

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-22 FAWN 2734 & 2833 PAD

FAWN 2734-07H

Plan A

Design #1

Anticollision Summary Report

30 July, 2022

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well FAWN 2734-07H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 5127.00usft (RIG)
Reference Site:	1N-65W-22 FAWN 2734 & 2833 PAD	MD Reference:	RKB = 20' @ 5127.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FAWN 2734-07H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #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	7/30/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	2,250.00	Design #1 (Plan A)	ISCWSA MWD	Fixed:v2:standard declination	
2,250.00	17,482.65	Design #1 (Plan A)	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						
1N-65W-09 Offsets Incomplete						
ROBIN 9-10HZ - KMG PR Well - Actual BKR Surveys						Out of range
ROBIN 9-11HZ - KMG PR Well - Actual BKR Surveys						Out of range
ROBIN 9-12HZ - KMG PR Well - Actual BKR Surveys						Out of range
ROBIN 9-13HZ - KMG PR Well - Actual BKR Surveys						Out of range
ROBIN 9-14HZ - KMG PR Well - Actual BKR Surveys						Out of range
ROBIN 9-15HZ - KMG PR Well - Actual BKR Surveys						Out of range
ROBIN 9-16HZ - KMG PR Well - Actual BKR Surveys						Out of range
ROBIN 9-17HZ - KMG PR Well - Actual BKR Surveys						Out of range
ROBIN 9-18HZ - Kerr McGee PR Well - Actual BKR Surv						Out of range
1N-65W-22 FAWN 2734 & 2833 PAD						
FAWN 2734-05H - Plan A - Design #1	300.00	300.00	32.00	24.35	4.180	CC, ES
FAWN 2734-05H - Plan A - Design #1	17,482.65	17,755.52	1,042.74	553.01	2.129	SF
FAWN 2734-06H - Plan A - Design #1	303.98	303.98	16.00	8.34	2.089	CC, ES
FAWN 2734-06H - Plan A - Design #1	17,482.65	17,608.16	521.37	31.71	1.065	Level 2, SF
FAWN 2734-08H - Plan A - Design #1	615.00	615.00	16.00	7.80	1.951	CC, ES
FAWN 2734-08H - Plan A - Design #1	17,482.42	17,434.84	521.37	33.43	1.069	Level 2, SF
FAWN 2734-09H - Plan A - Design #1	615.00	615.00	32.00	23.80	3.903	CC, ES
FAWN 2734-09H - Plan A - Design #1	17,482.65	17,399.42	1,042.75	553.69	2.132	SF
FAWN 2734-10H - Plan A - Design #1	615.00	615.00	47.99	39.79	5.853	CC, ES, SF
FAWN 2734-11H - Plan A - Design #1	316.58	316.58	63.99	56.32	8.339	CC
FAWN 2734-11H - Plan A - Design #1	400.00	399.75	63.99	56.21	8.220	ES, SF
FAWN 2734-12H - Plan A - Design #1	303.39	303.39	79.99	72.33	10.444	CC, ES
FAWN 2734-12H - Plan A - Design #1	400.00	399.23	80.13	72.35	10.295	SF
FAWN 2734-13H - Plan A - Design #1	301.38	301.38	95.99	88.34	12.537	CC, ES
FAWN 2734-13H - Plan A - Design #1	400.00	398.13	96.55	88.77	12.410	SF
FAWN 2734-14H - Plan A - Design #1	200.00	200.00	111.99	104.42	14.797	CC, ES, SF
FAWN 2833-01H - Plan A - Design #1	200.00	200.00	96.00	88.43	12.684	CC, ES, SF
FAWN 2833-02H - Plan A - Design #1	200.00	200.00	80.00	72.43	10.570	CC, ES
FAWN 2833-02H - Plan A - Design #1	300.00	298.14	80.79	73.14	10.559	SF
FAWN 2833-03H - Plan A - Design #1	204.44	204.44	64.00	56.43	8.453	CC, ES
FAWN 2833-03H - Plan A - Design #1	300.00	299.12	64.27	56.62	8.399	SF
FAWN 2833-04H - Plan A - Design #1	300.00	300.00	48.00	40.35	6.270	CC, ES, SF

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Reference Well:	FAWN 2734-07H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary						
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Offset Well - Wellbore - Design						
1N-65W-22 Offsets						
CANAL 22-1-3L - Confluence PR Well - Actual BKR Surv	2,458.20	2,579.82	99.40	70.12	3.395	CC, ES, SF
CANAL 22-1-4L - Confluence PR Well - Actual BKR Surv	3,166.55	3,250.27	159.42	128.25	5.114	CC, ES, SF
CANAL 22-2-2L - Confluence PR Well - Actual BKR Surv	2,678.68	2,780.08	107.45	78.29	3.684	CC, ES, SF
CANAL 22-3-3L - Confluence PR Well - Actual BKR Surv	3,585.57	3,673.44	204.25	170.48	6.047	CC, ES
CANAL 22-3-3L - Confluence PR Well - Actual BKR Surv	3,600.00	3,685.78	204.39	170.55	6.040	SF
CANAL 22-4-2L - Confluence PR Well - Actual BKR Surv	3,844.46	3,929.44	205.91	170.39	5.796	CC, ES, SF
DRAKE 01N-65W-22-8N - Verdad PR Well - Actual Ensig						Out of range
LONG 22-15-6NCH - Confluence Original Well - Actual B						Out of range
LONG 22-15-6NCH - Confluence PR Sidetrack - Actual B						Out of range
WILLOW 22-14-2L - Confluence PR Well - Actual BKR S	4,376.39	4,346.05	175.95	144.27	5.554	CC
WILLOW 22-14-2L - Confluence PR Well - Actual BKR S	4,400.00	4,368.64	176.09	144.22	5.526	ES, SF
WILLOW 22-15-3L - Confluence PR Well - Actual Baker	5,098.95	5,043.06	192.33	157.58	5.535	CC
WILLOW 22-15-3L - Confluence PR Well - Actual Baker	5,100.00	5,044.07	192.33	157.58	5.534	ES
WILLOW 22-15-3L - Confluence PR Well - Actual Baker	5,200.00	5,140.83	194.13	158.60	5.463	SF
WILLOW 22-17-2L - Confluence PR Well - Actual BKR S	7,050.00	7,000.16	208.04	166.85	5.051	SF
WILLOW 22-17-2L - Confluence PR Well - Actual BKR S	7,100.00	7,025.47	201.88	161.98	5.060	ES
WILLOW 22-17-2L - Confluence PR Well - Actual BKR S	7,108.98	7,029.23	201.73	162.07	5.087	CC
WILLOW 22-18-3L - Confluence PR Well - Actual BKR S	7,254.49	7,100.58	77.79	37.21	1.917	CC, ES, SF
WILLOW 22-20-2L - Confluence PR Well - Actual BKR S	7,273.22	7,054.17	401.83	361.73	10.022	CC
WILLOW 22-20-2L - Confluence PR Well - Actual BKR S	7,300.00	7,056.71	402.68	361.69	9.824	ES
WILLOW 22-20-2L - Confluence PR Well - Actual BKR S	7,400.00	7,057.08	420.72	376.34	9.480	SF
WILLOW 22-21-3L - Confluence PR Well - Actual BKR S	7,391.29	7,103.30	648.14	605.12	15.069	CC
WILLOW 22-21-3L - Confluence PR Well - Actual BKR S	7,400.00	7,103.36	648.19	604.89	14.969	ES
WILLOW 22-21-3L - Confluence PR Well - Actual BKR S	7,703.19	7,071.00	716.12	662.52	13.360	SF
WILLOW 22-4-4L - Confluence PR Well - Actual BKR Su	4,066.05	4,047.25	166.85	136.49	5.495	CC, ES
WILLOW 22-4-4L - Confluence PR Well - Actual BKR Su	4,100.00	4,079.96	167.15	136.53	5.459	SF
WILLOW 22-5-4L - Confluence PR Well - Actual BKR Su	7,345.39	7,136.43	250.40	207.81	5.880	CC
WILLOW 22-5-4L - Confluence PR Well - Actual BKR Su	7,350.00	7,137.28	250.44	207.57	5.842	ES
WILLOW 22-5-4L - Confluence PR Well - Actual BKR Su	7,400.00	7,143.95	256.34	210.50	5.592	SF
1N-65W-27 Offsets						
ROWE 13N-27HZ - VERDAD PR Well - Actual BHI Surv	11,300.00	12,672.41	42.67	-155.54	0.215	Level 1, SF
ROWE 13N-27HZ - VERDAD PR Well - Actual BHI Surv	11,347.20	12,704.49	25.03	-64.85	0.279	Level 1, CC
ROWE 13N-27HZ - VERDAD PR Well - Actual BHI Surv	11,400.00	12,740.94	45.81	-163.97	0.218	Level 1, ES
1N-65W-28 Offsets Incomplete						
*GLEN YOUNG 1 - KPK P&A Well - No Surveys						Out of range
*NECKIEN 1 - RENEGADE T/A Well - No Surveys						Out of range
YOUNG 01N-65W-28-8N - VERDAD PR Well - Actual En						Out of range
1N-65W-33 Offsets Incomplete						
*HSR-CHERRY KNOLLS 9-33 - KMG D/A Well - No Surv						Out of range
BUFORD 33-10-2L - Confluence Drilled Well - Plan Only						Out of range
BUFORD 33-6-2L - Confluence Planned Well - BKR Plan						Out of range
BUFORD 33-6-4L - Confluence Planned Well - Planned B						Out of range
DESHA 4-15-1 - Confluence PR Well - Actual BKR Surve						Out of range

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Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary						
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Offset Well - Wellbore - Design						
1N-65W-34 Offsets						
DESHA 4-1-3L - Confluence Planned Well - BKR Planne	17,482.65	7,126.97	1,326.13	1,079.01	5.366	CC, ES, SF
DESHA 4-1-4L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-2-2L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-2-4L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-3-1L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-4-3L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-5-2L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-6-1L - Confluence Planned Well - BKR Planne						Out of range
JORDAN #34-2 - KPK PR Well - No Surveys	13,734.96	7,226.00	326.33	-84.49	0.794	Level 1, CC, ES, SF
JORDAN #34-3 - KPK PR Well - No Surveys	16,193.33	7,229.00	486.97	18.74	1.040	Level 2, CC, ES, SF
JORDAN #34-4 - KPK PR Well - No Surveys						Out of range
JORDAN #34-5 - KPK PR Well - No Surveys	17,134.22	7,247.00	1,427.92	937.08	2.909	CC, ES, SF
JORDAN #34-6 - BERGE D/A Well - No Surveys						Out of range
JORDAN #34-7 - KPK P&A Well - No Surveys						Out of range
JORDAN #34-8 - KPK D/A Well - No Surveys						Out of range
JORDAN #34-9 - BERGE P&A Well - No Surveys	17,232.80	7,260.00	560.97	67.37	1.136	Level 2, CC, ES, SF
JORDAN, IVAR #1 - KPK PR Well - No Surveys						Out of range
JORDAN-LOUSTAUNAU #34-10 - KPK D/A Well - No Su	15,484.27	7,220.00	569.41	118.05	1.262	Level 3, CC
JORDAN-LOUSTAUNAU #34-10 - KPK D/A Well - No Su	15,500.00	7,220.00	569.63	117.33	1.259	Level 3, ES, SF
JUDY 3-4 - Confluence PR Well - Actual Ensign Surveys	17,482.65	7,408.92	1,005.55	869.02	7.365	CC, ES, SF
JUDY 34-03-07 - Confluence Planned Well - Pro Directio	17,482.65	7,100.00	593.73	403.62	3.123	CC, ES, SF
JUDY 34-03-08 - Confluence Planned Well - Pro Directio	17,482.65	7,069.13	464.25	371.07	4.982	CC, ES, SF
JUDY 34-03-09 - Confluence Planned Well - Pro Directio	17,482.65	7,182.18	479.06	267.92	2.269	CC, ES, SF
1N-65W-35 Offsets Incomplete						
DOUBLE J 35-11-1CDH - Providence Planned Well - BK						Out of range

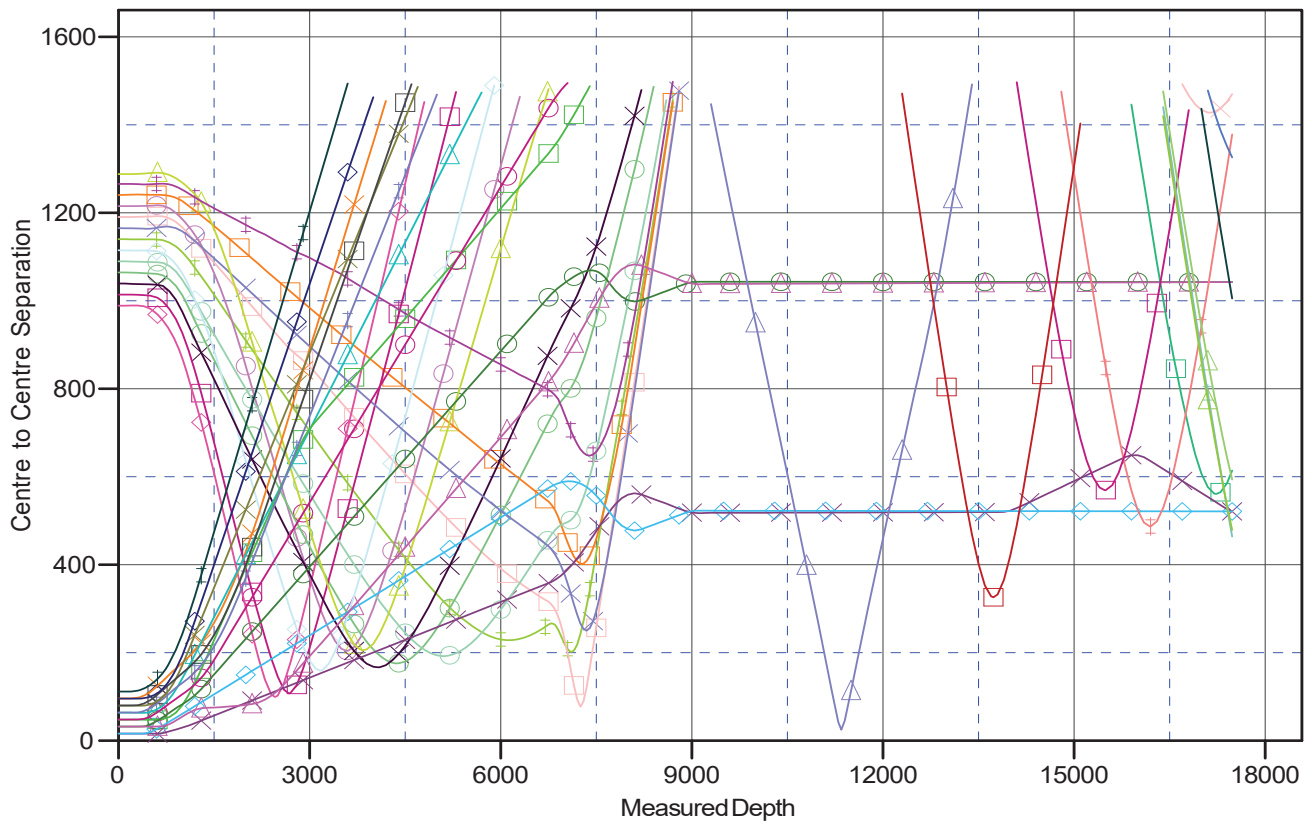
Anticollision Summary Report

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Site Error:	0.00 usft	North Reference:	True
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Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 20' @ 5127.00usft (RIG)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000

Coordinates are relative to: FAWN 2734-07H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.55°

Ladder Plot



LEGEND

WILLOW 22-17-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-01H, Plan A, Design #1 V0	ROWE 13N-27H, VERDAD PR Well, Actual BHIS Surveys V0
WILLOW 22-18-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-11H, Plan A, Design #1 V0	JORDAN #34-0, BERGE P&A Well, No Surveys V0
CANAL 22-3-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-14H, Plan A, Design #1 V0	JORDAN #34-3, KPK PR Well, No Surveys V0
WILLOW 22-14-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-10H, Plan A, Design #1 V0	JORDAN-LOUS TAUNAU #34-10, KPK DA Well, No Surveys V0
CANAL 22-1-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-03H, Plan A, Design #1 V0	JUDY 34-03-08, Confluence Planned Well, P&D Directional Planned Surveys V0
WILLOW 22-20-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-04H, Plan A, Design #1 V0	JORDAN #34-2, KPK PR Well, No Surveys V0
CANAL 22-2-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-08H, Plan A, Design #1 V0	JORDAN #34-6, KPK PR Well, No Surveys V0
WILLOW 22-15-3L, Confluence PR Well, Actual Baker Surveys V0	FAWN 2734-06H, Plan A, Design #1 V0	JUDY 34-03-07, Confluence Planned Well, P&D Directional Planned Surveys V0
CANAL 22-1-4L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-12H, Plan A, Design #1 V0	JUDY 3-4, Confluence PR Well, Actual Ensign Surveys V0
WILLOW 22-4-4L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-02H, Plan A, Design #1 V0	DESHA 4-1-3L, Confluence Planned Well, BKR Planned Surveys V0
WILLOW 22-6-4L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-05H, Plan A, Design #1 V0	JUDY 34-03-09, Confluence Planned Well, P&D Directional Planned Surveys V0
CANAL 22-4-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-13H, Plan A, Design #1 V0	
WILLOW 22-21-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-09H, Plan A, Design #1 V0	

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Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 20' @ 5127.00usft (RIG)

Offset Depths are relative to Offset Datum

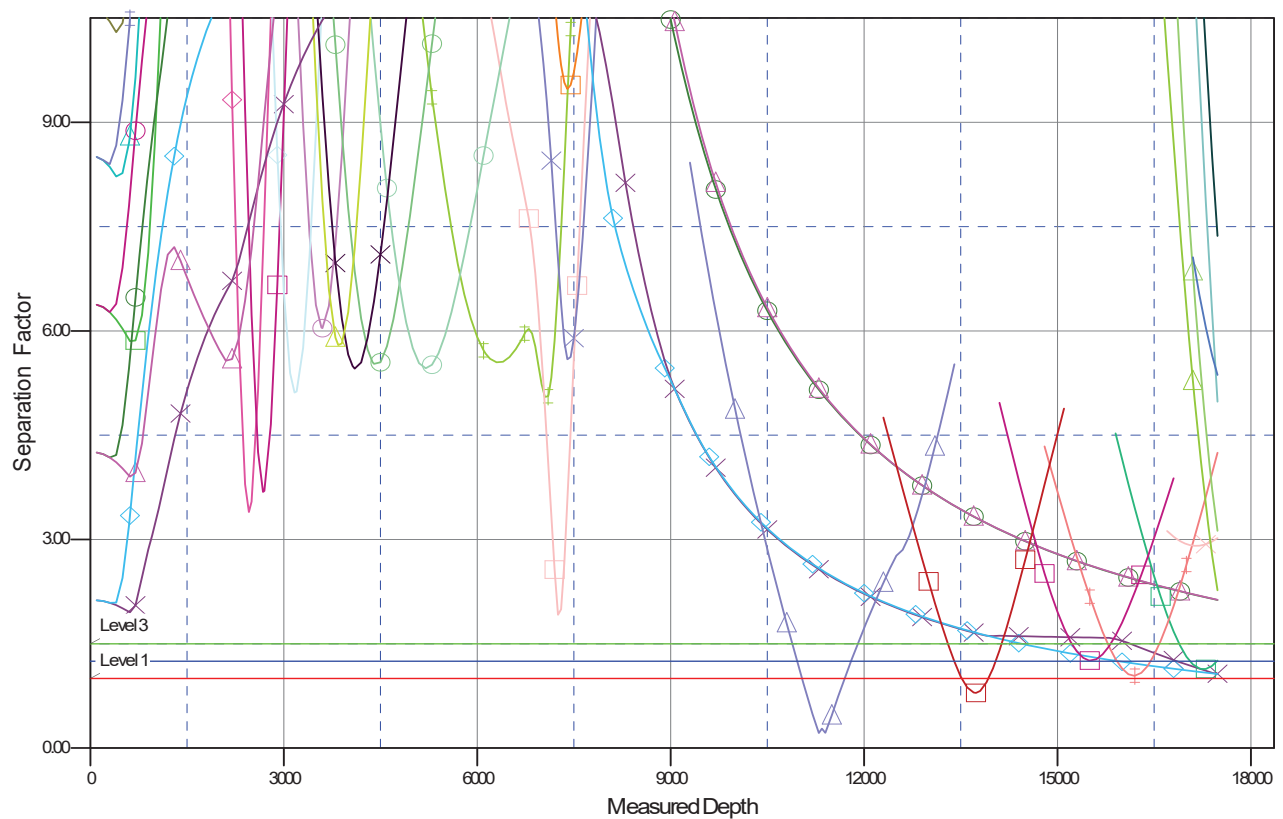
Central Meridian is -105.500000

Coordinates are relative to: FAWN 2734-07H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.55°

Separation Factor Plot



LEGEND

WILLOW 22-17-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-01H, Plan A, Design #1 V0	ROWE 13N-27H, VERDAD PR Well, Actual BKR Surveys V0
WILLOW 22-18-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-11H, Plan A, Design #1 V0	JORDAN #34-0, BERGE P&A Well, No Surveys V0
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WILLOW 22-15-3L, Confluence PR Well, Actual Baker Surveys V0	FAWN 2734-06H, Plan A, Design #1 V0	JUDY 34-03-07, Confluence Planned Well, P&D Directional Planned Surveys V0
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WILLOW 22-4-4L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-02H, Plan A, Design #1 V0	DESHA 4-1-3L, Confluence Planned Well, BKR Planned Surveys V0
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WILLOW 22-21-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-09H, Plan A, Design #1 V0	