1,008.06	10.930	SF
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	204.70	204.70	111.84	104.27	14.771	CC, ES
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	7,000.00	8,171.58	708.96	605.67	6.864	SF
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	200.00	200.00	127.88	120.31	16.896	CC, ES
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	7,350.00	8,362.78	326.68	221.15	3.096	SF
SPEED GOAT FED 3435-18H - Plan C - Permit Rev-1	8,205.53	7,981.04	76.32	-35.08	0.685	Level 1, 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						Out of range
STATE OF COLORADO 14-36 - NOBLE P&A Well - NOB						Out of range

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Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well SPEED GOAT FED 3432-09H
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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 3432-09H	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

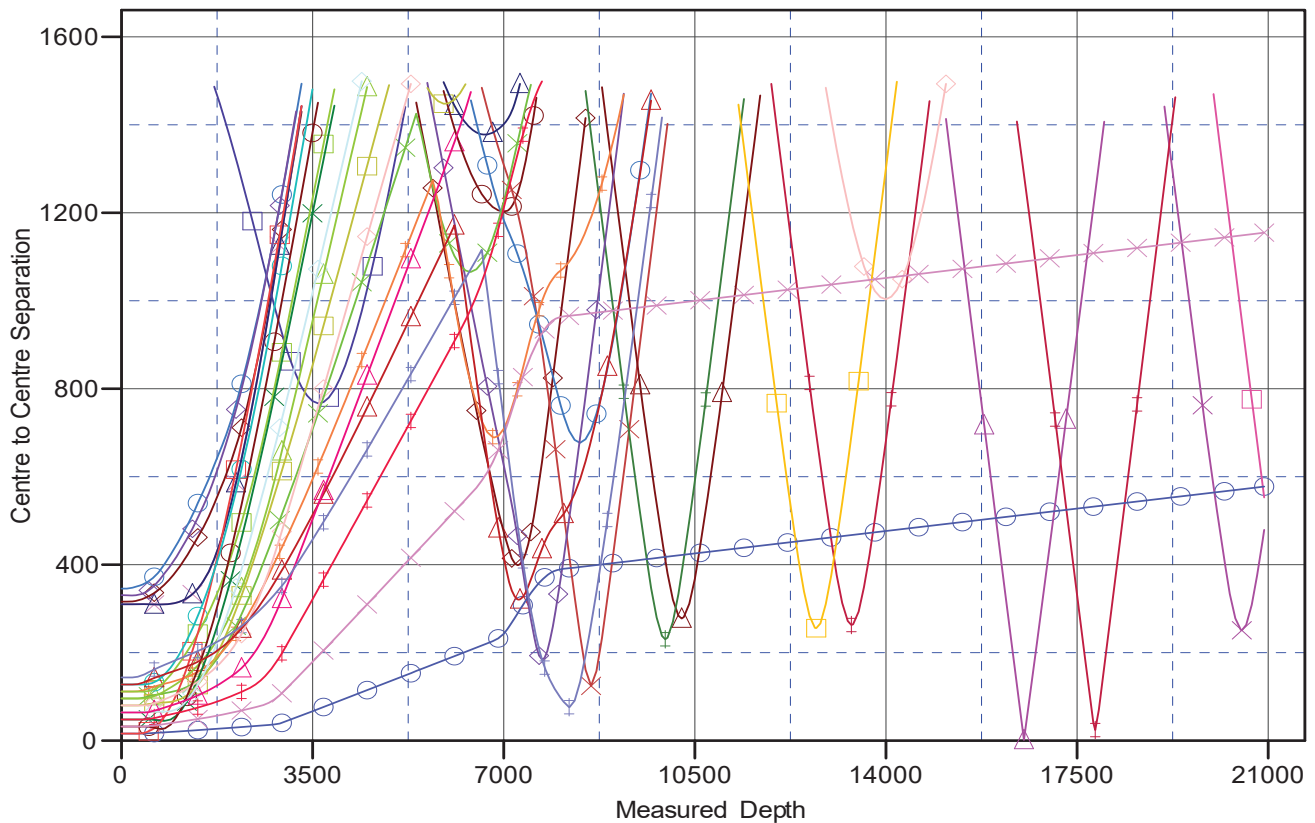
Central Meridian is -105.500000

Coordinates are relative to: SPEED GOAT FED 3432-09H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 1.07°

Ladder Plot



LEGEND

FEDERAL PERRY #13-32, Diversified D/A Well, No Surveys V0	Bringelson Ranch 4-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0
Bringelson 332-9-58, Verdard PR Well, Actual Precision Surveys V0	Bringelson Ranch 3-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-01H, 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 3432-04H, Plan C, Permit Rev-1 V0
TIMBRO FED 1931-08H, Wellbore #1, Design #4 V0	BRINGELSON 3-33-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-11H, Plan C, Permit Rev-1 V0
LULL UNIT #16-34, Noble P&A Well, Actual VES Surveys V0	BRINGELSON RANCH 33-21-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-13H, Plan C, Permit Rev-1 V0
Bringelson Ranch 2-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-15H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-17H, Plan C, Permit Rev-1 V0
LULL UNIT #14-34, Noble P&A Well, Partial VES Surveys V0	SPEED GOAT FED 3432-03H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-07H, Plan C, Permit Rev-1 V0
Bringelson Ranch 5-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-16H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-05H, Plan C, Permit Rev-1 V0
Bringelson Ranch 6-34-9-58, Verdard PR Well, Actual Precision 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 1-34-41-9-58, Verdard Original 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 1-34-41-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-12H, Plan C, Permit Rev-1 V0	
BRINGELSON #H, PEC D/A Well, No Surveys V0	SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0	

Anticollision Summary Report

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

Offset Depths are relative to Offset Datum

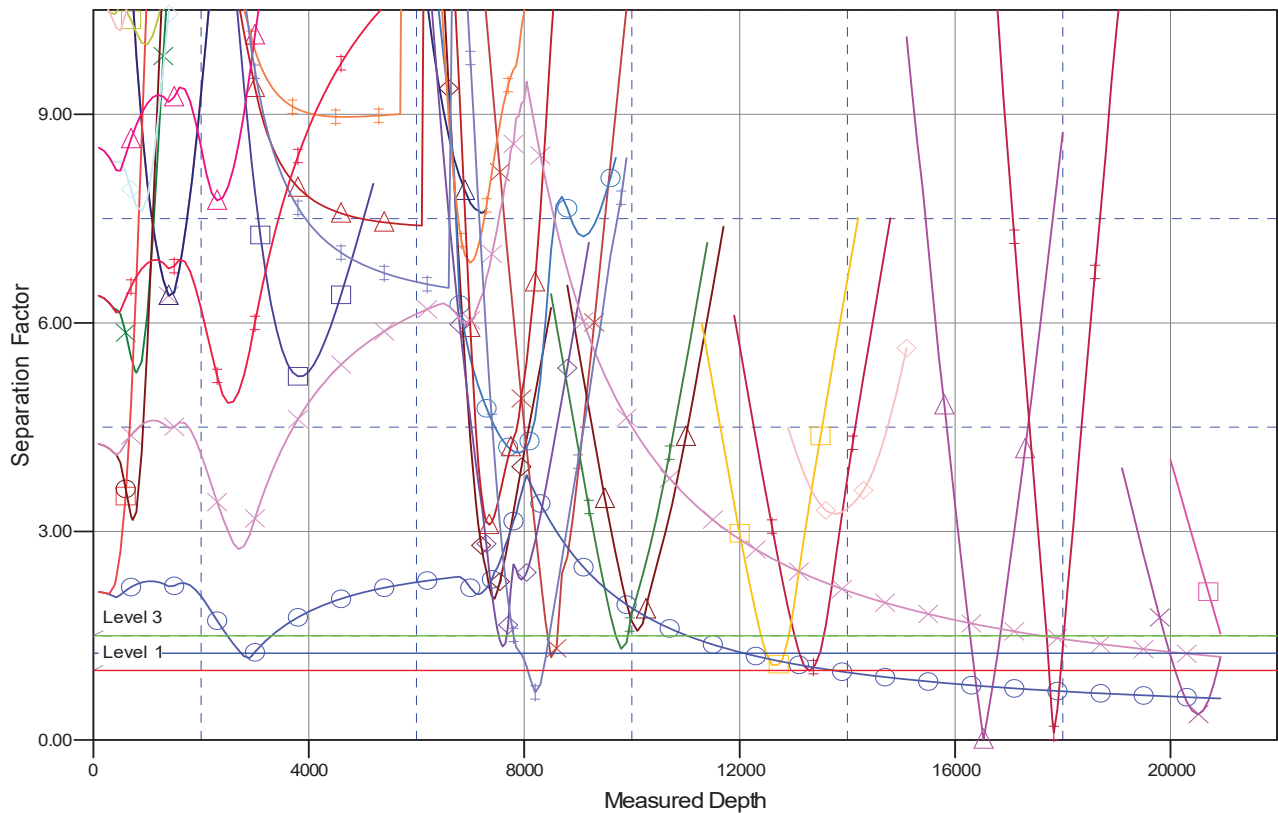
Central Meridian is -105.500000

Coordinates are relative to: SPEED GOAT FED 3432-09H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 1.07°

Separation Factor Plot



LEGEND

FEDERAL FERRY #13-32, Diversified D/A Well, No Surveys V0	Bringleton Ranch 4-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0
Bringleton 232-9-58, Verdard PR Well, Actual Precision Surveys V0	Bringleton Ranch 3-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-01H, Plan C, Permit Rev-1 V0
Bringleton 132-9-58, Verdard PR Well, Actual Precision Surveys V0	BRINGLESON 2-33-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-04H, Plan C, Permit Rev-1 V0
TIMBROFED 1931-09H, Wellbore #1, Design #4 V0	BRINGLESON 2-33-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-11H, Plan C, Permit Rev-1 V0
LILLI UNIT #16-34, Noble P&A Well, Actual VES Surveys V0	BRINGLESON RANCH 33-21-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-13H, Plan C, Permit Rev-1 V0
Bringleton 234-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-15H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-17H, Plan C, Permit Rev-1 V0
LILLI UNIT #14-34, Noble P&A Well, Partial VES Surveys V0	SPEED GOAT FED 3432-03H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-07H, Plan C, Permit Rev-1 V0
Bringleton 534-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-16H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-05H, Plan C, Permit Rev-1 V0
Bringleton 634-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-02H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-18H, Plan C, Permit Rev-1 V0
Bringleton 134-41-9-58, Verdard Original 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
Bringleton 134-41-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-12H, Plan C, Permit Rev-1 V0	
BRINGLETON #H, PEC D/A Well, No Surveys V0	SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0	