

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-12 RAMEN 1423 PAD

RAMEN 1423-03H

Plan B

Permit Rev-1

Anticollision Summary Report

17 August, 2023

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well RAMEN 1423-03H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 24' @ 4995.00usft (RIG)
Reference Site:	1N-65W-12 RAMEN 1423 PAD	MD Reference:	RKB = 24' @ 4995.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	RAMEN 1423-03H	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:	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	8/17/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	2,020.00	Permit Rev-1 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination
2,020.00	20,339.38	Permit Rev-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						
1N-65W-10 HDI KF PAD						
HDI KF 10-11H - Verdad PR Well - Actual Baker Surveys						Out of range
1N-65W-11 Offsets						
HUDSON 1-11 - KMG SI Well - No Surveys						Out of range
1N-65W-12 Offsets						
RINGSBY 1 - KPK P&A Well - No Surveys						Out of range
RINGSBY 2 - KPK SI Well - No Surveys						Out of range
WUERTZ 12-3 - KPK PR Well - No Surveys	4,285.45	3,376.80	551.74	374.96	3.121	CC
WUERTZ 12-3 - KPK PR Well - No Surveys	4,300.00	3,385.83	551.85	374.43	3.110	ES
WUERTZ 12-3 - KPK PR Well - No Surveys	4,400.00	3,447.92	559.00	377.79	3.085	SF
1N-65W-12 RAMEN 1423 PAD						
RAMEN 1423-01H - Plan B - Permit Rev-1	200.00	200.00	32.00	24.43	4.229	CC, ES
RAMEN 1423-01H - Plan B - Permit Rev-1	2,900.00	2,856.94	84.03	39.28	1.878	SF
RAMEN 1423-02H - Plan B - Permit Rev-1	202.73	202.73	16.00	8.43	2.114	CC
RAMEN 1423-02H - Plan B - Permit Rev-1	2,900.00	2,877.56	45.65	1.28	1.029	Level 2, ES, SF
RAMEN 1423-04H - Plan B - Permit Rev-1	244.80	244.80	16.00	8.40	2.105	CC, ES
RAMEN 1423-04H - Plan B - Permit Rev-1	20,340.00	19,915.12	624.03	49.03	1.085	Level 2, SF
RAMEN 1423-05H - Plan B - Permit Rev-1	244.80	244.80	32.00	24.40	4.210	CC, ES
RAMEN 1423-05H - Plan B - Permit Rev-1	20,340.00	19,510.85	1,248.06	673.22	2.171	SF
RAMEN 1423-06H - Plan B - Permit Rev-1	244.80	244.80	48.00	40.40	6.316	CC, ES
RAMEN 1423-06H - Plan B - Permit Rev-1	2,500.00	2,545.62	140.70	106.69	4.137	SF
RAMEN 1423-07H - Plan B - Permit Rev-1	244.80	244.80	64.00	56.40	8.421	CC, ES
RAMEN 1423-07H - Plan B - Permit Rev-1	2,400.00	2,454.05	169.67	141.87	6.104	SF
RAMEN 1423-08H - Plan A - Permit Rev-1	251.33	251.53	79.88	72.28	10.509	CC, ES
RAMEN 1423-08H - Plan A - Permit Rev-1	2,000.00	2,019.10	227.83	197.84	7.596	SF

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Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Permit Rev-1	Offset TVD Reference:	Offset Datum

Summary						
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Offset Well - Wellbore - Design						
1N-65W-12 SAFI 1224 PAD						
SAFI 1224-02H - Verdad PR Well - Actual SLB Surveys	285.79	283.09	95.42	87.77	12.473	CC, ES
SAFI 1224-02H - Verdad PR Well - Actual SLB Surveys	1,800.00	1,825.94	220.17	201.88	12.034	SF
SAFI 1224-04H - Verdad PR Well - Actual SLB Surveys	517.86	524.17	99.66	91.59	12.349	CC, ES
SAFI 1224-04H - Verdad PR Well - Actual SLB Surveys	600.00	604.84	101.47	93.15	12.199	SF
SAFI 1224-06H - Verdad PR Well - Actual SLB Surveys	324.03	323.38	127.00	119.31	16.508	CC, ES
SAFI 1224-06H - Verdad PR Well - Actual SLB Surveys	500.00	500.75	130.57	122.59	16.348	SF
SAFI 1224-08H - Verdad PR Well - Actual SLB Surveys	255.60	252.12	143.48	135.86	18.826	CC, ES
SAFI 1224-08H - Verdad PR Well - Actual SLB Surveys	300.00	296.54	143.80	136.14	18.765	SF
SAFI 1224-10H - Verdad PR Well - Actual SLB Surveys	249.90	246.17	159.59	151.97	20.953	CC, ES
SAFI 1224-10H - Verdad PR Well - Actual SLB Surveys	300.00	294.73	160.24	152.58	20.913	SF
SAFI 1224-12H - Verdad PR Well - Actual SLB Surveys	247.74	243.91	175.36	167.74	23.030	CC, ES
SAFI 1224-12H - Verdad PR Well - Actual SLB Surveys	300.00	294.14	176.11	168.45	22.986	SF
SAFI 1224-14H - Verdad PR Well - Actual SLB Surveys	215.83	211.84	191.16	183.57	25.188	CC, ES
SAFI 1224-14H - Verdad PR Well - Actual SLB Surveys	300.00	291.96	192.43	184.77	25.119	SF
1N-65W-12 WUERTZ 1201 PAD						
WUERTZ 1201-11H - VERDAD PR Well - Actual SLB Su						Out of range
WUERTZ 1201-14H - VERDAD PR Well - Actual SLB Su						Out of range
WUERTZ 1201-16H - VERDAD PR Well - Actual SLB Su						Out of range
WUERTZ 1201-18H - VERDAD PR Well - Actual SLB Su						Out of range
WUERTZ 1201-2H - VERDAD PR Well - Actual SLB Sur						Out of range
WUERTZ 1201-3H - VERDAD PR Well - Actual SLB Sur						Out of range
WUERTZ 1201-5H - VERDAD PR Well - Actual SLB Sur						Out of range
WUERTZ 1201-7H - VERDAD PR Well - Actual SLB Sur						Out of range
WUERTZ 1201-9H - VERDAD PR Well - Actual SLB Sur						Out of range
1N-65W-14 Offsets						
AMEN 5 - VERDAD PR Well - Actual Ensign Surveys	6,648.21	4,846.91	1,017.57	890.61	8.015	CC
AMEN 5 - VERDAD PR Well - Actual Ensign Surveys	6,700.00	4,884.21	1,018.30	889.94	7.933	ES
AMEN 5 - VERDAD PR Well - Actual Ensign Surveys	6,900.00	5,022.12	1,035.10	903.07	7.840	SF
STEINWALD #37 - NOBLE P&A Well - No Surveys	14,048.43	7,128.00	444.99	46.30	1.116	Level 2, CC
STEINWALD #37 - NOBLE P&A Well - No Surveys	14,200.00	7,128.00	470.09	24.69	1.055	Level 2, ES, SF
1N-65W-22 Offsets						
CANAL 22-1-3L - Confluence PR Well - Actual BKR Surv						Out of range
1N-65W-26 Offsets						
PARKER 10-26 - MTN P&A Well - No Surveys						Out of range
ROWE 01N-65W-26-8N - VERDAD PR Well - Actual Ens	20,340.00	6,940.00	575.22	349.53	2.549	CC, ES, SF

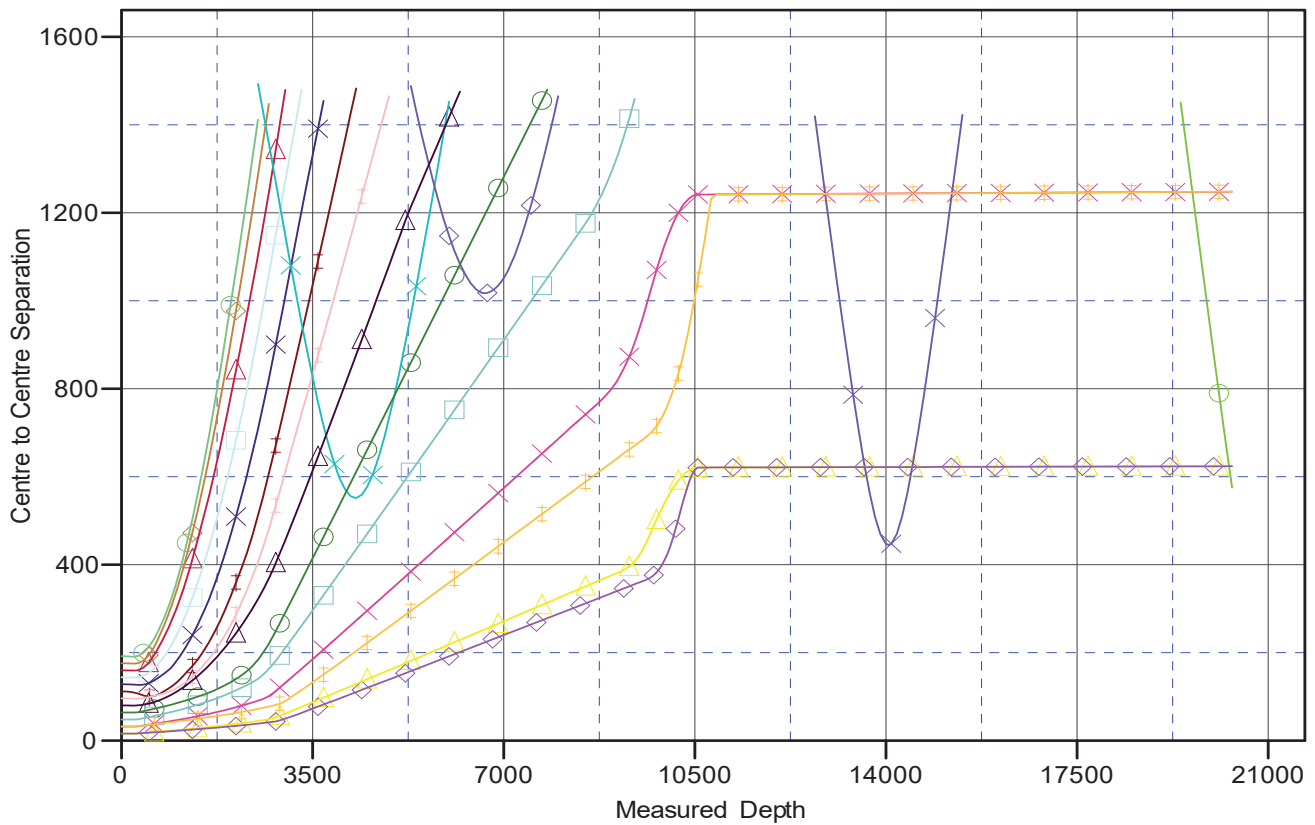
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Reference Design:	Permit Rev-1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 24' @ 4995.00usft (RIG)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: RAMEN 1423-03H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.57°

Ladder Plot



LEGEND

SAFI 1224-04H, Verdad PR Well, Actual SLB Surveys V0	SAFI 1224-02H, Verdad PR Well, Actual SLB Surveys V0	RAMEN 1423-07H, Plan B, Permit Rev-1 V0
SAFI 1224-09H, Verdad PR Well, Actual SLB Surveys V0	WJERTZ, 0-3, KOPK PR Well, No Surveys V0	RAMEN 1423-02H, Plan B, Permit Rev-1 V0
SAFI 1224-14H, Verdad PR Well, Actual SLB Surveys V0	ROME 01N65W-36-8N, VERDAD PR Well, Actual Ensign Surveys V0	RAMEN 1423-05H, Plan B, Permit Rev-1 V0
SAFI 1224-09H, Verdad PR Well, Actual SLB Surveys V0	AMEN 5, VERDAD PR Well, Actual Ensign Surveys V0	RAMEN 1423-08H, Plan A, Permit Rev-1 V0
SAFI 1224-10H, Verdad PR Well, Actual SLB Surveys V0	STEINWALD #37, NOBLE P&A Well, No Surveys V0	RAMEN 1423-01H, Plan B, Permit Rev-1 V0
SAFI 1224-02H, Verdad PR Well, Actual SLB Surveys V0	RAMEN 1423-04H, Plan B, Permit Rev-1 V0	RAMEN 1423-06H, Plan B, Permit Rev-1 V0

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Reference Depths are relative to RKB = 24' @ 4995.00usft (RIG)

Offset Depths are relative to Offset Datum

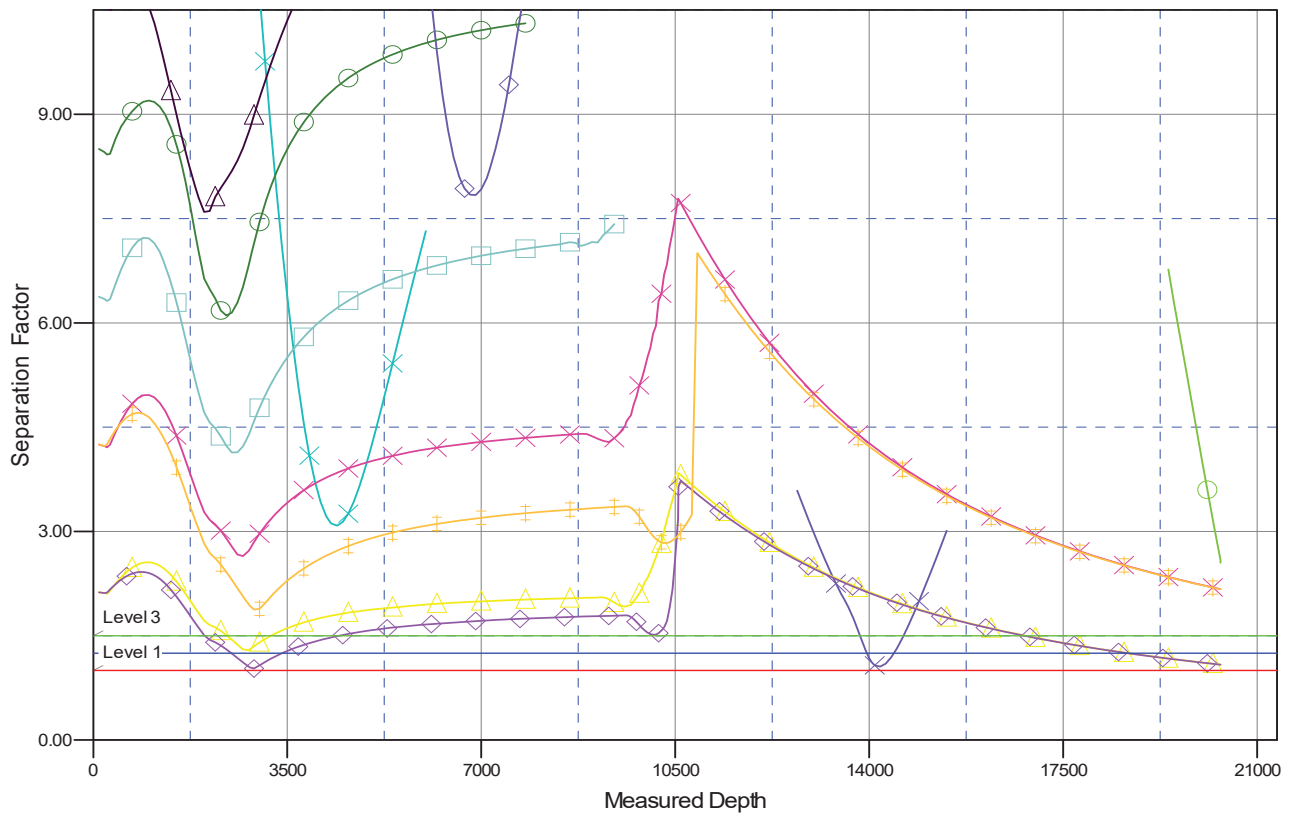
Central Meridian is -105.500000

Coordinates are relative to: RAMEN 1423-03H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.57°

Separation Factor Plot



LEGEND

SAFI 1224-04H, Verdad PR Well, Actual SLB Surveys V0	SAFI 1224-02H, Verdad PR Well, Actual SLB Surveys V0	RAMEN 1423-07H, Plan B, Permit Rev-1 V0
SAFI 1224-08H, Verdad PR Well, Actual SLB Surveys V0	WUERTZ 2-3, KPK PR Well, No Surveys V0	RAMEN 1423-02H, Plan B, Permit Rev-1 V0
SAFI 1224-14H, Verdad PR Well, Actual SLB Surveys V0	ROME 01N65W-26-8N, VERDAD PR Well, Actual Ensign Surveys V0	RAMEN 1423-05H, Plan B, Permit Rev-1 V0
SAFI 1224-06H, Verdad PR Well, Actual SLB Surveys V0	AMEN 5, VERDAD PR Well, Actual Ensign Surveys V0	RAMEN 1423-08H, Plan A, Permit Rev-1 V0
SAFI 1224-10H, Verdad PR Well, Actual SLB Surveys V0	STEINWAID #37, NOBLE P&A Well, No Surveys V0	RAMEN 1423-01H, Plan B, Permit Rev-1 V0
SAFI 1224-02H, Verdad PR Well, Actual SLB Surveys V0	RAMEN 1423-04H, Plan B, Permit Rev-1 V0	RAMEN 1423-06H, Plan B, Permit Rev-1 V0