

# **VERDAD RESOURCES**

**WATTENBERG FIELD  
2N-64W-32 KIWI 2920 PAD  
KIWI 2920-04H**

**Wellbore #1  
Design #2**

## **Anticollision Summary Report**

**15 December, 2022**

## Anticollision Summary Report

<b>Company:</b>	VERDAD RESOURCES	<b>Local Co-ordinate Reference:</b>	Well KIWI 2920-04H
<b>Project:</b>	WATTENBERG FIELD	<b>TVD Reference:</b>	RKB = 20' @ 4991.00usft (RIG)
<b>Reference Site:</b>	2N-64W-32 KIWI 2920 PAD	<b>MD Reference:</b>	RKB = 20' @ 4991.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	KIWI 2920-04H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Design #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Design #2		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum centre distance of 1,500.00usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.45 Sigma	<b>Casing Method:</b>	Added to Error Values

<b>Survey Tool Program</b>	<b>Date</b>	12/15/2022		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	2,486.00	Design #2 (Wellbore #1)	ISCWSA MWD	Fixed:v2:standard declination
2,486.00	17,362.19	Design #2 (Wellbore #1)	ISCWSA MWD	Fixed:v2:standard declination

<b>Summary</b>						
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
2N-64W-20 Offsets						
DALE 1 - Noble SI Well - Actual VES Surveys	13,407.26	6,984.55	1,330.67	1,129.73	6.622	CC, ES
DALE 1 - Noble SI Well - Actual VES Surveys	13,500.00	6,983.34	1,333.90	1,131.14	6.579	SF
Dale 4A-20H-O264 - CPR PR Well - Actual SDI Surveys	12,636.38	7,089.77	383.91	196.72	2.051	CC, ES
Dale 4A-20H-O264 - CPR PR Well - Actual SDI Surveys	17,300.00	11,746.00	658.25	267.48	1.685	SF
Dale 4B-20H-O264 - CPR PR Well - Actual SDI Surveys	12,614.74	7,134.28	590.42	404.02	3.168	CC, ES
Dale 4B-20H-O264 - CPR PR Well - Actual SDI Surveys	17,363.16	11,780.00	899.79	508.61	2.300	SF
Dale 4C-20H-O264 - CPR PR Well - Actual SDI Surveys	12,860.67	7,201.92	860.39	668.90	4.493	CC
Dale 4C-20H-O264 - CPR PR Well - Actual SDI Surveys	13,100.00	7,407.95	864.70	666.44	4.362	ES
Dale 4C-20H-O264 - CPR PR Well - Actual SDI Surveys	17,363.16	11,533.00	1,090.19	691.87	2.737	SF
Dale 4D-20H-O264 - CPR PR Well - Actual SDI Surveys	13,040.43	7,477.61	1,183.94	986.33	5.991	CC
Dale 4D-20H-O264 - CPR PR Well - Actual SDI Surveys	16,000.00	10,408.99	1,247.58	927.08	3.893	ES
Dale 4D-20H-O264 - CPR PR Well - Actual SDI Surveys	17,363.16	11,626.00	1,400.50	999.25	3.490	SF
Dale 4E-20H-O264 - CPR PR Well - Actual SDI Surveys	12,627.03	7,100.33	1,447.40	1,261.20	7.773	CC
Dale 4E-20H-O264 - CPR PR Well - Actual SDI Surveys	13,900.00	8,346.15	1,483.74	1,256.02	6.516	ES
Dale 4E-20H-O264 - CPR PR Well - Actual SDI Surveys	14,100.00	8,526.66	1,494.33	1,258.91	6.348	SF
Dale 4F-20H-O264 - CPR PR Well - Actual SDI Surveys						Out of range
Dale 4G-20H-O264 - CPR PR Well - Actual SDI Surveys						Out of range
Dale 4H-20H-O264 - CPR PR Well - Actual SDI Surveys						Out of range
Dale 4I-20H-O264 - CPR PR Well - Actual SDI Surveys						Out of range
Dale 4J-20H-O264 - CPR PR Well - Actual SDI Surveys						Out of range
Dale 4K-20H-O264 - CPR PR Well - Actual SDI Surveys						Out of range
DALE 'E' UNIT #1 - CPR P&A Well - No Surveys	14,029.87	6,934.00	1,402.30	957.99	3.156	CC, ES
DALE 'E' UNIT #1 - CPR P&A Well - No Surveys	14,100.00	6,934.00	1,404.05	958.41	3.151	SF
FOY #1 - Noble SI Well - Actual VES Surveys	16,881.61	6,941.27	1,143.89	862.42	4.064	CC, ES
FOY #1 - Noble SI Well - Actual VES Surveys	16,900.00	6,941.39	1,144.10	862.46	4.062	SF
FOY Y #20-6 - Noble SI Well - Actual VES Surveys	15,710.62	6,932.33	156.11	-98.77	0.612	Level 1, CC, ES, SF
KELLER #20-2 - Noble T/A Well - No Surveys						Out of range
RUHL 1 - Nebraska Drillers DA Well - No Surveys	15,750.82	6,921.00	209.09	-275.14	0.432	Level 1, CC, ES, SF
STARKE Y #20-03 - Noble P&A Well - Actual VES Surveys	17,108.82	6,915.51	63.73	-222.70	0.223	Level 1, CC, ES, SF

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<b>Company:</b>	VERDAD RESOURCES	<b>Local Co-ordinate Reference:</b>	Well KIWI 2920-04H
<b>Project:</b>	WATTENBERG FIELD	<b>TVD Reference:</b>	RKB = 20' @ 4991.00usft (RIG)
<b>Reference Site:</b>	2N-64W-32 KIWI 2920 PAD	<b>MD Reference:</b>	RKB = 20' @ 4991.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	KIWI 2920-04H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Design #2	<b>Offset TVD Reference:</b>	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						
2N-64W-29 Offsets						
BAUMGARTNER 14-29 - Noble P&A Well - Actual VES S	7,895.23	6,933.93	1,421.95	1,345.93	18.705	CC
BAUMGARTNER 14-29 - Noble P&A Well - Actual VES S	7,900.00	6,934.02	1,421.96	1,345.80	18.671	ES
BAUMGARTNER 14-29 - Noble P&A Well - Actual VES S	8,300.00	6,941.96	1,478.42	1,392.99	17.306	SF
BELL #41-29 - Noble T/A Well - No Surveys						Out of range
Bell USX #Y29-03 - Noble T/A Well - No Surveys	11,920.43	6,983.00	152.23	-244.14	0.384	Level 1, CC, ES, SF
JIM CREEK #1-29 - Noble P&A Well - No Surveys	8,503.61	6,967.00	792.83	473.08	2.480	CC, ES
JIM CREEK #1-29 - Noble P&A Well - No Surveys	8,600.00	6,967.00	798.67	476.05	2.476	SF
KAMINSKY #1-29 - Noble P&A Well - Actual VES Survey	10,860.41	6,997.37	1,076.60	935.12	7.609	CC
KAMINSKY #1-29 - Noble P&A Well - Actual VES Survey	10,900.00	6,997.31	1,077.33	934.19	7.526	ES
KAMINSKY #1-29 - Noble P&A Well - Actual VES Survey	11,000.00	6,997.15	1,085.62	939.04	7.407	SF
NGL C5 - NGL T/A IJ Well - No Surveys						Out of range
NGL C5A - NGL IJ Well - Actual Ensign Surveys						Out of range
NGL C5B - NGL IJ Well - Actual Total Surveys	11,256.15	7,428.41	559.85	372.71	2.992	CC
NGL C5B - NGL IJ Well - Actual Total Surveys	11,300.00	7,435.45	561.53	370.58	2.941	ES, SF
PARKER #29-34 - Noble SI Well - Actual Coretech Surve	8,167.05	6,971.62	998.11	912.30	11.632	CC, ES
PARKER #29-34 - Noble SI Well - Actual Coretech Surve	8,300.00	6,975.82	1,006.91	919.82	11.561	SF
2N-64W-32 KIWI 2920 PAD						
KIWI 2920-01H - Wellbore #1 - Design #2	200.00	200.00	48.00	40.43	6.342	CC, ES, SF
KIWI 2920-02H - Wellbore #1 - Design #2	200.00	200.00	32.00	24.43	4.228	CC, ES
KIWI 2920-02H - Wellbore #1 - Design #2	17,000.00	17,000.00	1,000.33	466.77	1.875	SF
KIWI 2920-03H - Wellbore #1 - Design #2	204.91	204.91	16.00	8.43	2.113	CC
KIWI 2920-03H - Wellbore #1 - Design #2	17,363.16	17,402.95	543.54	-20.17	0.964	Level 1, ES, SF
KIWI 2920-05H - Wellbore #1 - Design #2	261.10	261.10	16.00	8.38	2.101	CC, ES
KIWI 2920-05H - Wellbore #1 - Design #2	12,081.38	12,048.01	350.63	39.80	1.128	Level 2, SF
KIWI 2920-06H - Wellbore #1 - Design #2	261.10	261.10	32.00	24.38	4.202	CC, ES
KIWI 2920-06H - Wellbore #1 - Design #2	12,100.00	12,077.62	892.84	585.06	2.901	SF
KIWI 2920-07H - Wellbore #1 - Design #2	200.93	200.93	48.00	40.43	6.341	CC
KIWI 2920-07H - Wellbore #1 - Design #2	261.10	260.93	48.03	40.42	6.307	ES
KIWI 2920-07H - Wellbore #1 - Design #2	12,200.00	12,147.10	1,439.86	1,127.31	4.607	SF
KIWI 2920-08H - Wellbore #1 - Design #2	204.98	204.98	64.00	56.43	8.452	CC, ES
KIWI 2920-08H - Wellbore #1 - Design #2	261.10	260.64	64.12	56.50	8.419	SF
KIWI 2929-09H - Wellbore #1 - Design #2	200.00	200.00	80.00	72.43	10.570	CC, ES
KIWI 2929-09H - Wellbore #1 - Design #2	261.10	259.91	80.44	72.83	10.563	SF

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<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	KIWI 2920-04H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Design #2	<b>Offset TVD Reference:</b>	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						
2N-64W-32 Offsets						
NEWNAM 2-32 - CPR P&A Well - No Surveys	3,781.61	3,584.56	1,081.87	931.32	7.186	CC
NEWNAM 2-32 - CPR P&A Well - No Surveys	4,200.00	3,983.10	1,089.34	922.29	6.521	ES
NEWNAM 2-32 - CPR P&A Well - No Surveys	6,700.00	6,364.49	1,399.81	1,138.73	5.362	SF
Newnam 2A-32H-C264 - CPR PR Well - Actual SDI Surv						Out of range
Newnam 2B-32H-C264 - CPR PR Well - Actual SDI Surv						Out of range
Newnam 2C-32H-C264 - CPR PR Well - Actual SDI Surv						Out of range
Newnam 2D-32H-C264 - CPR PR Well - Actual SDI Surv	7,012.37	6,692.00	1,461.28	1,397.96	23.078	CC
Newnam 2D-32H-C264 - CPR PR Well - Actual SDI Surv	7,050.00	6,709.15	1,461.71	1,397.70	22.837	ES
Newnam 2D-32H-C264 - CPR PR Well - Actual SDI Surv	7,350.00	6,759.45	1,499.93	1,429.88	21.411	SF
Newnam 2E-32H-C264 - CPR PR Well - Actual SDI Surv	6,949.09	6,654.62	1,242.72	1,180.71	20.039	CC
Newnam 2E-32H-C264 - CPR PR Well - Actual SDI Surv	6,950.00	6,655.09	1,242.72	1,180.69	20.035	ES
Newnam 2E-32H-C264 - CPR PR Well - Actual SDI Surv	7,300.00	6,715.92	1,293.56	1,225.88	19.112	SF
Newnam 2F-32H-C264 - CPR PR Well - Actual SDI Surv	7,067.96	6,765.00	1,005.52	942.02	15.835	CC
Newnam 2F-32H-C264 - CPR PR Well - Actual SDI Surv	7,100.00	6,770.03	1,006.09	941.96	15.689	ES
Newnam 2F-32H-C264 - CPR PR Well - Actual SDI Surv	7,300.00	6,811.22	1,034.12	966.17	15.219	SF
Newnam 2G-32H-C264 - CPR PR Well - Actual SDI Surv	6,981.46	6,681.40	793.37	731.87	12.902	CC
Newnam 2G-32H-C264 - CPR PR Well - Actual SDI Surv	7,000.00	6,692.00	793.57	731.74	12.836	ES
Newnam 2G-32H-C264 - CPR PR Well - Actual SDI Surv	7,100.00	6,721.03	801.83	738.43	12.647	SF
Newnam 2H-32H-C264 - CPR PR Well - Actual SDI Surv	6,885.63	6,586.28	577.57	517.51	9.616	CC
Newnam 2H-32H-C264 - CPR PR Well - Actual SDI Surv	6,900.00	6,594.68	577.70	517.43	9.586	ES
Newnam 2H-32H-C264 - CPR PR Well - Actual SDI Surv	6,950.00	6,624.90	580.16	519.18	9.513	SF
Newnam 2I-32H-C264 - CPR PR Well - Actual SDI Surv	7,028.61	6,726.57	336.21	273.90	5.395	CC, ES
Newnam 2I-32H-C264 - CPR PR Well - Actual SDI Surv	7,050.00	6,737.82	336.73	273.97	5.365	SF
Newnam 2J-32H-C264 - CPR PR Well - Actual SDI Surv	6,926.67	6,650.24	122.88	58.45	1.907	CC, ES, SF
Newnam 2K-32H-C264 - CPR PR Well - Actual SDI Surv	6,807.07	6,574.30	116.18	55.74	1.922	CC, ES, SF
Newnam 2L-32H-C264 - SDI MWD Surveys - Actual SDI	6,944.67	6,705.80	325.13	262.60	5.199	CC
Newnam 2L-32H-C264 - SDI MWD Surveys - Actual SDI	6,950.00	6,710.56	325.14	262.57	5.196	ES, SF
RUHL 1 - CPR P&A Well - No Surveys						Out of range
Ruhl 1A-32H-B264 - CPR PR Well - Actual SDI Surveys	6,704.17	6,423.82	599.95	540.04	10.014	CC, ES
Ruhl 1A-32H-B264 - CPR PR Well - Actual SDI Surveys	6,800.00	6,513.76	601.35	540.94	9.954	SF
Ruhl 1B-32H-B264 - CPR PR Well - Actual SDI Surveys	6,688.89	6,429.38	816.91	757.80	13.820	CC
Ruhl 1B-32H-B264 - CPR PR Well - Actual SDI Surveys	6,700.00	6,438.18	816.93	757.76	13.805	ES
Ruhl 1B-32H-B264 - CPR PR Well - Actual SDI Surveys	6,800.00	6,526.44	819.32	759.71	13.743	SF
Ruhl 1C-32H-B264 - CPR PR Well - Actual SDI Surveys	6,258.81	5,987.98	1,040.45	985.32	18.874	CC
Ruhl 1C-32H-B264 - CPR PR Well - Actual SDI Surveys	6,300.00	6,025.88	1,040.55	985.02	18.738	ES
Ruhl 1C-32H-B264 - CPR PR Well - Actual SDI Surveys	7,150.00	6,765.09	1,076.70	1,013.53	17.043	SF
Ruhl 1D-32H-B264 - CPR PR Well - Actual SDI Surveys	6,240.19	5,993.73	1,266.43	1,211.23	22.942	CC
Ruhl 1D-32H-B264 - CPR PR Well - Actual SDI Surveys	6,300.00	6,044.87	1,266.70	1,210.93	22.714	ES
Ruhl 1D-32H-B264 - CPR PR Well - Actual SDI Surveys	7,150.00	6,742.02	1,315.50	1,252.41	20.851	SF
Ruhl 1E-32H-B264 - CPR PR Well - Actual SDI Surveys	5,891.47	5,668.44	1,479.96	1,427.78	28.364	CC
Ruhl 1E-32H-B264 - CPR PR Well - Actual SDI Surveys	6,200.00	5,972.35	1,481.46	1,426.32	26.867	ES
Ruhl 1E-32H-B264 - CPR PR Well - Actual SDI Surveys	6,700.00	6,494.26	1,498.94	1,439.26	25.115	SF
Ruhl 1F-32H-B264 - CPR PR Well - Actual SDI Surveys	3,258.76	2,905.33	1,412.18	1,385.80	53.534	CC
Ruhl 1F-32H-B264 - CPR PR Well - Actual SDI Surveys	3,300.00	2,938.21	1,412.33	1,385.63	52.887	ES
Ruhl 1F-32H-B264 - CPR PR Well - Actual SDI Surveys	4,800.00	4,365.38	1,491.71	1,450.85	36.508	SF
Ruhl 1G-32H-B264 - CPR SI Well - Actual Cathedral Sur						Out of range
Ruhl 1H-32H-B264 - CPR PR Well - Actual Cathedral Su						Out of range
Ruhl 1I-32H-B264 - CPR PR Well - Actual Cathedral Sur						Out of range
Ruhl 1J-32H-B264 - CPR PR Well - Actual Cathedral Su						Out of range
Ruhl 1K-32H-B264 - CPR PR Well - Actual Cathedral Su						Out of range
Ruhl 1L-32H-B264 - CPR PR Well - Actual Cathedral Su						Out of range

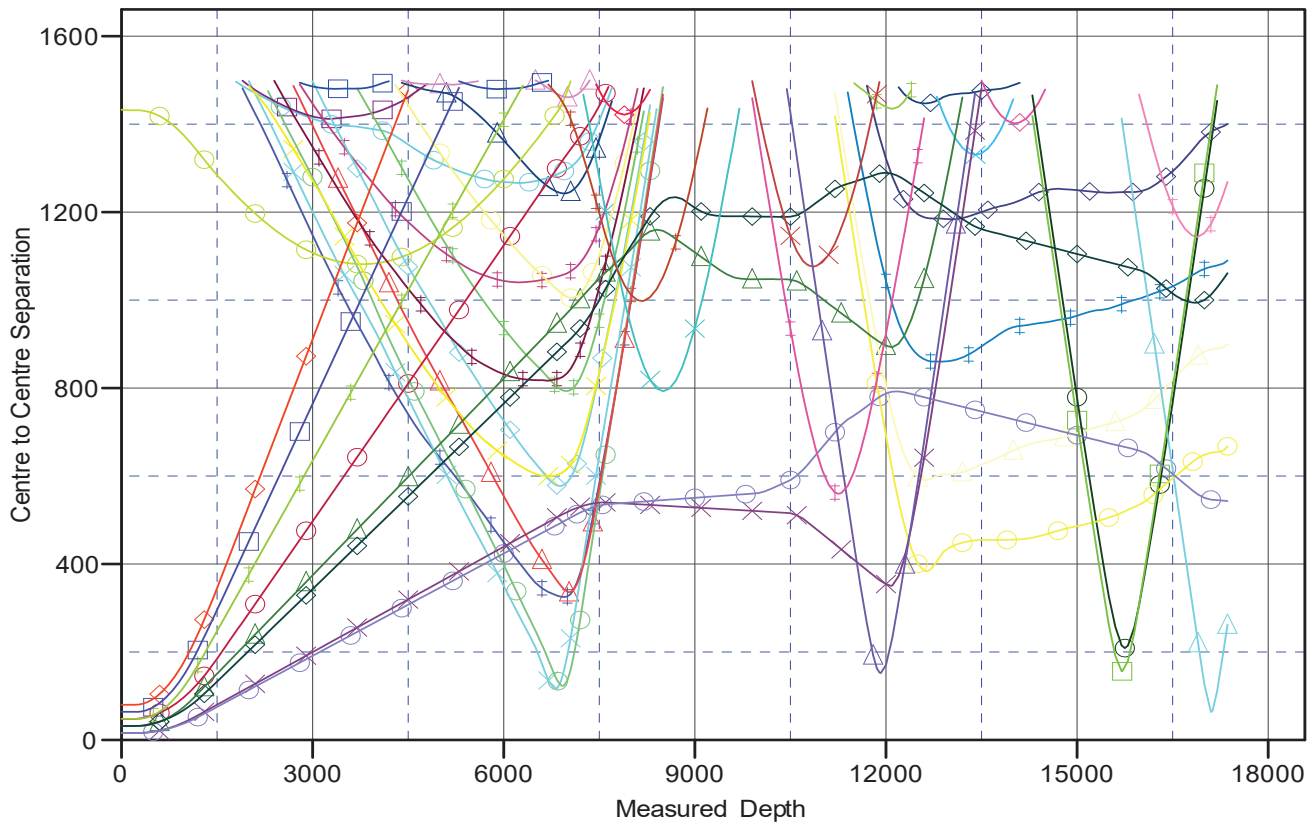
## Anticollision Summary Report

<b>Company:</b>	VERDAD RESOURCES	<b>Local Co-ordinate Reference:</b>	Well KIWI 2920-04H
<b>Project:</b>	WATTENBERG FIELD	<b>TVD Reference:</b>	RKB = 20' @ 4991.00usft (RIG)
<b>Reference Site:</b>	2N-64W-32 KIWI 2920 PAD	<b>MD Reference:</b>	RKB = 20' @ 4991.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	KIWI 2920-04H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Design #2	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB = 20' @ 4991.00usft (RIG)  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: KIWI 2920-04H  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.60°

### Ladder Plot



#### LEGEND

DALE 4E-20H-C264, CPR PR Well, Actual SDI Surveys V0	NEWMAM 2E-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
DALE 1, Noble SI Well, Actual VES Surveys V0	NEWMAM 2J-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
DALE 1E UNIT #1, CPR P&A Well, No Surveys V0	NEWMAM 2I-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
DALE 4B-20H-C264, CPR PR Well, Actual SDI Surveys V0	Ruhl 1F-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
RUHL 1, Nebraska Drillers DA Well, No Surveys V0	NEWMAM 2D-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
DALE 4C-20H-C264, CPR PR Well, Actual SDI Surveys V0	Ruhl 1C-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
DALE 4D-20H-C264, CPR PR Well, Actual SDI Surveys V0	NEWMAM 2F-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
FOY #1, Noble SI Well, Actual VES Surveys V0	NEWMAM 232, CPR P&A Well, No Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
STARKE Y420-03, Noble P&A Well, Actual VES Surveys V0	NEWMAM 2H-32H-C264, CPR PR Well, Actual SDI Surveys V0	BAUMGARTNER 14-29, Noble P&A Well, Actual VES Surveys V0
DALE 4A-20H-C264, CPR PR Well, Actual SDI Surveys V0	Ruhl 1A-32H-C264, CPR PR Well, Actual SDI Surveys V0	KAMINSKY #1-29, Noble P&A Well, Actual VES Surveys V0
FOY Y420-03, Noble SI Well, Actual VES Surveys V0	NEWMAM 2D-32H-C264, CPR PR Well, Actual SDI Surveys V0	JIM CREEK #1-29, Noble P&A Well, No Surveys V0
NEWMAM 2E-32H-C264, SDI MWDSurveys, Actual SDI Surveys V0	Ruhl 1B-32H-C264, CPR PR Well, Actual SDI Surveys V0	B&I USX #29-03, Noble T/A Well, No Surveys V0
Ruhl 1D-32H-C264, CPR PR Well, Actual SDI Surveys V0	Ruhl 1E-32H-C264, CPR PR Well, Actual SDI Surveys V0	PARKER #29-34, Noble SI Well, Actual Coretech Surveys V0
NEWMAM 2K-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0	NGL C26, NGL LJ Well, Actual Total Surveys V0

## Anticollision Summary Report

<b>Company:</b>	VERDAD RESOURCES	<b>Local Co-ordinate Reference:</b>	Well KIWI 2920-04H
<b>Project:</b>	WATTENBERG FIELD	<b>TVD Reference:</b>	RKB = 20' @ 4991.00usft (RIG)
<b>Reference Site:</b>	2N-64W-32 KIWI 2920 PAD	<b>MD Reference:</b>	RKB = 20' @ 4991.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	KIWI 2920-04H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Design #2	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB = 20' @ 4991.00usft (RIG)

Offset Depths are relative to Offset Datum

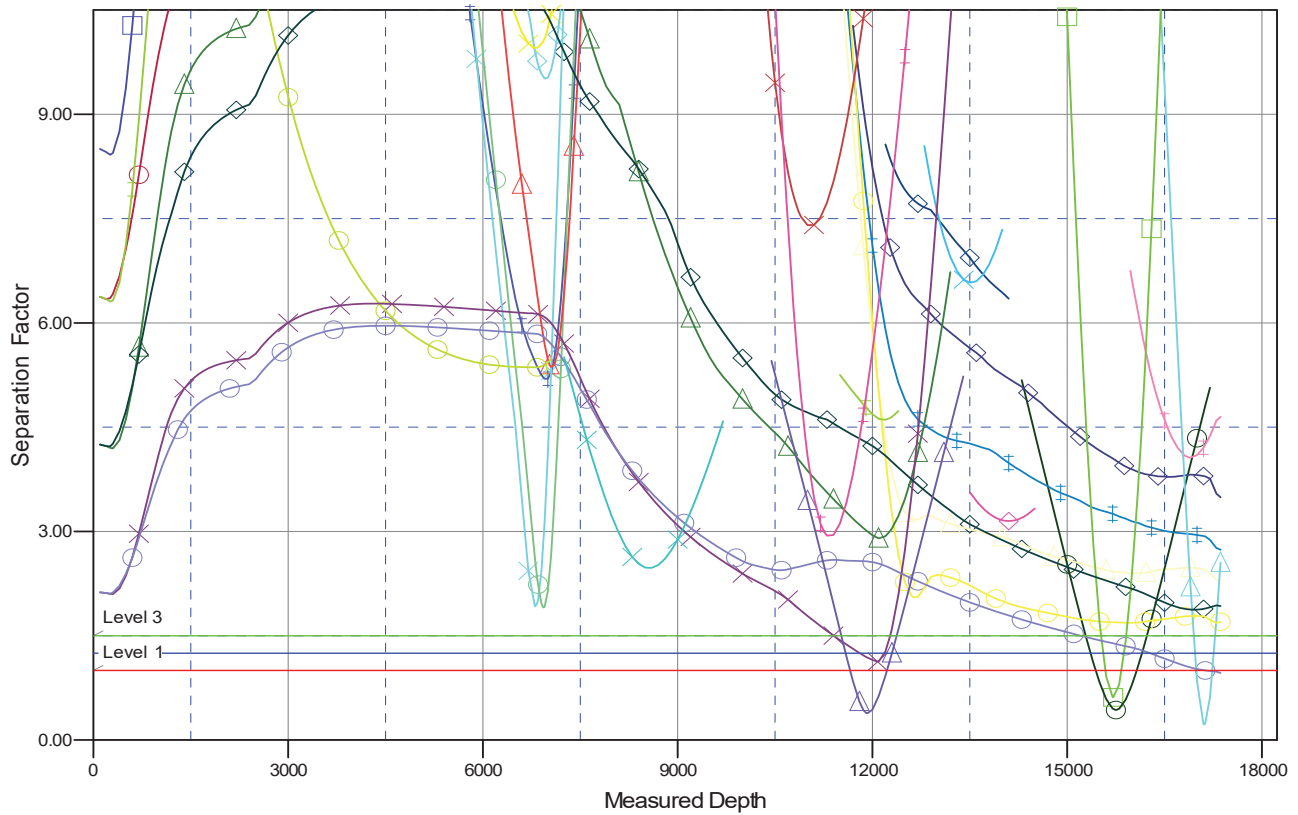
Central Meridian is -105.500000

Coordinates are relative to: KIWI 2920-04H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.60°

### Separation Factor Plot



#### LEGEND

Dale 4E-20H-C264, CPR PR Well, Actual SDI Surveys V0	Newnam 25-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
DALE 1E UNT #1, CPR P&A Well, Actual VES Surveys V0	Newnam 2J-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
DALE 1E UNT #1, CPR P&A Well, No Surveys V0	Newnam 2I-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
Dale 4B-20H-C264, CPR PR Well, Actual SDI Surveys V0	Ruhl 1F-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
RUHL 1, Nubraoka Drilling DA Well, No Surveys V0	Newnam 2D-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
Dale 4C-20H-C264, CPR PR Well, Actual SDI Surveys V0	Ruhl 1C-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
Dale 4D-20H-C264, CPR PR Well, Actual SDI Surveys V0	Newnam 2F-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0
FOY #1, Noble SI Well, Actual VES Surveys V0	NEWNAM 232, CPR P&A Well, No Surveys V0	BAUMGARTNER 14-29, Noble P&A Well, Actual VES Surveys V0
STARKE Y #20-03, Noble P&A Well, Actual VES Surveys V0	Newnam 2H-32H-C264, CPR PR Well, Actual SDI Surveys V0	KAMINSKY #1-29, Noble P&A Well, Actual VES Surveys V0
Dale 4A-20H-C264, CPR PR Well, Actual SDI Surveys V0	Ruhl 1A-32H-C264, CPR PR Well, Actual SDI Surveys V0	JIM CREEK #1-29, Noble P&A Well, No Surveys V0
FOY Y #206, Noble SI Well, Actual VES Surveys V0	Newnam 2D-32H-C264, CPR PR Well, Actual SDI Surveys V0	Bell USX #29-03, Noble T/A Well, No Surveys V0
Newnam 2L-32H-C264, SDI MWI Surveys, Actual SDI Surveys V0	Ruhl 1B-32H-C264, CPR PR Well, Actual SDI Surveys V0	PARKER #2B-34, Noble SI Well, Actual Coretech Surveys V0
Ruhl 1D-32H-C264, CPR PR Well, Actual SDI Surveys V0	Ruhl 1E-32H-C264, CPR PR Well, Actual SDI Surveys V0	NGL C5B, NGL U Well, Actual Total Surveys V0
Newnam 2K-32H-C264, CPR PR Well, Actual SDI Surveys V0	KIWI 2920-04H, Wellbore #1, Design #2 V0	