

Project: Garfield County, CO
Site: Sec 8, T6S, R94W
Well: RWF 321-8
Wellbore: Wellbore #1
Design: Plan #2
Latitude: 39.539288
Longitude: -107.903797
Ground Level: 5979.60
KB=24' @ 6003.60usft (H&P #318)

PROJECT DETAILS: Garfield County, CO

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone
System Datum: Mean Sea Level

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well RWF 321-8, True North
Vertical (TVD) Reference: KB=24' @ 6003.60usft (H&P #318)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: KB=24' @ 6003.60usft (H&P #318)
Calculation Method: Minimum Curvature

WELL DETAILS: RWF 321-8

	0.00	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
		0.00		1630282.72	2322143.66	39.539288	-107.903797

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

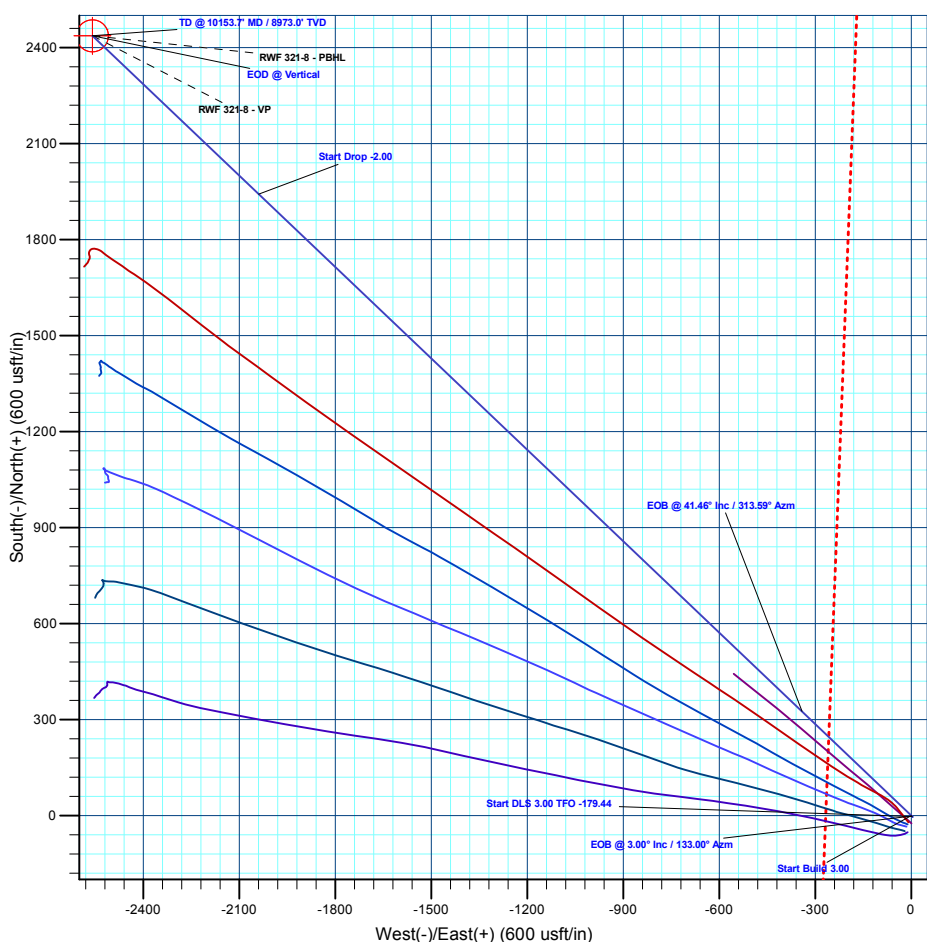
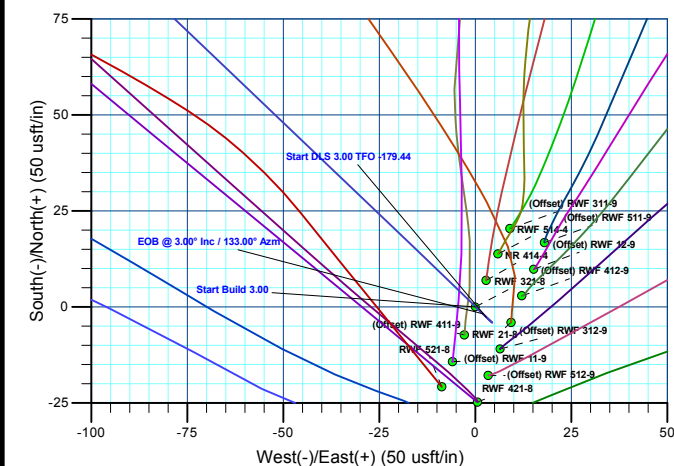
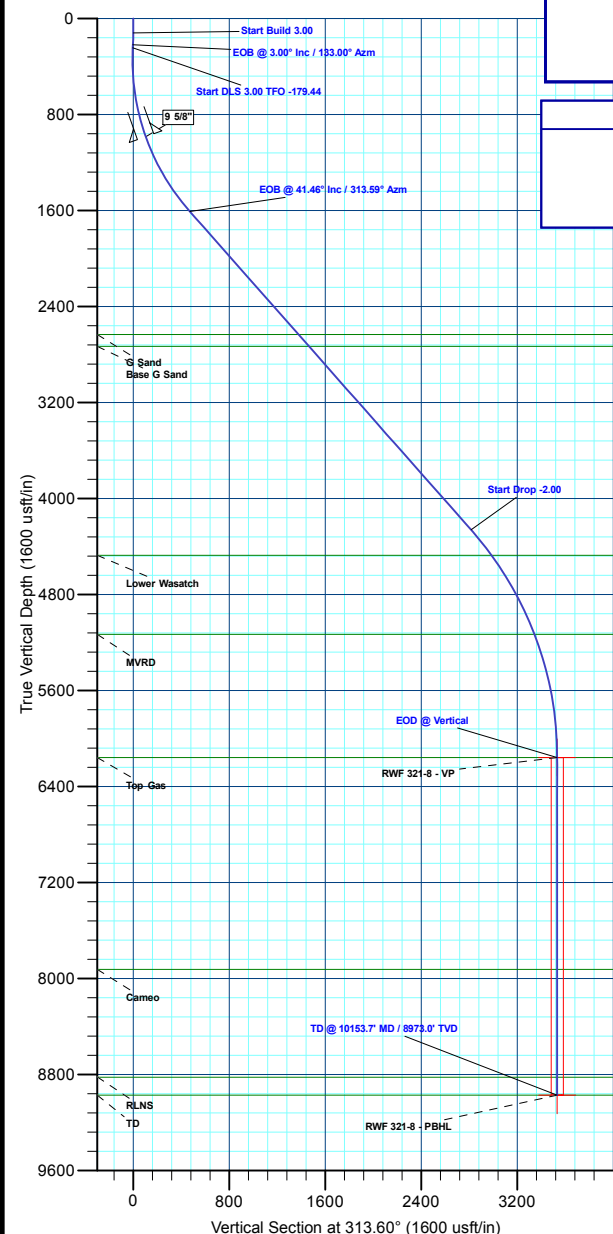
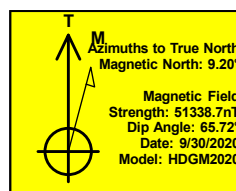
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RWF 321-8 - VP	6159.00	2436.57	-2558.87	1632786.14	2319650.15	39.545977	-107.912871	Point
RWF 321-8 - PBHL	8973.00	2436.57	-2558.87	1632786.14	2319650.15	39.545977	-107.912871	Circle (Radius: 50.00)

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 3.00
220.00	3.00	133.00	219.95	-1.79	1.91	-2.62	2.62	EOB @ 3.00° Inc / 133.00° Azm
245.00	3.00	133.00	244.92	-2.68	2.87	-3.93	3.93	Start DLS 3.00 TFO -179.44
1726.88	41.46	313.59	1609.30	325.75	-341.52	471.96	486.34	EOB @ 41.46° Inc / 313.59° Azm
5266.86	41.46	313.59	4262.36	1941.68	-2039.01	2815.61	2830.00	Start Drop -2.00
7339.69	0.00	0.00	6159.00	2436.57	-2558.87	3533.37	3547.75	EOD @ Vertical
10153.69	0.00	0.00	8973.00	2436.57	-2558.87	3533.37	3547.75	TD @ 10153.7' MD / 8973.0' TVD

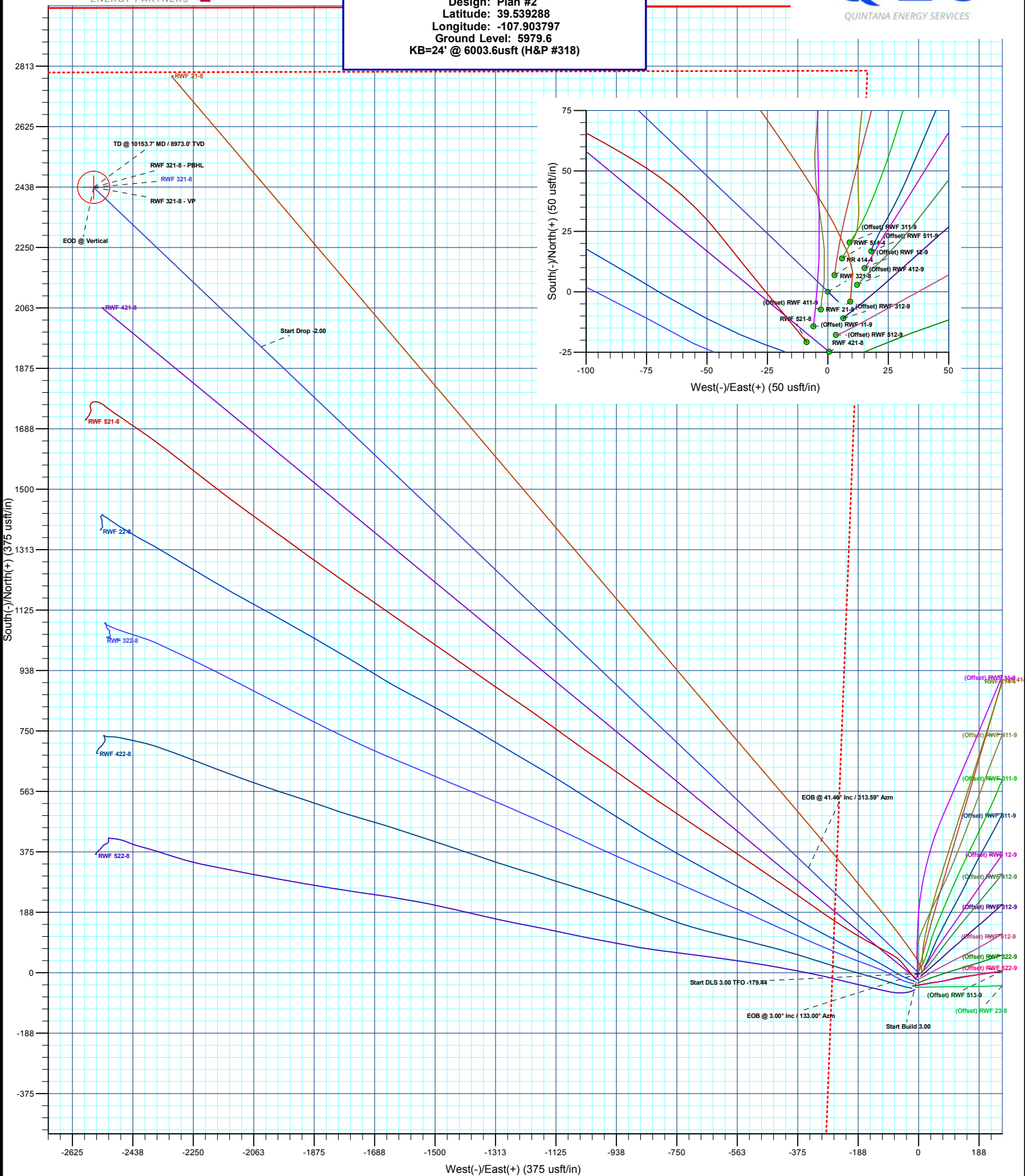
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2634.00	3094.14	G Sand
2734.00	3227.57	Base G Sand
4474.00	5538.31	Lower Wasatch
5134.00	6291.46	MVRD
6159.00	7339.69	Top Gas
7926.00	9106.69	Cameo
8823.00	10003.69	RLNS
8973.00	10153.69	TD



Plan: Plan #2 (RWF 321-8/Wellbore #1)

Created By: Chase Chambers Date: 10:29, November 10 2020





Terra Energy Partners, LLP

Garfield County, CO

Sec 8, T6S, R94W

RWF 321-8

Wellbore #1

Plan: Plan #2

QES Well Planning Report

10 November, 2020



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RWF 321-8
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=24' @ 6003.60usft (H&P #318)
Project:	Garfield County, CO	MD Reference:	KB=24' @ 6003.60usft (H&P #318)
Site:	Sec 8, T6S, R94W	North Reference:	True
Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Project	Garfield County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Sec 8, T6S, R94W			
Site Position:		Northing:	1,630,278.47 usft	Latitude:	39.539277
From:	Lat/Long	Easting:	2,322,152.86 usft	Longitude:	-107.903764
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.52 °

Well	RWF 321-8					
Well Position	+N/-S	4.00 usft	Northing:	1,630,282.72 usft	Latitude:	39.539288
	+E/-W	-9.31 usft	Easting:	2,322,143.66 usft	Longitude:	-107.903797
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,979.60 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	9/30/2020	9.20	65.72	51,338.70000000

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	313.60

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
220.00	3.00	133.00	219.95	-1.79	1.91	3.00	3.00	0.00	133.00	
245.00	3.00	133.00	244.92	-2.68	2.87	0.00	0.00	0.00	0.00	
1,726.88	41.46	313.59	1,609.30	325.75	-341.52	3.00	2.60	-12.11	-179.44	
5,266.86	41.46	313.59	4,262.36	1,941.68	-2,039.01	0.00	0.00	0.00	0.00	
7,339.69	0.00	0.00	6,159.00	2,436.57	-2,558.87	2.00	-2.00	0.00	180.00	RWF 321-8 - VP
10,153.69	0.00	0.00	8,973.00	2,436.57	-2,558.87	0.00	0.00	0.00	0.00	RWF 321-8 - PBHL

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Company:	Terra Energy Partners, LLP	TVD Reference:	KB=24' @ 6003.60usft (H&P #318)
Project:	Garfield County, CO	MD Reference:	KB=24' @ 6003.60usft (H&P #318)
Site:	Sec 8, T6S, R94W	North Reference:	True
Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	2.40	133.00	199.98	-1.14	1.23	-1.68	3.00	3.00	0.00
EOB @ 3.00° Inc / 133.00° Azm									
220.00	3.00	133.00	219.95	-1.79	1.91	-2.62	3.00	3.00	0.00
Start DLS 3.00 TFO -179.44									
245.00	3.00	133.00	244.92	-2.68	2.87	-3.93	0.00	0.00	0.00
300.00	1.35	132.32	299.88	-4.10	4.40	-6.01	3.00	-3.00	-1.24
400.00	1.65	314.57	399.87	-3.88	4.25	-5.75	3.00	0.30	-177.75
500.00	4.65	313.92	499.70	-0.05	0.30	-0.26	3.00	3.00	-0.65
600.00	7.65	313.77	599.12	7.36	-7.43	10.46	3.00	3.00	-0.14
700.00	10.65	313.71	697.83	18.36	-18.91	26.36	3.00	3.00	-0.06
800.00	13.65	313.68	795.58	32.89	-34.13	47.40	3.00	3.00	-0.04
900.00	16.65	313.65	892.10	50.94	-53.04	73.53	3.00	3.00	-0.02
9 5/8"									
1,000.00	19.65	313.64	987.11	72.43	-75.57	104.68	3.00	3.00	-0.02
1,100.00	22.65	313.63	1,080.36	97.33	-101.69	140.76	3.00	3.00	-0.01
1,200.00	25.65	313.62	1,171.60	125.55	-131.30	181.67	3.00	3.00	-0.01
1,300.00	28.65	313.61	1,260.57	157.03	-164.33	227.29	3.00	3.00	-0.01
1,400.00	31.65	313.60	1,347.03	191.66	-200.70	277.51	3.00	3.00	-0.01
1,500.00	34.65	313.60	1,430.75	229.37	-240.29	332.19	3.00	3.00	-0.01
1,600.00	37.65	313.59	1,511.48	270.04	-283.01	391.18	3.00	3.00	0.00
1,700.00	40.65	313.59	1,589.03	313.57	-328.73	454.30	3.00	3.00	0.00
EOB @ 41.46° Inc / 313.59° Azm									
1,726.88	41.46	313.59	1,609.30	325.75	-341.52	471.96	3.00	3.00	0.00
1,800.00	41.46	313.59	1,664.10	359.12	-376.58	520.37	0.00	0.00	0.00
1,900.00	41.46	313.59	1,739.04	404.77	-424.53	586.57	0.00	0.00	0.00
2,000.00	41.46	313.59	1,813.99	450.42	-472.48	652.78	0.00	0.00	0.00
2,100.00	41.46	313.59	1,888.93	496.07	-520.43	718.98	0.00	0.00	0.00
2,200.00	41.46	313.59	1,963.88	541.72	-568.39	785.19	0.00	0.00	0.00
2,300.00	41.46	313.59	2,038.82	587.36	-616.34	851.39	0.00	0.00	0.00
2,400.00	41.46	313.59	2,113.77	633.01	-664.29	917.60	0.00	0.00	0.00
2,500.00	41.46	313.59	2,188.72	678.66	-712.24	983.80	0.00	0.00	0.00
2,600.00	41.46	313.59	2,263.66	724.31	-760.19	1,050.01	0.00	0.00	0.00
2,700.00	41.46	313.59	2,338.61	769.96	-808.15	1,116.21	0.00	0.00	0.00
2,800.00	41.46	313.59	2,413.55	815.61	-856.10	1,182.42	0.00	0.00	0.00
2,900.00	41.46	313.59	2,488.50	861.25	-904.05	1,248.63	0.00	0.00	0.00
3,000.00	41.46	313.59	2,563.44	906.90	-952.00	1,314.83	0.00	0.00	0.00
G Sand									
3,094.14	41.46	313.59	2,634.00	949.88	-997.15	1,377.16	0.00	0.00	0.00
3,100.00	41.46	313.59	2,638.39	952.55	-999.95	1,381.04	0.00	0.00	0.00
3,200.00	41.46	313.59	2,713.33	998.20	-1,047.91	1,447.24	0.00	0.00	0.00
Base G Sand									
3,227.57	41.46	313.59	2,734.00	1,010.79	-1,061.13	1,465.50	0.00	0.00	0.00
3,300.00	41.46	313.59	2,788.28	1,043.85	-1,095.86	1,513.45	0.00	0.00	0.00
3,400.00	41.46	313.59	2,863.23	1,089.49	-1,143.81	1,579.65	0.00	0.00	0.00
3,500.00	41.46	313.59	2,938.17	1,135.14	-1,191.76	1,645.86	0.00	0.00	0.00
3,600.00	41.46	313.59	3,013.12	1,180.79	-1,239.71	1,712.06	0.00	0.00	0.00
3,700.00	41.46	313.59	3,088.06	1,226.44	-1,287.67	1,778.27	0.00	0.00	0.00
3,800.00	41.46	313.59	3,163.01	1,272.09	-1,335.62	1,844.47	0.00	0.00	0.00
3,900.00	41.46	313.59	3,237.95	1,317.74	-1,383.57	1,910.68	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RWF 321-8
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=24' @ 6003.60usft (H&P #318)
Project:	Garfield County, CO	MD Reference:	KB=24' @ 6003.60usft (H&P #318)
Site:	Sec 8, T6S, R94W	North Reference:	True
Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,000.00	41.46	313.59	3,312.90	1,363.38	-1,431.52	1,976.88	0.00	0.00	0.00
4,100.00	41.46	313.59	3,387.85	1,409.03	-1,479.47	2,043.09	0.00	0.00	0.00
4,200.00	41.46	313.59	3,462.79	1,454.68	-1,527.43	2,109.30	0.00	0.00	0.00
4,300.00	41.46	313.59	3,537.74	1,500.33	-1,575.38	2,175.50	0.00	0.00	0.00
4,400.00	41.46	313.59	3,612.68	1,545.98	-1,623.33	2,241.71	0.00	0.00	0.00
4,500.00	41.46	313.59	3,687.63	1,591.63	-1,671.28	2,307.91	0.00	0.00	0.00
4,600.00	41.46	313.59	3,762.57	1,637.27	-1,719.23	2,374.12	0.00	0.00	0.00
4,700.00	41.46	313.59	3,837.52	1,682.92	-1,767.19	2,440.32	0.00	0.00	0.00
4,800.00	41.46	313.59	3,912.47	1,728.57	-1,815.14	2,506.53	0.00	0.00	0.00
4,900.00	41.46	313.59	3,987.41	1,774.22	-1,863.09	2,572.73	0.00	0.00	0.00
5,000.00	41.46	313.59	4,062.36	1,819.87	-1,911.04	2,638.94	0.00	0.00	0.00
5,100.00	41.46	313.59	4,137.30	1,865.51	-1,958.99	2,705.14	0.00	0.00	0.00
5,200.00	41.46	313.59	4,212.25	1,911.16	-2,006.95	2,771.35	0.00	0.00	0.00
Start Drop -2.00									
5,266.86	41.46	313.59	4,262.36	1,941.68	-2,039.01	2,815.61	0.00	0.00	0.00
5,300.00	40.79	313.59	4,287.32	1,956.71	-2,054.79	2,837.41	2.00	-2.00	0.00
5,400.00	38.79	313.59	4,364.15	2,000.84	-2,101.15	2,901.41	2.00	-2.00	0.00
5,500.00	36.79	313.59	4,443.17	2,043.09	-2,145.53	2,962.69	2.00	-2.00	0.00
Lower Wasatch									
5,538.31	36.03	313.59	4,474.00	2,058.77	-2,162.00	2,985.43	2.00	-2.00	0.00
5,600.00	34.79	313.59	4,524.28	2,083.41	-2,187.89	3,021.17	2.00	-2.00	0.00
5,700.00	32.79	313.59	4,607.38	2,121.76	-2,228.17	3,076.79	2.00	-2.00	0.00
5,800.00	30.79	313.59	4,692.37	2,158.09	-2,266.33	3,129.47	2.00	-2.00	0.00
5,900.00	28.79	313.59	4,779.15	2,192.35	-2,302.32	3,179.16	2.00	-2.00	0.00
6,000.00	26.79	313.59	4,867.60	2,224.49	-2,336.09	3,225.79	2.00	-2.00	0.00
6,100.00	24.79	313.59	4,957.64	2,254.50	-2,367.61	3,269.30	2.00	-2.00	0.00
6,200.00	22.79	313.59	5,049.13	2,282.31	-2,396.83	3,309.64	2.00	-2.00	0.00
MVRD									
6,291.46	20.96	313.59	5,134.00	2,305.81	-2,421.51	3,343.72	2.00	-2.00	0.00
6,300.00	20.79	313.59	5,141.98	2,307.91	-2,423.71	3,346.77	2.00	-2.00	0.00
6,400.00	18.79	313.59	5,236.07	2,331.26	-2,448.24	3,380.63	2.00	-2.00	0.00
6,500.00	16.79	313.59	5,331.28	2,352.33	-2,470.37	3,411.19	2.00	-2.00	0.00
6,600.00	14.79	313.59	5,427.50	2,371.09	-2,490.09	3,438.40	2.00	-2.00	0.00
6,700.00	12.79	313.59	5,524.61	2,387.53	-2,507.35	3,462.24	2.00	-2.00	0.00
6,800.00	10.79	313.59	5,622.49	2,401.62	-2,522.16	3,482.68	2.00	-2.00	0.00
6,900.00	8.79	313.59	5,721.03	2,413.35	-2,534.48	3,499.69	2.00	-2.00	0.00
7,000.00	6.79	313.59	5,820.10	2,422.70	-2,544.30	3,513.25	2.00	-2.00	0.00
7,100.00	4.79	313.59	5,919.59	2,429.66	-2,551.61	3,523.35	2.00	-2.00	0.00
7,200.00	2.79	313.59	6,019.36	2,434.22	-2,556.40	3,529.96	2.00	-2.00	0.00
7,300.00	0.79	313.59	6,119.31	2,436.38	-2,558.67	3,533.09	2.00	-2.00	0.00
EOD @ Vertical - Top Gas									
7,339.69	0.00	0.00	6,159.00	2,436.57	-2,558.87	3,533.37	2.00	-2.00	0.00
7,400.00	0.00	0.00	6,219.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
7,500.00	0.00	0.00	6,319.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
7,600.00	0.00	0.00	6,419.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
7,700.00	0.00	0.00	6,519.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
7,800.00	0.00	0.00	6,619.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
7,900.00	0.00	0.00	6,719.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
8,000.00	0.00	0.00	6,819.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
8,100.00	0.00	0.00	6,919.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
8,200.00	0.00	0.00	7,019.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
8,300.00	0.00	0.00	7,119.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
8,400.00	0.00	0.00	7,219.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00

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Project:	Garfield County, CO	MD Reference:	KB=24' @ 6003.60usft (H&P #318)
Site:	Sec 8, T6S, R94W	North Reference:	True
Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.00	0.00	0.00	7,319.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
8,600.00	0.00	0.00	7,419.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
8,700.00	0.00	0.00	7,519.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
8,800.00	0.00	0.00	7,619.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
8,900.00	0.00	0.00	7,719.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
9,000.00	0.00	0.00	7,819.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
9,100.00	0.00	0.00	7,919.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
Cameo									
9,106.69	0.00	0.00	7,926.00	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
9,200.00	0.00	0.00	8,019.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
9,300.00	0.00	0.00	8,119.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
9,400.00	0.00	0.00	8,219.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
9,500.00	0.00	0.00	8,319.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
9,600.00	0.00	0.00	8,419.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
9,700.00	0.00	0.00	8,519.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
9,800.00	0.00	0.00	8,619.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
9,900.00	0.00	0.00	8,719.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
10,000.00	0.00	0.00	8,819.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
RLNS									
10,003.69	0.00	0.00	8,823.00	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
10,100.00	0.00	0.00	8,919.31	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00
TD @ 10153.7' MD / 8973.0' TVD - TD									
10,153.69	0.00	0.00	8,973.00	2,436.57	-2,558.87	3,533.37	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RWF 321-8 - VP - plan hits target center - Point	0.00	0.00	6,159.00	2,436.57	-2,558.87	1,632,786.13	2,319,650.16	39.545977	-107.912871
RWF 321-8 - PBHL - plan hits target center - Circle (radius 50.00)	0.00	0.00	8,973.00	2,436.57	-2,558.87	1,632,786.13	2,319,650.16	39.545977	-107.912871

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,000.00	987.11	9 5/8"		9-5/8	12-1/4

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RWF 321-8
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=24' @ 6003.60usft (H&P #318)
Project:	Garfield County, CO	MD Reference:	KB=24' @ 6003.60usft (H&P #318)
Site:	Sec 8, T6S, R94W	North Reference:	True
Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,094.14	2,634.00	G Sand				
3,227.57	2,734.00	Base G Sand				
5,538.31	4,474.00	Lower Wasatch				
6,291.46	5,134.00	MVRD				
7,339.69	6,159.00	Top Gas				
9,106.69	7,926.00	Cameo				
10,003.69	8,823.00	RLNS				
10,153.69	8,973.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.00	0.00	Start Build 3.00	
220.00	219.95	-1.79	1.91	EOB @ 3.00° Inc / 133.00° Azm	
245.00	244.92	-2.68	2.87	Start DLS 3.00 TFO -179.44	
1,726.88	1,609.30	325.75	-341.52	EOB @ 41.46° Inc / 313.59° Azm	
5,266.86	4,262.36	1,941.68	-2,039.01	Start Drop -2.00	
7,339.69	6,159.00	2,436.57	-2,558.87	EOD @ Vertical	
10,153.69	8,973.00	2,436.57	-2,558.87	TD @ 10153.7' MD / 8973.0' TVD	



Terra Energy Partners, LLP

Garfield County, CO

Sec 8, T6S, R94W

RWF 321-8

Wellbore #1

Plan #2

QES Anticollision Report

09 November, 2020



Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum separation factor of 6.00	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	11/9/2020	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	10,153.7	Plan #2 (Wellbore #1)	OWSG (REV5) MWD HDGM	OWSG MWD - Standard

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						
Sec 8, T6S, R94W						
(Offset) RWF 11-9 - Wellbore #1 - Wellbore #1	294.6	295.4	8.5	5.9	3.322	CC, ES, SF
(Offset) RWF 12-9 - Wellbore #1 - Wellbore #1						Out of range
(Offset) RWF 23-9 - Wellbore #1 - Wellbore #1						Out of range
(Offset) RWF 311-9 - Wellbore #1 - Wellbore #1						Out of range
(Offset) RWF 312-9 - Wellbore #1 - Wellbore #1	228.4	228.6	10.6	8.4	4.665	CC, ES, SF
(Offset) RWF 322-9 - Wellbore #1 - Wellbore #1	320.3	321.3	23.1	18.6	5.207	CC, ES
(Offset) RWF 322-9 - Wellbore #1 - Wellbore #1	400.0	399.7	28.1	22.0	4.596	SF
(Offset) RWF 411-9 - Wellbore #1 - Wellbore #1	200.0	200.5	3.5	1.5	1.751	Collision Risk Procedures R
(Offset) RWF 412-9 - Wellbore #1 - Wellbore #1						Out of range
(Offset) RWF 511-9 - Wellbore #1 - Wellbore #1						Out of range
(Offset) RWF 512-9 - Wellbore #1 - Wellbore #1	252.4	252.6	15.1	12.5	5.880	CC, ES
(Offset) RWF 512-9 - Wellbore #1 - Wellbore #1	300.0	299.8	15.5	12.6	5.369	SF
(Offset) RWF 513-9 - Wellbore #1 - Wellbore #1						Out of range
(Offset) RWF 522-9 - Wellbore #1 - Wellbore #1						Out of range
NR 414-4 - Wellbore #1 - Plan #3	200.0	199.4	10.4	7.5	3.530	CC, ES, SF
RWF 21-8 - Wellbore #1 - Plan #2	241.9	241.8	7.5	5.1	3.056	CC, ES
RWF 21-8 - Wellbore #1 - Plan #2	500.0	499.1	17.7	10.2	2.351	SF
RWF 22-8 - Wellbore #1 - Wellbore #1	500.0	494.7	50.7	42.1	5.891	CC, ES, SF
RWF 322-8 - Wellbore #1 - Wellbore #1						Out of range
RWF 421-8 - Wellbore #1 - Plan #2	456.2	456.6	18.7	12.6	3.037	CC
RWF 421-8 - Wellbore #1 - Plan #2	500.0	500.4	18.9	11.9	2.707	ES
RWF 421-8 - Wellbore #1 - Plan #2	3,300.0	3,280.9	128.1	65.5	2.044	SF
RWF 422-8 - Wellbore #1 - Wellbore #1						Out of range
RWF 514-4 - Wellbore #1 - Plan #2	400.0	398.3	28.7	23.7	5.750	CC, ES
RWF 514-4 - Wellbore #1 - Plan #2	500.0	496.2	35.5	27.6	4.502	SF
RWF 521-8 - Wellbore #1 - Wellbore #1	206.5	206.7	20.2	16.3	5.214	CC, ES
RWF 521-8 - Wellbore #1 - Wellbore #1	400.0	397.8	31.5	23.4	3.878	SF
RWF 522-8 - Wellbore #1 - Wellbore #1						Out of range

Offset Design	Sec 8, T6S, R94W - (Offset) RWF 11-9 - Wellbore #1 - Wellbore #1										Offset Site Error:	0.0 usft
Survey Program:	68-GYRO-NS, 427-OWSG (REV5) MWD HDGM Standard										Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 8, T6S, R94W - (Offset) RWF 11-9 - Wellbore #1 - Wellbore #1											Offset Site Error:	0.0 usft
Survey Program: 68-GYRO-NS, 427-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
294.6	294.5	295.4	295.1	1.8	1.1	133.22	-3.9	-4.9	8.5	5.9	3.322	CC, ES, SF
300.0	299.9	300.7	300.3	1.8	1.1	141.99	-3.4	-4.9	9.3	6.6	3.463	
400.0	399.9	399.4	398.3	3.2	1.6	13.78	9.2	-3.8	15.5	11.7	4.071	
500.0	499.7	497.2	494.4	4.7	3.2	37.74	27.1	-3.4	28.1	21.1	4.052	
600.0	599.1	594.1	588.7	4.9	4.4	49.79	49.3	-3.9	43.5	34.3	4.715	
700.0	697.8	690.1	681.1	6.1	5.3	58.53	75.2	-4.2	61.2	50.8	5.867	

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 8, T6S, R94W - (Offset) RWF 312-9 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 68-GYRO-NS, 704-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
200.0	200.0	200.3	200.2	1.5	0.6	-3.88	-8.1	9.8	11.0	9.0	5.296		
228.4	228.4	228.6	228.4	1.6	0.8	-15.61	-6.8	11.5	10.6	8.4	4.665	CC, ES, SF	
300.0	299.9	299.6	299.0	1.8	1.2	-50.38	-2.3	17.1	12.9	10.4	5.234		
400.0	399.9	398.0	396.5	3.2	1.7	110.63	6.6	27.2	25.5	21.1	5.775		

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 8, T6S, R94W - (Offset) RWF 322-9 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 78-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
300.0	299.9	301.2	300.4	1.8	4.7	27.50	-26.0	12.5	23.3	19.1	5.504		
320.3	320.2	321.3	320.3	1.8	5.0	21.62	-24.9	15.2	23.1	18.6	5.207	CC, ES	
400.0	399.9	399.7	397.6	3.2	5.7	170.64	-20.0	27.1	28.1	22.0	4.596	SF	
500.0	499.7	496.4	492.7	4.7	6.1	153.29	-13.8	43.5	45.9	37.3	5.332		

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 8, T6S, R94W - (Offset) RWF 411-9 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 99-GYRO-NS, 698-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
184.8	184.8	185.4	185.3	1.3	0.5	126.27	-1.7	-2.3	3.5	1.9	2.164		
200.0	200.0	200.5	200.4	1.5	0.6	148.32	-0.5	-2.2	3.5	1.5	1.751	Collision Risk Procedures Req., CC, ES	
300.0	299.9	299.1	298.3	1.8	1.2	-153.00	10.4	-1.1	15.6	13.0	5.933		

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 8, T6S, R94W - (Offset) RWF 512-9 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 70-GYRO-NS, 699-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
252.4	252.3	252.6	252.2	1.6	1.0	2.62	-13.2	13.3	15.1	12.5	5.880	CC, ES	
300.0	299.9	299.8	299.0	1.8	1.3	-18.47	-10.3	18.5	15.5	12.6	5.369	SF	

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 8, T6S, R94W - NR 414-4 - Wellbore #1 - Plan #3												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
200.0	200.0	199.4	199.4	1.5	1.8	-122.34	9.1	3.1	10.4	7.5	3.530	CC, ES, SF	
300.0	299.9	297.7	297.2	1.8	2.9	-132.09	17.8	4.4	22.1	17.6	5.008		
400.0	399.9	394.5	392.8	3.2	4.5	50.32	32.6	7.5	37.3	30.0	5.120		
500.0	499.7	489.4	485.4	4.7	6.4	57.97	53.1	12.4	56.4	45.7	5.281		

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
200.0	200.0	200.0	200.0	1.5	1.5	-34.80	-2.3	9.5	8.3	6.0	3.547		
241.9	241.9	241.8	241.7	1.6	1.7	-58.02	-0.3	9.6	7.5	5.1	3.056	CC, ES	
300.0	299.9	299.7	299.5	1.8	1.9	-93.53	2.8	9.9	8.8	5.8	2.966		
400.0	399.9	399.5	399.2	3.2	2.3	72.41	8.0	10.3	13.4	8.0	2.506		
500.0	499.7	499.1	498.5	4.7	3.1	73.37	15.6	8.5	17.7	10.2	2.351	SF	
600.0	599.1	598.7	597.2	4.9	4.6	73.93	27.1	3.1	22.4	13.5	2.525		
700.0	697.8	698.1	695.1	6.1	5.9	74.46	42.2	-5.7	27.4	17.6	2.800		
800.0	795.6	797.5	791.9	7.1	7.0	74.97	61.0	-18.1	32.6	22.1	3.095		
900.0	892.1	896.8	887.3	8.0	7.9	75.46	83.4	-33.8	38.0	26.8	3.379		
1,000.0	987.1	996.0	981.1	8.9	8.8	75.92	109.4	-53.0	43.7	31.7	3.637		
1,100.0	1,080.4	1,095.2	1,073.1	9.6	9.6	76.35	138.8	-75.4	49.7	36.8	3.856		
1,200.0	1,171.6	1,194.2	1,163.0	10.4	10.4	76.77	171.7	-101.1	55.8	41.9	4.026		
1,300.0	1,260.6	1,293.2	1,250.5	11.0	11.1	77.15	207.8	-130.0	62.1	47.1	4.141		
1,400.0	1,347.0	1,392.2	1,335.4	11.7	11.7	77.52	247.1	-162.0	68.6	52.3	4.200		
1,500.0	1,430.7	1,491.0	1,417.6	12.3	12.4	77.86	289.5	-197.0	75.2	57.3	4.207		
1,600.0	1,511.5	1,589.9	1,496.8	12.8	12.9	78.18	334.8	-234.9	82.0	62.3	4.169		
1,700.0	1,589.0	1,688.6	1,572.8	13.4	13.5	78.48	383.0	-275.6	88.9	67.2	4.098		
1,800.0	1,664.1	1,788.1	1,646.8	13.6	13.8	78.87	433.6	-318.7	95.9	72.0	4.017		
1,900.0	1,739.0	1,887.8	1,720.9	13.9	14.2	79.24	484.4	-361.9	102.9	76.7	3.926		
2,000.0	1,814.0	1,987.6	1,795.1	14.3	14.7	79.56	535.3	-405.2	109.9	81.3	3.835		
2,100.0	1,888.9	2,087.3	1,869.2	15.5	15.5	79.85	586.1	-448.5	116.9	85.9	3.767		
2,200.0	1,963.9	2,187.1	1,943.3	16.8	16.8	80.10	637.0	-491.8	124.0	90.4	3.691		
2,300.0	2,038.8	2,286.8	2,017.4	18.1	18.0	80.33	687.8	-535.0	131.0	94.9	3.625		
2,400.0	2,113.8	2,386.6	2,091.5	19.5	19.3	80.53	738.6	-578.3	138.0	99.3	3.566		
2,500.0	2,188.7	2,486.4	2,165.6	20.8	20.6	80.71	789.5	-621.6	145.0	103.7	3.512		
2,600.0	2,263.7	2,586.1	2,239.7	22.1	22.0	80.88	840.3	-664.9	152.1	108.2	3.464		
2,700.0	2,338.6	2,685.9	2,313.8	23.5	23.3	81.03	891.2	-708.1	159.1	112.6	3.420		
2,800.0	2,413.6	2,785.6	2,388.0	24.8	24.6	81.17	942.0	-751.4	166.1	117.0	3.379		
2,900.0	2,488.5	2,885.4	2,462.1	26.2	26.0	81.29	992.9	-794.7	173.1	121.3	3.342		
3,000.0	2,563.4	2,985.1	2,536.2	27.5	27.3	81.41	1,043.7	-838.0	180.2	125.7	3.309		
3,100.0	2,638.4	3,084.9	2,610.3	28.9	28.7	81.52	1,094.5	-881.2	187.2	130.1	3.278		
3,200.0	2,713.3	3,184.6	2,684.4	30.2	30.0	81.62	1,145.4	-924.5	194.2	134.4	3.249		
3,300.0	2,788.3	3,284.4	2,758.5	31.6	31.3	81.72	1,196.2	-967.8	201.3	138.8	3.222		
3,400.0	2,863.2	3,384.1	2,832.6	33.0	32.7	81.80	1,247.1	-1,011.1	208.3	143.2	3.198		
3,500.0	2,938.2	3,483.9	2,906.7	34.3	34.0	81.88	1,297.9	-1,054.4	215.3	147.5	3.175		
3,600.0	3,013.1	3,583.6	2,980.9	35.7	35.4	81.96	1,348.8	-1,097.6	222.4	151.9	3.154		
3,700.0	3,088.1	3,683.4	3,055.0	37.1	36.8	82.03	1,399.6	-1,140.9	229.4	156.2	3.134		
3,800.0	3,163.0	3,783.1	3,129.1	38.4	38.1	82.10	1,450.4	-1,184.2	236.4	160.5	3.116		
3,900.0	3,238.0	3,882.9	3,203.2	39.8	39.5	82.16	1,501.3	-1,227.5	243.5	164.9	3.098		
4,000.0	3,312.9	3,982.6	3,277.3	41.2	40.8	82.22	1,552.1	-1,270.7	250.5	169.2	3.082		
4,100.0	3,387.8	4,082.4	3,351.4	42.5	42.2	82.28	1,603.0	-1,314.0	257.5	173.5	3.067		
4,200.0	3,462.8	4,182.1	3,425.5	43.9	43.5	82.33	1,653.8	-1,357.3	264.6	177.9	3.052		
4,300.0	3,537.7	4,281.9	3,499.7	45.3	44.9	82.39	1,704.6	-1,400.6	271.6	182.2	3.039		
4,400.0	3,612.7	4,381.6	3,573.8	46.7	46.2	82.43	1,755.5	-1,443.8	278.6	186.5	3.026		
4,500.0	3,687.6	4,481.4	3,647.9	48.0	47.6	82.48	1,806.3	-1,487.1	285.7	190.9	3.014		
4,600.0	3,762.6	4,581.1	3,722.0	49.4	49.0	82.52	1,857.2	-1,530.4	292.7	195.2	3.002		
4,700.0	3,837.5	4,680.9	3,796.1	50.8	50.3	82.56	1,908.0	-1,573.7	299.7	199.5	2.991		
4,800.0	3,912.5	4,780.6	3,870.2	52.2	51.7	82.60	1,958.9	-1,616.9	306.8	203.9	2.981		
4,900.0	3,987.4	4,880.4	3,944.3	53.5	53.0	82.64	2,009.7	-1,660.2	313.8	208.2	2.971		
5,000.0	4,062.4	4,980.2	4,018.4	54.9	54.4	82.68	2,060.5	-1,703.5	320.8	212.5	2.962		
5,100.0	4,137.3	5,079.9	4,092.6	56.3	55.8	82.71	2,111.4	-1,746.8	327.9	216.8	2.953		
5,200.0	4,212.2	5,179.7	4,166.7	57.7	57.1	82.75	2,162.2	-1,790.0	334.9	221.1	2.944		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 8, T6S, R94W - RWF 21-8 - Wellbore #1 - Plan #2												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
5,300.0	4,287.3	5,279.4	4,240.8	59.0	58.5	82.79	2,213.1	-1,833.3	342.0	225.5	2.936		
5,400.0	4,364.2	5,381.3	4,317.3	60.4	59.8	82.69	2,264.3	-1,876.9	349.1	230.0	2.932		
5,500.0	4,443.2	5,483.7	4,396.6	61.6	61.1	82.59	2,313.6	-1,918.9	356.0	234.4	2.928		
5,600.0	4,524.3	5,586.2	4,478.2	62.8	62.4	82.49	2,360.8	-1,959.1	362.5	238.6	2.925		
5,700.0	4,607.4	5,688.8	4,562.1	63.9	63.5	82.40	2,405.8	-1,997.4	368.8	242.6	2.923		
5,800.0	4,692.4	5,791.6	4,648.2	64.9	64.6	82.32	2,448.6	-2,033.8	374.7	246.5	2.922		
5,900.0	4,779.1	5,894.4	4,736.3	65.9	65.6	82.24	2,489.0	-2,068.2	380.3	250.2	2.922		
6,000.0	4,867.6	5,997.4	4,826.3	66.7	66.6	82.17	2,527.0	-2,100.5	385.6	253.7	2.923		
6,100.0	4,957.6	6,100.5	4,918.2	67.6	67.4	82.09	2,562.6	-2,130.8	390.6	257.0	2.924		
6,200.0	5,049.1	6,203.7	5,011.8	68.3	68.2	82.03	2,595.6	-2,158.9	395.2	260.1	2.926		
6,300.0	5,142.0	6,306.9	5,107.0	69.0	69.0	81.96	2,626.1	-2,184.9	399.4	263.0	2.928		
6,400.0	5,236.1	6,410.3	5,203.7	69.6	69.6	81.90	2,654.0	-2,208.6	403.3	265.7	2.931		
6,500.0	5,331.3	6,513.7	5,301.6	70.1	70.2	81.84	2,679.2	-2,230.1	406.8	268.1	2.934		
6,600.0	5,427.5	6,617.2	5,400.8	70.6	70.7	81.78	2,701.7	-2,249.3	409.9	270.4	2.937		
6,700.0	5,524.6	6,720.8	5,501.1	71.0	71.1	81.72	2,721.5	-2,266.1	412.7	272.3	2.940		
6,800.0	5,622.5	6,824.4	5,602.3	71.3	71.5	81.66	2,738.6	-2,280.6	415.1	274.1	2.943		
6,900.0	5,721.0	6,928.1	5,704.3	71.6	71.8	81.61	2,752.8	-2,292.7	417.1	275.5	2.946		
7,000.0	5,820.1	7,031.9	5,806.9	71.8	72.0	81.55	2,764.3	-2,302.5	418.7	276.7	2.949		
7,100.0	5,919.6	7,135.7	5,910.1	71.9	72.2	81.50	2,772.9	-2,309.8	419.9	277.7	2.952		
7,200.0	6,019.4	7,239.5	6,013.6	72.1	72.3	81.45	2,778.6	-2,314.7	420.8	278.3	2.954		
7,300.0	6,119.3	7,343.3	6,117.4	72.1	72.4	81.40	2,781.5	-2,317.1	421.2	278.7	2.956		
7,400.0	6,219.3	7,445.3	6,219.3	72.1	72.4	34.96	2,781.9	-2,317.4	421.3	278.8	2.956		
7,500.0	6,319.3	7,545.3	6,319.3	72.1	72.4	34.96	2,781.9	-2,317.4	421.3	278.8	2.955		
7,600.0	6,419.3	7,645.3	6,419.3	72.1	72.5	34.96	2,781.9	-2,317.4	421.3	278.7	2.955		
7,700.0	6,519.3	7,745.3	6,519.3	72.2	72.5	34.96	2,781.9	-2,317.4	421.3	278.7	2.954		
7,800.0	6,619.3	7,845.3	6,619.3	72.2	72.5	34.96	2,781.9	-2,317.4	421.3	278.7	2.954		
7,900.0	6,719.3	7,945.3	6,719.3	72.2	72.5	34.96	2,781.9	-2,317.4	421.3	278.6	2.953		
8,000.0	6,819.3	8,045.3	6,819.3	72.2	72.5	34.96	2,781.9	-2,317.4	421.3	278.6	2.952		
8,100.0	6,919.3	8,145.3	6,919.3	72.2	72.5	34.96	2,781.9	-2,317.4	421.3	278.6	2.952		
8,200.0	7,019.3	8,245.3	7,019.3	72.2	72.5	34.96	2,781.9	-2,317.4	421.3	278.5	2.951		
8,300.0	7,119.3	8,345.3	7,119.3	72.3	72.6	34.96	2,781.9	-2,317.4	421.3	278.5	2.950		
8,400.0	7,219.3	8,445.3	7,219.3	72.3	72.6	34.96	2,781.9	-2,317.4	421.3	278.5	2.950		
8,500.0	7,319.3	8,545.3	7,319.3	72.3	72.6	34.96	2,781.9	-2,317.4	421.3	278.4	2.949		
8,600.0	7,419.3	8,645.3	7,419.3	72.3	72.6	34.96	2,781.9	-2,317.4	421.3	278.4	2.948		
8,700.0	7,519.3	8,745.3	7,519.3	72.3	72.6	34.96	2,781.9	-2,317.4	421.3	278.4	2.948		
8,800.0	7,619.3	8,845.3	7,619.3	72.3	72.6	34.96	2,781.9	-2,317.4	421.3	278.3	2.947		
8,900.0	7,719.3	8,945.3	7,719.3	72.3	72.6	34.96	2,781.9	-2,317.4	421.3	278.3	2.946		
9,000.0	7,819.3	9,045.3	7,819.3	72.4	72.7	34.96	2,781.9	-2,317.4	421.3	278.3	2.945		
9,100.0	7,919.3	9,145.3	7,919.3	72.4	72.7	34.96	2,781.9	-2,317.4	421.3	278.2	2.945		
9,200.0	8,019.3	9,245.3	8,019.3	72.4	72.7	34.96	2,781.9	-2,317.4	421.3	278.2	2.944		
9,300.0	8,119.3	9,345.3	8,119.3	72.4	72.7	34.96	2,781.9	-2,317.4	421.3	278.2	2.943		
9,400.0	8,219.3	9,445.3	8,219.3	72.4	72.7	34.96	2,781.9	-2,317.4	421.3	278.1	2.943		
9,500.0	8,319.3	9,545.3	8,319.3	72.4	72.7	34.96	2,781.9	-2,317.4	421.3	278.1	2.942		
9,600.0	8,419.3	9,645.3	8,419.3	72.5	72.8	34.96	2,781.9	-2,317.4	421.3	278.1	2.941		
9,700.0	8,519.3	9,745.3	8,519.3	72.5	72.8	34.96	2,781.9	-2,317.4	421.3	278.0	2.941		
9,800.0	8,619.3	9,845.3	8,619.3	72.5	72.8	34.96	2,781.9	-2,317.4	421.3	278.0	2.940		
9,900.0	8,719.3	9,945.3	8,719.3	72.5	72.8	34.96	2,781.9	-2,317.4	421.3	278.0	2.939		
10,000.0	8,819.3	10,045.3	8,819.3	72.5	72.8	34.96	2,781.9	-2,317.4	421.3	277.9	2.938		
10,100.0	8,919.3	10,145.3	8,919.3	72.5	72.8	34.96	2,781.9	-2,317.4	421.3	277.9	2.938		
10,153.7	8,973.0	10,199.0	8,973.0	72.5	72.8	34.96	2,781.9	-2,317.4	421.3	277.9	2.937		

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design	Sec 8, T6S, R94W - RWF 22-8 - Wellbore #1 - Wellbore #1										Offset Site Error:	0.0 usft
Survey Program:	236-OWSG (REV5) MWD HDGM Standard										Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
500.0	499.7	494.7	492.3	4.7	4.8	-56.96	-11.8	-48.5	50.7	42.1	5.891	CC, ES, SF

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
400.0	399.9	400.4	400.2	3.2	3.3	-108.87	-21.0	-4.0	19.0	13.9	3.709	
456.2	456.0	456.6	456.2	4.1	4.2	-99.84	-17.7	-8.0	18.7	12.6	3.037	CC
500.0	499.7	500.4	499.6	4.7	4.9	-92.99	-14.3	-12.1	18.9	11.9	2.707	ES
600.0	599.1	600.0	598.0	4.9	6.2	-78.72	-4.4	-24.1	20.5	12.6	2.590	
700.0	697.8	699.5	695.4	6.1	7.2	-67.51	8.7	-40.1	23.4	14.0	2.483	
800.0	795.6	798.7	791.2	7.1	8.2	-59.49	25.0	-59.9	27.3	16.1	2.438	
900.0	892.1	897.6	885.3	8.0	9.0	-54.00	44.4	-83.4	31.8	18.8	2.454	
1,000.0	987.1	996.3	977.5	8.9	9.8	-50.32	66.8	-110.5	36.7	22.1	2.514	
1,100.0	1,080.4	1,094.7	1,067.5	9.6	10.5	-47.90	92.1	-141.3	42.0	25.8	2.597	
1,200.0	1,171.6	1,192.9	1,155.1	10.4	11.2	-46.36	120.3	-175.4	47.4	29.8	2.693	
1,300.0	1,260.6	1,290.8	1,240.1	11.0	11.8	-45.45	151.2	-213.0	53.1	34.1	2.792	
1,400.0	1,347.0	1,388.5	1,322.3	11.7	12.4	-44.99	184.7	-253.7	58.9	38.5	2.889	
1,500.0	1,430.7	1,486.0	1,401.5	12.3	13.0	-44.86	220.8	-297.5	64.8	43.0	2.977	
1,600.0	1,511.5	1,584.1	1,478.4	12.8	13.3	-45.15	259.6	-344.5	70.6	47.5	3.063	
1,700.0	1,589.0	1,684.0	1,556.1	13.4	13.6	-47.76	299.6	-393.0	73.6	49.3	3.024	
1,800.0	1,664.1	1,783.8	1,633.6	13.6	13.9	-52.47	339.5	-441.5	74.4	48.9	2.919	
1,900.0	1,739.0	1,883.6	1,711.2	13.9	14.2	-57.19	379.5	-490.0	75.5	48.5	2.796	
2,000.0	1,814.0	1,983.4	1,788.7	14.3	14.6	-61.73	419.4	-538.5	77.2	48.3	2.670	
2,100.0	1,888.9	2,083.2	1,866.2	15.5	15.8	-66.06	459.4	-587.0	79.3	48.2	2.554	
2,200.0	1,963.9	2,183.0	1,943.8	16.8	17.1	-70.14	499.3	-635.4	81.8	48.4	2.445	
2,300.0	2,038.8	2,282.9	2,021.3	18.1	18.4	-73.96	539.3	-683.9	84.8	48.7	2.352	
2,400.0	2,113.8	2,382.7	2,098.9	19.5	19.7	-77.51	579.2	-732.4	88.1	49.4	2.275	
2,500.0	2,188.7	2,482.5	2,176.4	20.8	21.0	-80.79	619.2	-780.9	91.7	50.2	2.213	
2,600.0	2,263.7	2,582.3	2,254.0	22.1	22.3	-83.81	659.1	-829.4	95.5	51.4	2.164	
2,700.0	2,338.6	2,682.1	2,331.5	23.5	23.6	-86.60	699.1	-877.9	99.7	52.8	2.126	
2,800.0	2,413.6	2,781.9	2,409.1	24.8	24.8	-89.15	739.1	-926.3	104.0	54.4	2.097	
2,900.0	2,488.5	2,881.7	2,486.6	26.2	26.1	-91.50	779.0	-974.8	108.5	56.3	2.076	
3,000.0	2,563.4	2,981.5	2,564.2	27.5	27.4	-93.66	819.0	-1,023.3	113.2	58.3	2.061	
3,100.0	2,638.4	3,081.3	2,641.7	28.9	28.8	-95.64	858.9	-1,071.8	118.1	60.5	2.052	
3,200.0	2,713.3	3,181.1	2,719.3	30.2	30.1	-97.47	898.9	-1,120.3	123.0	62.9	2.046	
3,300.0	2,788.3	3,280.9	2,796.8	31.6	31.4	-99.15	938.8	-1,168.8	128.1	65.5	2.044	SF
3,400.0	2,863.2	3,380.7	2,874.4	33.0	32.7	-100.70	978.8	-1,217.3	133.3	68.1	2.045	
3,500.0	2,938.2	3,480.5	2,951.9	34.3	34.0	-102.13	1,018.7	-1,265.7	138.6	70.9	2.048	
3,600.0	3,013.1	3,580.3	3,029.4	35.7	35.3	-103.46	1,058.7	-1,314.2	144.0	73.8	2.052	
3,700.0	3,088.1	3,680.1	3,107.0	37.1	36.6	-104.70	1,098.6	-1,362.7	149.4	76.8	2.058	
3,800.0	3,163.0	3,779.9	3,184.5	38.4	37.9	-105.84	1,138.6	-1,411.2	154.9	79.9	2.065	
3,900.0	3,238.0	3,879.7	3,262.1	39.8	39.2	-106.91	1,178.5	-1,459.7	160.5	83.0	2.073	
4,000.0	3,312.9	3,979.5	3,339.6	41.2	40.5	-107.90	1,218.5	-1,508.2	166.1	86.3	2.081	
4,100.0	3,387.8	4,079.3	3,417.2	42.5	41.8	-108.83	1,258.4	-1,556.6	171.7	89.6	2.090	
4,200.0	3,462.8	4,179.1	3,494.7	43.9	43.1	-109.70	1,298.4	-1,605.1	177.4	92.9	2.099	
4,300.0	3,537.7	4,278.9	3,572.3	45.3	44.4	-110.52	1,338.4	-1,653.6	183.2	96.3	2.109	
4,400.0	3,612.7	4,378.7	3,649.8	46.7	45.7	-111.29	1,378.3	-1,702.1	188.9	99.8	2.119	
4,500.0	3,687.6	4,478.5	3,727.4	48.0	47.0	-112.01	1,418.3	-1,750.6	194.7	103.2	2.128	
4,600.0	3,762.6	4,578.3	3,804.9	49.4	48.4	-112.69	1,458.2	-1,799.1	200.6	106.8	2.138	
4,700.0	3,837.5	4,678.1	3,882.5	50.8	49.7	-113.33	1,498.2	-1,847.5	206.4	110.3	2.148	
4,800.0	3,912.5	4,777.9	3,960.0	52.2	51.0	-113.93	1,538.1	-1,896.0	212.3	113.9	2.158	
4,900.0	3,987.4	4,877.7	4,037.6	53.5	52.3	-114.51	1,578.1	-1,944.5	218.2	117.6	2.168	
5,000.0	4,062.4	4,976.3	4,114.4	54.9	53.6	-115.12	1,617.4	-1,992.2	224.3	121.4	2.180	
5,100.0	4,137.3	5,073.4	4,191.5	56.3	54.8	-116.27	1,654.8	-2,037.7	231.3	126.7	2.210	
5,200.0	4,212.2	5,169.9	4,270.0	57.7	55.9	-117.96	1,690.6	-2,081.1	239.7	133.7	2.260	
5,300.0	4,287.3	5,265.9	4,349.5	59.0	57.0	-120.14	1,724.7	-2,122.5	249.6	142.5	2.332	
5,400.0	4,364.2	5,361.4	4,430.3	60.4	58.0	-122.32	1,757.2	-2,161.8	259.7	151.9	2.409	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program:												Offset Well Error:	0.0 usft
Sec 8, T6S, R94W - RWF 421-8 - Wellbore #1 - Plan #2													
0-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
5,500.0	4,443.2	5,456.7	4,512.3	61.6	59.0	-124.25	1,788.0	-2,199.3	269.7	161.2	2.485		
5,600.0	4,524.3	5,551.7	4,595.4	62.8	59.9	-125.97	1,817.3	-2,234.8	279.4	170.3	2.561		
5,700.0	4,607.4	5,646.4	4,679.6	63.9	60.7	-127.50	1,844.9	-2,268.3	288.9	179.2	2.634		
5,800.0	4,692.4	5,741.0	4,764.8	64.9	61.5	-128.87	1,870.9	-2,299.9	298.0	187.9	2.705		
5,900.0	4,779.1	5,835.3	4,851.0	65.9	62.2	-130.08	1,895.3	-2,329.5	306.8	196.1	2.773		
6,000.0	4,867.6	5,929.4	4,938.0	66.7	62.8	-131.17	1,918.1	-2,357.1	315.1	204.1	2.837		
6,100.0	4,957.6	6,023.3	5,025.9	67.6	63.4	-132.13	1,939.2	-2,382.7	323.0	211.6	2.899		
6,200.0	5,049.1	6,117.1	5,114.5	68.3	64.0	-133.00	1,958.7	-2,406.4	330.3	218.6	2.957		
6,300.0	5,142.0	6,210.7	5,203.8	69.0	64.5	-133.76	1,976.5	-2,428.0	337.2	225.2	3.011		
6,400.0	5,236.1	6,304.1	5,293.7	69.6	64.9	-134.44	1,992.6	-2,447.6	343.5	231.3	3.061		
6,500.0	5,331.3	6,400.0	5,386.7	70.1	65.3	-135.05	2,007.5	-2,465.6	349.3	236.8	3.105		
6,600.0	5,427.5	6,490.7	5,475.2	70.6	65.6	-135.56	2,020.0	-2,480.8	354.5	242.0	3.151		
6,700.0	5,524.6	6,583.8	5,566.6	71.0	65.9	-136.01	2,031.2	-2,494.3	359.1	246.5	3.190		
6,800.0	5,622.5	6,676.8	5,658.4	71.3	66.2	-136.40	2,040.7	-2,505.9	363.1	250.5	3.225		
6,900.0	5,721.0	6,769.7	5,750.5	71.6	66.4	-136.73	2,048.5	-2,515.4	366.5	254.0	3.256		
7,000.0	5,820.1	6,862.5	5,842.9	71.8	66.5	-137.00	2,054.7	-2,522.9	369.3	256.8	3.283		
7,100.0	5,919.6	6,955.3	5,935.4	71.9	66.6	-137.22	2,059.2	-2,528.4	371.5	259.2	3.306		
7,200.0	6,019.4	7,048.1	6,028.0	72.1	66.7	-137.38	2,062.0	-2,531.8	373.1	260.9	3.325		
7,300.0	6,119.3	7,140.8	6,120.7	72.1	66.8	-137.49	2,063.2	-2,533.2	374.1	262.1	3.341		
7,400.0	6,219.3	7,239.4	6,219.3	72.1	66.8	176.07	2,063.2	-2,533.2	374.2	262.3	3.344		
7,500.0	6,319.3	7,339.4	6,319.3	72.1	66.8	176.07	2,063.2	-2,533.2	374.2	262.3	3.343		
7,600.0	6,419.3	7,439.4	6,419.3	72.1	66.8	176.07	2,063.2	-2,533.2	374.2	262.2	3.341		
7,700.0	6,519.3	7,539.4	6,519.3	72.2	66.8	176.07	2,063.2	-2,533.2	374.2	262.2	3.340		
7,800.0	6,619.3	7,639.4	6,619.3	72.2	66.8	176.07	2,063.2	-2,533.2	374.2	262.1	3.339		
7,900.0	6,719.3	7,739.4	6,719.3	72.2	66.9	176.07	2,063.2	-2,533.2	374.2	262.1	3.337		
8,000.0	6,819.3	7,839.4	6,819.3	72.2	66.9	176.07	2,063.2	-2,533.2	374.2	262.1	3.336		
8,100.0	6,919.3	7,939.4	6,919.3	72.2	66.9	176.07	2,063.2	-2,533.2	374.2	262.0	3.335		
8,200.0	7,019.3	8,039.4	7,019.3	72.2	66.9	176.07	2,063.2	-2,533.2	374.2	262.0	3.333		
8,300.0	7,119.3	8,139.4	7,119.3	72.3	66.9	176.07	2,063.2	-2,533.2	374.2	261.9	3.332		
8,400.0	7,219.3	8,239.4	7,219.3	72.3	66.9	176.07	2,063.2	-2,533.2	374.2	261.9	3.331		
8,500.0	7,319.3	8,339.4	7,319.3	72.3	67.0	176.07	2,063.2	-2,533.2	374.2	261.8	3.329		
8,600.0	7,419.3	8,439.4	7,419.3	72.3	67.0	176.07	2,063.2	-2,533.2	374.2	261.8	3.328		
8,700.0	7,519.3	8,539.4	7,519.3	72.3	67.0	176.07	2,063.2	-2,533.2	374.2	261.7	3.327		
8,800.0	7,619.3	8,639.4	7,619.3	72.3	67.0	176.07	2,063.2	-2,533.2	374.2	261.7	3.325		
8,900.0	7,719.3	8,739.4	7,719.3	72.3	67.0	176.07	2,063.2	-2,533.2	374.2	261.6	3.324		
9,000.0	7,819.3	8,839.4	7,819.3	72.4	67.1	176.07	2,063.2	-2,533.2	374.2	261.6	3.323		
9,100.0	7,919.3	8,939.4	7,919.3	72.4	67.1	176.07	2,063.2	-2,533.2	374.2	261.6	3.321		
9,200.0	8,019.3	9,039.4	8,019.3	72.4	67.1	176.07	2,063.2	-2,533.2	374.2	261.5	3.320		
9,300.0	8,119.3	9,139.4	8,119.3	72.4	67.1	176.07	2,063.2	-2,533.2	374.2	261.5	3.318		
9,400.0	8,219.3	9,239.4	8,219.3	72.4	67.1	176.07	2,063.2	-2,533.2	374.2	261.4	3.317		
9,500.0	8,319.3	9,339.4	8,319.3	72.4	67.1	176.07	2,063.2	-2,533.2	374.2	261.4	3.316		
9,600.0	8,419.3	9,439.4	8,419.3	72.5	67.2	176.07	2,063.2	-2,533.2	374.2	261.3	3.314		
9,700.0	8,519.3	9,539.4	8,519.3	72.5	67.2	176.07	2,063.2	-2,533.2	374.2	261.3	3.313		
9,800.0	8,619.3	9,639.4	8,619.3	72.5	67.2	176.07	2,063.2	-2,533.2	374.2	261.2	3.311		
9,900.0	8,719.3	9,739.4	8,719.3	72.5	67.2	176.07	2,063.2	-2,533.2	374.2	261.2	3.310		
10,000.0	8,819.3	9,839.4	8,819.3	72.5	67.2	176.07	2,063.2	-2,533.2	374.2	261.1	3.309		
10,100.0	8,919.3	9,939.4	8,919.3	72.5	67.3	176.07	2,063.2	-2,533.2	374.2	261.1	3.307		
10,103.8	8,923.1	9,943.2	8,923.1	72.5	67.3	176.07	2,063.2	-2,533.2	374.2	261.1	3.307		
10,153.7	8,973.0	9,981.1	8,961.0	72.5	67.3	176.07	2,063.2	-2,533.2	374.4	261.9	3.329		

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 8, T6S, R94W - RWF 514-4 - Wellbore #1 - Plan #2												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
400.0	399.9	398.3	398.0	3.2	2.0	60.07	23.8	11.5	28.7	23.7	5.750	CC, ES	
500.0	499.7	496.2	495.5	4.7	3.4	66.38	32.9	12.8	35.5	27.6	4.502	SF	
600.0	599.1	593.2	591.2	4.9	4.5	71.05	48.3	12.5	46.2	37.0	5.039		

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 8, T6S, R94W - RWF 521-8 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 475-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
200.0	200.0	200.3	200.1	1.5	2.8	92.98	-15.2	-13.3	20.2	16.4	5.367		
206.5	206.5	206.7	206.5	1.5	2.9	95.10	-14.8	-13.6	20.2	16.3	5.214	CC, ES	
300.0	299.9	299.2	298.6	1.8	4.1	127.39	-8.3	-18.9	23.7	18.1	4.223		
400.0	399.9	397.8	396.5	3.2	5.5	-35.05	1.3	-26.7	31.5	23.4	3.878	SF	
500.0	499.7	496.1	493.4	4.7	6.7	-23.55	13.5	-36.6	39.8	29.6	3.906		
600.0	599.1	593.4	588.5	4.9	7.4	-15.92	29.3	-49.5	48.6	36.4	3.973		
700.0	697.8	690.6	682.7	6.1	8.0	-13.71	45.7	-67.2	57.5	43.5	4.122		
800.0	795.6	786.9	775.0	7.1	8.5	-16.75	60.5	-90.5	66.0	50.7	4.295		
900.0	892.1	882.1	864.4	8.0	9.2	-21.34	76.0	-119.0	75.8	59.1	4.528		
1,000.0	987.1	977.6	952.3	8.9	9.7	-25.45	94.0	-151.7	86.5	68.6	4.852		
1,100.0	1,080.4	1,074.1	1,039.6	9.6	10.4	-29.11	114.5	-187.5	96.5	77.4	5.056		
1,200.0	1,171.6	1,170.7	1,125.4	10.4	11.1	-32.25	137.6	-225.2	105.4	85.1	5.194		
1,300.0	1,260.6	1,267.4	1,209.8	11.0	11.6	-35.03	163.5	-264.8	112.8	91.5	5.300		
1,400.0	1,347.0	1,363.6	1,292.0	11.7	12.1	-37.69	191.8	-306.1	118.9	96.7	5.363		
1,500.0	1,430.7	1,458.7	1,371.1	12.3	12.5	-40.24	222.3	-349.2	124.4	101.3	5.378		
1,600.0	1,511.5	1,553.6	1,447.1	12.8	13.0	-42.79	255.0	-395.5	130.5	106.2	5.388		
1,700.0	1,589.0	1,651.2	1,524.2	13.4	13.5	-46.44	288.9	-444.9	135.3	109.9	5.327		
1,800.0	1,664.1	1,748.4	1,599.9	13.6	14.5	-50.66	323.2	-495.3	139.7	113.1	5.262		
1,900.0	1,739.0	1,846.2	1,674.8	13.9	15.6	-54.15	358.6	-547.4	146.2	118.1	5.201		
2,000.0	1,814.0	1,945.5	1,750.6	14.3	16.8	-57.35	394.4	-600.6	153.5	123.5	5.119		
2,100.0	1,888.9	2,045.4	1,827.4	15.5	18.0	-60.72	429.4	-653.8	161.3	129.2	5.022		
2,200.0	1,963.9	2,145.6	1,904.7	16.8	19.2	-63.71	464.9	-706.8	169.0	134.6	4.906		
2,300.0	2,038.8	2,245.0	1,981.5	18.1	20.4	-66.45	500.2	-759.1	176.9	140.0	4.797		
2,400.0	2,113.8	2,345.6	2,059.6	19.5	21.7	-69.14	535.6	-811.8	184.9	145.5	4.686		
2,500.0	2,188.7	2,446.3	2,137.5	20.8	22.9	-71.38	572.1	-864.1	192.4	150.3	4.571		
2,600.0	2,263.7	2,545.7	2,214.8	22.1	24.2	-73.58	607.9	-915.3	199.9	155.2	4.466		
2,700.0	2,338.6	2,645.1	2,292.2	23.5	25.4	-75.64	643.6	-966.4	207.8	160.3	4.378		
2,800.0	2,413.6	2,746.1	2,371.8	24.8	26.6	-77.99	679.1	-1,017.5	215.5	165.3	4.289		
2,900.0	2,488.5	2,846.9	2,451.6	26.2	27.9	-80.27	714.6	-1,067.8	222.9	169.9	4.203		
3,000.0	2,563.4	2,947.0	2,530.4	27.5	29.1	-82.19	750.8	-1,117.8	230.1	174.3	4.124		
3,100.0	2,638.4	3,045.3	2,607.8	28.9	30.3	-83.92	786.4	-1,166.9	237.5	179.0	4.060		
3,200.0	2,713.3	3,141.7	2,682.9	30.2	31.6	-85.29	821.2	-1,216.3	246.2	185.0	4.026		
3,300.0	2,788.3	3,240.4	2,760.2	31.6	32.8	-86.78	855.9	-1,266.9	255.7	191.9	4.005		
3,400.0	2,863.2	3,341.1	2,839.1	33.0	34.1	-88.18	891.3	-1,318.4	265.2	198.6	3.983		
3,500.0	2,938.2	3,440.6	2,917.2	34.3	35.4	-89.51	926.5	-1,369.1	274.6	205.3	3.962		
3,600.0	3,013.1	3,540.1	2,994.7	35.7	36.6	-90.55	962.3	-1,420.3	284.1	212.1	3.946		
3,700.0	3,088.1	3,639.2	3,072.6	37.1	37.9	-91.74	997.3	-1,470.6	293.6	218.9	3.933		
3,800.0	3,163.0	3,738.0	3,149.7	38.4	39.2	-92.70	1,032.4	-1,521.4	303.5	226.2	3.926		
3,900.0	3,238.0	3,837.5	3,228.2	39.8	40.4	-93.85	1,067.1	-1,571.7	313.5	233.6	3.922		
4,000.0	3,312.9	3,937.7	3,306.8	41.2	41.7	-94.82	1,102.4	-1,622.7	323.5	240.9	3.917		
4,100.0	3,387.8	4,037.4	3,385.6	42.5	43.0	-95.87	1,137.4	-1,672.8	333.4	248.2	3.913		
4,200.0	3,462.8	4,135.8	3,463.3	43.9	44.2	-96.83	1,172.0	-1,722.4	343.4	255.6	3.913		
4,300.0	3,537.7	4,237.6	3,544.5	45.3	45.5	-97.99	1,207.1	-1,772.7	353.5	263.2	3.913		
4,400.0	3,612.7	4,336.7	3,623.8	46.7	46.7	-99.12	1,241.6	-1,821.1	363.1	270.3	3.912		
4,500.0	3,687.6	4,437.8	3,705.7	48.0	47.9	-100.50	1,276.1	-1,869.2	372.9	277.6	3.915		
4,600.0	3,762.6	4,536.2	3,786.0	49.4	49.1	-101.89	1,309.5	-1,915.3	382.6	285.0	3.922		
4,700.0	3,837.5	4,634.0	3,866.8	50.8	50.2	-103.46	1,341.9	-1,960.0	392.9	293.1	3.939		
4,800.0	3,912.5	4,732.5	3,949.1	52.2	51.2	-105.20	1,373.7	-2,003.8	403.6	301.8	3.965		
4,900.0	3,987.4	4,828.8	4,030.5	53.5	52.3	-107.06	1,403.9	-2,045.4	415.0	311.4	4.005		
5,000.0	4,062.4	4,926.8	4,114.2	54.9	53.3	-109.06	1,433.9	-2,086.6	427.2	321.8	4.056		
5,100.0	4,137.3	5,024.7	4,198.3	56.3	54.3	-111.08	1,463.6	-2,127.0	439.9	333.0	4.116		
5,200.0	4,212.2	5,121.6	4,282.8	57.7	55.2	-113.31	1,492.1	-2,164.7	453.3	345.1	4.192		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

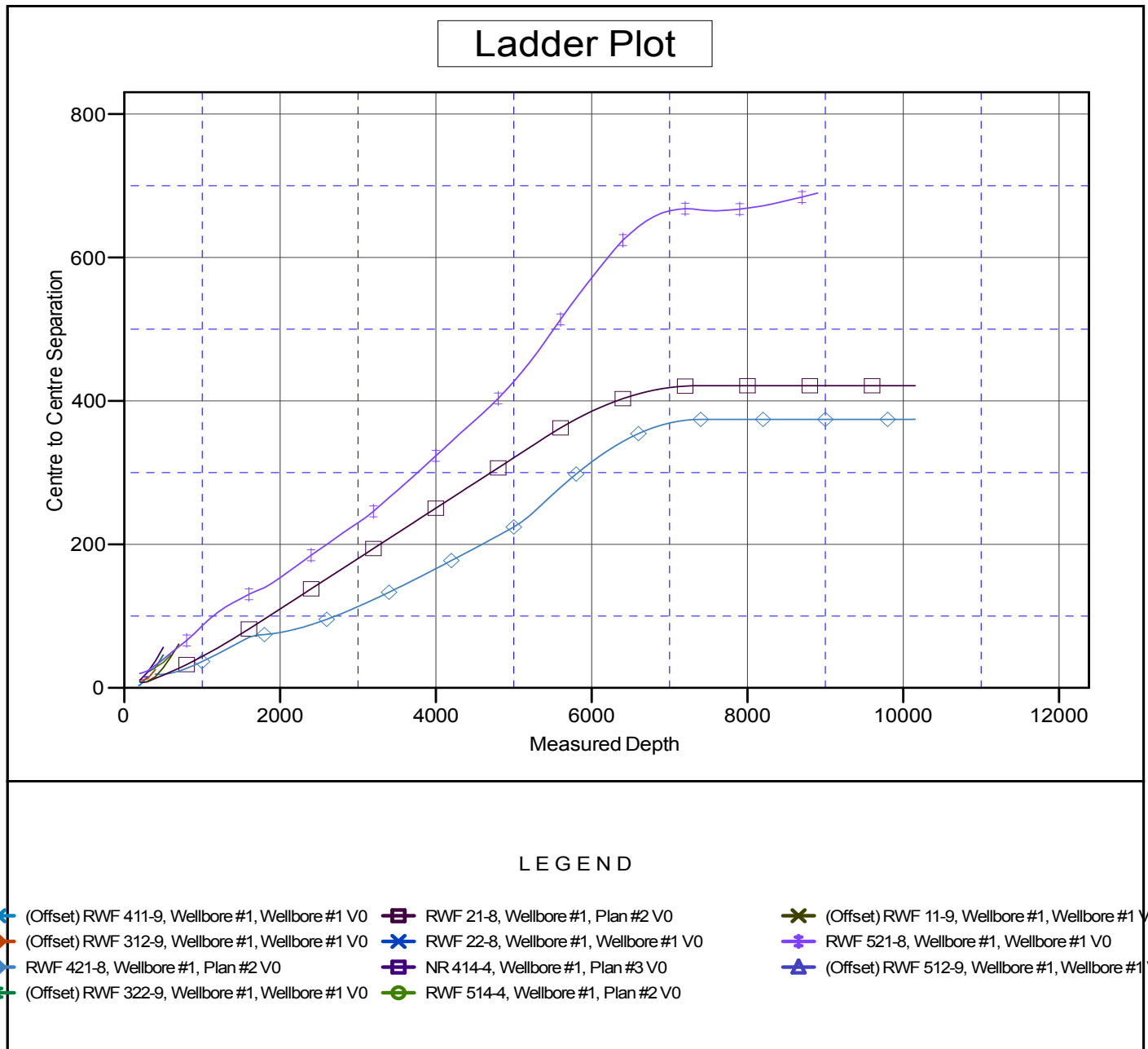
Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design Sec 8, T6S, R94W - RWF 521-8 - Wellbore #1 - Wellbore #1											Offset Site Error:	0.0 usft
Survey Program: 475-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
5,300.0	4,287.3	5,216.8	4,366.9	59.0	56.0	-115.70	1,519.5	-2,200.0	467.5	358.4	4.284	
5,400.0	4,364.2	5,304.7	4,446.1	60.4	56.7	-118.12	1,543.0	-2,230.0	482.6	372.9	4.399	
5,500.0	4,443.2	5,396.2	4,529.8	61.6	57.4	-120.48	1,565.6	-2,259.1	498.4	388.2	4.524	
5,600.0	4,524.3	5,490.8	4,617.1	62.8	58.1	-122.63	1,588.1	-2,288.0	513.7	403.1	4.645	
5,700.0	4,607.4	5,580.7	4,700.6	63.9	58.7	-124.43	1,608.4	-2,314.3	528.8	417.9	4.767	
5,800.0	4,692.4	5,672.0	4,786.1	64.9	59.3	-126.04	1,627.8	-2,339.8	543.5	432.2	4.884	
5,900.0	4,779.1	5,766.0	4,874.8	65.9	59.8	-127.49	1,646.4	-2,364.8	557.7	446.1	4.995	
6,000.0	4,867.6	5,851.4	4,956.1	66.7	60.3	-128.70	1,661.9	-2,385.9	571.7	459.9	5.113	
6,100.0	4,957.6	5,940.4	5,041.5	67.6	60.7	-129.84	1,676.3	-2,406.3	585.5	473.5	5.229	
6,200.0	5,049.1	6,028.1	5,126.3	68.3	61.1	-130.87	1,689.1	-2,424.7	598.9	486.8	5.344	
6,300.0	5,142.0	6,114.5	5,210.4	69.0	61.4	-131.80	1,699.9	-2,441.1	612.1	500.0	5.463	
6,400.0	5,236.1	6,216.4	5,310.1	69.6	61.8	-132.72	1,711.5	-2,458.7	624.3	511.9	5.553	
6,500.0	5,331.3	6,307.4	5,399.3	70.1	62.1	-133.40	1,722.1	-2,473.3	633.9	521.4	5.631	
6,600.0	5,427.5	6,396.4	5,486.9	70.6	62.3	-133.97	1,730.8	-2,486.2	643.1	530.4	5.708	
6,700.0	5,524.6	6,493.3	5,582.6	71.0	62.6	-134.43	1,739.2	-2,498.9	651.0	538.0	5.761	
6,800.0	5,622.5	6,583.5	5,671.9	71.3	62.8	-134.79	1,746.6	-2,509.2	657.0	543.9	5.808	
6,900.0	5,721.0	6,679.8	5,767.6	71.6	63.0	-135.09	1,753.1	-2,518.3	662.0	548.7	5.839	
7,000.0	5,820.1	6,772.6	5,859.9	71.8	63.1	-135.31	1,759.1	-2,525.3	665.0	551.5	5.858	
7,100.0	5,919.6	6,861.5	5,948.5	71.9	63.2	-135.40	1,763.6	-2,531.1	667.0	553.4	5.871	
7,200.0	6,019.4	6,953.5	6,040.2	72.1	63.3	-135.29	1,766.7	-2,536.9	668.1	554.2	5.867	
7,300.0	6,119.3	7,046.7	6,133.3	72.1	63.4	-135.06	1,769.1	-2,541.7	667.7	553.5	5.847	
7,400.0	6,219.3	7,140.8	6,227.3	72.1	63.5	178.91	1,770.5	-2,546.2	666.3	551.8	5.817	
7,500.0	6,319.3	7,236.7	6,323.1	72.1	63.6	179.26	1,771.2	-2,550.3	665.4	550.6	5.793	
7,585.0	6,404.3	7,317.9	6,404.3	72.1	63.6	179.54	1,771.4	-2,553.6	665.2	550.0	5.779	
7,600.0	6,419.3	7,332.2	6,418.5	72.1	63.6	179.60	1,771.4	-2,554.2	665.2	550.0	5.776	
7,700.0	6,519.3	7,427.8	6,514.0	72.2	63.7	179.97	1,771.0	-2,558.6	665.6	550.2	5.766	
7,800.0	6,619.3	7,527.6	6,613.8	72.2	63.7	-179.77	1,770.1	-2,561.5	666.5	550.8	5.760	
7,900.0	6,719.3	7,625.2	6,711.4	72.2	63.7	-179.60	1,769.2	-2,563.6	667.5	551.6	5.762	
8,000.0	6,819.3	7,721.6	6,807.7	72.2	63.8	-179.43	1,767.8	-2,565.5	668.9	553.0	5.772	
8,100.0	6,919.3	7,824.4	6,910.5	72.2	63.8	-179.33	1,766.1	-2,566.7	670.6	554.5	5.779	
8,200.0	7,019.3	7,919.9	7,006.0	72.2	63.8	-179.28	1,764.6	-2,567.3	672.1	556.2	5.798	
8,300.0	7,119.3	8,018.2	7,104.2	72.3	63.8	-179.20	1,762.5	-2,568.3	674.3	558.4	5.817	
8,400.0	7,219.3	8,116.6	7,202.6	72.3	63.8	-179.13	1,760.2	-2,569.2	676.6	560.7	5.838	
8,500.0	7,319.3	8,214.6	7,300.6	72.3	63.8	-179.10	1,757.7	-2,569.5	679.2	563.4	5.865	
8,600.0	7,419.3	8,316.6	7,402.5	72.3	63.8	-179.12	1,755.0	-2,569.3	681.8	566.0	5.889	
8,700.0	7,519.3	8,415.7	7,501.6	72.3	63.8	-179.17	1,752.5	-2,568.8	684.3	568.7	5.917	
8,800.0	7,619.3	8,513.8	7,599.7	72.3	63.8	-179.23	1,749.8	-2,568.1	687.1	571.6	5.949	
8,900.0	7,719.3	8,613.2	7,699.0	72.3	63.8	-179.29	1,747.0	-2,567.5	689.9	574.5	5.980	

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=24' @ 6003.6usft (H&P #318)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: RWF 321-8
Coordinate System is US State Plane 1983, Colorado Central Zone
Grid Convergence at Surface is: -1.52°



Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RWF 321-8
Project:	Garfield County, CO	TVD Reference:	KB=24' @ 6003.6usft (H&P #318)
Reference Site:	Sec 8, T6S, R94W	MD Reference:	KB=24' @ 6003.6usft (H&P #318)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	RWF 321-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=24' @ 6003.6usft (H&P #318)

Offset Depths are relative to Offset Datum

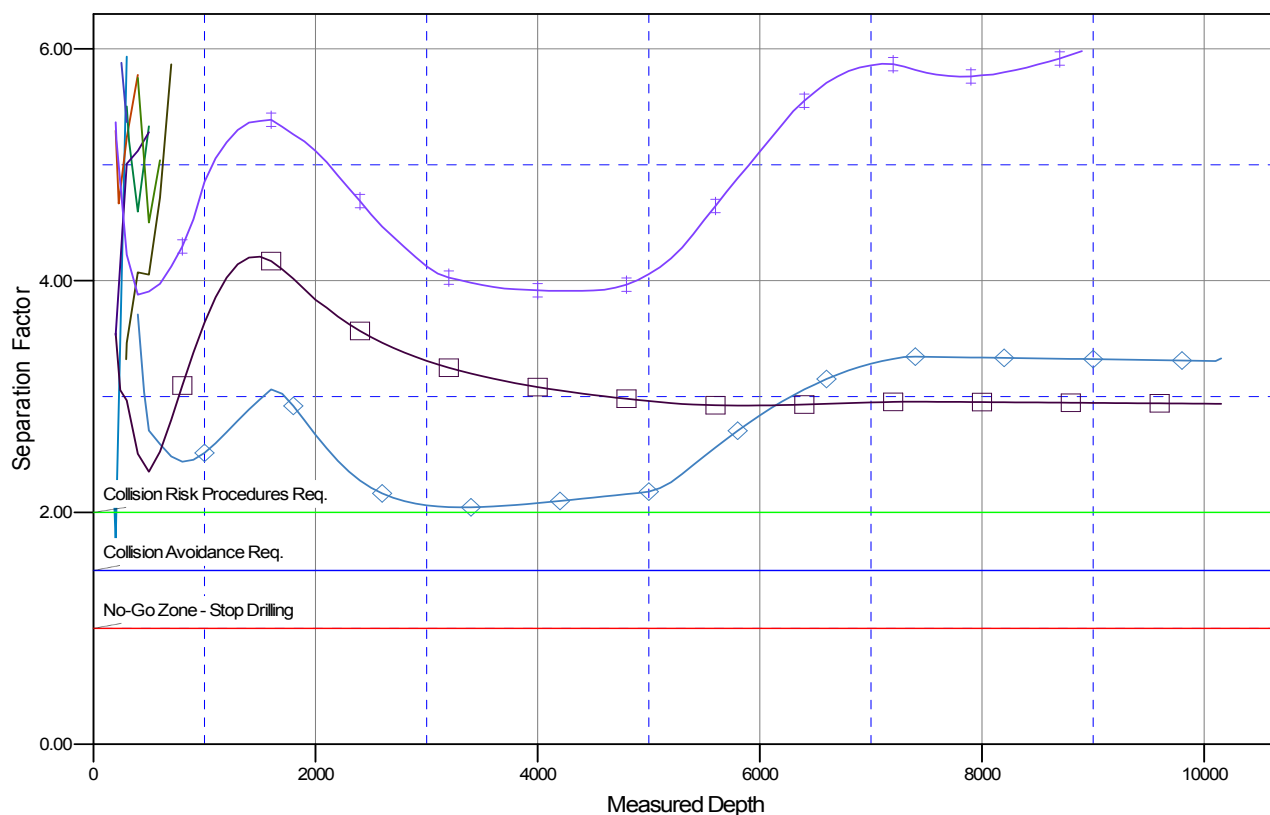
Central Meridian is -105.500000

Coordinates are relative to: RWF 321-8

Coordinate System is US State Plane 1983, Colorado Central Zone

Grid Convergence at Surface is: -1.52°

Separation Factor Plot



LEGEND

- ✕ (Offset) RWF 411-9, Wellbore #1, Wellbore #1 V0
- ✕ (Offset) RWF 312-9, Wellbore #1, Wellbore #1 V0
- ✕ RWF 421-8, Wellbore #1, Plan #2 V0
- ✕ (Offset) RWF 322-9, Wellbore #1, Wellbore #1 V0
- ✕ RWF 21-8, Wellbore #1, Plan #2 V0
- ✕ RWF 22-8, Wellbore #1, Wellbore #1 V0
- ✕ NR 414-4, Wellbore #1, Plan #3 V0
- ✕ RWF 514-4, Wellbore #1, Plan #2 V0
- ✕ (Offset) RWF 11-9, Wellbore #1, Wellbore #1 V0
- ✕ RWF 521-8, Wellbore #1, Wellbore #1 V0
- ✕ (Offset) RWF 512-9, Wellbore #1, Wellbore #1 V0