

WELL DETAILS: RG 424-13-298

+N/-S	+E/-W	Northing	Ground Level:	Easting	6667.00	Latitude	Longitude	Slot
0.00	0.00	1754862.880	2203519.590	39.871757	-108.338003	RG 424-13-298 B2		

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP	7697.00	-140.29	-2293.90	1754794.310	2201222.430	39.871372	-108.346176
BHL	1477.00	-140.29	-2293.90	1754794.310	2201222.430	39.871372	-108.346176

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
389.45	390.00	5.27	285.22	4.71	-17.29	16.98	17.92	First Survey @ 390 MD/ 389.45 TVD
11277.03	11652.00	4.96	231.25	-175.87	-2357.55	2363.89	2397.82	PTB @11652 MD/ 11277.03 TVD

SLOTS

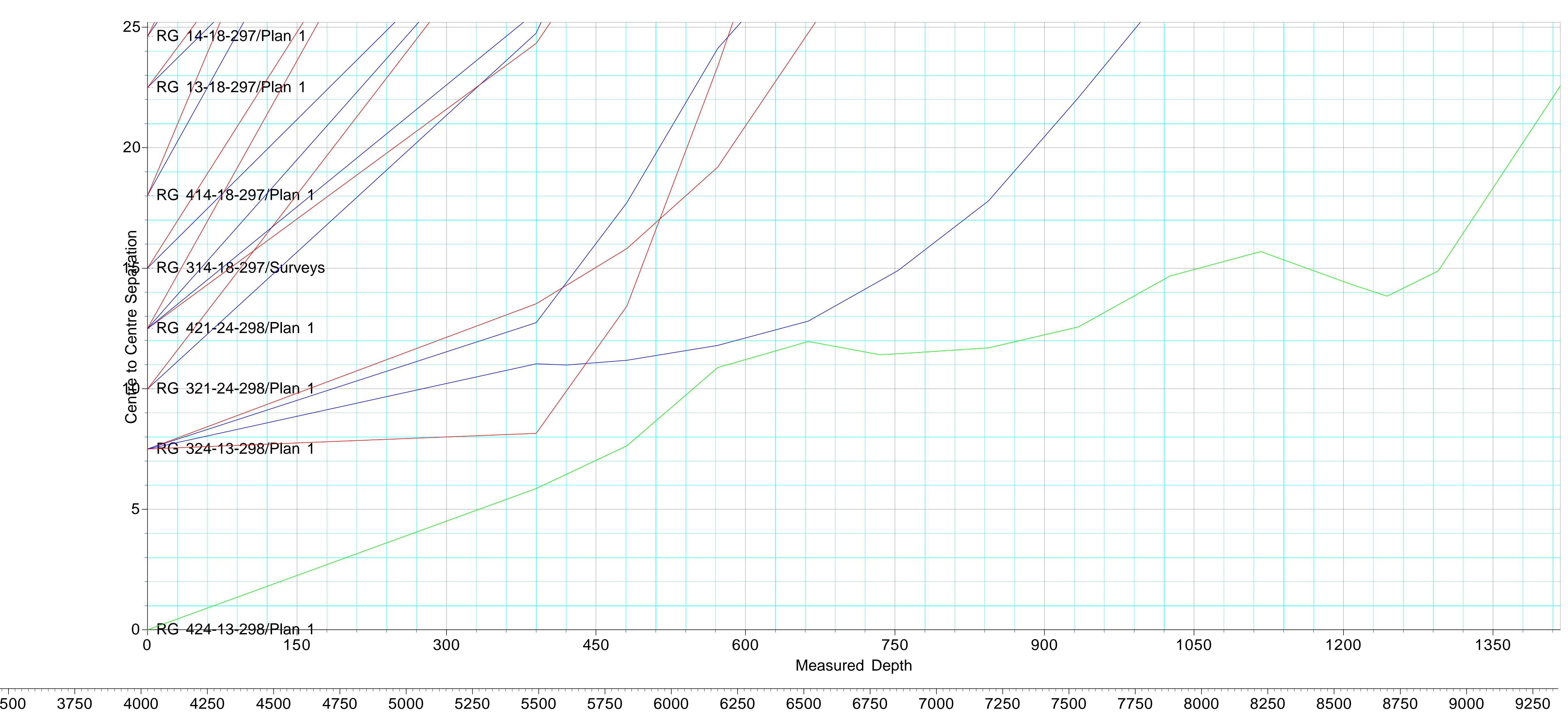
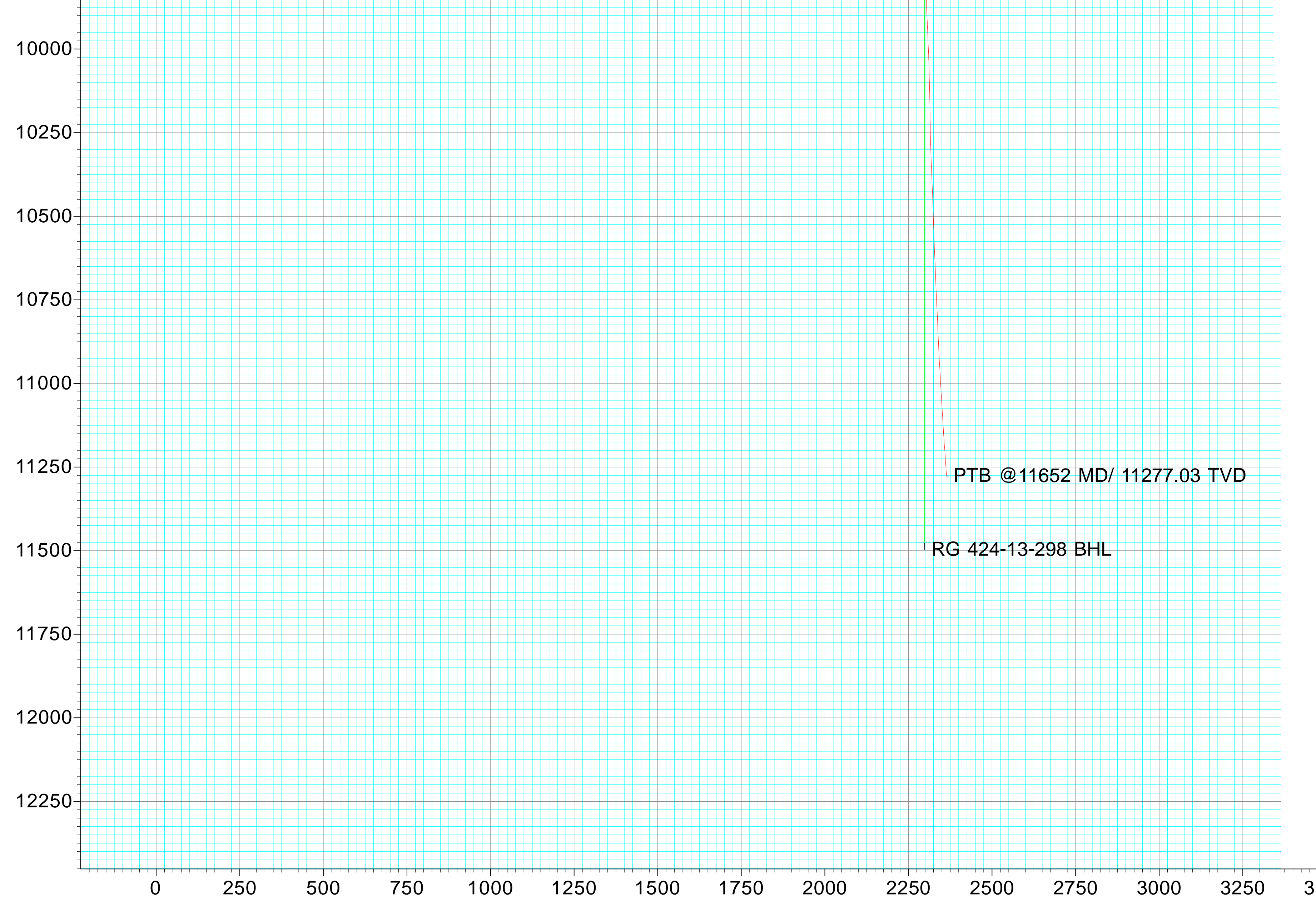
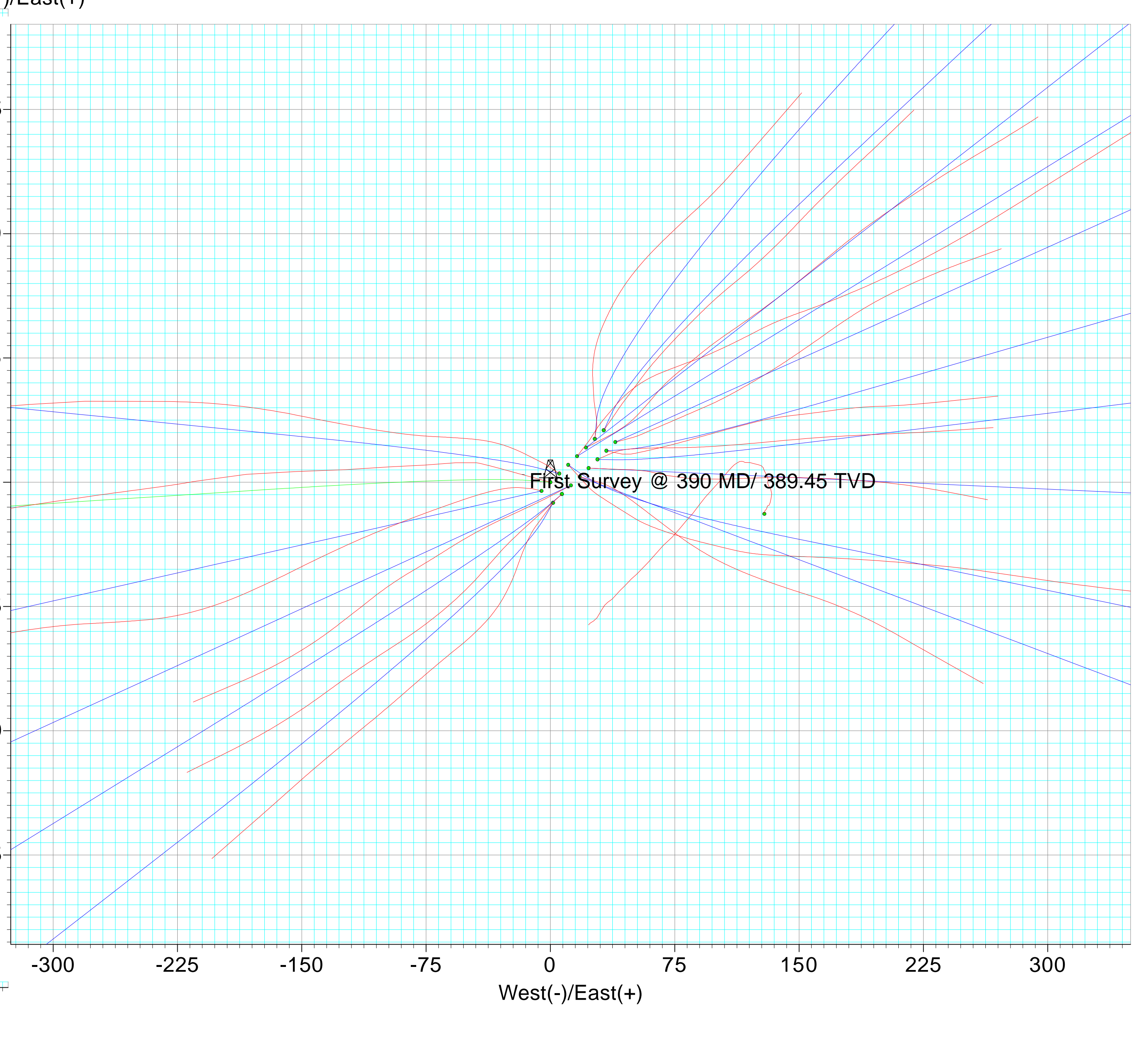
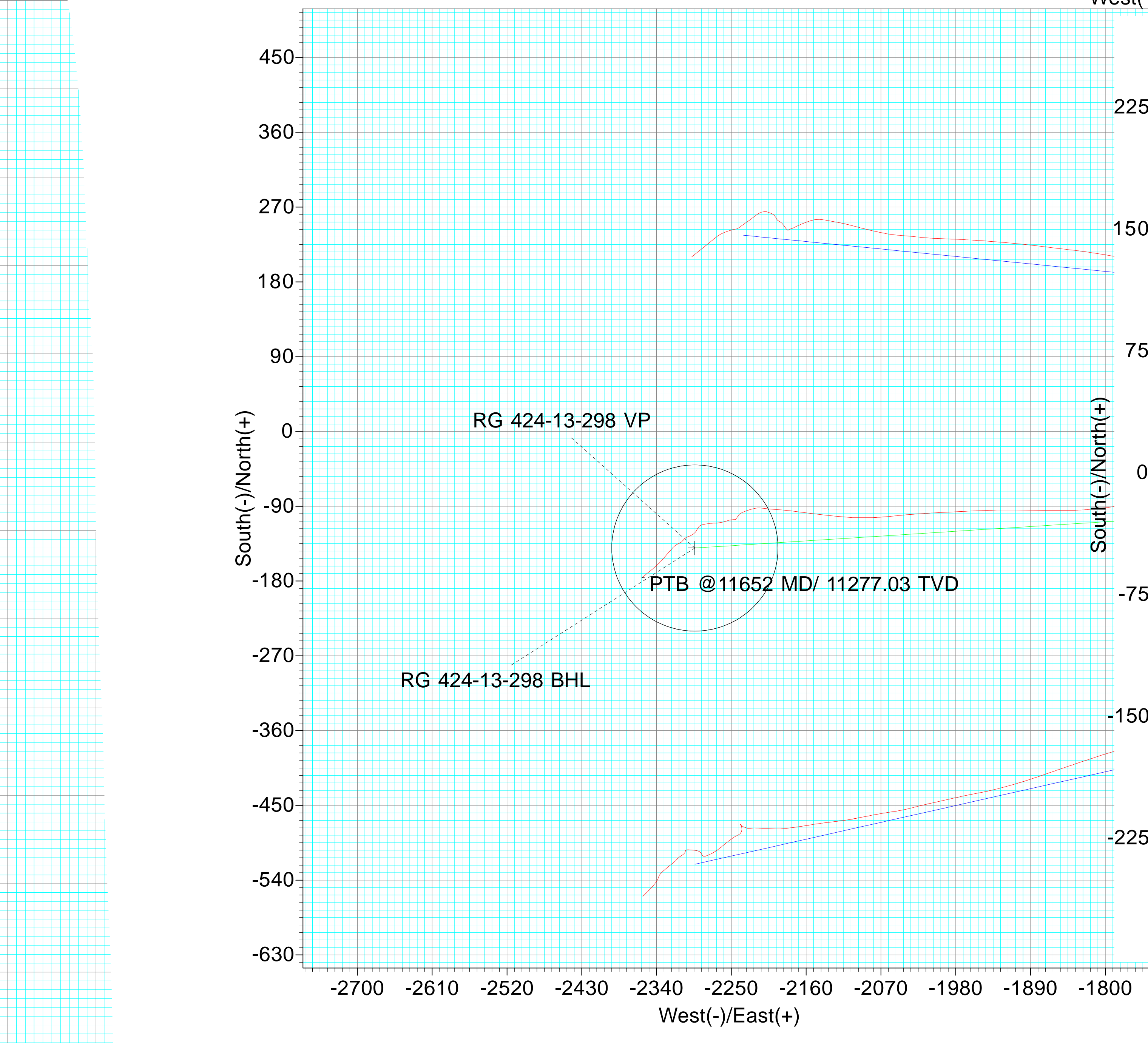
Slot Name	+N/-S	+E/-W	Northing	Easting
RG 13-18-297 B5	15.71	16.10	1754878.080	2203536.170
RG 14-18-297 A5	8.56	23.08	1754870.710	2203542.930
RG 21-24-298 A3	-1.93	12.35	1754860.570	2203531.870
RG 312-18-297 B7	26.18	26.84	1754888.210	2203547.230
RG 313-18-297 A8	24.26	39.18	1754885.900	2203559.510
RG 314-18-297 B4	10.48	10.74	1754873.020	2203530.650
RG 321-24-298 A2	-7.16	6.98	1754855.510	2203526.340
RG 324-13-298 B3	5.23	5.37	1754867.940	2203525.120
RG 412-18-297 B8	31.41	32.20	1754893.270	2203552.760
RG 413-18-297 A7	19.03	33.81	1754880.840	2203553.980
RG 414-18-297 A4	3.31	17.72	1754865.640	2203537.400
RG 421-24-298 A1	-12.40	1.62	1754850.440	2203520.820
RG 424-13-298 B2	0.00	0.00	1754862.880	2203519.590
RG 512-18-297 B6	20.94	21.47	1754883.140	2203541.700
RG 514-18-297 A6	13.79	28.44	1754875.770	2203548.450
RG 524-13-298 B1	-5.24	-5.37	1754857.810	2203514.060

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
30.00	30.00	Uinta
880.00	889.12	GRRV
1030.00	1045.90	GRRV A Grove
1220.00	1247.48	GRRV B Groove
1530.00	1576.79	GRRV Dissolution Surf
2220.00	2309.76	Garden Gulch
2400.00	2500.97	GRRV Orange
2480.00	2585.96	U WSCH
4600.00	4837.99	G Dand
5015.00	5278.84	FRUN
5800.00	6112.73	L WSCH
6177.00	6513.21	OCRK
6897.00	7267.44	U MVRD
7697.00	8073.41	Top Gas
9267.00	9643.41	CMEO
9997.00	10373.41	RLNS
10142.00	10518.41	CRCN
10147.00	10523.41	CZT
10732.00	11108.41	Sego
10977.00	11353.41	Sego Lower

CASING DETAILS

TVD	MD	Name	Size
1330.00	1364.33	13 3/8"	13-3/8
2980.00	3117.10	9 5/8"	9-5/8





## **Terra Energy Partners, LLP**

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

**Fed 298-13-1 Pad**

**RG 424-13-298 - Slot RG 424-13-298 B2**

**OWB**

**Design: Surveys**

## **Standard Survey Report**

**23 April, 2024**



<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 424-13-298 - Slot RG 424-13-298 B2
<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 424-13-298	<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 424-13-298 - Slot RG 424-13-298 B2					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	1,754,862.880 usft	<b>Latitude:</b>	39.871757
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,203,519.590 usft	<b>Longitude:</b>	-108.338004
<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	266.50	

<b>Survey Program</b>	<b>Date</b>	3/29/2024			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
390.00	11,652.00	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	
390.00	5.27	285.22	389.45	4.71	-17.29	16.98	1.35	1.35	0.00	
<b>First Survey @ 390 MD/ 389.45 TVD</b>										
481.00	7.99	285.57	479.83	7.50	-27.42	26.91	2.99	2.99	0.38	
572.00	9.71	283.99	569.75	11.05	-40.96	40.21	1.91	1.89	-1.74	
663.00	11.11	262.81	659.28	11.81	-57.11	56.29	4.45	1.54	-23.27	
753.00	13.00	268.08	747.29	10.39	-75.84	75.06	2.43	2.10	5.86	
844.00	15.07	266.15	835.57	9.25	-97.87	97.12	2.33	2.27	-2.12	
934.00	17.88	266.59	921.87	7.64	-123.34	122.64	3.13	3.12	0.49	
1,026.00	19.46	268.96	1,009.03	6.52	-152.76	152.08	1.90	1.72	2.58	
1,117.00	20.03	264.65	1,094.68	4.80	-183.44	182.80	1.72	0.63	-4.74	

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 424-13-298 - Slot RG 424-13-298 B2
<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 424-13-298	<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)
1,207.00	19.37	259.91	1,179.42	0.74	-213.48	213.04	1.92	-0.73	-5.27
1,295.00	22.80	262.63	1,261.52	-4.00	-244.77	244.56	4.05	3.90	3.09
1,477.00	24.52	261.14	1,428.21	-14.34	-317.06	317.35	1.00	0.95	-0.82
1,568.00	23.99	264.39	1,511.18	-19.06	-354.13	354.64	1.58	-0.58	3.57
1,660.00	23.90	266.06	1,595.27	-22.17	-391.34	391.96	0.74	-0.10	1.82
1,751.00	22.28	266.06	1,678.97	-24.62	-426.94	427.65	1.78	-1.78	0.00
1,841.00	21.26	266.85	1,762.55	-26.69	-460.25	461.03	1.18	-1.13	0.88
1,932.00	20.78	266.15	1,847.50	-28.68	-492.83	493.67	0.60	-0.53	-0.77
2,023.00	21.00	264.83	1,932.52	-31.23	-525.18	526.11	0.57	0.24	-1.45
2,113.00	20.87	262.89	2,016.58	-34.67	-557.15	558.23	0.78	-0.14	-2.16
2,204.00	21.22	260.61	2,101.51	-39.36	-589.48	590.79	0.98	0.38	-2.51
2,294.00	20.96	261.22	2,185.48	-44.48	-621.46	623.02	0.38	-0.29	0.68
2,385.00	19.64	262.81	2,270.83	-48.88	-652.72	654.49	1.57	-1.45	1.75
2,475.00	19.07	264.83	2,355.74	-52.10	-682.37	684.28	0.98	-0.63	2.24
2,566.00	19.73	271.95	2,441.58	-52.91	-712.53	714.43	2.70	0.73	7.82
2,657.00	18.94	265.44	2,527.46	-53.56	-742.61	744.49	2.52	-0.87	-7.15
2,749.00	20.56	268.78	2,614.05	-55.10	-773.65	775.57	2.15	1.76	3.63
2,840.00	22.32	269.13	2,698.75	-55.70	-806.90	808.80	1.94	1.93	0.38
2,932.00	21.04	265.71	2,784.24	-57.20	-840.84	842.76	1.95	-1.39	-3.72
3,023.00	19.86	268.52	2,869.51	-58.82	-872.58	874.55	1.69	-1.30	3.09
3,095.00	18.98	271.51	2,937.41	-58.83	-896.52	898.44	1.84	-1.22	4.15
3,245.00	16.30	266.23	3,080.36	-59.57	-941.92	943.80	2.08	-1.79	-3.52
3,336.00	16.69	269.22	3,167.61	-60.59	-967.73	969.62	1.03	0.43	3.29
3,427.00	18.80	266.32	3,254.28	-61.71	-995.43	997.34	2.51	2.32	-3.19
3,518.00	19.59	267.82	3,340.22	-63.23	-1,025.31	1,027.25	1.02	0.87	1.65
3,610.00	19.29	272.30	3,426.98	-63.20	-1,055.90	1,057.79	1.65	-0.33	4.87
3,701.00	19.77	271.59	3,512.75	-62.17	-1,086.31	1,088.08	0.59	0.53	-0.78
3,793.00	21.13	271.77	3,598.94	-61.23	-1,118.44	1,120.09	1.48	1.48	0.20
3,884.00	19.77	271.07	3,684.21	-60.44	-1,150.22	1,151.76	1.52	-1.49	-0.77
3,975.00	21.31	270.28	3,769.42	-60.07	-1,182.14	1,183.61	1.72	1.69	-0.87
4,067.00	18.63	266.32	3,855.88	-60.93	-1,213.53	1,214.99	3.26	-2.91	-4.30
4,159.00	19.95	267.46	3,942.72	-62.57	-1,243.88	1,245.38	1.49	1.43	1.24
4,251.00	21.40	270.72	4,028.79	-63.05	-1,276.34	1,277.81	2.01	1.58	3.54
4,343.00	20.25	269.75	4,114.78	-62.91	-1,309.05	1,310.45	1.30	-1.25	-1.05
4,434.00	19.46	268.43	4,200.37	-63.40	-1,339.95	1,341.32	1.00	-0.87	-1.45
4,525.00	20.69	268.17	4,285.84	-64.32	-1,371.17	1,372.54	1.36	1.35	-0.29
4,617.00	18.80	266.59	4,372.43	-65.73	-1,402.22	1,403.61	2.13	-2.05	-1.72
4,709.00	20.83	268.96	4,458.98	-66.90	-1,433.37	1,434.79	2.37	2.21	2.58
4,800.00	19.33	267.90	4,544.45	-67.75	-1,464.60	1,466.01	1.70	-1.65	-1.16
4,891.00	17.66	264.48	4,630.75	-69.63	-1,493.40	1,494.86	2.19	-1.84	-3.76
4,983.00	18.54	265.27	4,718.19	-72.18	-1,521.86	1,523.43	0.99	0.96	0.86
5,074.00	19.68	270.36	4,804.18	-73.27	-1,551.61	1,553.19	2.22	1.25	5.59
5,166.00	20.25	269.57	4,890.65	-73.30	-1,583.02	1,584.54	0.69	0.62	-0.86

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<b>Site:</b>	Fed 298-13-1 Pad	<b>MD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Well:</b>	RG 424-13-298	<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)	
5,258.00	18.89	268.96	4,977.34	-73.69	-1,613.83	1,615.32	1.49	-1.48	-0.66	
5,350.00	19.24	267.82	5,064.29	-74.53	-1,643.87	1,645.35	0.56	0.38	-1.24	
5,442.00	16.47	263.68	5,151.85	-76.55	-1,671.99	1,673.54	3.31	-3.01	-4.50	
5,533.00	15.42	264.48	5,239.35	-79.13	-1,696.85	1,698.52	1.18	-1.15	0.88	
5,625.00	17.09	263.42	5,327.67	-81.86	-1,722.46	1,724.24	1.84	1.82	-1.15	
5,715.00	18.85	262.54	5,413.28	-85.26	-1,750.01	1,751.95	1.98	1.96	-0.98	
5,807.00	20.47	262.37	5,499.91	-89.33	-1,780.69	1,782.83	1.76	1.76	-0.18	
5,899.00	20.56	263.77	5,586.08	-93.21	-1,812.70	1,815.01	0.54	0.10	1.52	
5,990.00	20.12	270.10	5,671.41	-94.92	-1,844.24	1,846.59	2.46	-0.48	6.96	
6,082.00	20.69	270.19	5,757.64	-94.84	-1,876.31	1,878.60	0.62	0.62	0.10	
6,173.00	20.34	270.72	5,842.87	-94.59	-1,908.20	1,910.42	0.44	-0.38	0.58	
6,265.00	20.34	267.99	5,929.13	-94.95	-1,940.17	1,942.35	1.03	0.00	-2.97	
6,356.00	18.67	267.29	6,014.91	-96.19	-1,970.53	1,972.73	1.85	-1.84	-0.77	
6,448.00	18.54	267.02	6,102.10	-97.65	-1,999.84	2,002.08	0.17	-0.14	-0.29	
6,540.00	17.49	265.79	6,189.59	-99.42	-2,028.24	2,030.53	1.21	-1.14	-1.34	
6,632.00	16.43	263.95	6,277.59	-101.81	-2,054.97	2,057.35	1.29	-1.15	-2.00	
6,723.00	15.68	267.29	6,365.04	-103.75	-2,080.05	2,082.50	1.31	-0.82	3.67	
6,815.00	14.98	273.09	6,453.77	-103.69	-2,104.34	2,106.75	1.83	-0.76	6.30	
6,906.00	12.74	276.96	6,542.12	-101.84	-2,126.05	2,128.30	2.66	-2.46	4.25	
6,998.00	12.30	275.73	6,631.93	-99.64	-2,145.87	2,147.95	0.56	-0.48	-1.34	
7,090.00	10.01	278.45	6,722.19	-97.48	-2,163.53	2,165.45	2.55	-2.49	2.96	
7,182.00	8.21	276.43	6,813.02	-95.57	-2,177.97	2,179.74	1.99	-1.96	-2.20	
7,273.00	5.97	274.85	6,903.32	-94.44	-2,189.14	2,190.82	2.47	-2.46	-1.74	
7,365.00	5.18	272.74	6,994.89	-93.84	-2,198.06	2,199.69	0.89	-0.86	-2.29	
7,456.00	4.13	277.66	7,085.58	-93.21	-2,205.41	2,206.99	1.23	-1.15	5.41	
7,547.00	3.12	275.20	7,176.40	-92.55	-2,211.12	2,212.65	1.12	-1.11	-2.70	
7,638.00	2.37	275.37	7,267.30	-92.15	-2,215.46	2,216.96	0.82	-0.82	0.19	
7,730.00	2.59	262.54	7,359.21	-92.24	-2,219.42	2,220.91	0.65	0.24	-13.95	
7,822.00	2.59	256.21	7,451.12	-93.00	-2,223.50	2,225.03	0.31	0.00	-6.88	
7,913.00	3.20	253.84	7,542.00	-94.20	-2,227.93	2,229.53	0.68	0.67	-2.60	
8,005.00	3.20	248.92	7,633.86	-95.84	-2,232.80	2,234.48	0.30	0.00	-5.35	
8,096.00	3.12	244.52	7,724.72	-97.82	-2,237.40	2,239.20	0.28	-0.09	-4.84	
8,187.00	2.28	219.30	7,815.62	-100.28	-2,240.78	2,242.73	1.58	-0.92	-27.71	
8,277.00	2.50	214.47	7,905.54	-103.29	-2,243.03	2,245.15	0.33	0.24	-5.37	
8,369.00	1.27	217.81	7,997.49	-105.75	-2,244.79	2,247.06	1.34	-1.34	3.63	
8,460.00	0.48	322.66	8,088.48	-106.24	-2,245.64	2,247.94	1.61	-0.87	115.22	
8,552.00	0.79	265.97	8,180.48	-105.98	-2,246.50	2,248.78	0.72	0.34	-61.62	
8,643.00	1.23	261.05	8,271.46	-106.17	-2,248.10	2,250.38	0.49	0.48	-5.41	
8,735.00	2.02	263.60	8,363.43	-106.51	-2,250.68	2,252.99	0.86	0.86	2.77	
8,827.00	1.75	253.40	8,455.38	-107.09	-2,253.64	2,255.97	0.47	-0.29	-11.09	
8,919.00	1.62	248.83	8,547.34	-107.96	-2,256.20	2,258.58	0.20	-0.14	-4.97	
9,011.00	2.15	257.27	8,639.29	-108.81	-2,259.09	2,261.52	0.65	0.58	9.17	
9,103.00	2.90	260.43	8,731.20	-109.58	-2,263.07	2,265.54	0.83	0.82	3.43	

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 424-13-298 - Slot RG 424-13-298 B2
<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 424-13-298	<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)	
9,195.00	1.97	261.40	8,823.11	-110.20	-2,266.93	2,269.43	1.01	-1.01	1.05	
9,287.00	1.18	277.66	8,915.08	-110.31	-2,269.43	2,271.94	0.98	-0.86	17.67	
9,379.00	1.58	263.86	9,007.05	-110.32	-2,271.63	2,274.13	0.56	0.43	-15.00	
9,470.00	1.84	265.62	9,098.01	-110.57	-2,274.34	2,276.85	0.29	0.29	1.93	
9,561.00	2.15	261.58	9,188.96	-110.93	-2,277.48	2,280.01	0.37	0.34	-4.44	
9,653.00	2.54	260.34	9,280.88	-111.52	-2,281.20	2,283.75	0.43	0.42	-1.35	
9,744.00	2.72	255.69	9,371.78	-112.40	-2,285.28	2,287.88	0.31	0.20	-5.11	
9,836.00	2.59	221.94	9,463.69	-114.48	-2,288.78	2,291.50	1.68	-0.14	-36.68	
9,927.00	3.29	208.23	9,554.57	-118.31	-2,291.39	2,294.34	1.09	0.77	-15.07	
10,017.00	2.24	224.57	9,644.47	-121.84	-2,293.85	2,297.01	1.45	-1.17	18.16	
10,110.00	1.97	237.58	9,737.40	-123.99	-2,296.47	2,299.76	0.59	-0.29	13.99	
10,201.00	2.10	245.79	9,828.35	-125.51	-2,299.32	2,302.69	0.35	0.14	9.02	
10,292.00	2.59	250.24	9,919.27	-126.89	-2,302.77	2,306.22	0.57	0.54	4.89	
10,384.00	2.90	225.80	10,011.17	-129.22	-2,306.40	2,309.98	1.30	0.34	-26.57	
10,475.00	1.97	220.00	10,102.08	-132.02	-2,309.05	2,312.81	1.06	-1.02	-6.37	
10,566.00	0.83	244.00	10,193.06	-133.51	-2,310.65	2,314.49	1.38	-1.25	26.37	
10,658.00	1.75	244.88	10,285.03	-134.40	-2,312.52	2,316.41	1.00	1.00	0.96	
10,750.00	2.63	240.83	10,376.96	-136.02	-2,315.64	2,319.62	0.97	0.96	-4.40	
10,844.00	2.72	226.16	10,470.86	-138.62	-2,319.13	2,323.26	0.73	0.10	-15.61	
10,939.00	2.94	220.44	10,565.75	-142.03	-2,322.33	2,326.67	0.38	0.23	-6.02	
11,033.00	3.34	221.94	10,659.60	-145.91	-2,325.73	2,330.30	0.43	0.43	1.60	
11,127.00	3.64	220.53	10,753.43	-150.21	-2,329.50	2,334.32	0.33	0.32	-1.50	
11,221.00	3.38	220.88	10,847.25	-154.57	-2,333.25	2,338.33	0.28	-0.28	0.37	
11,315.00	4.17	226.51	10,941.05	-159.02	-2,337.54	2,342.89	0.93	0.84	5.99	
11,409.00	4.13	229.23	11,034.80	-163.58	-2,342.59	2,348.20	0.21	-0.04	2.89	
11,503.00	4.35	230.46	11,128.55	-168.06	-2,347.90	2,353.78	0.25	0.23	1.31	
11,592.00	4.96	231.25	11,217.25	-172.62	-2,353.50	2,359.65	0.69	0.69	0.89	
11,652.00	4.96	231.25	11,277.03	-175.87	-2,357.55	2,363.89	0.00	0.00	0.00	
PTB @11652 MD/ 11277.03 TVD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
RG 424-13-298 VP	0.00	0.00	7,697.00	-140.29	-2,293.90	1,754,794.310	2,201,222.430	39.871372	-108.346176	
- actual wellpath misses target center by 72.06ft at 8072.11ft MD (7700.86 TVD, -97.27 N, -2236.22 E)										
- Circle (radius 100.00)										
RG 424-13-298 BHL	0.00	0.00	11,477.00	-140.29	-2,293.90	1,754,794.310	2,201,222.430	39.871372	-108.346176	
- actual wellpath misses target center by 212.85ft at 11652.00ft MD (11277.03 TVD, -175.87 N, -2357.55 E)										
- Point										

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 424-13-298 - Slot RG 424-13-298 B2
<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 424-13-298	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys	<b>Database:</b>	NN

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
390.00	389.45	4.71	-17.29	First Survey @ 390 MD/ 389.45 TVD
11,652.00	11,277.03	-175.87	-2,357.55	PTB @11652 MD/ 11277.03 TVD

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