

VERDAD RESOURCES

WATTENBERG FIELD

9N-60W-25 PEGGY 2525 PAD

PEGGY 2525-01H

Plan B

Design #1

Anticollision Summary Report

13 November, 2021

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well PEGGY 2525-01H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 4915.00usft (RIG)
Reference Site:	9N-60W-25 PEGGY 2525 PAD	MD Reference:	RKB = 20' @ 4915.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PEGGY 2525-01H	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	11/13/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,575.00	Design #1 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination
1,575.00	11,749.58	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						
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						Out of range
Shull 4-25-9-60 - Verdad Original Wellbore - Actual Preci						Out of range
Shull 4-25-9-60 - Verdad PR Sidetrack Well - Actual Prec						Out of range
Shull 5-25-9-60 - Verdad PR Well - Actual Titan Surveys	164.61	153.61	1,438.36	1,430.81	190.693	CC, ES
Shull 5-25-9-60 - Verdad PR Well - Actual Titan Surveys	600.00	441.77	1,478.95	1,470.97	185.352	SF
Shull 6-25-9-60 - Verdad PR Well - Actual Titan Surveys	154.00	143.00	1,423.60	1,416.06	188.849	CC, ES
Shull 6-25-9-60 - Verdad PR Well - Actual Titan Surveys	700.00	533.25	1,485.48	1,477.26	180.680	SF
Shull 7-25-9-60 - Verdad PR Well - Actual Titan Surveys	268.39	264.82	1,408.78	1,401.17	185.101	CC, ES
Shull 7-25-9-60 - Verdad PR Well - Actual Titan Surveys	1,000.00	974.39	1,498.11	1,488.81	161.175	SF
Shull 8-25-9-60 - Verdad PR Well - Actual Titan Surveys	544.70	666.22	1,364.49	1,356.37	168.071	CC, ES
Shull 8-25-9-60 - Verdad PR Well - Actual Titan Surveys	1,500.00	1,650.79	1,496.35	1,484.09	121.999	SF
9N-60W-25 PEGGY 2501 PAD						
PEGGY 2501-01H - Verdad PR Well - Actual Baker Surve	6,635.36	6,762.86	60.17	12.43	1.260	Level 3, CC
PEGGY 2501-01H - Verdad PR Well - Actual Baker Surve	6,650.00	6,754.96	61.42	11.25	1.224	Level 2, ES, SF
PEGGY 2501-02H - Verdad PR Well - Actual Baker Surve	257.85	261.04	100.42	92.79	13.170	CC, ES
PEGGY 2501-02H - Verdad PR Well - Actual Baker Surve	6,600.00	6,666.69	302.13	250.48	5.849	SF
PEGGY 2501-04H - Plan B - Design #1	252.20	247.20	116.79	109.19	15.353	CC, ES
PEGGY 2501-04H - Plan B - Design #1	300.00	295.00	117.17	109.52	15.313	SF
PEGGY 2501-06H - Plan B - Design #1	252.20	247.20	132.82	125.21	17.460	CC, ES
PEGGY 2501-06H - Plan B - Design #1	300.00	295.00	133.19	125.54	17.407	SF
PEGGY 2501-08H - Plan B - Design #1	252.20	246.20	148.81	141.20	19.564	CC, ES
PEGGY 2501-08H - Plan B - Design #1	300.00	294.00	149.19	141.53	19.499	SF
PEGGY 2501-10H - Plan B - Design #1	252.20	247.20	164.81	157.20	21.665	CC, ES
PEGGY 2501-10H - Plan B - Design #1	300.00	295.00	165.18	157.53	21.588	SF
PEGGY 2501-12H - Plan B - Design #1	252.20	247.20	180.80	173.19	23.768	CC, ES
PEGGY 2501-12H - Plan B - Design #1	300.00	295.00	181.18	173.52	23.678	SF
PEGGY 2501-14H - Plan B - Design #1	252.20	246.20	196.80	189.19	25.872	CC, ES
PEGGY 2501-14H - Plan B - Design #1	300.00	294.00	197.17	189.52	25.771	SF
PEGGY 2501-16H - Plan B - Design #1	200.00	193.00	212.79	205.22	28.121	CC, ES
PEGGY 2501-16H - Plan B - Design #1	252.20	242.19	213.10	205.50	28.025	SF

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Summary						
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Offset Well - Wellbore - Design				Between Ellipses (usft)		
9N-60W-25 PEGGY 2525 PAD						
PEGGY 2525-02H - Plan B - Design #1	252.20	251.20	16.02	8.42	2.106	CC, ES
PEGGY 2525-02H - Plan B - Design #1	11,749.58	11,632.18	468.00	231.71	1.981	SF
PEGGY 2525-03H - Plan B - Design #1	252.20	251.20	32.02	24.41	4.209	CC, ES
PEGGY 2525-03H - Plan B - Design #1	11,749.58	11,503.39	935.96	703.76	4.031	SF
PEGGY 2525-04H - Plan B - Design #1	252.20	251.20	48.01	40.41	6.311	CC, ES
PEGGY 2525-04H - Plan B - Design #1	11,749.58	11,445.13	1,404.00	1,167.45	5.935	SF
PEGGY 2525-05H - Plan B - Design #1	270.75	270.14	63.86	56.24	8.380	CC, ES
PEGGY 2525-05H - Plan B - Design #1	300.00	299.55	63.97	56.32	8.364	SF
9N-60W-27 Offsets Incomplete						
BASHOR FED 27-3-9HC - Mallard Planned Well - Planne						Out of range
KEOTA PC #LB26-62HN - Noble PR Well - Actual Sperry	7,301.38	10,740.00	953.76	886.16	14.108	CC
KEOTA PC #LB26-62HN - Noble PR Well - Actual Sperry	7,400.00	10,740.00	960.53	880.72	12.035	ES
KEOTA PC #LB26-62HN - Noble PR Well - Actual Sperry	8,100.00	10,740.00	1,274.08	1,093.17	7.043	SF
9N-60W-35 Offsets Incomplete						
PINTAIL FED 2-11-1HN - Mallard Drilled Well No COGCC						Out of range
PINTAIL FED 2-11-2HN - Mallard Drilled Well No COGCC						Out of range
PINTAIL FED 2-11-3HC - Mallard Planned Well - Planned						Out of range
PINTAIL FED 2-11-4HN - Mallard Drilled Well No COGCC						Out of range
PINTAIL FED 2-11-5HN - Mallard Drilled Well No COGCC						Out of range
PINTAIL FED 2-11-6HN - Mallard Drilled Well No COGCC						Out of range
PINTAIL FED 2-11-7HN - Mallard Drilled Well No COGCC						Out of range
PINTAIL FED 2-11-8HN - Mallard Drilled Well No COGCC						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	6,547.70	6,338.00	906.19	864.14	21.552	CC
Shull 1-35-9-60 - Carrizo PR Well - Actual Precision Surv	6,550.00	6,338.00	906.19	864.07	21.515	ES
Shull 1-35-9-60 - Carrizo PR Well - Actual Precision Surv	7,100.00	6,188.03	1,101.33	1,041.10	18.285	SF
Shull 2-35-9-60 - Verdad PR Well - Actual Precision Surv	6,582.26	6,240.10	1,103.30	1,063.62	27.806	CC
Shull 2-35-9-60 - Verdad PR Well - Actual Precision Surv	6,600.00	6,239.00	1,103.52	1,063.50	27.579	ES
Shull 2-35-9-60 - Verdad PR Well - Actual Precision Surv	7,400.00	5,984.00	1,404.48	1,343.31	22.959	SF
Shull 3-35-9-60 - Verdad PR Well - Actual Precision Surv	6,688.51	6,114.00	1,356.73	1,318.19	35.207	CC
Shull 3-35-9-60 - Verdad PR Well - Actual Precision Surv	6,700.00	6,103.84	1,356.74	1,318.09	35.105	ES
Shull 3-35-9-60 - Verdad PR Well - Actual Precision Surv	7,200.00	5,987.00	1,474.39	1,422.60	28.468	SF

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Reference Depths are relative to RKB = 20' @ 4915.00usft (RIG)

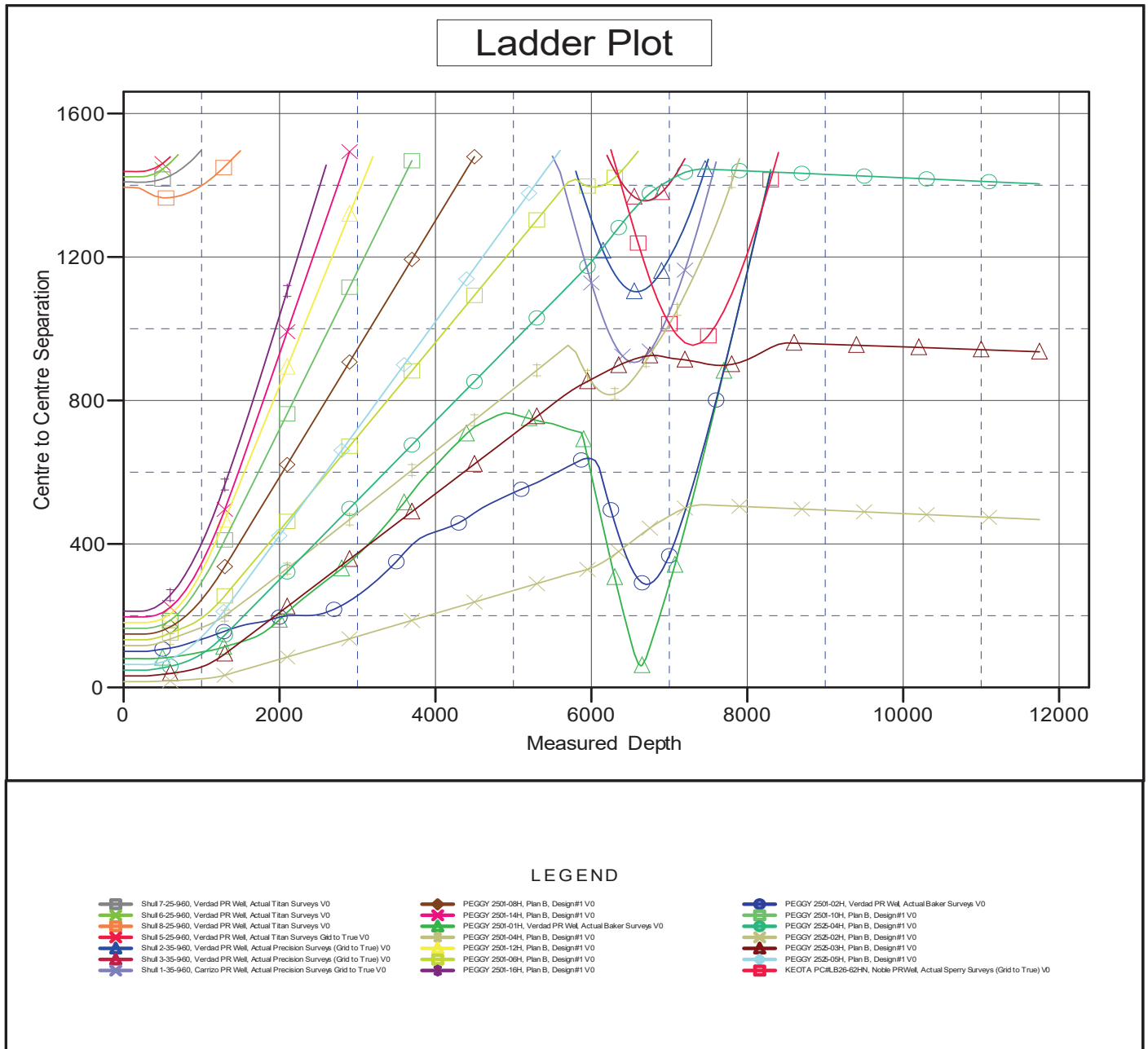
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: PEGGY 2525-01H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.94°



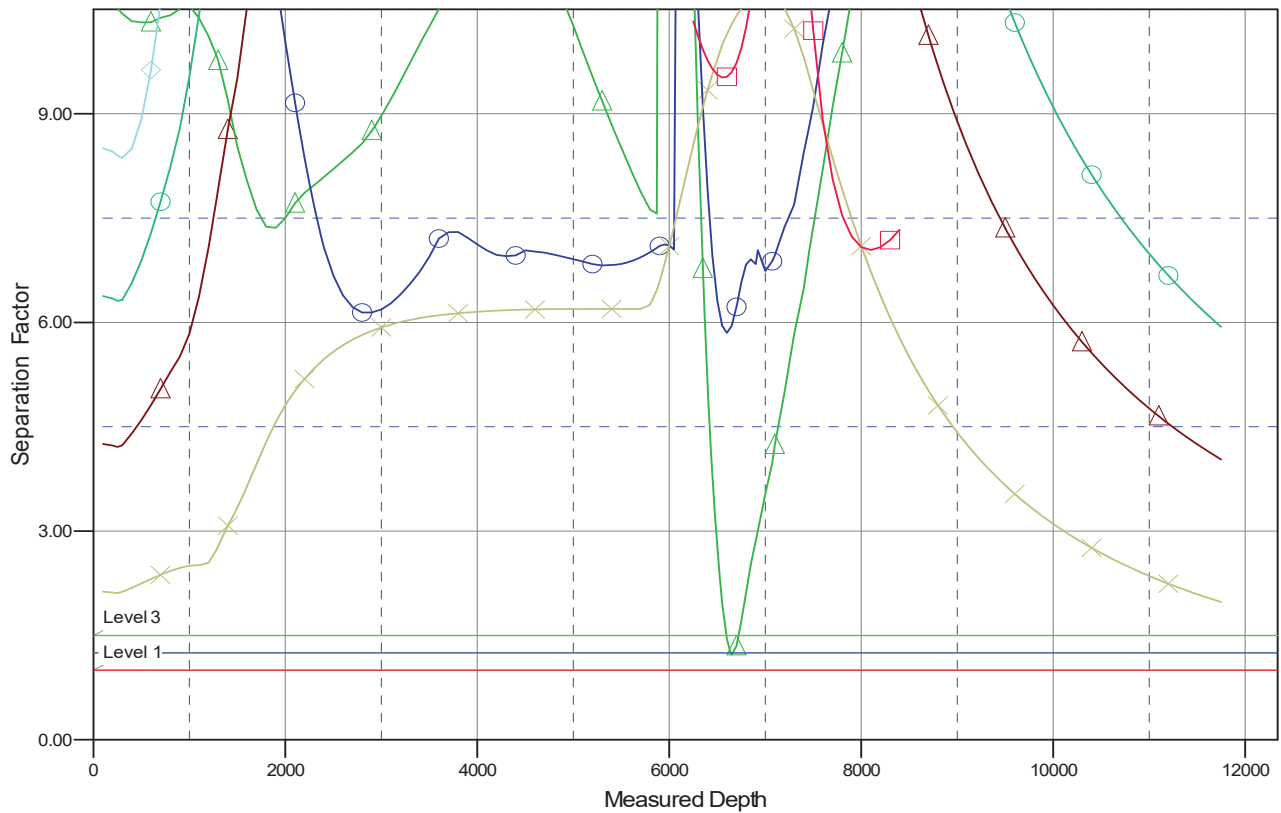
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Coordinates are relative to: PEGGY 2525-01H
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Grid Convergence at Surface is: 0.94°

Separation Factor Plot



LEGEND

Shull 7-25-960, Verdard PR Well, Actual Titan Surveys V0	PEGGY 2501-08H, Plan B, Design#1 V0	PEGGY 2501-02H, Verdard PR Well, Actual Baker Surveys V0
Shull 6-25-960, Verdard PR Well, Actual Titan Surveys V0	PEGGY 2501-14H, Plan B, Design#1 V0	PEGGY 2501-10H, Plan B, Design#1 V0
Shull 8-25-960, Verdard PR Well, Actual Titan Surveys V0	PEGGY 2501-01H, Verdard PR Well, Actual Baker Surveys V0	PEGGY 2525-04H, Plan B, Design#1 V0
Shull 5-25-960, Verdard PR Well, Actual Titan Surveys Gld to True V0	PEGGY 2501-04H, Plan B, Design#1 V0	PEGGY 2525-03H, Plan B, Design#1 V0
Shull 2-35-960, Verdard PR Well, Actual Precision Surveys (Gld to True) V0	PEGGY 2501-12H, Plan B, Design#1 V0	PEGGY 2525-03H, Plan B, Design#1 V0
Shull 3-35-960, Verdard PR Well, Actual Precision Surveys (Gld to True) V0	PEGGY 2501-09H, Plan B, Design#1 V0	PEGGY 2525-05H, Plan B, Design#1 V0
Shull 1-35-960, Carrizo PR Well, Actual Precision Surveys Gld to True V0	PEGGY 2501-16H, Plan B, Design#1 V0	KEOTA PCILB26-62H-N, Noble PR Well, Actual Sperry Surveys (Gld to True) V0