

VERDAD RESOURCES

WATTENBERG FIELD

8N-60W-11 SONIC STAR 1101 PAD

SONIC STAR 1101-16H

Plan B

Design #1

Anticollision Summary Report

09 November, 2020

HP

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well SONIC STAR 1101-16H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 16' @ 4898.00usft (RIG)
Reference Site:	8N-60W-11 SONIC STAR 1101 PAD	MD Reference:	RKB = 16' @ 4898.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SONIC STAR 1101-16H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan B	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	11/9/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	1,500.00	Design #1 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination	
1,500.00	18,864.15	Design #1 (Plan B)	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						
8N-60W-11 SONIC STAR 1101 PAD						
SONIC STAR 1101-01H - Plan B - Design #1	200.00	197.00	105.05	97.49	13.880	CC, ES
SONIC STAR 1101-01H - Plan B - Design #1	300.00	294.26	106.08	98.44	13.875	SF
SONIC STAR 1101-03H - Plan B - Design #1	200.00	198.00	90.04	82.47	11.896	CC, ES
SONIC STAR 1101-03H - Plan B - Design #1	1,400.00	1,380.50	173.82	158.47	11.328	SF
SONIC STAR 1101-05H - Plan B - Design #1	265.62	263.40	74.97	67.35	9.840	CC, ES
SONIC STAR 1101-05H - Plan B - Design #1	1,500.00	1,488.32	135.99	118.22	7.655	SF
SONIC STAR 1101-07H - Plan B - Design #1	308.36	307.10	59.87	52.21	7.815	CC, ES
SONIC STAR 1101-07H - Plan B - Design #1	1,600.00	1,596.65	104.66	85.40	5.434	SF
SONIC STAR 1101-09H - Plan B - Design #1	345.61	344.40	44.76	37.06	5.811	CC
SONIC STAR 1101-09H - Plan B - Design #1	400.00	398.66	44.83	37.06	5.767	ES
SONIC STAR 1101-09H - Plan B - Design #1	2,000.00	2,005.57	97.96	72.93	3.914	SF
SONIC STAR 1101-11H - Plan B - Design #1	345.49	344.40	29.79	22.08	3.866	CC, ES
SONIC STAR 1101-11H - Plan B - Design #1	2,300.00	2,317.30	89.94	62.70	3.302	SF
SONIC STAR 1101-13H - Plan B - Design #1	308.21	308.18	14.88	7.22	1.942	CC, ES
SONIC STAR 1101-13H - Plan B - Design #1	16,432.86	16,147.03	691.70	318.66	1.854	SF
8N-60W-12 Offsets						
COLORADO NATIONAL BANK #1 - Shell P&A Well - No	13,100.00	6,180.00	357.04	20.00	1.059	Level 2, ES, SF
COLORADO NATIONAL BANK #1 - Shell P&A Well - No	13,137.52	6,180.00	355.06	25.15	1.076	Level 2, CC

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Reference Well:	SONIC STAR 1101-16H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
8N-60W-14 Offsets						
BOOMSLANG FED 8-60 14A-13-18-1 - Bison Planned W	8,071.76	10,999.95	158.91	-100.41	0.613	Level 1, CC
BOOMSLANG FED 8-60 14A-13-18-1 - Bison Planned W	8,150.00	11,048.91	174.12	-141.01	0.553	Level 1, ES, SF
BOOMSLANG FED 8-60 14A-13-18-10 - Bison Planned W						Out of range
BOOMSLANG FED 8-60 14A-13-18-2 - Bison PR Well - A	8,151.43	11,199.61	288.54	110.54	1.621	CC
BOOMSLANG FED 8-60 14A-13-18-2 - Bison PR Well - A	8,250.00	11,258.39	305.39	94.42	1.448	Level 3, ES, SF
BOOMSLANG FED 8-60 14A-13-18-3 - Bison PR Well - A	7,915.41	11,020.38	749.43	532.94	3.462	CC
BOOMSLANG FED 8-60 14A-13-18-3 - Bison PR Well - A	7,950.00	11,040.03	750.81	530.95	3.415	ES
BOOMSLANG FED 8-60 14A-13-18-3 - Bison PR Well - A	8,050.00	11,101.39	770.08	541.81	3.374	SF
BOOMSLANG FED 8-60 14A-13-18-4 - Bison PR Well - A	7,859.30	10,929.29	1,399.57	1,178.50	6.331	CC
BOOMSLANG FED 8-60 14A-13-18-4 - Bison PR Well - A	7,900.00	10,973.34	1,400.97	1,177.54	6.270	ES
BOOMSLANG FED 8-60 14A-13-18-4 - Bison PR Well - A	8,050.00	11,095.99	1,431.36	1,200.19	6.192	SF
BOOMSLANG FED 8-60 14A-13-18-5 - Bison Planned W	7,867.56	10,607.90	1,169.87	865.43	3.843	CC
BOOMSLANG FED 8-60 14A-13-18-5 - Bison Planned W	7,900.00	10,631.38	1,170.89	863.51	3.809	ES
BOOMSLANG FED 8-60 14A-13-18-5 - Bison Planned W	8,000.00	10,701.71	1,186.92	871.25	3.760	SF
BOOMSLANG FED 8-60 14A-13-18-6 - Bison Planned W	7,899.72	10,806.73	1,401.48	1,103.35	4.701	CC
BOOMSLANG FED 8-60 14A-13-18-6 - Bison Planned W	7,950.00	10,842.54	1,403.85	1,101.12	4.637	ES
BOOMSLANG FED 8-60 14A-13-18-6 - Bison Planned W	8,100.00	10,943.19	1,438.83	1,123.83	4.568	SF
BOOMSLANG FED 8-60 14A-13-18-7 - Bison Planned W						Out of range
BOOMSLANG FED 8-60 14A-13-18-8 - Bison Planned W						Out of range
BOOMSLANG FED 8-60 14A-13-18-9 - Bison Planned W						Out of range
HNIZDIL #1-14 - Gemini D/A Well - No Surveys						Out of range
Schneider 1-14-8-60 - Verdad PR Well - Actual Precision						Out of range
Schneider 2-14-8-60 - Verdad PR Well - Actual Precision						Out of range
8N-60W-14 SCHNEIDER 1414 PAD						
SCHNEIDER 1414-01H - Wellbore #1 - Design #1						Out of range
SCHNEIDER 1414-02H - Wellbore #1 - Design #1						Out of range
SCHNEIDER 1414-03H - Wellbore #1 - Design #3						Out of range
SCHNEIDER 1414-04H - Wellbore #1 - Design #2						Out of range
SCHNEIDER 1414-05H - Wellbore #1 - Design #2						Out of range
SCHNEIDER 1414-06H - Wellbore #1 - Design #2						Out of range
SCHNEIDER 1414-07H - Wellbore #1 - Design #3						Out of range
SCHNEIDER 1414-08H - Wellbore #1 - Design #2						Out of range
SCHNEIDER 1414-09H - Wellbore #1 - Design #2						Out of range
SCHNEIDER 1414-10H - Wellbore #1 - Design #3						Out of range
SCHNEIDER 1414-11H - Wellbore #1 - Design #2						Out of range
SCHNEIDER 1414-12H - Wellbore #1 - Design #2						Out of range
9N-59W-30 MARTIN FED PAD						
MARTIN 3030 01H - Wellbore #1 - Design #1						Out of range
MARTIN 3030 02H - Wellbore #1 - Design #1						Out of range
MARTIN 3030 03H - Wellbore #1 - Design #1						Out of range
MARTIN FED 3031 01H - Wellbore #1 - Design #2	18,864.15	11,312.73	617.08	457.44	3.866	CC, ES, SF
MARTIN FED 3031 02H - Wellbore #1 - Design #2	18,864.15	11,327.44	1,006.19	730.16	3.645	CC, ES, SF
MARTIN FED 3031 03H - Wellbore #1 - Design #2						Out of range
MARTIN FED 3031 04H - Wellbore #1 - Design #2						Out of range

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Reference Site:	8N-60W-11 SONIC STAR 1101 PAD	MD Reference:	RKB = 16' @ 4898.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SONIC STAR 1101-16H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #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-59W-31 Offsets						
AF 1 - Mallard Planned Well - Planned Surveys	18,610.47	6,475.60	390.73	174.85	1.810	CC
AF 1 - Mallard Planned Well - Planned Surveys	18,700.00	6,465.77	400.66	166.73	1.713	ES, SF
AF 2 - Mallard Planned Well - Planned MWD Surveys	16,562.40	7,355.54	371.46	163.76	1.788	CC
AF 2 - Mallard Planned Well - Planned MWD Surveys	16,600.00	7,344.64	373.12	159.79	1.749	ES, SF
ANDERSEN FED 6-5-1HN - Mallard Planned Well - Plan	18,864.15	6,458.88	270.15	51.72	1.237	Level 2, CC, ES, SF
ANDERSEN FED 6-5-2HN - Mallard Planned Well - Plan	18,337.19	6,563.07	294.31	67.17	1.296	Level 3, CC
ANDERSEN FED 6-5-2HN - Mallard Planned Well - Plan	18,400.00	6,554.01	300.74	57.33	1.236	Level 2, ES, SF
ANDERSON FED 6-5-10HN - Mallard Planned Well - Pla	14,243.65	8,516.26	234.42	12.67	1.057	Level 2, CC
ANDERSON FED 6-5-10HN - Mallard Planned Well - Pla	14,300.00	8,500.00	239.51	5.17	1.022	Level 2, ES, SF
ANDERSON FED 6-5-3HC - Mallard Planned Well - Plan	17,924.56	6,736.55	190.22	-53.55	0.780	Level 1, CC
ANDERSON FED 6-5-3HC - Mallard Planned Well - Plan	18,000.00	6,719.35	203.68	-61.16	0.769	Level 1, ES, SF
ANDERSON FED 6-5-4HN - Mallard Planned Well - Plan	17,450.63	6,777.72	385.22	174.63	1.829	CC
ANDERSON FED 6-5-4HN - Mallard Planned Well - Plan	17,500.00	6,768.66	388.21	168.11	1.764	ES, SF
ANDERSON FED 6-5-5HN - Mallard Planned Well - Plan	16,905.22	7,050.73	301.64	82.35	1.376	Level 3, CC
ANDERSON FED 6-5-5HN - Mallard Planned Well - Plan	17,000.00	7,025.99	314.80	79.28	1.337	Level 3, ES, SF
ANDERSON FED 6-5-6HN - Mallard Planned Well - Plan	16,236.11	7,400.00	245.00	18.56	1.082	Level 2, CC
ANDERSON FED 6-5-6HN - Mallard Planned Well - Plan	16,300.00	7,377.80	251.87	14.19	1.060	Level 2, ES, SF
ANDERSON FED 6-5-7HN - Mallard Planned Well - Plan	15,662.61	7,676.82	287.51	70.64	1.326	Level 3, CC
ANDERSON FED 6-5-7HN - Mallard Planned Well - Plan	15,700.00	7,663.71	289.51	66.61	1.299	Level 3, ES, SF
ANDERSON FED 6-5-8HC - Mallard Planned Well - Plan	15,271.95	7,939.58	176.33	-61.61	0.741	Level 1, CC
ANDERSON FED 6-5-8HC - Mallard Planned Well - Plan	15,300.00	7,926.79	177.97	-65.77	0.730	Level 1, ES, SF
ANDERSON FED 6-5-9HN - Mallard Planned Well - Plan	14,782.33	8,164.62	284.00	69.62	1.325	Level 3, CC
ANDERSON FED 6-5-9HN - Mallard Planned Well - Plan	14,800.00	8,157.70	284.43	67.54	1.311	Level 3, ES, SF
RAINBOW-SHULL #1 - Toltex D/A Well - No Surveys						Out of range
SHULL FED 31-32-10HN - Mallard Planned Well - Planne	14,243.66	8,516.24	234.41	12.69	1.057	Level 2, CC
SHULL FED 31-32-10HN - Mallard Planned Well - Planne	14,300.00	8,490.21	239.24	11.59	1.051	Level 2, ES, SF
SHULL FED 31-32-1HN - Mallard PR Well - Actual Mallar						Out of range
SHULL FED 31-32-2HC - Mallard PR Well - Actual Mallar						Out of range
SHULL FED 31-32-3HN - Mallard Planned Well (Now Pro						Out of range
SHULL FED 31-32-4HN - Mallard Planned Well (Now PR						Out of range
SHULL FED 31-32-5HN - Mallard Planned Well - Planned						Out of range
SHULL FED 31-32-6HN - Mallard Planned Well - Planned						Out of range
SHULL FED 31-32-7HN - Mallard Planned Well - Planned						Out of range
SHULL FED 31-32-8HC - Mallard Planned Well - Planned						Out of range
SHULL FED 31-32-9HN - Mallard Planned Well - Planned						Out of range
Shull Fed-9-59-31-0508CDE - Mallard Planned Well - Pla						Out of range
Shull Fed-9-59-31-1209AE - Mallard Planned Well - Plan						Out of range
Shull Fed-9-59-31-2124BE - Mallard Planned Well - Plan						Out of range
Shull Fed-9-59-31-2124CE2 - Mallard Planned Well - Pla						Out of range

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well SONIC STAR 1101-16H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 16' @ 4898.00usft (RIG)
Reference Site:	8N-60W-11 SONIC STAR 1101 PAD	MD Reference:	RKB = 16' @ 4898.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SONIC STAR 1101-16H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #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-60W-25 PEGGY 2501 PAD						
PEGGY 2501-01H - Verdad SI Well - Actual Baker Surve						Out of range
PEGGY 2501-02H - Verdad PR Well - Actual Baker Surve						Out of range
PEGGY 2501-04H - Wellbore #2 - Design #1						Out of range
PEGGY 2501-06H - Wellbore #2 - Design #1						Out of range
PEGGY 2501-08H - Wellbore #2 - Design #1						Out of range
PEGGY 2501-10H - Wellbore #2 - Design #1						Out of range
PEGGY 2501-12H - Wellbore #2 - Design #1						Out of range
PEGGY 2501-14H - Wellbore #2 - Design #1	18,864.15	12,314.01	1,142.05	758.19	2.975	CC, ES, SF
PEGGY 2501-16H - Wellbore #2 - Design #1	18,864.15	12,376.80	512.27	127.69	1.332	Level 3, CC, ES, SF
9N-60W-25 PEGGY 2525 PAD						
PEGGY 2525-01H - Wellbore #1 - Design #2						Out of range
PEGGY 2525-02H - Wellbore #1 - Design #2						Out of range
PEGGY 2525-03H - Wellbore #1 - Design #2						Out of range
PEGGY 2525-04H - Wellbore #1 - Design #2						Out of range
PEGGY 2525-05H - Wellbore #1 - Design #2						Out of range
PEGGY 2525-06H - Wellbore #1 - Design #2						Out of range
PEGGY 2525-07H - Wellbore #1 - Design #2						Out of range
9N-60W-35 Offsets Incomplete						
PINTAIL FED 2-11-8HN - Mallard Planned Well - Planned						Out of range
PINTAIL FED 2-11-9HN - Mallard Planned Well - Planned						Out of range
Shull 1-35-9-60 - Carrizo PR Well - Actual Precision Surv						Out of range
Shull 2-35-9-60 - Verdad PR Well - Actual Precision Surv						Out of range
Shull 3-35-9-60 - Verdad PR Well - Actual Precision Surv						Out of range

Anticollision Summary Report

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

Reference Depths are relative to RKB = 16' @ 4898.00usft (RIG)

Offset Depths are relative to Offset Datum

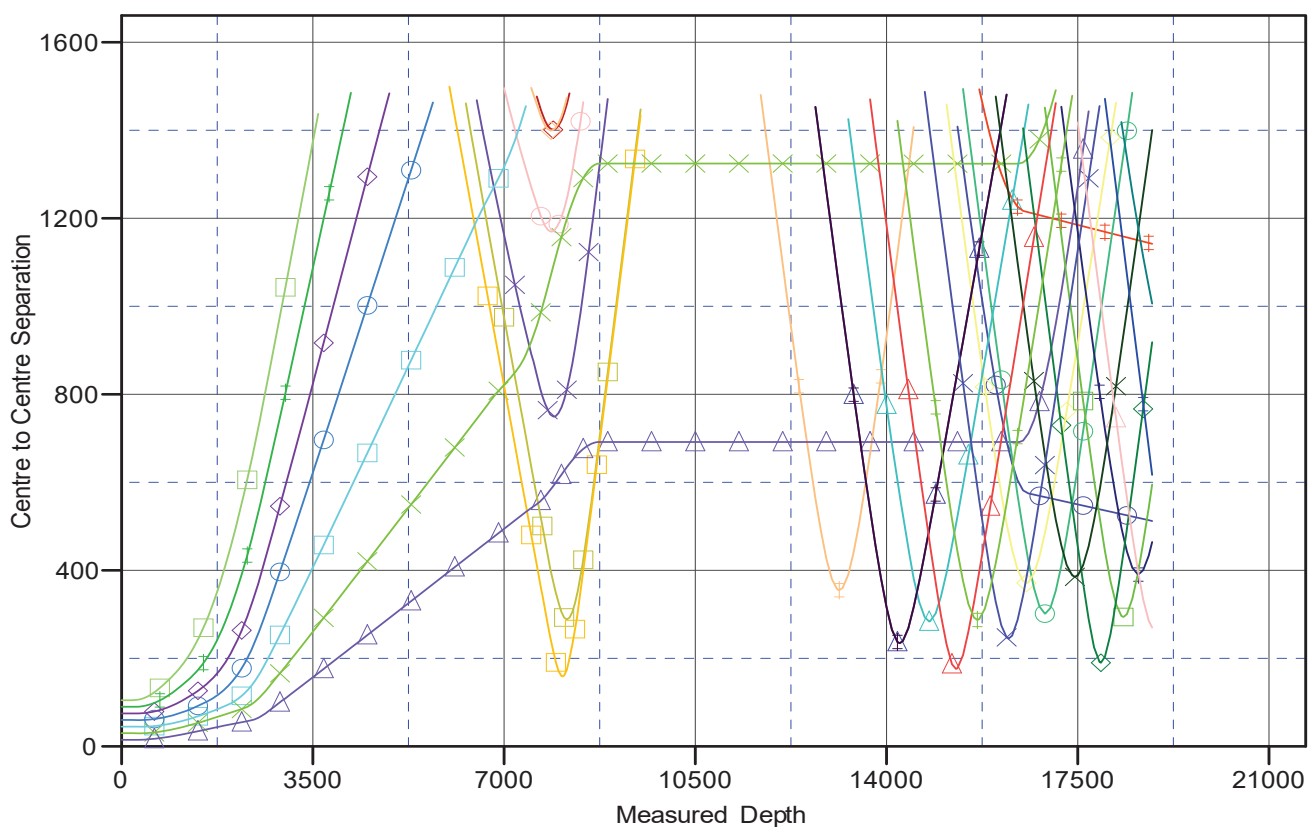
Central Meridian is -105.500000

Coordinates are relative to: SONIC STAR 1101-16H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.94°

Ladder Plot



LEGEND

BOOMSLANG FED 8-60 14A-13-182, Bison PR Well, Actual Baker Surveys V0	SONIC STAR 1101-01H, Plan B, Design #1 V0	ANDERSON FED 6-5-10HN, Mallard Planned Well, Planned MWD Surveys V0
BOOMSLANG FED 8-60 14A-13-185, Bison Planned Well, Planned Bison Surveys V0	SONIC STAR 1101-09H, Plan B, Design #1 V0	ANDERSON FED 6-5-3HC, Mallard Planned Well, Planned MWD Surveys V0
BOOMSLANG FED 8-60 14A-13-186, Bison Planned Well, Bison Planned Surveys V0	SONIC STAR 1101-11H, Plan B, Design #1 V0	ANDERSON FED 6-5-4HN, Mallard Planned Well, Planned MWD Surveys V0
BOOMSLANG FED 8-60 14A-13-183, Bison PR Well, Actual Baker Surveys V0	SONIC STAR 1101-13H, Plan B, Design #1 V0	ANDERSON FED 6-5-6HN, Mallard Planned Well, Planned MWD Surveys V0
BOOMSLANG FED 8-60 14A-13-181, Bison Planned Well, Planned Bison MWD Surveys V0	SONIC STAR 1101-03H, Plan B, Design #1 V0	ANDERSON FED 6-5-8HC, Mallard Planned Well, Planned MWD Surveys V0
BOOMSLANG FED 8-60 14A-13-184, Bison PR Well, Actual Baker Surveys V0	ANDERSON FED 6-5-5HN, Mallard Planned Well, Planned MWD Surveys V0	ANDERSON FED 6-5-1HN, Mallard Planned Well, Planned Surveys V0
PEGGY 2501-16H, Wellbore #2, Design #1 V0	AF 2, Mallard Planned Well, Planned MWD Surveys V0	ANDERSON FED 6-5-7HN, Mallard Planned Well, Planned MWD Surveys V0
PEGGY 2501-14H, Wellbore #2, Design #1 V0	SHULL FED 31-32-10HN, Mallard Planned Well, Planned Surveys V0	MARTIN FED 3031 01H, Wellbore #1, Design #2 V0
COLORADO NATIONAL BANK #1, Shell P&A Well, No Surveys V0	ANDERSON FED 6-5-2HN, Mallard Planned Well, Planned Surveys V0	MARTIN FED 3031 02H, Wellbore #1, Design #2 V0
SONIC STAR 1101-09H, Plan B, Design #1 V0	ANDERSON FED 6-5-9HN, Mallard Planned Well, Planned MWD Surveys V0	
SONIC STAR 1101-07H, Plan B, Design #1 V0	AF 1, Mallard Planned Well, Planned Surveys V0	

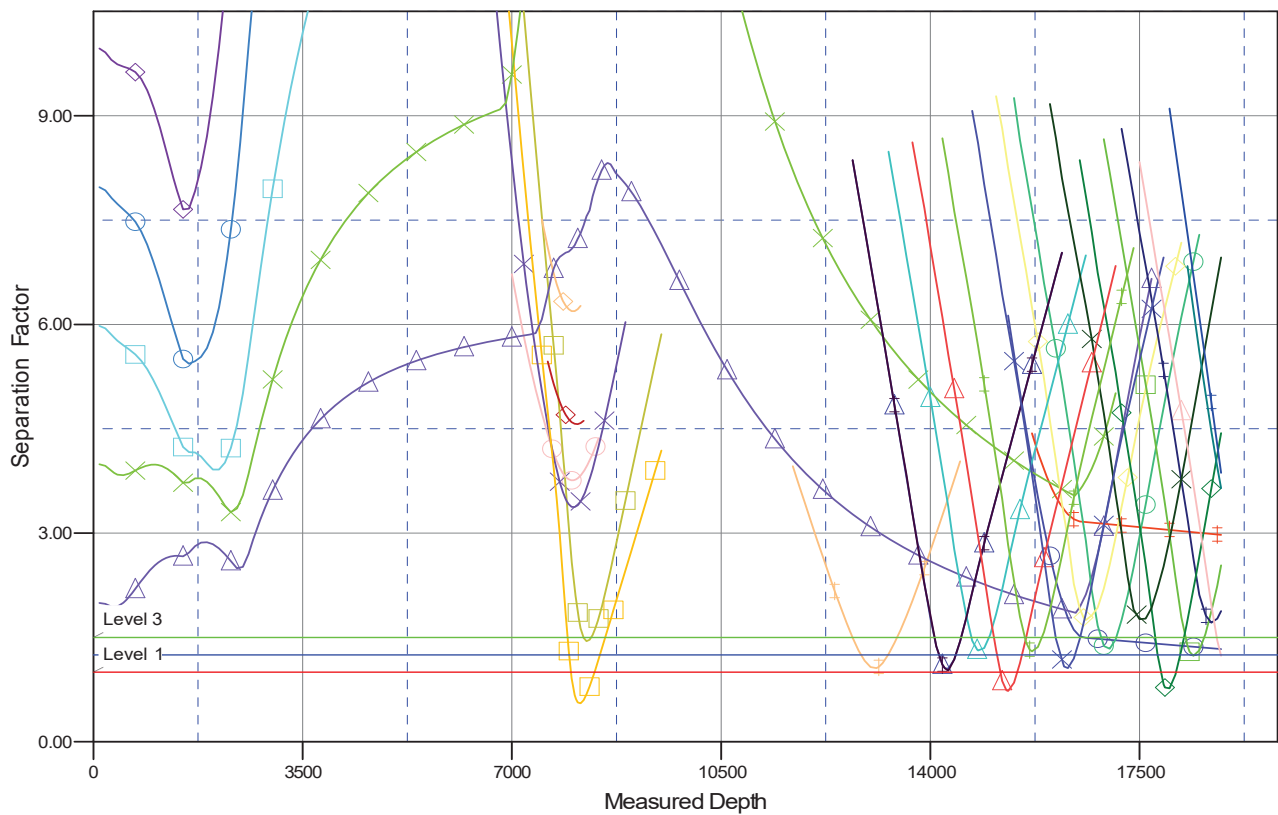
HP
Anticollision Summary Report

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

Reference Depths are relative to RKB = 16' @ 4898.00usft (RIG)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: SONIC STAR 1101-16H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.94°

Separation Factor Plot



LEGEND

BOOMSLANG FED 8-60 14A-13-182, Bison PR Well, Actual Baker Surveys V0	SONIC STAR 1101-01H, Plan B, Design #1 V0	ANDERSON FED 6-5-10HN, Mallard Planned Well, Planned MWD Surveys V0
BOOMSLANG FED 8-60 14A-13-185, Bison Planned Well, Planned Bison Surveys V0	SONIC STAR 1101-09H, Plan B, Design #1 V0	ANDERSON FED 6-5-3HC, Mallard Planned Well, Planned MWD Surveys V0
BOOMSLANG FED 8-60 14A-13-186, Bison Planned Well, Bison Planned Surveys V0	SONIC STAR 1101-11H, Plan B, Design #1 V0	ANDERSON FED 6-5-4HN, Mallard Planned Well, Planned MWD Surveys V0
BOOMSLANG FED 8-60 14A-13-183, Bison PR Well, Actual Baker Surveys V0	SONIC STAR 1101-13H, Plan B, Design #1 V0	ANDERSON FED 6-5-6HN, Mallard Planned Well, Planned MWD Surveys V0
BOOMSLANG FED 8-60 14A-13-181, Bison Planned Well, Planned Bison MWD Surveys V0	SONIC STAR 1101-03H, Plan B, Design #1 V0	ANDERSON FED 6-5-8HC, Mallard Planned Well, Planned MWD Surveys V0
BOOMSLANG FED 8-60 14A-13-184, Bison PR Well, Actual Baker Surveys V0	ANDERSON FED 6-5-5HN, Mallard Planned Well, Planned MWD Surveys V0	ANDERSON FED 6-5-1HN, Mallard Planned Well, Planned Surveys V0
PEGGY 250-116H, Wellbore #2, Design #1 V0	AF 2, Mallard Planned Well, Planned MWD Surveys V0	ANDERSON FED 6-5-7HN, Mallard Planned Well, Planned MWD Surveys V0
PEGGY 250-146H, Wellbore #2, Design #1 V0	SHULL FED 31-32-10HN, Mallard Planned Well, Planned Surveys V0	MARTIN FED 3031 01H, Wellbore #1, Design #2 V0
COLORADO NATIONAL BANK #1, Shell P&A Well, No Surveys V0	ANDERSON FED 6-5-2HN, Mallard Planned Well, Planned Surveys V0	MARTIN FED 3031 02H, Wellbore #1, Design #2 V0
SONIC STAR 1101-09H, Plan B, Design #1 V0	ANDERSON FED 6-5-9HN, Mallard Planned Well, Planned MWD Surveys V0	
SONIC STAR 1101-07H, Plan B, Design #1 V0	AF 1, Mallard Planned Well, Planned Surveys V0	