

WELL DETAILS: RG 413-18-297

+N/-S	+E/-W	Northing	Ground Level:	Easting	6667.00	Latitude	Longitude	Slot
0.00	0.00	1754880.840	2203553.980	2203553.980	39.871809	-108.337883	RG 413-18-297 A7	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP	8047.00	591.98	2078.34	1755407.620	2205649.790	39.873434	-108.330478
BHL	11827.00	591.98	2078.34	1755407.620	2205649.790	39.873434	-108.330478

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
297.80	298.00	3.60	101.97	-1.94	9.16	8.27	9.36	First Survey @ 298 MD/ 297.8 TVD
11647.60	11962.00	3.73	250.94	589.06	2015.86	2100.11	2346.07	PTB @ 11962 MD/ 11647.6 TVD

SLOTS

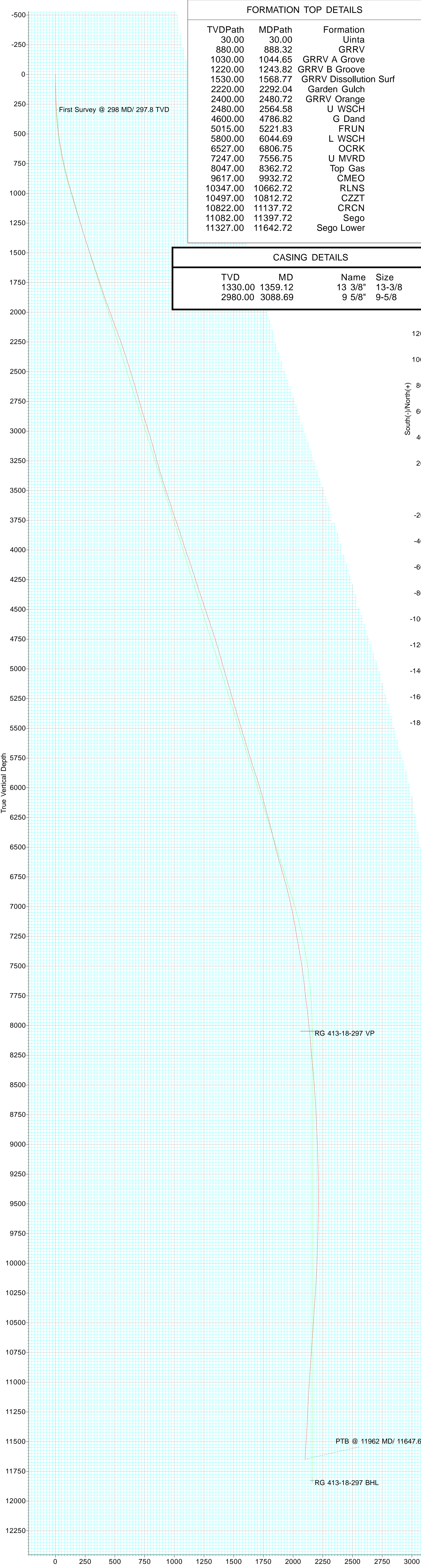
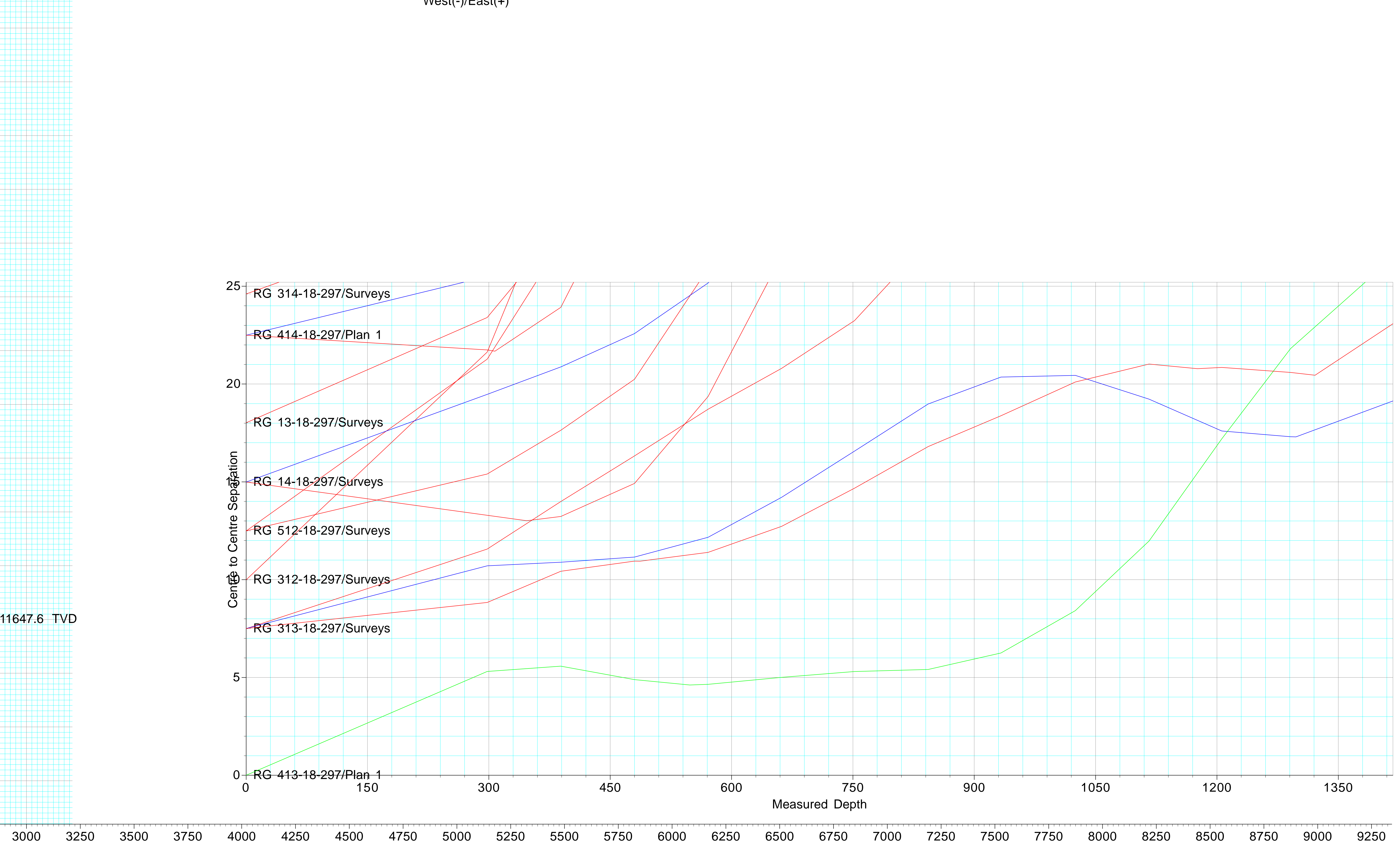
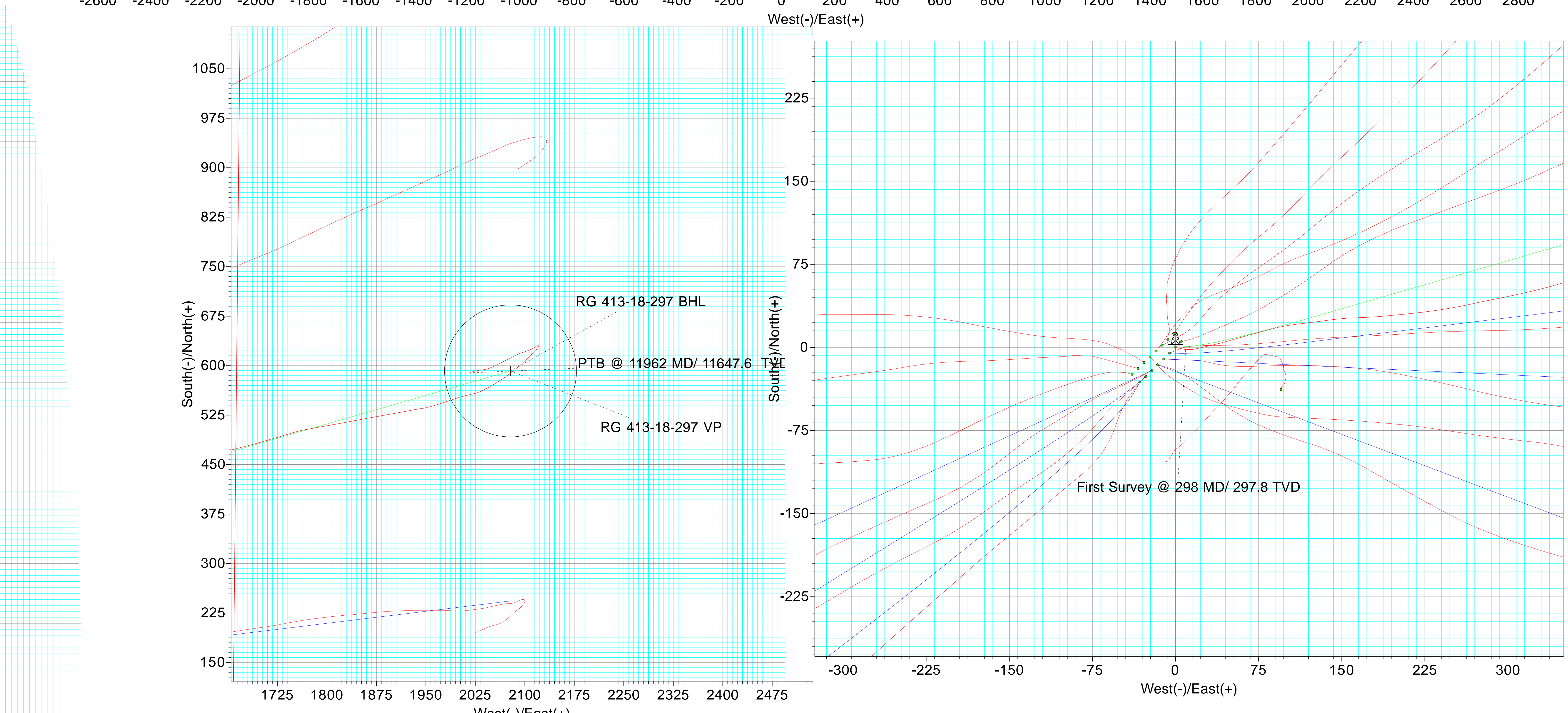
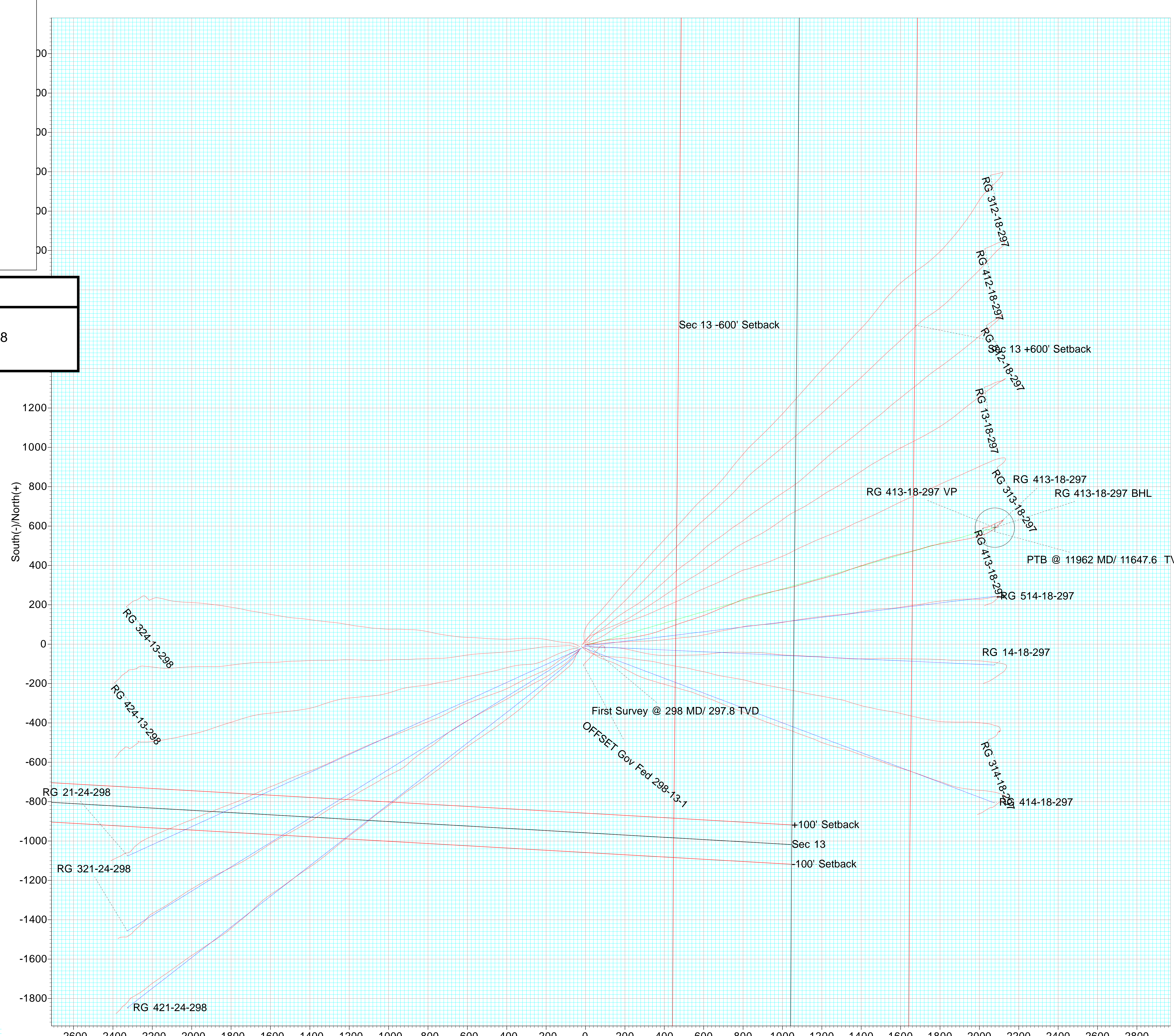
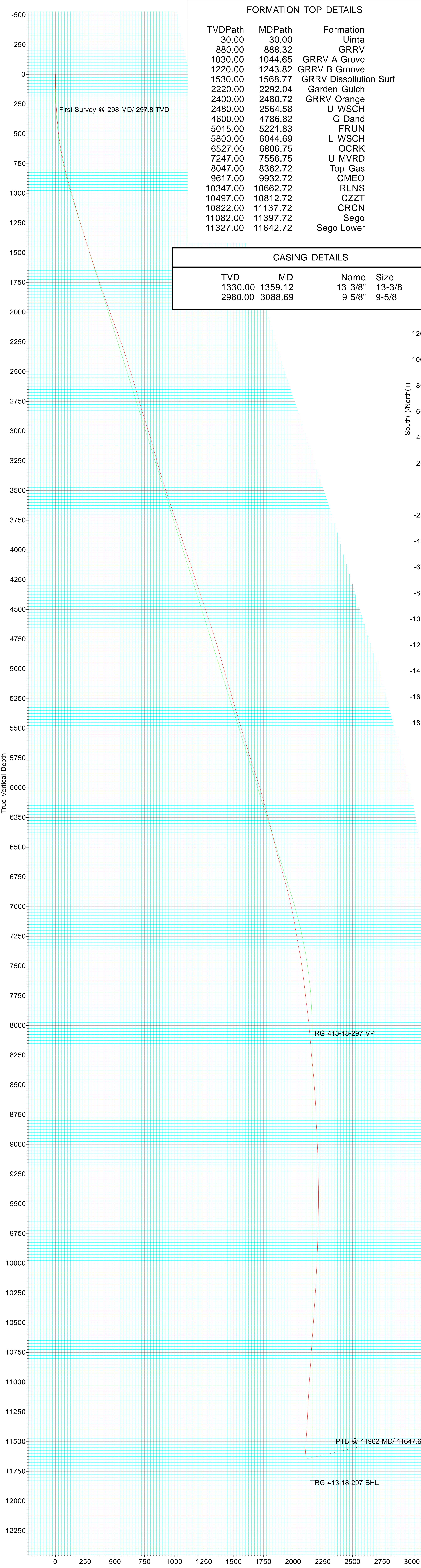
Slot Name	+N/-S	+E/-W	Northing	Easting
RG 13-18-297 B5	-3.31	-17.72	1754878.080	2203536.170
RG 14-18-297 A5	-10.47	-10.73	1754870.710	2203542.930
RG 21-24-298 A3	-20.95	-21.47	1754860.570	2203531.870
RG 312-18-297 B7	7.16	-6.98	1754888.210	2203547.230
RG 313-18-297 A8	5.23	5.37	1754885.900	2203559.510
RG 314-18-297 B4	-8.54	-23.07	1754873.020	2203530.650
RG 321-24-298 A2	-26.18	-26.84	1754855.510	2203526.340
RG 324-13-298 B3	-13.80	-28.44	1754867.940	2203525.120
RG 412-18-297 B8	12.39	-1.61	1754893.270	2203552.760
RG 413-18-297 A7	0.00	0.00	1754880.840	2203553.980
RG 414-18-297 A4	-15.71	-16.10	1754865.640	2203537.400
RG 421-24-298 A1	-31.42	-32.19	1754850.440	2203520.820
RG 424-13-298 B2	-19.03	-33.81	1754862.880	2203519.590
RG 512-18-297 B6	1.92	-12.35	1754883.140	2203541.700
RG 514-18-297 A6	-5.24	-5.37	1754875.770	2203548.450
RG 524-13-298 B1	-24.27	-39.18	1754857.810	2203514.060

FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation
30.00	30.00	Uinta
880.00	888.32	GRRV
1030.00	1044.65	GRRV A Grove
1220.00	1243.82	GRRV B Groove
1530.00	1568.77	GRRV Dissolution Surf
2220.00	2292.04	Garden Gulch
2400.00	2480.72	GRRV Orange
2480.00	2564.58	U WSCH
4600.00	4786.82	G Dand
5015.00	5221.83	FRUN
5800.00	6044.69	L WSCH
6527.00	6806.75	OCRK
7247.00	7556.75	U MVRD
8047.00	8362.72	Top Gas
9617.00	9932.72	CMEO
10347.00	10662.72	RLNS
10497.00	10812.72	CZTZ
10822.00	11137.72	CRCN
11082.00	11397.72	Sego
11327.00	11642.72	Sego Lower

CASING DETAILS

TVD	MD	Name	Size
1330.00	1359.12	13 3/8"	13-3/8
2980.00	3088.69	9 5/8"	9-5/8





Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

Fed 298-13-1 Pad

RG 413-18-297 - Slot RG 413-18-297 A7

OWB

Survey: Surveys

Standard Survey Report

18 July, 2024



Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RG 413-18-297 - Slot RG 413-18-297 A7
Project:	Garfield County, CO (Nad 83)	TVD Reference:	RKB @ 30' @ 6697.00ft
Site:	Fed 298-13-1 Pad	MD Reference:	RKB @ 30' @ 6697.00ft
Well:	RG 413-18-297	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	NN

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

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

Well	RG 413-18-297 - Slot RG 413-18-297 A7					
Well Position	+N/-S	0.00 ft	Northing:	1,754,880.840 usft	Latitude:	39.871809
	+E/-W	0.00 ft	Easting:	2,203,553.980 usft	Longitude:	-108.337883
Position Uncertainty		0.00 ft	Wellhead Elevation:	6,697.00 ft	Ground Level:	6,667.00 ft

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

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	74.10	

Survey Program	Date	5/27/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
298.00	11,962.00	Surveys (OWB)	OWSG (REV5) MWD HDGM	OWSG MWD - Standard	

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298.00	3.60	101.97	297.80	-1.94	9.16	8.27	1.21	1.21	0.00	
First Survey @ 298 MD/ 297.8 TVD										
389.00	4.87	79.29	388.56	-1.82	15.75	14.65	2.28	1.40	-24.92	
480.00	6.54	77.18	479.11	0.05	24.60	23.67	1.85	1.84	-2.32	
571.00	8.92	76.04	569.27	2.90	36.50	35.90	2.62	2.62	-1.25	
662.00	10.81	74.02	658.92	6.96	51.55	51.48	2.11	2.08	-2.22	
752.00	12.21	74.63	747.11	11.80	68.84	69.44	1.56	1.56	0.68	
843.00	14.01	75.51	835.74	17.11	88.79	90.08	1.99	1.98	0.97	
933.00	16.25	83.51	922.62	21.26	111.85	113.40	3.40	2.49	8.89	
1,025.00	16.87	82.10	1,010.80	24.55	137.86	139.31	0.80	0.67	-1.53	

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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	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)	
1,116.00	15.95	88.17	1,098.10	26.76	163.44	164.52	2.14	-1.01	6.67	
1,206.00	17.18	84.91	1,184.37	28.34	189.04	189.57	1.71	1.37	-3.62	
1,291.00	17.27	84.12	1,265.56	30.74	214.10	214.33	0.29	0.11	-0.93	
1,472.00	17.75	77.80	1,438.18	39.33	267.79	268.32	1.08	0.27	-3.49	
1,563.00	18.06	78.76	1,524.78	45.01	295.19	296.23	0.47	0.34	1.05	
1,654.00	18.72	76.57	1,611.13	51.15	323.23	324.87	1.05	0.73	-2.41	
1,744.00	18.58	73.14	1,696.41	58.66	351.00	353.64	1.23	-0.16	-3.81	
1,835.00	18.72	68.65	1,782.63	68.19	378.47	382.68	1.58	0.15	-4.93	
1,926.00	19.07	69.27	1,868.73	78.76	405.98	412.03	0.44	0.38	0.68	
2,017.00	20.21	69.80	1,954.43	89.45	434.63	442.51	1.27	1.25	0.58	
2,107.00	19.73	70.76	2,039.02	99.83	463.57	473.18	0.65	-0.53	1.07	
2,197.00	20.47	71.47	2,123.54	109.83	492.83	504.07	0.87	0.82	0.79	
2,287.00	20.17	71.99	2,207.94	119.63	522.51	535.29	0.39	-0.33	0.58	
2,378.00	18.63	72.08	2,293.77	128.96	551.26	565.50	1.69	-1.69	0.10	
2,468.00	18.06	70.76	2,379.20	137.98	578.11	593.79	0.78	-0.63	-1.47	
2,560.00	17.44	70.32	2,466.82	147.32	604.56	621.79	0.69	-0.67	-0.48	
2,651.00	17.05	67.25	2,553.73	157.07	629.70	648.64	1.09	-0.43	-3.37	
2,742.00	16.08	67.34	2,640.95	167.09	653.63	674.40	1.07	-1.07	0.10	
2,832.00	16.08	66.19	2,727.43	176.92	676.54	699.13	0.35	0.00	-1.28	
2,923.00	16.12	67.25	2,814.86	186.89	699.72	724.15	0.33	0.04	1.16	
3,013.00	18.01	69.80	2,900.89	196.53	724.30	750.43	2.26	2.10	2.83	
3,074.00	17.79	69.01	2,958.94	203.12	741.85	769.12	0.54	-0.36	-1.30	
3,152.00	17.40	65.75	3,033.29	212.18	763.61	792.53	1.36	-0.50	-4.18	
3,243.00	15.68	64.35	3,120.53	223.09	787.10	818.11	1.94	-1.89	-1.54	
3,334.00	15.29	74.98	3,208.24	231.53	809.78	842.23	3.14	-0.43	11.68	
3,425.00	15.60	75.16	3,295.95	237.77	833.20	866.46	0.34	0.34	0.20	
3,516.00	17.35	74.10	3,383.21	244.62	858.08	892.27	1.95	1.92	-1.16	
3,608.00	17.97	76.30	3,470.88	251.74	885.06	920.17	0.99	0.67	2.39	
3,699.00	19.20	76.92	3,557.13	258.45	913.27	949.14	1.37	1.35	0.68	
3,790.00	16.56	76.39	3,643.73	264.89	940.46	977.05	2.91	-2.90	-0.58	
3,881.00	20.25	78.32	3,730.06	271.14	968.50	1,005.72	4.11	4.05	2.12	
3,973.00	18.28	77.36	3,816.90	277.52	998.17	1,036.01	2.17	-2.14	-1.04	
4,064.00	17.31	76.21	3,903.55	283.87	1,025.24	1,063.79	1.13	-1.07	-1.26	
4,156.00	18.32	76.13	3,991.14	290.60	1,052.57	1,091.91	1.10	1.10	-0.09	
4,248.00	19.81	73.14	4,078.09	298.58	1,081.53	1,121.95	1.94	1.62	-3.25	
4,340.00	17.62	73.40	4,165.22	307.08	1,109.80	1,151.47	2.38	-2.38	0.28	
4,431.00	17.88	72.87	4,251.89	315.13	1,136.35	1,179.21	0.34	0.29	-0.58	
4,523.00	18.36	74.19	4,339.33	323.24	1,163.79	1,207.82	0.69	0.52	1.43	
4,614.00	18.67	76.13	4,425.62	330.64	1,191.72	1,236.70	0.76	0.34	2.13	
4,705.00	18.10	72.79	4,511.97	338.31	1,219.36	1,265.39	1.32	-0.63	-3.67	
4,797.00	18.94	74.02	4,599.21	346.65	1,247.37	1,294.61	1.01	0.91	1.34	
4,889.00	17.79	73.66	4,686.52	354.72	1,275.21	1,323.60	1.26	-1.25	-0.39	
4,981.00	17.84	69.71	4,774.11	363.56	1,301.91	1,351.70	1.31	0.05	-4.29	

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Site:	Fed 298-13-1 Pad	MD Reference:	RKB @ 30' @ 6697.00ft
Well:	RG 413-18-297	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	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)	
5,072.00	15.51	69.01	4,861.28	372.75	1,326.35	1,377.73	2.57	-2.56	-0.77	
5,164.00	15.95	69.71	4,949.84	381.54	1,349.69	1,402.58	0.52	0.48	0.76	
5,256.00	15.86	72.43	5,038.32	389.72	1,373.53	1,427.75	0.82	-0.10	2.96	
5,347.00	16.96	72.35	5,125.61	397.50	1,398.04	1,453.45	1.21	1.21	-0.09	
5,439.00	15.77	70.59	5,213.88	405.72	1,422.62	1,479.34	1.40	-1.29	-1.91	
5,530.00	16.39	73.93	5,301.32	413.38	1,446.62	1,504.52	1.22	0.68	3.67	
5,622.00	16.65	72.35	5,389.52	420.97	1,471.65	1,530.68	0.56	0.28	-1.72	
5,713.00	16.56	72.96	5,476.73	428.73	1,496.47	1,556.67	0.22	-0.10	0.67	
5,805.00	17.44	73.23	5,564.71	436.55	1,522.21	1,583.57	0.96	0.96	0.29	
5,897.00	16.65	74.10	5,652.67	444.14	1,548.08	1,610.53	0.90	-0.86	0.95	
5,989.00	16.91	74.72	5,740.75	451.27	1,573.67	1,637.09	0.34	0.28	0.67	
6,080.00	17.97	76.21	5,827.56	458.11	1,600.07	1,664.35	1.26	1.16	1.64	
6,172.00	18.58	75.51	5,914.92	465.16	1,628.04	1,693.19	0.70	0.66	-0.76	
6,263.00	16.83	75.42	6,001.61	472.10	1,654.83	1,720.85	1.92	-1.92	-0.10	
6,355.00	14.80	75.60	6,090.12	478.38	1,679.10	1,745.92	2.21	-2.21	0.20	
6,448.00	15.16	74.19	6,179.96	484.64	1,702.31	1,769.95	0.55	0.39	-1.52	
6,539.00	15.64	73.14	6,267.70	491.44	1,725.50	1,794.12	0.61	0.53	-1.15	
6,630.00	13.79	73.49	6,355.71	498.08	1,747.64	1,817.23	2.04	-2.03	0.38	
6,722.00	13.31	79.55	6,445.15	503.12	1,768.56	1,838.74	1.63	-0.52	6.59	
6,814.00	14.37	79.73	6,534.48	507.08	1,790.21	1,860.64	1.15	1.15	0.20	
6,906.00	16.34	79.90	6,623.19	511.38	1,814.19	1,884.88	2.14	2.14	0.18	
6,998.00	16.21	78.94	6,711.50	516.11	1,839.53	1,910.55	0.32	-0.14	-1.04	
7,089.00	15.33	79.90	6,799.08	520.66	1,863.84	1,935.17	1.01	-0.97	1.05	
7,181.00	14.01	79.99	6,888.08	524.73	1,886.78	1,958.35	1.43	-1.43	0.10	
7,273.00	12.61	79.55	6,977.60	528.49	1,907.63	1,979.43	1.53	-1.52	-0.48	
7,365.00	11.55	78.94	7,067.56	532.08	1,926.54	1,998.60	1.16	-1.15	-0.66	
7,457.00	9.53	81.66	7,158.01	534.95	1,943.12	2,015.33	2.26	-2.20	2.96	
7,549.00	9.66	74.46	7,248.72	538.12	1,958.09	2,030.60	1.31	0.14	-7.83	
7,641.00	10.37	71.56	7,339.32	542.81	1,973.38	2,046.59	0.95	0.77	-3.15	
7,732.00	9.75	71.03	7,428.92	547.90	1,988.44	2,062.47	0.69	-0.68	-0.58	
7,824.00	8.26	73.66	7,519.79	552.29	2,002.15	2,076.86	1.68	-1.62	2.86	
7,915.00	6.67	76.65	7,610.01	555.35	2,013.57	2,088.67	1.80	-1.75	3.29	
8,007.00	6.02	76.92	7,701.45	557.68	2,023.46	2,098.83	0.71	-0.71	0.29	
8,097.00	7.64	66.46	7,790.81	561.14	2,033.55	2,109.47	2.26	1.80	-11.62	
8,189.00	6.98	60.22	7,882.06	566.36	2,044.01	2,120.96	1.12	-0.72	-6.78	
8,281.00	5.84	58.81	7,973.49	571.56	2,052.86	2,130.90	1.25	-1.24	-1.53	
8,373.00	5.49	58.28	8,065.04	576.30	2,060.61	2,139.65	0.38	-0.38	-0.58	
8,465.00	4.83	56.79	8,156.66	580.73	2,067.59	2,147.59	0.73	-0.72	-1.62	
8,556.00	5.58	51.78	8,247.29	585.57	2,074.27	2,155.34	0.96	0.82	-5.51	
8,646.00	5.93	52.48	8,336.84	591.10	2,081.40	2,163.71	0.40	0.39	0.78	
8,737.00	5.66	49.23	8,427.37	596.90	2,088.53	2,172.15	0.47	-0.30	-3.57	
8,829.00	4.74	48.88	8,518.99	602.36	2,094.83	2,179.70	1.00	-1.00	-0.38	
8,921.00	3.95	46.15	8,610.73	607.06	2,099.97	2,185.94	0.89	-0.86	-2.97	

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9,012.00	3.42	44.66	8,701.54	611.16	2,104.14	2,191.07	0.59	-0.58	-1.64	
9,104.00	2.50	45.63	8,793.41	614.51	2,107.51	2,195.23	1.00	-1.00	1.05	
9,196.00	3.03	51.52	8,885.31	617.43	2,110.84	2,199.24	0.65	0.58	6.40	
9,286.00	2.94	46.07	8,975.18	620.51	2,114.37	2,203.47	0.33	-0.10	-6.06	
9,378.00	2.28	35.70	9,067.09	623.63	2,117.14	2,206.99	0.88	-0.72	-11.27	
9,469.00	1.80	30.33	9,158.03	626.34	2,118.91	2,209.44	0.57	-0.53	-5.90	
9,561.00	1.40	34.47	9,250.00	628.51	2,120.28	2,211.35	0.45	-0.43	4.50	
9,653.00	0.96	33.23	9,341.98	630.08	2,121.34	2,212.79	0.48	-0.48	-1.35	
9,744.00	0.30	354.21	9,432.97	630.96	2,121.73	2,213.41	0.83	-0.73	-42.88	
9,836.00	0.57	250.33	9,524.97	631.04	2,121.28	2,213.00	0.77	0.29	-112.91	
9,927.00	1.09	244.17	9,615.96	630.51	2,120.07	2,211.69	0.58	0.57	-6.77	
10,019.00	1.27	244.09	9,707.94	629.69	2,118.37	2,209.83	0.20	0.20	-0.09	
10,111.00	1.45	242.59	9,799.91	628.70	2,116.42	2,207.68	0.20	0.20	-1.63	
10,202.00	2.15	239.08	9,890.87	627.30	2,113.93	2,204.91	0.78	0.77	-3.86	
10,294.00	2.46	242.42	9,982.79	625.50	2,110.70	2,201.31	0.37	0.34	3.63	
10,388.00	2.72	246.28	10,076.70	623.67	2,106.87	2,197.12	0.33	0.28	4.11	
10,483.00	3.38	251.03	10,171.56	621.85	2,102.16	2,192.09	0.74	0.69	5.00	
10,577.00	3.77	250.33	10,265.38	619.91	2,096.63	2,186.24	0.42	0.41	-0.74	
10,670.00	3.91	248.04	10,358.17	617.69	2,090.81	2,180.04	0.22	0.15	-2.46	
10,764.00	3.95	244.00	10,451.95	615.07	2,084.92	2,173.66	0.30	0.04	-4.30	
10,858.00	3.91	242.94	10,545.73	612.20	2,079.16	2,167.33	0.09	-0.04	-1.13	
10,952.00	3.95	241.98	10,639.51	609.22	2,073.45	2,161.02	0.08	0.04	-1.02	
11,047.00	3.95	241.71	10,734.28	606.13	2,067.68	2,154.63	0.02	0.00	-0.28	
11,141.00	4.08	243.56	10,828.05	603.11	2,061.83	2,148.18	0.20	0.14	1.97	
11,235.00	3.69	244.70	10,921.83	600.33	2,056.10	2,141.90	0.42	-0.41	1.21	
11,330.00	3.99	247.25	11,016.62	597.74	2,050.29	2,135.61	0.36	0.32	2.68	
11,424.00	3.29	249.53	11,110.43	595.53	2,044.75	2,129.67	0.76	-0.74	2.43	
11,519.00	2.59	260.17	11,205.31	594.21	2,040.08	2,124.82	0.93	-0.74	11.20	
11,614.00	2.50	264.56	11,300.21	593.65	2,035.90	2,120.65	0.23	-0.09	4.62	
11,708.00	3.38	258.67	11,394.09	592.91	2,031.14	2,115.87	0.99	0.94	-6.27	
11,801.00	3.47	260.96	11,486.92	591.93	2,025.68	2,110.34	0.18	0.10	2.46	
11,895.00	3.73	250.94	11,580.74	590.48	2,019.98	2,104.46	0.72	0.28	-10.66	
11,962.00	3.73	250.94	11,647.60	589.06	2,015.86	2,100.11	0.00	0.00	0.00	
PTB @ 11962 MD/ 11647.6 TVD										

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RG 413-18-297 - Slot RG 413-18-297 A7
Project:	Garfield County, CO (Nad 83)	TVD Reference:	RKB @ 30' @ 6697.00ft
Site:	Fed 298-13-1 Pad	MD Reference:	RKB @ 30' @ 6697.00ft
Well:	RG 413-18-297	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	NN

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
RG 413-18-297 VP	0.00	0.00	8,047.00	591.98	2,078.34	1,755,407.620	2,205,649.790	39.873434	-108.330479
- survey misses target center by 25.28ft at 8357.35ft MD (8049.46 TVD, 575.50 N, 2059.33 E)									
- Circle (radius 100.00)									
RG 413-18-297 BHL	0.00	0.00	11,827.00	591.98	2,078.34	1,755,407.620	2,205,649.790	39.873434	-108.330479
- survey misses target center by 190.00ft at 11962.00ft MD (11647.60 TVD, 589.06 N, 2015.86 E)									
- Point									

Survey Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)		
298.00	297.80	-1.94	9.16	First Survey @ 298 MD/ 297.8 TVD	
11,962.00	11,647.60	589.06	2,015.86	PTB @ 11962 MD/ 11647.6 TVD	

Checked By: _____ Approved By: _____ Date: _____