

WELL DETAILS: RG 414-18-297

+N/-S	+E/-W	Northing	Ground Level: Easting	6667.00 Latitude	Longitude	Slot
0.00	0.00	1754865.640	2203537.400	39.871766	-108.337940	RG 414-18-297 A4

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP	7967.00	-788.48	2086.41	1754012.380	2205598.160	39.869601	-108.330507
BHL	1747.00	-788.52	2086.41	1754012.338	2205598.160	39.869601	-108.330507

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	V Sect	Departure	Annotation
204.91	205.00	2.94	105.07	-1.37	5.08	5.23	5.26	First Survey @ 205 MD/ 204.91 TVD
11494.94	11850.00	4.48	246.99	-850.53	2005.52	2176.70	2466.34	Last Survey @ 11850/ 11494.94 TVD

SLOTS

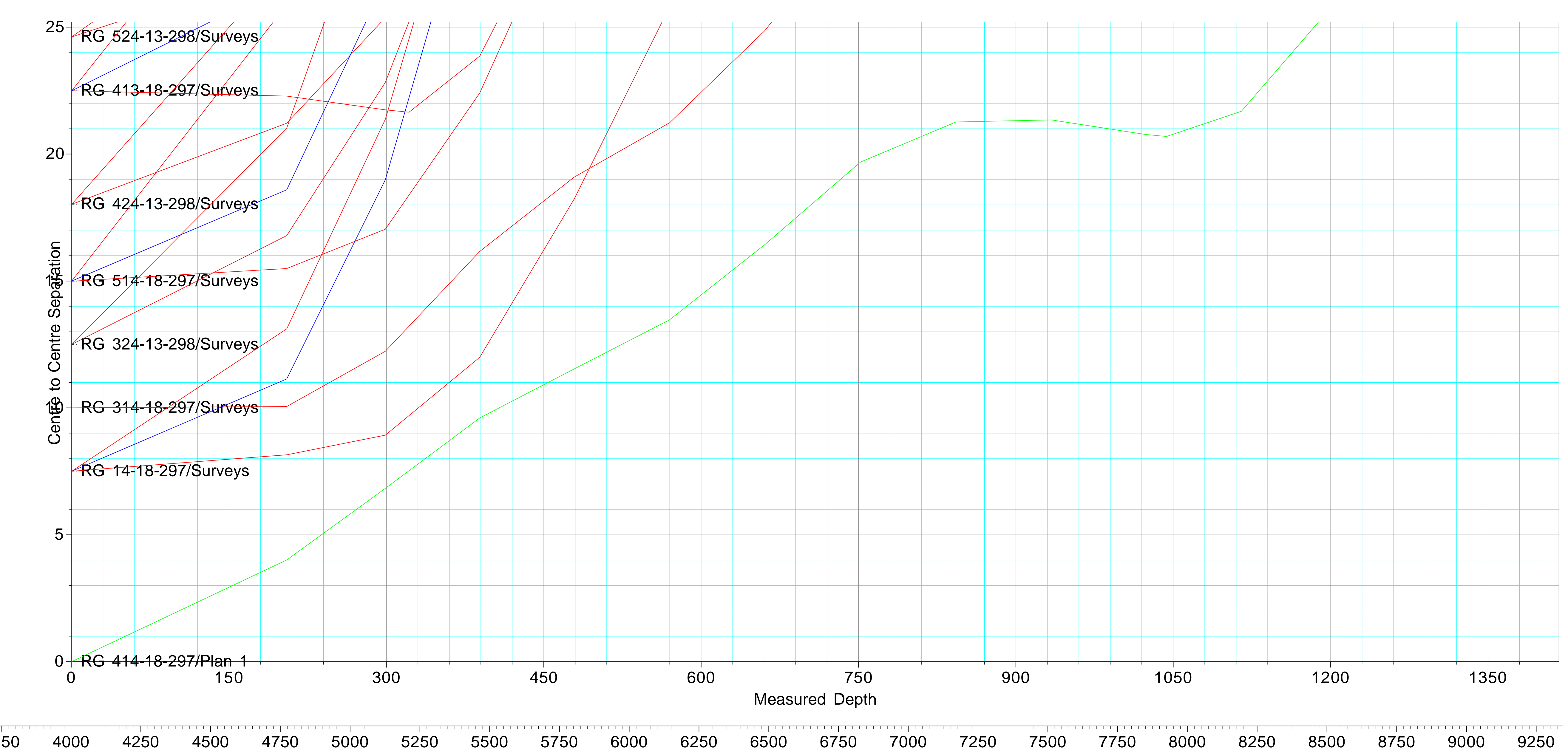
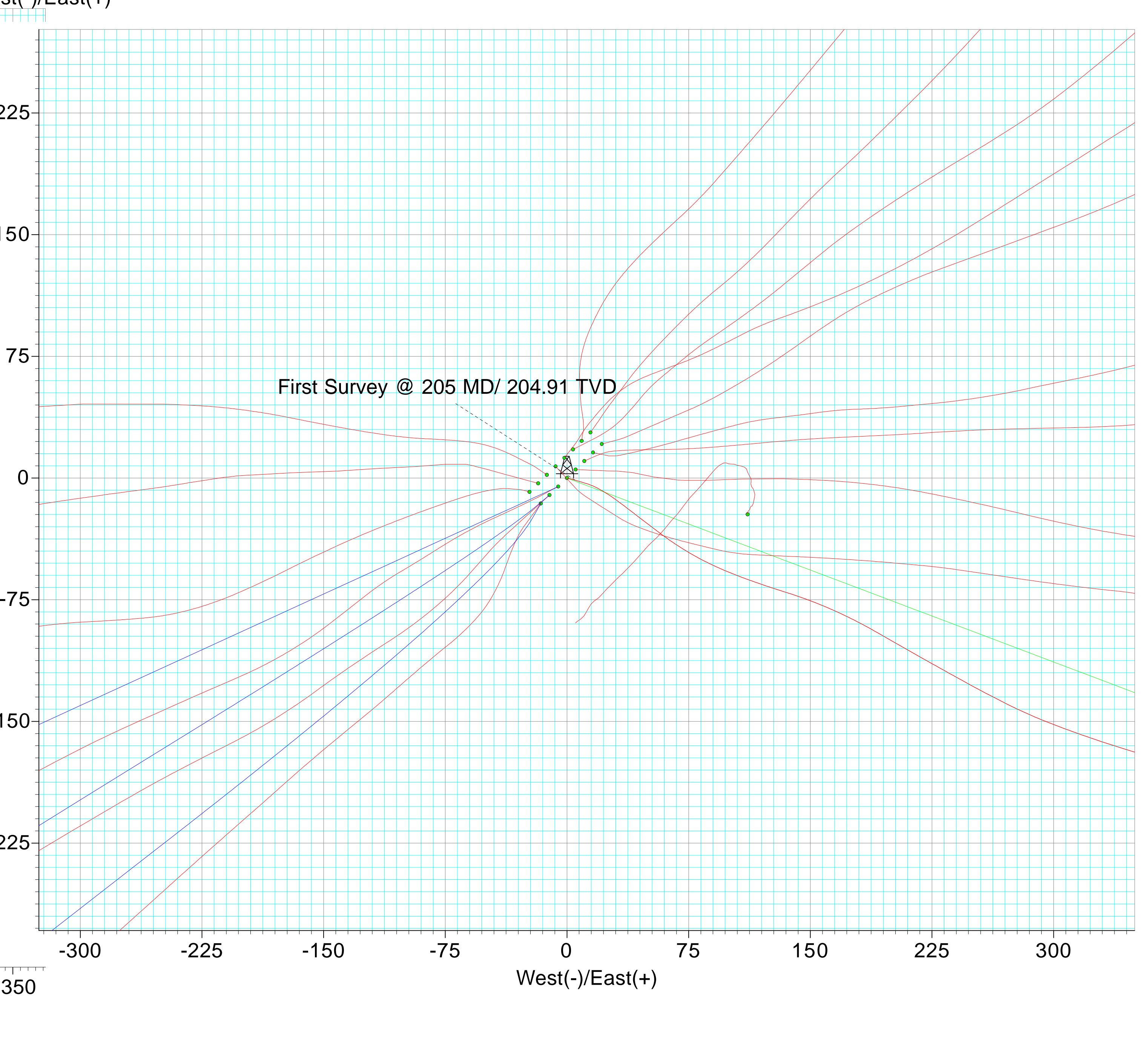
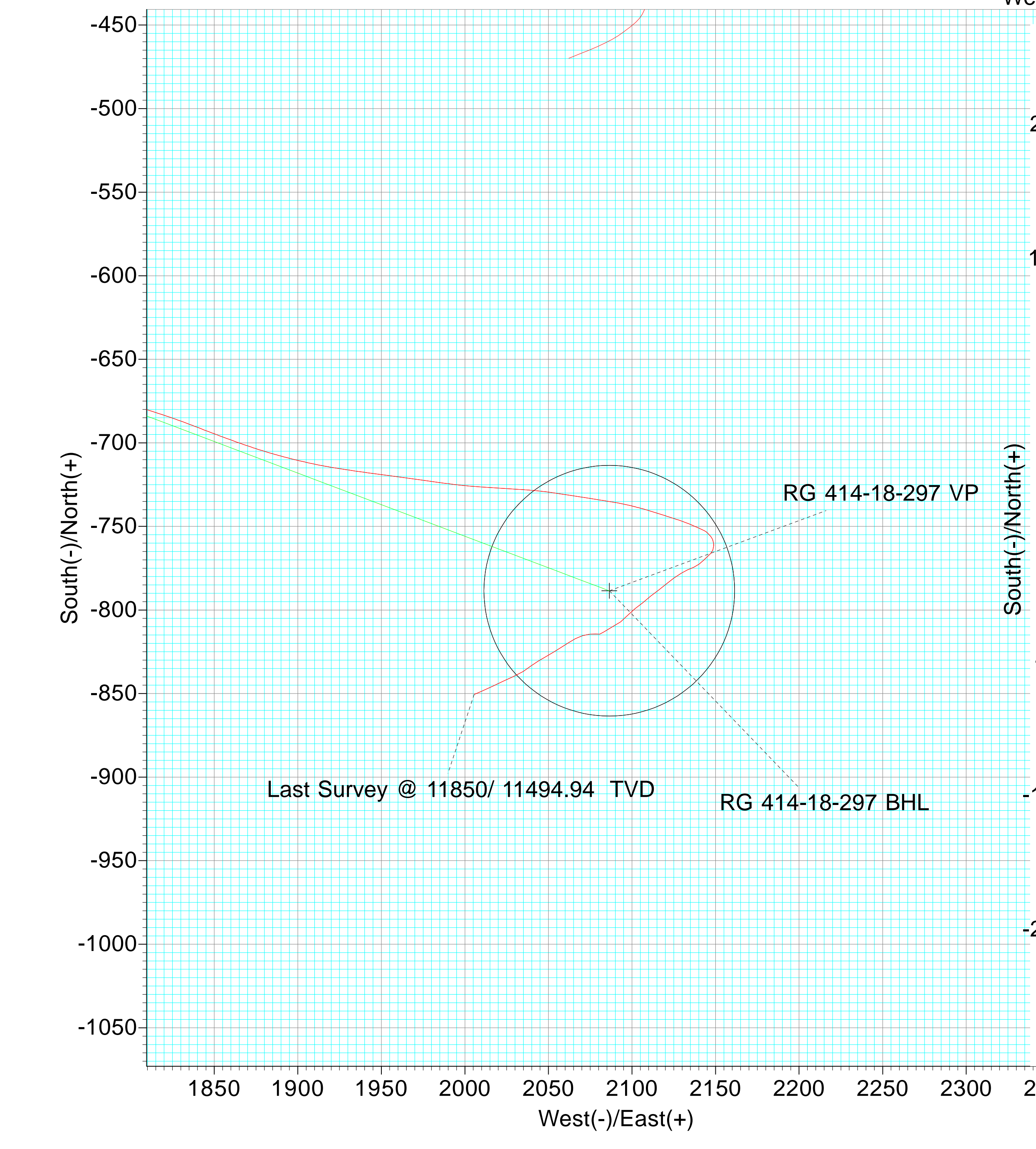
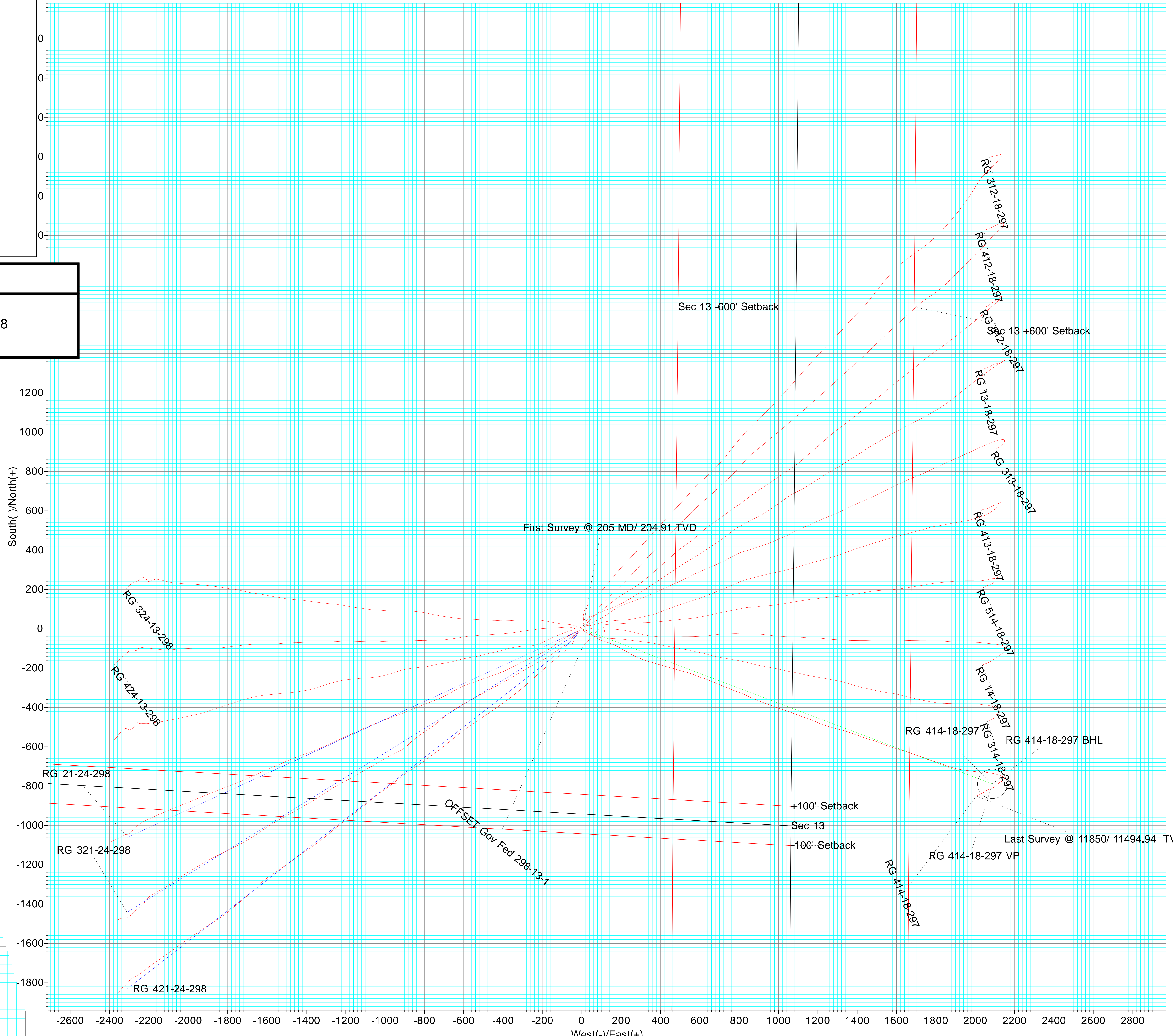
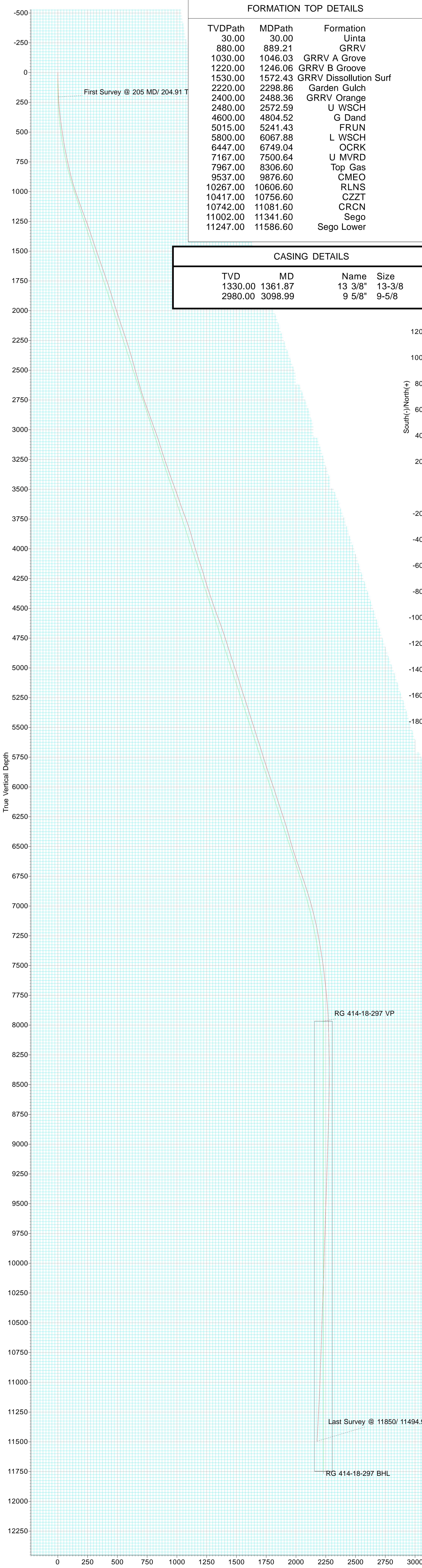
Slot Name	+N/-S	+E/-W	Northing	Easting
RG 13-18-297 B5	12.40	-1.62	1754878.080	2203536.170
RG 14-18-297 A5	5.24	5.37	1754870.710	2203542.930
RG 21-24-298 A3	-5.24	-5.37	1754860.570	2203531.870
RG 312-18-297 B7	22.87	9.12	1754888.210	2203547.230
RG 313-18-297 A8	20.94	21.47	1754885.900	2203559.510
RG 314-18-297 B4	7.17	-6.98	1754873.020	2203530.650
RG 321-24-298 A2	-10.47	-10.74	1754855.510	2203526.340
RG 324-13-298 B3	1.92	-12.35	1754867.940	2203525.120
RG 412-18-297 B8	28.10	14.49	1754893.270	2203552.760
RG 413-18-297 A7	15.71	16.10	1754880.840	2203553.980
RG 414-18-297 A4	0.00	0.00	1754865.640	2203537.400
RG 421-24-298 A1	-15.71	-16.10	1754850.440	2203520.820
RG 424-13-298 B2	-3.31	-17.72	1754862.880	2203519.590
RG 512-18-297 B6	17.63	3.75	1754883.140	2203541.700
RG 514-18-297 A6	10.47	10.73	1754875.770	2203548.450
RG 524-13-298 B1	-8.56	-23.08	1754857.810	2203514.060

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
30.00	30.00	Uinta
880.00	889.21	GRRV
1030.00	1046.03	GRRV A Grove
1220.00	1246.06	GRRV B Groove
1530.00	1572.43	GRRV Dissolution Surf
2220.00	2298.86	Garden Gulch
2400.00	2488.36	GRRV Orange
2480.00	2572.59	U WSCH
4600.00	4804.52	G Dand
5015.00	5241.43	FRUN
5800.00	6067.88	L WSCH
6447.00	6749.04	OCRK
7167.00	7500.64	U MVRD
7967.00	8306.60	Top Gas
9537.00	9876.60	CME0
10267.00	10606.60	RLNS
10417.00	10756.60	CZTZ
10742.00	11081.60	CRCN
11002.00	11341.60	Sego
11247.00	11586.60	Sego Lower

CASING DETAILS

TVD	MD	Name	Size
1330.00	1361.87	13 3/8"	13-3/8
2980.00	3098.99	9 5/8"	9-5/8





## **Terra Energy Partners, LLP**

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

**Fed 298-13-1 Pad**

**RG 414-18-297 - Slot RG 414-18-297 A4**

**OWB**

**Survey: Surveys**

## **Standard Survey Report**

**18 July, 2024**



<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 414-18-297 - Slot RG 414-18-297 A4
<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 414-18-297	<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 414-18-297 - Slot RG 414-18-297 A4					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	1,754,865.640 usft	<b>Latitude:</b>	39.871766
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,203,537.400 usft	<b>Longitude:</b>	-108.337940
<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	110.70	

<b>Survey Program</b>	<b>Date</b>	6/16/2024			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
205.00	11,850.00	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	
205.00	2.94	105.07	204.91	-1.37	5.08	5.23	1.43	1.43	0.00	
<b>First Survey @ 205 MD/ 204.91 TVD</b>										
299.00	5.75	107.09	298.63	-3.38	11.91	12.33	2.99	2.99	2.15	
389.00	6.94	119.66	388.08	-7.39	20.94	22.20	2.02	1.32	13.97	
479.00	8.26	126.43	477.29	-13.92	30.87	33.80	1.77	1.47	7.52	
570.00	9.53	127.40	567.19	-22.38	42.11	47.31	1.41	1.40	1.07	
661.00	11.60	127.48	656.65	-32.53	55.36	63.28	2.27	2.27	0.09	
752.00	12.43	122.30	745.66	-43.33	70.90	81.64	1.49	0.91	-5.69	
843.00	13.27	115.62	834.38	-53.08	88.60	101.64	1.87	0.92	-7.34	
934.00	15.99	110.17	922.43	-61.92	109.78	124.58	3.35	2.99	-5.99	

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 414-18-297 - Slot RG 414-18-297 A4
<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 414-18-297	<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)
1,024.00	19.24	107.45	1,008.20	-70.64	135.57	151.79	3.72	3.61	-3.02
1,115.00	19.51	113.86	1,094.05	-81.28	163.78	181.94	2.35	0.30	7.04
1,205.00	20.69	119.84	1,178.58	-95.28	191.32	212.64	2.63	1.31	6.64
1,296.00	20.25	119.40	1,263.83	-111.01	218.98	244.08	0.51	-0.48	-0.48
1,385.00	18.72	118.84	1,347.73	-125.46	244.91	273.45	1.73	-1.72	-0.63
1,477.00	18.98	116.64	1,434.80	-139.29	271.22	302.94	0.82	0.28	-2.39
1,568.00	18.85	111.11	1,520.89	-151.22	298.16	332.37	1.97	-0.14	-6.08
1,659.00	19.37	108.65	1,606.88	-161.34	326.17	362.15	1.05	0.57	-2.70
1,749.00	19.24	106.18	1,691.82	-170.24	354.56	391.85	0.92	-0.14	-2.74
1,840.00	18.50	106.80	1,777.93	-178.59	382.78	421.20	0.84	-0.81	0.68
1,931.00	17.49	105.39	1,864.48	-186.40	409.78	449.22	1.21	-1.11	-1.55
2,022.00	17.79	105.92	1,951.20	-193.84	436.34	476.69	0.37	0.33	0.58
2,113.00	18.14	105.66	2,037.76	-201.48	463.35	504.65	0.39	0.38	-0.29
2,203.00	18.85	106.54	2,123.11	-209.40	490.77	533.11	0.85	0.79	0.98
2,294.00	18.98	105.57	2,209.20	-217.55	519.12	562.51	0.37	0.14	-1.07
2,384.00	17.35	106.01	2,294.71	-225.18	546.12	590.46	1.82	-1.81	0.49
2,475.00	16.47	111.63	2,381.78	-233.68	571.16	616.89	2.04	-0.97	6.18
2,566.00	15.42	111.46	2,469.28	-242.86	594.41	641.88	1.15	-1.15	-0.19
2,658.00	15.86	107.68	2,557.87	-251.16	617.77	666.67	1.21	0.48	-4.11
2,749.00	16.21	111.28	2,645.34	-259.54	641.45	691.79	1.16	0.38	3.96
2,839.00	18.50	112.42	2,731.23	-269.55	666.36	718.62	2.57	2.54	1.27
2,930.00	19.90	113.13	2,817.17	-281.14	693.95	748.53	1.56	1.54	0.78
3,020.00	19.64	112.60	2,901.86	-292.97	722.00	778.95	0.35	-0.29	-0.59
3,066.00	19.59	111.72	2,945.19	-298.79	736.30	794.39	0.65	-0.11	-1.91
3,149.00	20.21	112.34	3,023.24	-309.39	762.49	822.63	0.79	0.75	0.75
3,239.00	17.53	108.47	3,108.40	-319.60	789.73	851.72	3.29	-2.98	-4.30
3,329.00	17.71	112.42	3,194.18	-329.11	815.24	878.95	1.34	0.20	4.39
3,420.00	19.33	115.41	3,280.46	-340.86	841.64	907.80	2.06	1.78	3.29
3,511.00	19.07	114.36	3,366.40	-353.45	868.79	937.64	0.47	-0.29	-1.15
3,603.00	20.56	111.11	3,452.96	-365.47	897.55	968.80	2.01	1.62	-3.53
3,694.00	19.16	110.93	3,538.54	-376.56	926.41	999.71	1.54	-1.54	-0.20
3,785.00	19.20	109.73	3,624.49	-386.94	954.44	1,029.60	0.44	0.04	-1.32
3,876.00	21.09	109.52	3,709.92	-397.47	983.96	1,060.94	2.08	2.08	-0.23
3,968.00	19.16	109.70	3,796.30	-408.09	1,013.78	1,092.58	2.10	-2.10	0.20
4,059.00	15.68	106.10	3,883.11	-416.54	1,039.66	1,119.78	4.00	-3.82	-3.96
4,151.00	17.27	112.34	3,971.34	-425.18	1,064.24	1,145.83	2.58	1.73	6.78
4,243.00	17.35	111.11	4,059.17	-435.31	1,089.67	1,173.20	0.41	0.09	-1.34
4,335.00	19.24	109.79	4,146.52	-445.38	1,116.73	1,202.07	2.10	2.05	-1.43
4,426.00	15.77	109.44	4,233.29	-454.57	1,142.51	1,229.44	3.81	-3.81	-0.38
4,518.00	17.66	110.05	4,321.40	-463.52	1,167.41	1,255.89	2.06	2.05	0.66
4,609.00	19.16	114.62	4,407.75	-474.48	1,193.96	1,284.60	2.29	1.65	5.02
4,700.00	19.24	110.32	4,493.69	-485.90	1,221.59	1,314.49	1.56	0.09	-4.73
4,792.00	20.78	106.71	4,580.14	-495.86	1,251.44	1,345.93	2.15	1.67	-3.92

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<b>Site:</b>	Fed 298-13-1 Pad	<b>MD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Well:</b>	RG 414-18-297	<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)	
4,884.00	19.59	104.78	4,666.49	-504.49	1,281.99	1,377.55	1.48	-1.29	-2.10	
4,976.00	17.62	104.51	4,753.67	-511.91	1,310.38	1,406.74	2.14	-2.14	-0.29	
5,067.00	17.49	106.45	4,840.44	-519.24	1,336.83	1,434.07	0.66	-0.14	2.13	
5,159.00	17.92	109.26	4,928.08	-527.82	1,363.45	1,462.01	1.04	0.47	3.05	
5,251.00	18.94	109.96	5,015.36	-537.59	1,390.85	1,491.08	1.13	1.11	0.76	
5,342.00	17.00	110.23	5,101.92	-547.23	1,417.21	1,519.16	2.13	-2.13	0.30	
5,434.00	18.06	109.09	5,189.64	-556.54	1,443.31	1,546.86	1.21	1.15	-1.24	
5,525.00	18.36	106.10	5,276.09	-565.13	1,470.41	1,575.25	1.08	0.33	-3.29	
5,617.00	17.13	108.82	5,363.71	-573.52	1,497.16	1,603.23	1.61	-1.34	2.96	
5,708.00	18.50	111.46	5,450.35	-583.13	1,523.28	1,631.07	1.75	1.51	2.90	
5,800.00	16.83	109.52	5,538.01	-592.92	1,549.42	1,658.98	1.92	-1.82	-2.11	
5,892.00	18.63	108.29	5,625.63	-601.98	1,575.93	1,686.98	2.00	1.96	-1.34	
5,984.00	16.78	106.98	5,713.27	-610.47	1,602.59	1,714.91	2.06	-2.01	-1.42	
6,076.00	18.06	105.92	5,801.05	-618.26	1,629.00	1,742.38	1.43	1.39	-1.15	
6,167.00	18.76	108.56	5,887.39	-626.79	1,656.44	1,771.06	1.20	0.77	2.90	
6,258.00	19.33	109.09	5,973.41	-636.37	1,684.54	1,800.74	0.65	0.63	0.58	
6,350.00	17.66	109.52	6,060.66	-646.01	1,712.09	1,829.91	1.82	-1.82	0.47	
6,443.00	18.32	109.88	6,149.11	-655.70	1,739.13	1,858.63	0.72	0.71	0.39	
6,534.00	18.76	110.75	6,235.39	-665.75	1,766.26	1,887.56	0.57	0.48	0.96	
6,625.00	16.91	107.06	6,322.01	-674.81	1,792.60	1,915.41	2.38	-2.03	-4.05	
6,717.00	15.55	107.94	6,410.35	-682.54	1,817.13	1,941.08	1.50	-1.48	0.96	
6,809.00	16.83	111.46	6,498.70	-691.21	1,841.25	1,966.72	1.75	1.39	3.83	
6,901.00	18.54	109.35	6,586.35	-700.93	1,867.45	1,994.66	1.98	1.86	-2.29	
6,993.00	19.99	104.16	6,673.20	-709.62	1,896.50	2,024.91	2.44	1.58	-5.64	
7,084.00	19.73	98.54	6,758.80	-715.71	1,926.78	2,055.38	2.12	-0.29	-6.18	
7,176.00	18.23	97.40	6,845.79	-719.87	1,956.41	2,084.56	1.68	-1.63	-1.24	
7,268.00	17.09	98.19	6,933.45	-723.65	1,984.06	2,111.77	1.27	-1.24	0.86	
7,360.00	15.20	93.70	7,021.83	-726.35	2,009.48	2,136.50	2.46	-2.05	-4.88	
7,452.00	14.19	93.62	7,110.81	-727.84	2,032.77	2,158.81	1.10	-1.10	-0.09	
7,544.00	11.07	98.45	7,200.58	-729.85	2,052.76	2,178.23	3.58	-3.39	5.25	
7,636.00	10.28	98.89	7,290.99	-732.42	2,069.61	2,194.90	0.86	-0.86	0.48	
7,727.00	9.44	99.07	7,380.64	-734.85	2,085.00	2,210.15	0.92	-0.92	0.20	
7,819.00	8.43	103.11	7,471.53	-737.57	2,099.02	2,224.23	1.29	-1.10	4.39	
7,910.00	6.41	107.50	7,561.76	-740.61	2,110.36	2,235.91	2.30	-2.22	4.82	
8,002.00	6.41	107.33	7,653.18	-743.69	2,120.16	2,246.17	0.02	0.00	-0.18	
8,092.00	5.31	109.00	7,742.71	-746.54	2,128.90	2,255.34	1.24	-1.22	1.86	
8,184.00	5.09	113.57	7,834.33	-749.56	2,136.66	2,263.68	0.51	-0.24	4.97	
8,276.00	2.59	114.89	7,926.12	-752.06	2,142.29	2,269.83	2.72	-2.72	1.43	
8,368.00	1.62	134.66	8,018.06	-753.85	2,145.10	2,273.09	1.30	-1.05	21.49	
8,460.00	1.88	138.97	8,110.02	-755.91	2,147.02	2,275.61	0.32	0.28	4.68	
8,551.00	1.97	164.46	8,200.97	-758.54	2,148.42	2,277.85	0.94	0.10	28.01	
8,641.00	1.88	176.85	8,290.92	-761.50	2,148.91	2,279.36	0.47	-0.10	13.77	
8,733.00	1.84	205.94	8,382.87	-764.34	2,148.35	2,279.83	1.02	-0.04	31.62	

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well RG 414-18-297 - Slot RG 414-18-297 A4
<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 414-18-297	<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)	
8,824.00	1.36	227.47	8,473.83	-766.38	2,146.91	2,279.21	0.84	-0.53	23.66	
8,916.00	1.58	226.95	8,565.80	-767.99	2,145.18	2,278.16	0.24	0.24	-0.57	
9,007.00	2.28	225.01	8,656.75	-770.12	2,142.99	2,276.86	0.77	0.77	-2.13	
9,099.00	2.41	232.66	8,748.68	-772.59	2,140.15	2,275.08	0.37	0.14	8.32	
9,190.00	2.46	247.95	8,839.59	-774.48	2,136.82	2,272.64	0.71	0.05	16.80	
9,281.00	2.46	246.28	8,930.51	-776.00	2,133.22	2,269.81	0.08	0.00	-1.84	
9,372.00	3.12	238.20	9,021.40	-778.09	2,129.33	2,266.90	0.84	0.73	-8.88	
9,464.00	3.29	235.21	9,113.26	-780.92	2,125.04	2,263.89	0.26	0.18	-3.25	
9,555.00	3.82	228.79	9,204.08	-784.40	2,120.61	2,260.98	0.73	0.58	-7.05	
9,646.00	3.69	235.47	9,294.89	-788.06	2,115.92	2,257.88	0.50	-0.14	7.34	
9,737.00	3.99	229.32	9,385.68	-791.78	2,111.10	2,254.70	0.56	0.33	-6.76	
9,828.00	3.64	230.64	9,476.48	-795.68	2,106.47	2,251.74	0.40	-0.38	1.45	
9,921.00	3.69	235.91	9,569.29	-799.23	2,101.71	2,248.54	0.37	0.05	5.67	
10,012.00	3.73	219.39	9,660.10	-803.16	2,097.41	2,245.90	1.17	0.04	-18.15	
10,103.00	3.69	235.21	9,750.92	-807.12	2,093.12	2,243.30	1.12	-0.04	17.38	
10,194.00	4.17	241.89	9,841.70	-810.35	2,087.80	2,239.46	0.73	0.53	7.34	
10,286.00	2.50	233.71	9,933.54	-813.11	2,083.23	2,236.16	1.88	-1.82	-8.89	
10,377.00	1.27	259.82	10,024.49	-814.46	2,080.64	2,234.21	1.62	-1.35	28.69	
10,469.00	1.75	279.07	10,116.46	-814.42	2,078.25	2,231.96	0.75	0.52	20.92	
10,560.00	2.63	262.01	10,207.40	-814.49	2,074.81	2,228.77	1.19	0.97	-18.75	
10,655.00	2.76	255.77	10,302.29	-815.36	2,070.43	2,224.98	0.34	0.14	-6.57	
10,749.00	3.07	239.95	10,396.17	-817.18	2,066.06	2,221.54	0.91	0.33	-16.83	
10,843.00	2.76	238.64	10,490.05	-819.61	2,061.95	2,218.55	0.34	-0.33	-1.39	
10,937.00	2.98	236.61	10,583.93	-822.14	2,057.98	2,215.73	0.26	0.23	-2.16	
11,031.00	3.38	240.04	10,677.79	-824.87	2,053.53	2,212.54	0.47	0.43	3.65	
11,124.00	3.38	237.84	10,770.62	-827.69	2,048.84	2,209.15	0.14	0.00	-2.37	
11,219.00	3.47	241.27	10,865.46	-830.57	2,043.95	2,205.59	0.24	0.09	3.61	
11,313.00	3.25	231.08	10,959.29	-833.61	2,039.38	2,202.39	0.68	-0.23	-10.84	
11,407.00	3.38	237.76	11,053.14	-836.76	2,034.96	2,199.37	0.43	0.14	7.11	
11,501.00	4.21	245.67	11,146.93	-839.66	2,029.47	2,195.26	1.04	0.88	8.41	
11,596.00	4.39	245.84	11,241.66	-842.58	2,022.98	2,190.22	0.19	0.19	0.18	
11,691.00	4.13	243.47	11,336.40	-845.60	2,016.60	2,185.32	0.33	-0.27	-2.49	
11,786.00	4.48	246.99	11,431.13	-848.58	2,010.13	2,180.32	0.46	0.37	3.71	
11,850.00	4.48	246.99	11,494.94	-850.53	2,005.52	2,176.70	0.00	0.00	0.00	
Last Survey @ 11850/ 11494.94 TVD										

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<b>Site:</b>	Fed 298-13-1 Pad	<b>MD Reference:</b>	RKB @ 30' @ 6697.00ft
<b>Well:</b>	RG 414-18-297	<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 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 414-18-297 VP	0.00	0.00	7,967.00	-788.48	2,086.41	1,754,012.380	2,205,598.160	39.869602	-108.330508
- survey misses target center by 67.52ft at 8315.85ft MD (7965.94 TVD, -752.83 N, 2143.74 E)									
- Circle (radius 75.00)									
RG 414-18-297 BHL	0.00	0.00	11,747.00	-788.52	2,086.41	1,754,012.338	2,205,598.160	39.869601	-108.330508
- survey misses target center by 271.89ft at 11850.00ft MD (11494.94 TVD, -850.53 N, 2005.52 E)									
- Point									

Survey Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)		
205.00	204.91	-1.37	5.08		First Survey @ 205 MD/ 204.91 TVD
11,850.00	11,494.94	-850.53	2,005.52		Last Survey @ 11850/ 11494.94 TVD

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