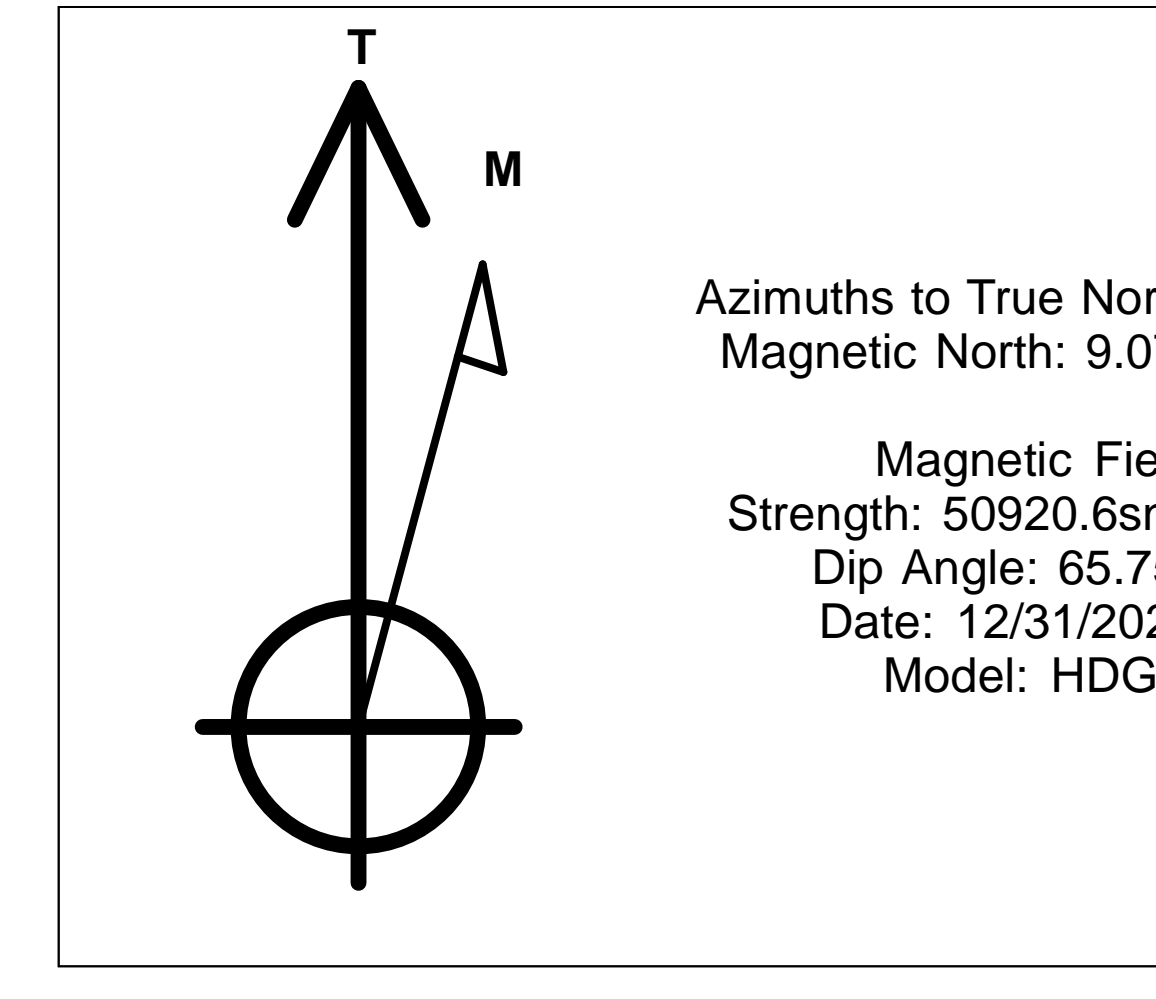


Fed 298-13-1 Pad  
 RG 21-24-298  
 Well RG 21-24-298 - Slot RG 21-24-298 A3, True North  
 Surveys

Terra Energy Partners, LLP  
 RG 21-24-298  
 Garfield County, CO (Nad 83)  
 RKB @ 30' @ 6697.00ft

PROJECT DETAILS: Garfield County, CO (Nad 83)

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



WELL DETAILS: RG 21-24-298

+N/-S	+E/-W	Northing	Ground Level:	Easting	6667.00	Latitude	Longitude	Slot
0.00	0.00	1754860.570	2203531.870	39.871752	-108.337959	RG 21-24-298 A3		

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP	7597.00	-1055.02	-2303.27	1753878.010	2201196.780	39.868855	-108.346165
BHL	1377.00	-1055.02	-2303.27	1753878.010	2201196.780	39.868855	-108.346165

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
298.96	299.00	1.62	243.41	-1.89	-3.78	4.22	4.23	First Survey @ 299 MD/ 298.96 TVD
11172.45	11616.00	4.61	240.66	-1079.77	-2389.47	2622.08	2637.30	PTB @ 11616 MD/ 11172.45 TVD

SLOTS

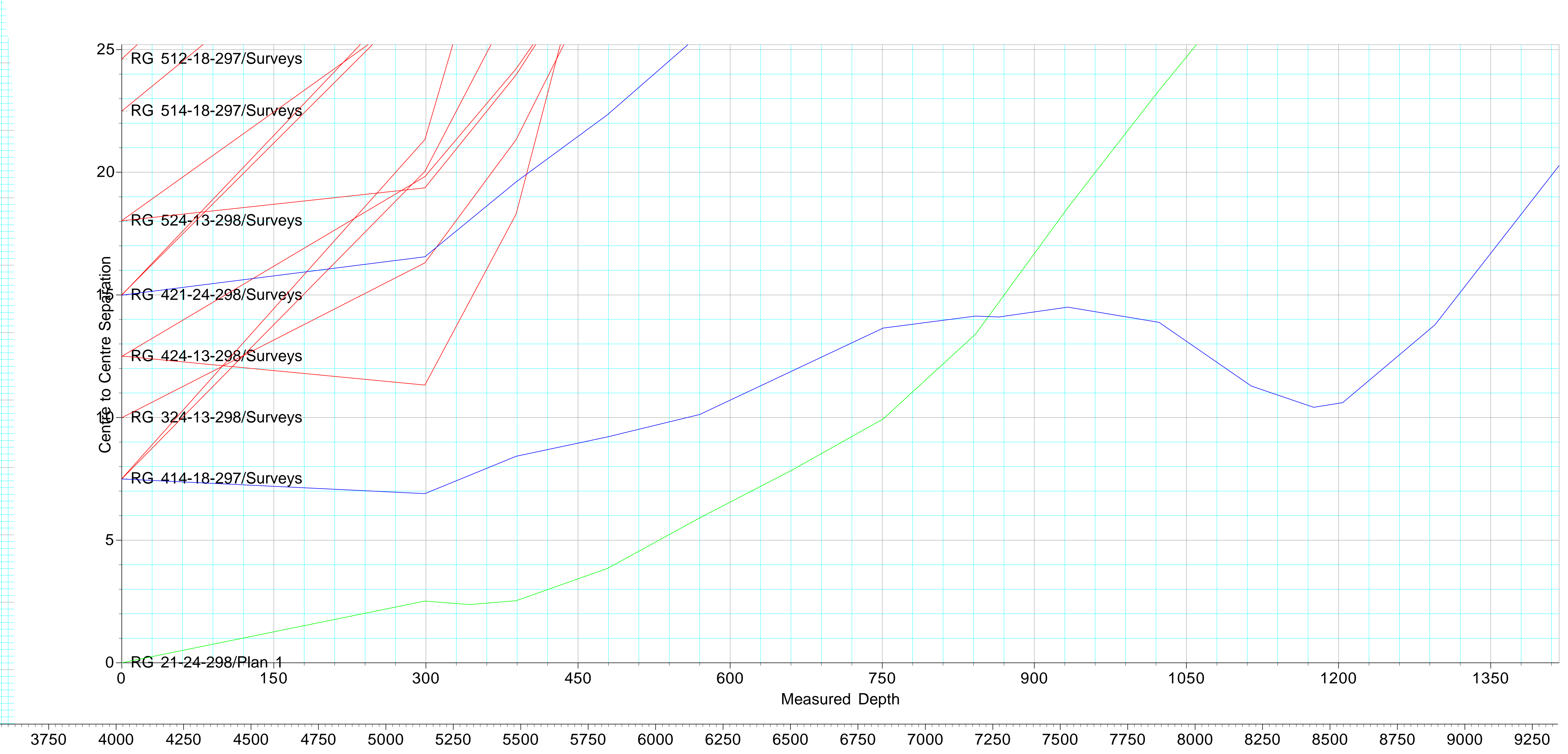
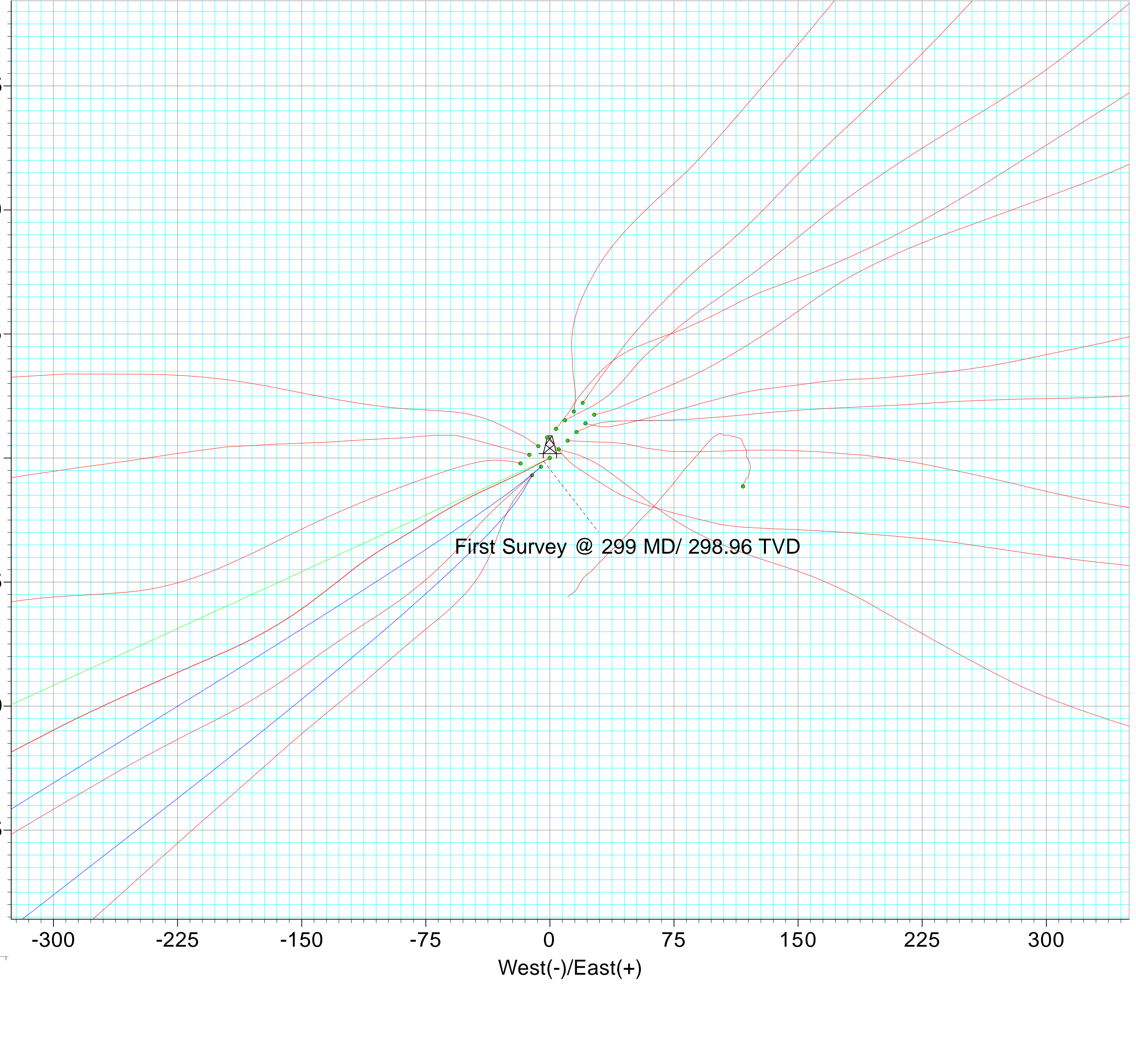
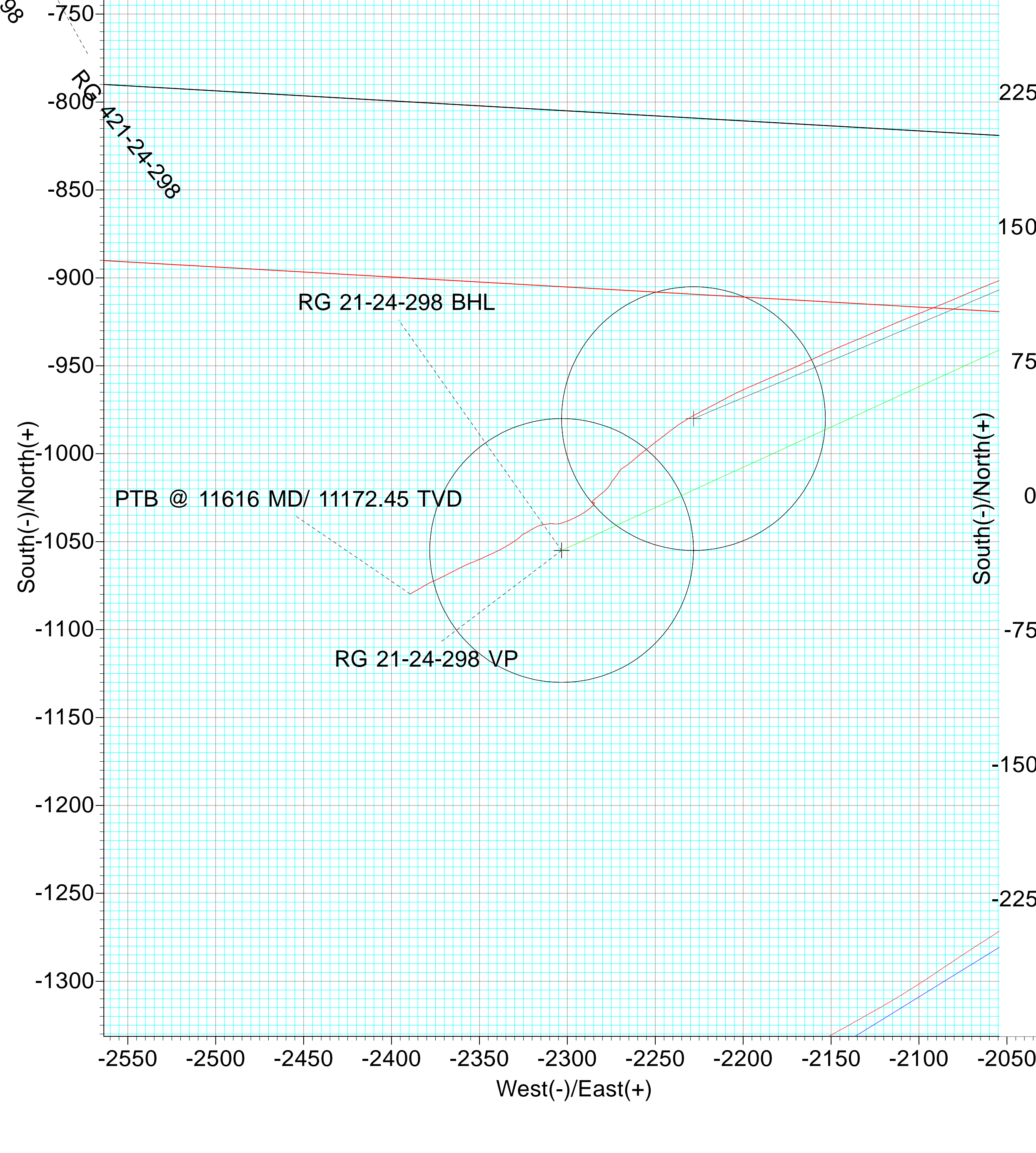
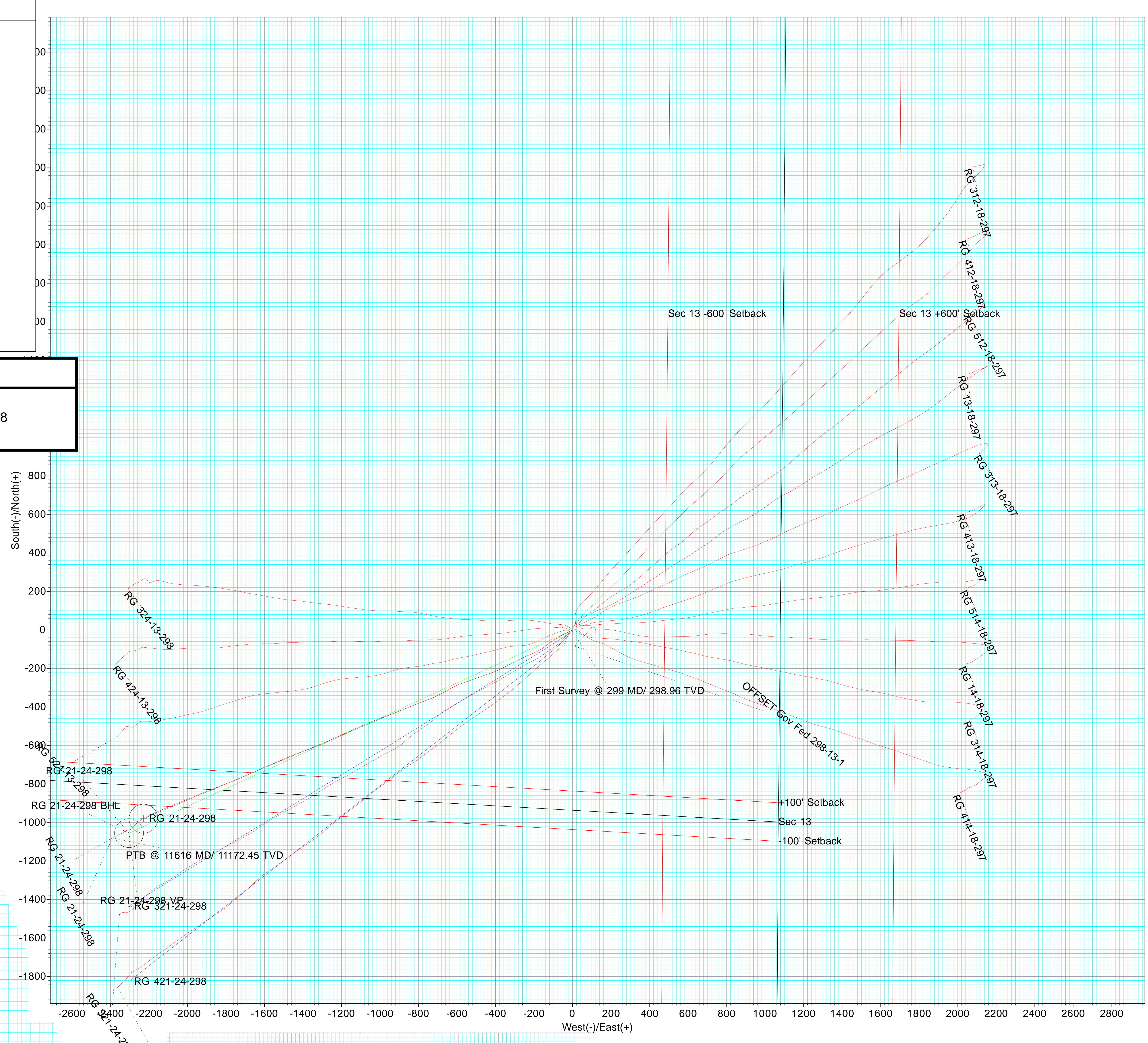
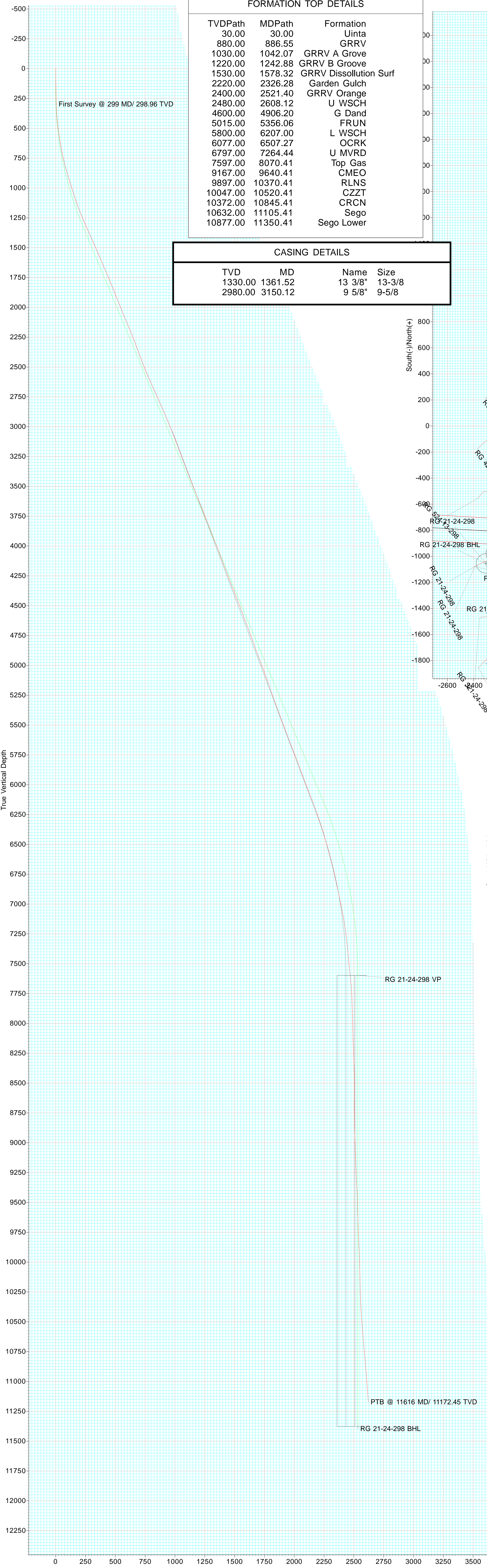
Slot Name	+N/-S	+E/-W	Northing	Easting
RG 13-18-297 B5	17.64	3.75	1754878.080	2203536.170
RG 14-18-297 A5	10.48	10.74	1754870.710	2203542.930
RG 21-24-298 A3	0.00	0.00	1754860.570	2203531.870
RG 312-18-297 B7	28.11	14.49	1754888.210	2203547.230
RG 313-18-297 A8	26.18	26.84	1754885.900	2203559.510
RG 314-18-297 B4	12.41	-1.61	1754873.020	2203530.650
RG 321-24-298 A2	-5.23	-5.37	1754855.510	2203526.340
RG 324-13-298 B3	7.16	-6.98	1754867.940	2203525.120
RG 412-18-297 B8	33.34	19.86	1754893.270	2203552.760
RG 413-18-297 A7	20.95	21.47	1754880.840	2203553.980
RG 414-18-297 A4	5.24	5.37	1754865.640	2203537.400
RG 421-24-298 A1	-10.47	-10.73	1754850.440	2203520.820
RG 424-13-298 B2	1.93	-12.35	1754862.880	2203519.590
RG 512-18-297 B6	22.87	9.12	1754883.140	2203541.700
RG 514-18-297 A6	15.71	16.10	1754875.770	2203548.450
RG 524-13-298 B1	-3.31	-17.72	1754857.810	2203514.060

FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation
30.00	30.00	Uinta
880.00	886.55	GRRV
1030.00	1042.07	GRRV A Grove
1220.00	1242.88	GRRV B Grove
1530.00	1578.32	GRRV Dissolution Surf
2220.00	2326.28	Garden Gulch
2400.00	2521.40	GRRV Orange
2480.00	2608.12	U WSCH
4600.00	4906.20	G Dand
5015.00	5356.06	FRUN
5800.00	6207.00	L WSCH
6077.00	6507.27	OCRK
6797.00	7264.44	U MVRD
7597.00	8070.41	Top Gas
9167.00	9640.41	CMEO
9897.00	10370.41	RLNS
10047.00	10520.41	CZTZ
10372.00	10845.41	CRCN
10632.00	11105.41	Sego
10877.00	11350.41	Sego Lower

CASING DETAILS

TVD	MD	Name	Size
1330.00	1361.52	13 3/8"	13-3/8
2980.00	3150.12	9 5/8"	9-5/8





# **Terra Energy Partners, LLP**

**Garfield County, CO (Nad 83)**

**Fed 298-13-1 Pad**

**RG 21-24-298 - Slot RG 21-24-298 A3**

**OWB**

**Survey: Surveys**

## **Standard Survey Report**

**18 July, 2024**



<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 21-24-298 - Slot RG 21-24-298 A3
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>TVD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Site:</b>	Fed 298-13-1 Pad	<b>MD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Well:</b>	RG 21-24-298	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	NN

<b>Project</b>	Garfield County, CO (Nad 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

<b>Site</b>	Fed 298-13-1 Pad				
<b>Site Position:</b>		<b>Northing:</b>	1,754,850.440 usft	<b>Latitude:</b>	39.871723
<b>From:</b>	Map	<b>Easting:</b>	2,203,520.820 usft	<b>Longitude:</b>	-108.337998
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-1.79 °

<b>Well</b>	RG 21-24-298 - Slot RG 21-24-298 A3					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	1,754,860.570 usft	<b>Latitude:</b>	39.871752
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,203,531.870 usft	<b>Longitude:</b>	-108.337960
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	6,697.00 ft	<b>Ground Level:</b>	6,667.00 ft

<b>Wellbore</b>	OWB				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	12/31/2023	9.07	65.75	50,921

<b>Design</b>	Surveys				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	245.39	

<b>Survey Program</b>	<b>Date</b>	6/22/2024			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
299.00	11,616.00	Surveys (OWB)	OWSG (REV5) MWD HDGM	OWSG MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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	
299.00	1.62	243.41	298.96	-1.89	-3.78	4.22	0.54	0.54	0.00	
<b>First Survey @ 299 MD/ 298.96 TVD</b>										
389.00	4.13	240.42	388.84	-4.06	-7.74	8.73	2.79	2.79	-3.32	
479.00	6.85	243.85	478.42	-8.03	-15.37	17.32	3.04	3.02	3.81	
570.00	8.74	244.73	568.57	-13.37	-26.50	29.66	2.08	2.08	0.97	
661.00	10.37	245.35	658.31	-19.74	-40.20	44.76	1.79	1.79	0.68	
751.00	12.48	241.65	746.52	-27.74	-56.12	62.57	2.48	2.34	-4.11	
842.00	15.33	237.61	834.85	-38.85	-74.93	84.31	3.31	3.13	-4.44	
933.00	17.92	239.37	922.04	-52.43	-97.14	110.15	2.90	2.85	1.93	
1,023.00	17.62	231.55	1,007.75	-67.96	-119.73	137.15	2.67	-0.33	-8.69	

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 21-24-298 - Slot RG 21-24-298 A3
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>TVD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Site:</b>	Fed 298-13-1 Pad	<b>MD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Well:</b>	RG 21-24-298	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	NN

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,114.00	19.16	232.51	1,094.11	-85.61	-142.36	165.08	1.72	1.69	1.05	
1,204.00	21.26	239.63	1,178.57	-102.85	-168.17	195.72	3.59	2.33	7.91	
1,295.00	22.98	246.75	1,262.89	-118.21	-198.73	229.91	3.50	1.89	7.82	
1,477.00	24.60	245.49	1,429.42	-147.95	-265.85	303.31	0.93	0.89	-0.69	
1,569.00	22.98	242.77	1,513.60	-164.12	-299.24	340.40	2.13	-1.76	-2.96	
1,660.00	23.51	242.24	1,597.21	-180.70	-331.10	376.27	0.63	0.58	-0.58	
1,750.00	23.37	242.33	1,679.79	-197.35	-362.79	412.02	0.16	-0.16	0.10	
1,840.00	22.93	247.34	1,762.55	-212.39	-394.78	447.37	2.24	-0.49	5.57	
1,932.00	21.84	250.68	1,847.62	-224.96	-427.47	482.32	1.82	-1.18	3.63	
2,023.00	22.01	250.41	1,932.04	-236.28	-459.51	516.17	0.22	0.19	-0.30	
2,114.00	22.23	250.24	2,016.34	-247.82	-491.78	550.30	0.25	0.24	-0.19	
2,204.00	22.80	250.06	2,099.48	-259.52	-524.19	584.65	0.64	0.63	-0.20	
2,295.00	22.80	251.12	2,183.37	-271.24	-557.45	619.77	0.45	0.00	1.16	
2,385.00	21.48	248.92	2,266.73	-282.81	-589.33	653.57	1.73	-1.47	-2.44	
2,476.00	19.99	242.06	2,351.85	-296.09	-618.62	685.73	3.13	-1.64	-7.54	
2,567.00	20.83	239.78	2,437.13	-311.52	-646.34	717.36	1.27	0.92	-2.51	
2,659.00	22.32	242.15	2,522.69	-327.92	-675.93	751.08	1.88	1.62	2.58	
2,749.00	23.77	244.09	2,605.50	-343.83	-707.35	786.28	1.82	1.61	2.16	
2,840.00	24.74	249.01	2,688.48	-358.66	-741.63	823.63	2.46	1.07	5.41	
2,931.00	24.03	249.09	2,771.36	-372.10	-776.72	861.12	0.78	-0.78	0.09	
3,022.00	23.37	248.04	2,854.69	-385.46	-810.77	897.64	0.86	-0.73	-1.15	
3,098.00	23.37	248.74	2,924.45	-396.56	-838.79	927.74	0.37	0.00	0.92	
3,239.00	21.57	246.28	3,054.74	-417.13	-888.59	981.58	1.44	-1.28	-1.74	
3,329.00	20.65	249.27	3,138.71	-429.40	-918.58	1,013.96	1.57	-1.02	3.32	
3,420.00	20.21	250.85	3,223.98	-440.24	-948.44	1,045.62	0.78	-0.48	1.74	
3,511.00	21.26	248.74	3,309.09	-451.38	-978.66	1,077.74	1.42	1.15	-2.32	
3,603.00	21.70	249.80	3,394.70	-463.30	-1,010.17	1,111.34	0.64	0.48	1.15	
3,694.00	20.74	248.39	3,479.53	-475.04	-1,040.94	1,144.21	1.19	-1.05	-1.55	
3,785.00	21.66	246.28	3,564.37	-487.73	-1,071.29	1,177.09	1.31	1.01	-2.32	
3,876.00	22.80	246.90	3,648.60	-501.41	-1,102.89	1,211.51	1.28	1.25	0.68	
3,968.00	21.22	244.35	3,733.90	-515.61	-1,134.30	1,245.98	2.01	-1.72	-2.77	
4,059.00	21.18	246.81	3,818.74	-529.21	-1,164.25	1,278.88	0.98	-0.04	2.70	
4,151.00	21.04	245.23	3,904.57	-542.68	-1,194.53	1,312.01	0.64	-0.15	-1.72	
4,243.00	22.01	245.84	3,990.15	-556.65	-1,225.25	1,345.77	1.08	1.05	0.66	
4,335.00	19.90	243.38	4,076.06	-570.73	-1,254.98	1,378.66	2.48	-2.29	-2.67	
4,426.00	20.56	246.02	4,161.45	-584.16	-1,283.43	1,410.12	1.24	0.73	2.90	
4,518.00	21.26	247.34	4,247.39	-597.15	-1,313.58	1,442.94	0.92	0.76	1.43	
4,609.00	21.22	246.46	4,332.21	-610.09	-1,343.91	1,475.89	0.35	-0.04	-0.97	
4,700.00	21.70	251.12	4,416.91	-622.11	-1,374.93	1,509.10	1.95	0.53	5.12	
4,792.00	21.44	250.76	4,502.47	-633.15	-1,406.89	1,542.77	0.32	-0.28	-0.39	
4,884.00	19.81	247.86	4,588.57	-644.57	-1,437.21	1,575.08	2.09	-1.77	-3.15	
4,976.00	21.31	248.92	4,674.71	-656.46	-1,467.25	1,607.35	1.68	1.63	1.15	
5,067.00	20.21	245.58	4,759.80	-668.90	-1,496.99	1,639.57	1.78	-1.21	-3.67	

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 21-24-298 - Slot RG 21-24-298 A3
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>TVD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Site:</b>	Fed 298-13-1 Pad	<b>MD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Well:</b>	RG 21-24-298	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	NN

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,159.00	19.37	246.28	4,846.37	-681.61	-1,525.43	1,670.72	0.95	-0.91	0.76	
5,251.00	20.74	247.60	4,932.78	-693.96	-1,554.46	1,702.25	1.57	1.49	1.43	
5,342.00	21.18	248.22	5,017.76	-706.20	-1,584.63	1,734.77	0.54	0.48	0.68	
5,434.00	18.89	243.38	5,104.20	-719.04	-1,613.38	1,766.26	3.07	-2.49	-5.26	
5,525.00	19.42	246.11	5,190.16	-731.77	-1,640.38	1,796.11	1.14	0.58	3.00	
5,617.00	19.77	246.72	5,276.83	-744.11	-1,668.66	1,826.96	0.44	0.38	0.66	
5,708.00	20.65	245.23	5,362.23	-756.92	-1,697.37	1,858.39	1.12	0.97	-1.64	
5,800.00	20.56	246.37	5,448.34	-770.19	-1,726.90	1,890.77	0.45	-0.10	1.24	
5,892.00	19.95	249.18	5,534.66	-782.24	-1,756.37	1,922.58	1.25	-0.66	3.05	
5,984.00	20.83	248.92	5,620.89	-793.70	-1,786.30	1,954.57	0.96	0.96	-0.28	
6,075.00	22.54	248.74	5,705.45	-805.85	-1,817.65	1,988.13	1.88	1.88	-0.20	
6,167.00	20.03	247.86	5,791.17	-818.18	-1,848.69	2,021.48	2.75	-2.73	-0.96	
6,258.00	20.34	248.57	5,876.58	-829.83	-1,877.84	2,052.84	0.43	0.34	0.78	
6,350.00	20.74	249.18	5,962.73	-841.47	-1,907.95	2,085.06	0.49	0.43	0.66	
6,443.00	21.40	246.63	6,049.51	-854.05	-1,938.92	2,118.46	1.21	0.71	-2.74	
6,534.00	21.26	247.25	6,134.28	-867.02	-1,969.38	2,151.54	0.29	-0.15	0.68	
6,625.00	19.68	248.83	6,219.53	-878.93	-1,998.88	2,183.33	1.84	-1.74	1.74	
6,717.00	18.98	246.99	6,306.34	-890.37	-2,027.10	2,213.75	1.01	-0.76	-2.00	
6,809.00	16.56	248.48	6,393.95	-901.03	-2,053.07	2,241.80	2.68	-2.63	1.62	
6,901.00	15.46	246.90	6,482.38	-910.65	-2,076.55	2,267.15	1.29	-1.20	-1.72	
6,992.00	15.20	248.48	6,570.14	-919.79	-2,098.80	2,291.19	0.54	-0.29	1.74	
7,084.00	14.01	246.28	6,659.17	-928.69	-2,120.22	2,314.37	1.43	-1.29	-2.39	
7,176.00	13.27	247.51	6,748.57	-937.21	-2,140.17	2,336.05	0.86	-0.80	1.34	
7,268.00	12.21	244.88	6,838.31	-945.38	-2,158.73	2,356.34	1.31	-1.15	-2.86	
7,360.00	11.77	246.46	6,928.30	-953.26	-2,176.15	2,375.45	0.60	-0.48	1.72	
7,452.00	11.86	246.90	7,018.35	-960.71	-2,193.44	2,394.28	0.14	0.10	0.48	
7,544.00	10.06	241.89	7,108.67	-968.21	-2,209.23	2,411.75	2.21	-1.96	-5.45	
7,636.00	8.04	242.50	7,199.52	-974.97	-2,222.02	2,426.20	2.20	-2.20	0.66	
7,727.00	6.50	239.08	7,289.79	-980.55	-2,232.09	2,437.67	1.76	-1.69	-3.76	
7,819.00	5.93	232.75	7,381.25	-986.11	-2,240.34	2,447.49	0.97	-0.62	-6.88	
7,910.00	5.75	232.13	7,471.77	-991.75	-2,247.68	2,456.51	0.21	-0.20	-0.68	
8,002.00	5.97	231.87	7,563.29	-997.53	-2,255.08	2,465.65	0.24	0.24	-0.28	
8,092.00	5.71	229.23	7,652.83	-1,003.35	-2,262.15	2,474.50	0.42	-0.29	-2.93	
8,184.00	3.20	238.55	7,744.54	-1,007.68	-2,267.81	2,481.45	2.83	-2.73	10.13	
8,276.00	1.88	207.87	7,836.45	-1,010.35	-2,270.71	2,485.19	2.01	-1.43	-33.35	
8,368.00	1.58	218.95	7,928.41	-1,012.67	-2,272.21	2,487.53	0.49	-0.33	12.04	
8,460.00	1.80	217.98	8,020.37	-1,014.79	-2,273.90	2,489.94	0.24	0.24	-1.05	
8,551.00	1.97	209.28	8,111.32	-1,017.29	-2,275.54	2,492.48	0.37	0.19	-9.56	
8,641.00	2.10	222.73	8,201.27	-1,019.85	-2,277.42	2,495.25	0.55	0.14	14.94	
8,732.00	2.54	231.43	8,292.19	-1,022.33	-2,280.12	2,498.74	0.62	0.48	9.56	
8,824.00	3.12	231.69	8,384.08	-1,025.15	-2,283.68	2,503.15	0.63	0.63	0.28	
8,916.00	1.05	207.70	8,476.02	-1,027.45	-2,286.04	2,506.25	2.39	-2.25	-26.08	
9,007.00	0.96	66.19	8,567.01	-1,027.88	-2,285.73	2,506.15	2.09	-0.10	-155.51	

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 21-24-298 - Slot RG 21-24-298 A3
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>TVD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Site:</b>	Fed 298-13-1 Pad	<b>MD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Well:</b>	RG 21-24-298	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	NN

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,099.00	0.48	114.80	8,659.00	-1,027.73	-2,284.67	2,505.13	0.80	-0.52	52.84	
9,190.00	0.61	221.06	8,750.00	-1,028.26	-2,284.65	2,505.32	0.96	0.14	116.77	
9,281.00	1.27	211.39	8,840.99	-1,029.48	-2,285.49	2,506.60	0.74	0.73	-10.63	
9,372.00	1.31	236.79	8,931.97	-1,030.91	-2,286.89	2,508.47	0.62	0.04	27.91	
9,464.00	1.66	233.01	9,023.93	-1,032.29	-2,288.83	2,510.81	0.39	0.38	-4.11	
9,555.00	2.28	238.37	9,114.88	-1,034.03	-2,291.42	2,513.89	0.71	0.68	5.89	
9,645.00	2.19	243.03	9,204.81	-1,035.75	-2,294.48	2,517.39	0.23	-0.10	5.18	
9,737.00	2.68	244.79	9,296.73	-1,037.46	-2,297.99	2,521.29	0.54	0.53	1.91	
9,828.00	3.38	252.88	9,387.60	-1,039.16	-2,302.48	2,526.08	0.90	0.77	8.89	
9,920.00	1.54	269.40	9,479.51	-1,039.97	-2,306.31	2,529.90	2.12	-2.00	17.96	
10,012.00	1.36	280.92	9,571.48	-1,039.78	-2,308.62	2,531.92	0.37	-0.20	12.52	
10,104.00	1.76	255.69	9,663.45	-1,039.92	-2,311.06	2,534.20	0.85	0.43	-27.42	
10,195.00	2.54	260.96	9,754.39	-1,040.58	-2,314.41	2,537.51	0.88	0.86	5.79	
10,290.00	2.90	240.66	9,849.28	-1,042.09	-2,318.58	2,541.94	1.08	0.38	-21.37	
10,384.00	2.24	238.11	9,943.19	-1,044.23	-2,322.21	2,546.13	0.71	-0.70	-2.71	
10,478.00	1.23	247.51	10,037.14	-1,045.58	-2,324.70	2,548.96	1.11	-1.07	10.00	
10,572.00	1.09	222.11	10,131.12	-1,046.63	-2,326.24	2,550.79	0.56	-0.15	-27.02	
10,666.00	1.32	232.58	10,225.10	-1,047.95	-2,327.70	2,552.66	0.34	0.24	11.14	
10,760.00	2.94	235.39	10,319.03	-1,049.98	-2,330.54	2,556.09	1.73	1.72	2.99	
10,854.00	3.74	239.70	10,412.87	-1,052.90	-2,335.17	2,561.52	0.89	0.85	4.59	
10,948.00	4.13	245.06	10,506.65	-1,055.87	-2,340.89	2,567.95	0.57	0.41	5.70	
11,042.00	4.65	245.32	10,600.38	-1,058.89	-2,347.42	2,575.15	0.55	0.55	0.28	
11,136.00	4.92	247.87	10,694.05	-1,062.00	-2,354.61	2,582.99	0.37	0.29	2.71	
11,231.00	4.88	242.86	10,788.70	-1,065.38	-2,361.98	2,591.09	0.45	-0.04	-5.27	
11,326.00	4.79	242.77	10,883.36	-1,069.04	-2,369.11	2,599.09	0.10	-0.09	-0.09	
11,421.00	4.61	246.02	10,978.05	-1,072.40	-2,376.12	2,606.87	0.34	-0.19	3.42	
11,515.00	4.26	237.93	11,071.76	-1,075.79	-2,382.53	2,614.11	0.76	-0.37	-8.61	
11,554.00	4.61	240.66	11,110.65	-1,077.33	-2,385.13	2,617.11	1.05	0.90	7.00	
11,616.00	4.61	240.66	11,172.45	-1,079.77	-2,389.47	2,622.08	0.00	0.00	0.00	
PTB @ 11616 MD/ 11172.45 TVD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
RG 21-24-298 VP	0.00	0.00	7,597.00	-1,055.02	-2,303.27	1,753,878.010	2,201,196.780	39.868855	-108.346165	
- hit/miss target										
- survey misses target center by 71.23ft at 8043.03ft MD (7604.11 TVD, -1000.17 N, -2258.38 E)										
- Circle (radius 75.00)										
RG 21-24-298 BHL	0.00	0.00	11,377.00	-1,055.02	-2,303.27	1,753,878.010	2,201,196.780	39.868855	-108.346165	
- survey misses target center by 223.35ft at 11616.00ft MD (11172.45 TVD, -1079.77 N, -2389.47 E)										
- Point										

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<b>Project:</b>	Garfield County, CO (Nad 83)	<b>TVD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Site:</b>	Fed 298-13-1 Pad	<b>MD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Well:</b>	RG 21-24-298	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	NN

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
299.00	298.96	-1.89	-3.78	First Survey @ 299 MD/ 298.96 TVD
11,616.00	11,172.45	-1,079.77	-2,389.47	PTB @ 11616 MD/ 11172.45 TVD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_