

VERDAD RESOURCES

WATTENBERG FIELD

9N-60W-25 PEGGY 2501 PAD

PEGGY 2501-08H

Plan B

Design #1

Anticollision Summary Report

08 October, 2021

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well PEGGY 2501-08H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 16' @ 4909.00usft (RIG)
Reference Site:	9N-60W-25 PEGGY 2501 PAD	MD Reference:	RKB = 16' @ 4909.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PEGGY 2501-08H	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	10/8/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	1,590.00	Design #1 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination	
1,590.00	14,277.39	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 #2						Out of range
SONIC STAR 1101-03H - Plan B - Design #2	14,277.39	14,420.18	897.54	519.05	2.371	CC, ES, SF
SONIC STAR 1101-05H - Plan B - Design #2	14,277.39	14,602.03	241.10	-117.83	0.672	Level 1, CC, ES, SF
SONIC STAR 1101-07H - Plan B - Design #2	14,277.39	15,037.39	482.51	133.46	1.382	Level 3, CC, ES, SF
SONIC STAR 1101-09H - Plan B - Design #2	14,256.97	15,183.77	1,093.08	709.21	2.848	CC, ES, SF
SONIC STAR 1101-11H - Plan B - Design #2						Out of range
SONIC STAR 1101-13H - Plan B - Design #2						Out of range
SONIC STAR 1101-16H - Plan B - Design #2						Out of range
9N-60W-25 Offsets						
Shull 1-25-9-60 - Verdad Original Well - Actual Precision						Out of range
Shull 1-25-9-60 - Verdad PR Sidetrack Well - Actual Prec						Out of range
Shull 2-25-9-60 - Verdad PR Well - Actual Precision Surv						Out of range
Shull 3-25-9-60 - Verdad PR Well - Actual Precision Surv	5,947.28	6,095.67	900.38	869.82	29.461	CC
Shull 3-25-9-60 - Verdad PR Well - Actual Precision Surv	5,950.00	6,096.08	900.38	869.81	29.451	ES
Shull 3-25-9-60 - Verdad PR Well - Actual Precision Surv	6,050.00	6,100.54	906.72	875.72	29.241	SF
Shull 4-25-9-60 - Verdad Original Wellbore - Actual Preci	4,000.00	4,129.00	1,003.06	933.37	14.393	SF
Shull 4-25-9-60 - Verdad Original Wellbore - Actual Preci	4,046.17	4,129.00	1,002.00	932.48	14.413	CC, ES
Shull 4-25-9-60 - Verdad PR Sidetrack Well - Actual Prec	5,993.73	6,453.00	397.92	363.73	11.640	CC
Shull 4-25-9-60 - Verdad PR Sidetrack Well - Actual Prec	6,000.00	6,453.00	397.98	363.61	11.578	ES
Shull 4-25-9-60 - Verdad PR Sidetrack Well - Actual Prec	6,050.00	6,443.33	402.86	367.47	11.382	SF
Shull 5-25-9-60 - Verdad PR Well - Actual Titan Surveys	158.52	153.53	1,289.58	1,282.04	170.991	CC, ES
Shull 5-25-9-60 - Verdad PR Well - Actual Titan Surveys	2,000.00	1,858.60	1,494.91	1,482.79	123.368	SF
Shull 6-25-9-60 - Verdad PR Well - Actual Titan Surveys	158.18	152.33	1,274.83	1,267.28	169.049	CC, ES
Shull 6-25-9-60 - Verdad PR Well - Actual Titan Surveys	2,700.00	2,533.33	1,493.62	1,478.98	102.005	SF
Shull 7-25-9-60 - Verdad PR Well - Actual Titan Surveys	5,944.78	5,983.37	1,202.32	1,173.00	41.001	CC
Shull 7-25-9-60 - Verdad PR Well - Actual Titan Surveys	5,950.00	5,984.30	1,202.34	1,172.99	40.976	ES
Shull 7-25-9-60 - Verdad PR Well - Actual Titan Surveys	6,800.00	5,823.00	1,432.62	1,395.46	38.546	SF
Shull 8-25-9-60 - Verdad PR Well - Actual Titan Surveys	5,968.42	6,087.82	588.84	558.11	19.163	CC, ES
Shull 8-25-9-60 - Verdad PR Well - Actual Titan Surveys	6,000.00	6,086.84	589.79	558.92	19.106	SF

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Offset Well - Wellbore - Design						
9N-60W-25 PEGGY 2501 PAD						
PEGGY 2501-01H - Verdad PR Well - Actual Baker Survey	0.00	9.00	68.28			
PEGGY 2501-01H - Verdad PR Well - Actual Baker Survey	100.00	108.98	68.29	60.75	9.064	ES
PEGGY 2501-01H - Verdad PR Well - Actual Baker Survey	300.00	307.88	69.14	61.46	9.003	SF
PEGGY 2501-02H - Verdad PR Well - Actual Baker Survey	130.56	139.56	48.10	40.56	6.376	CC, ES
PEGGY 2501-02H - Verdad PR Well - Actual Baker Survey	400.00	408.28	48.99	41.19	6.280	SF
PEGGY 2501-04H - Plan B - Design #1	416.53	417.53	32.02	24.20	4.097	CC
PEGGY 2501-04H - Plan B - Design #1	500.00	500.60	32.02	24.06	4.023	ES
PEGGY 2501-04H - Plan B - Design #1	14,277.39	14,312.73	1,246.92	856.75	3.196	SF
PEGGY 2501-06H - Plan B - Design #1	503.35	504.35	16.00	8.03	2.008	CC
PEGGY 2501-06H - Plan B - Design #1	540.50	541.40	16.06	8.02	1.997	ES
PEGGY 2501-06H - Plan B - Design #1	14,277.39	14,264.58	623.70	233.19	1.597	SF
PEGGY 2501-10H - Plan B - Design #1	409.35	410.35	16.00	8.19	2.050	CC
PEGGY 2501-10H - Plan B - Design #1	500.00	500.90	16.05	8.09	2.017	ES
PEGGY 2501-10H - Plan B - Design #1	14,277.39	14,302.08	625.61	235.05	1.602	SF
PEGGY 2501-12H - Plan B - Design #1	406.74	407.74	31.99	24.19	4.102	CC, ES
PEGGY 2501-12H - Plan B - Design #1	14,277.39	14,389.99	1,251.08	860.17	3.200	SF
PEGGY 2501-14H - Plan B - Design #1	313.50	313.50	47.99	40.31	6.254	CC
PEGGY 2501-14H - Plan B - Design #1	400.00	399.86	48.00	40.21	6.164	ES, SF
PEGGY 2501-16H - Plan B - Design #1	200.00	199.00	63.98	56.41	8.452	CC, ES, SF
9N-60W-36 Offsets						
STATE-HUSKY #1 - Bennett D/A Well - No Surveys	6,882.14	6,177.00	732.66	489.30	3.011	CC
STATE-HUSKY #1 - Bennett D/A Well - No Surveys	6,900.00	6,177.00	732.88	489.16	3.007	ES, SF

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Reference Depths are relative to RKB = 16' @ 4909.00usft (RIG)

Offset Depths are relative to Offset Datum

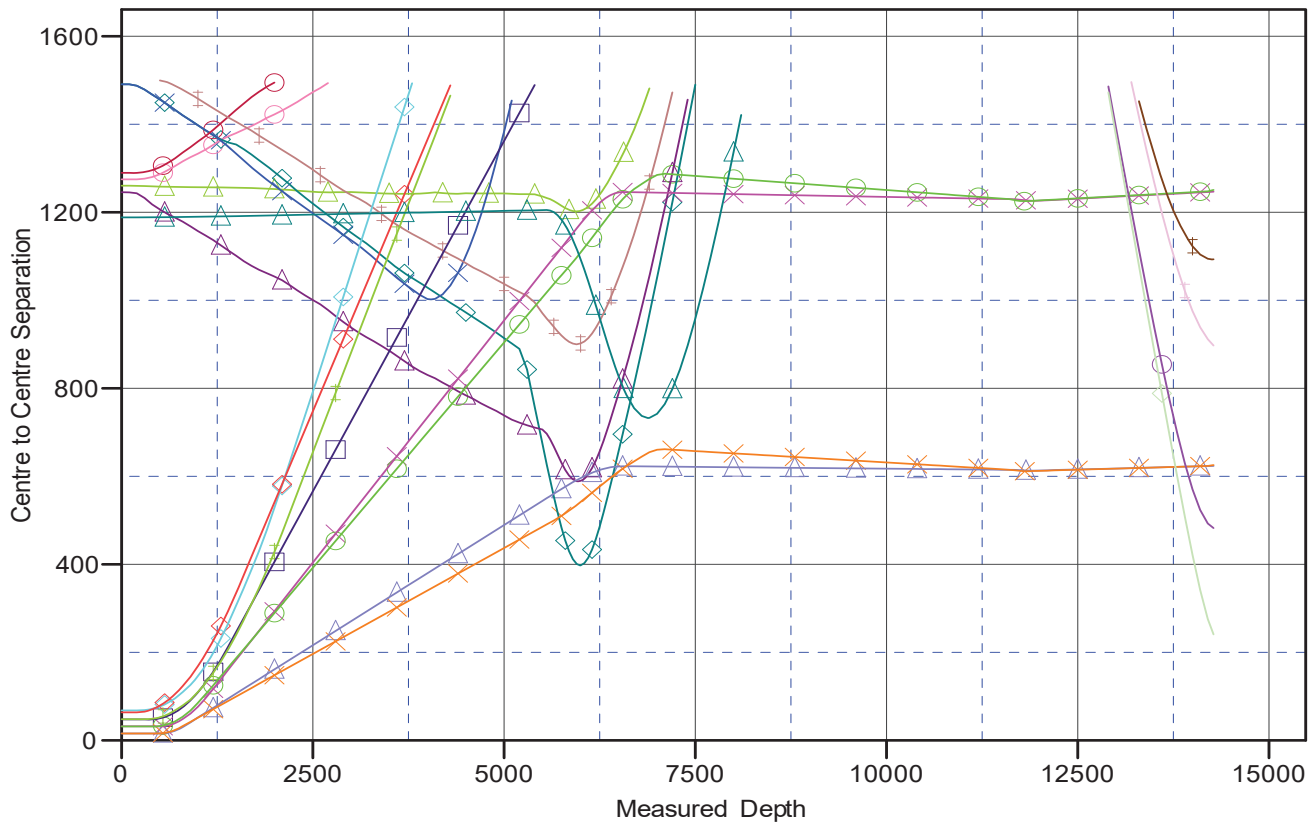
Central Meridian is -105.500000

Coordinates are relative to: PEGGY 2501-08H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.94°

Ladder Plot



LEGEND

Shul 7-25-960, Verdad PR Well, Actual Titan Surveys V0	PEGGY 2501-14H, Plan B, Design#1 V0	PEGGY 2501-10H, Plan B, Design#1 V0
Shul 6-25-960, Verdad PR Well, Actual Titan Surveys V0	PEGGY 2501-01H, Verdad PR Well, Actual Baker Surveys V0	SONIC STAR 1101-09H, Plan B, Design #2 V0
Shul 4-25-960, Verdad PR Sidetrack Well, Actual Precision Surveys Grid to True V0	PEGGY 2501-04H, Plan B, Design#1 V0	SONIC STAR 1101-07H, Plan B, Design #2 V0
Shul 4-25-960, Verdad Original Wellbore, Actual Precision Surveys Grid to True V0	PEGGY 2501-12H, Plan B, Design#1 V0	SONIC STAR 1101-05H, Plan B, Design #2 V0
Shul 8-25-960, Verdad PR Well, Actual Titan Surveys V0	PEGGY 2501-06H, Plan B, Design#1 V0	SONIC STAR 1101-03H, Plan B, Design #2 V0
Shul 5-25-960, Verdad PR Well, Actual Titan Surveys Grid to True V0	PEGGY 2501-19H, Plan B, Design#1 V0	STATE-HUSKY #1, Bennett D/A Well, No Surveys V0
Shul 3-25-960, Verdad PR Well, Actual Precision Surveys Grid to True V0	PEGGY 2501-02H, Verdad PR Well, Actual Baker Surveys V0	

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Offset Depths are relative to Offset Datum

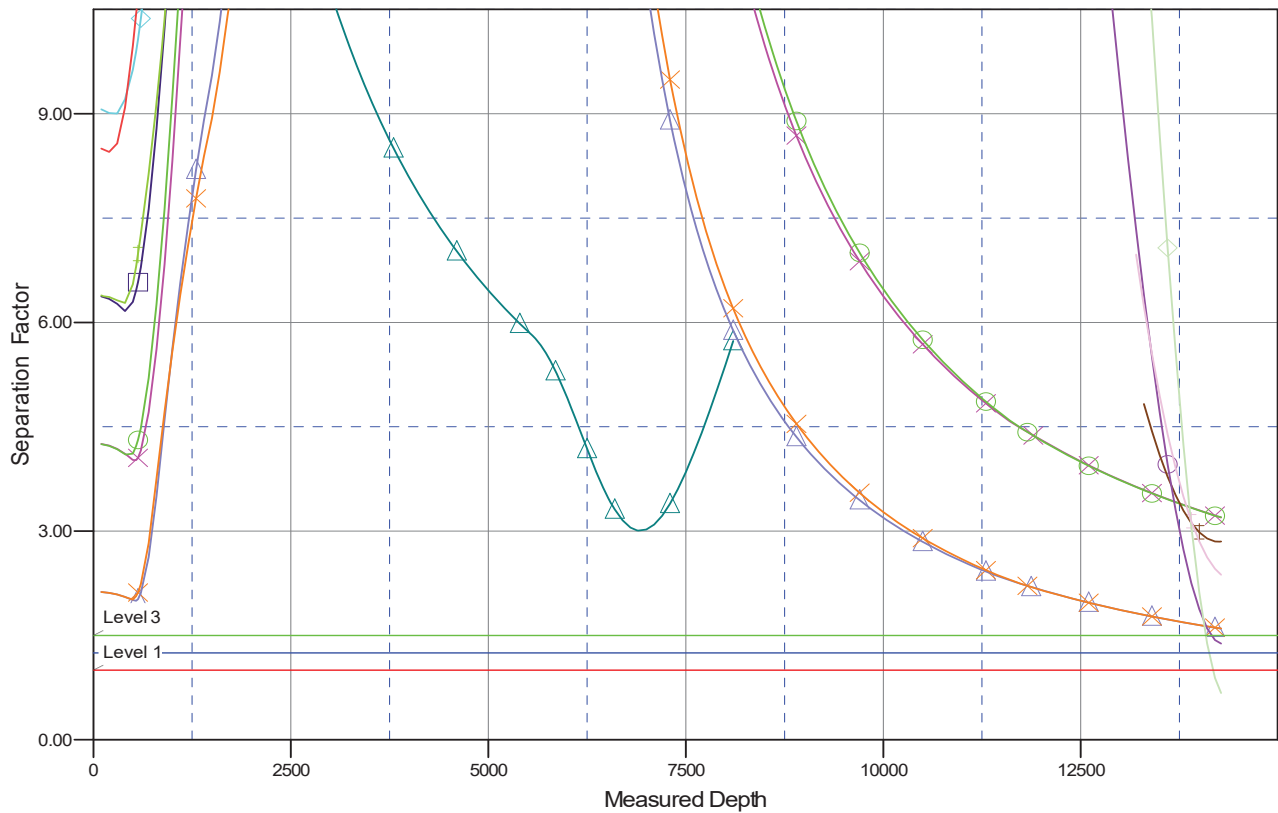
Central Meridian is -105.500000

Coordinates are relative to: PEGGY 2501-08H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.94°

Separation Factor Plot



LEGEND

Shull 7-25-960, Verdad PR Well, Actual T1an Surveys V0	PEGGY 2501-14H, Plan B, Design#1 V0	PEGGY 2501-10H, Plan B, Design#1 V0
Shull 6-25-960, Verdad PR Well, Actual T1an Surveys V0	PEGGY 2501-01H, Verdad PR Well, Actual Baker Surveys V0	SONIC STAR 1101-09H, Plan B, Design #2 V0
Shull 4-25-960, Verdad PR Sidetrack Well, Actual Precision Surveys Grid to True V0	PEGGY 2501-04H, Plan B, Design#1 V0	SONIC STAR 1101-07H, Plan B, Design #2 V0
Shull 4-25-960, Verdad Original Wellbore, Actual Precision Surveys Grid to True V0	PEGGY 2501-12H, Plan B, Design#1 V0	SONIC STAR 1101-05H, Plan B, Design #2 V0
Shull 8-25-960, Verdad PR Well, Actual T1an Surveys V0	PEGGY 2501-09H, Plan B, Design#1 V0	SONIC STAR 1101-03H, Plan B, Design #2 V0
Shull 5-25-960, Verdad PR Well, Actual T1an Surveys Grid to True V0	PEGGY 2501-16H, Plan B, Design#1 V0	STATE-HLSKY #1, Bennett D/A Well, No Surveys V0
Shull 3-25-960, Verdad PR Well, Actual Precision Surveys Grid to True V0	PEGGY 2501-02H, Verdad PR Well, Actual Baker Surveys V0	