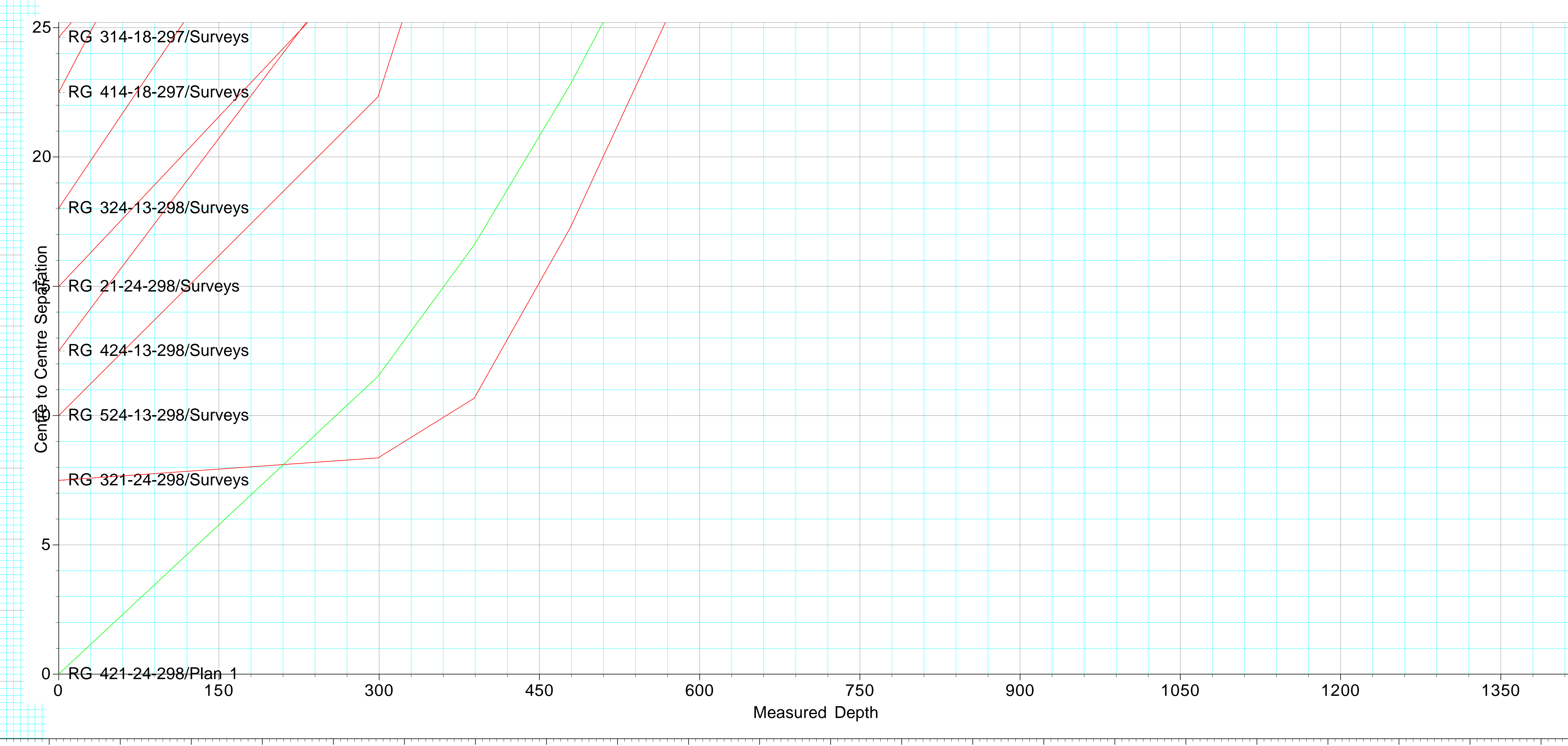
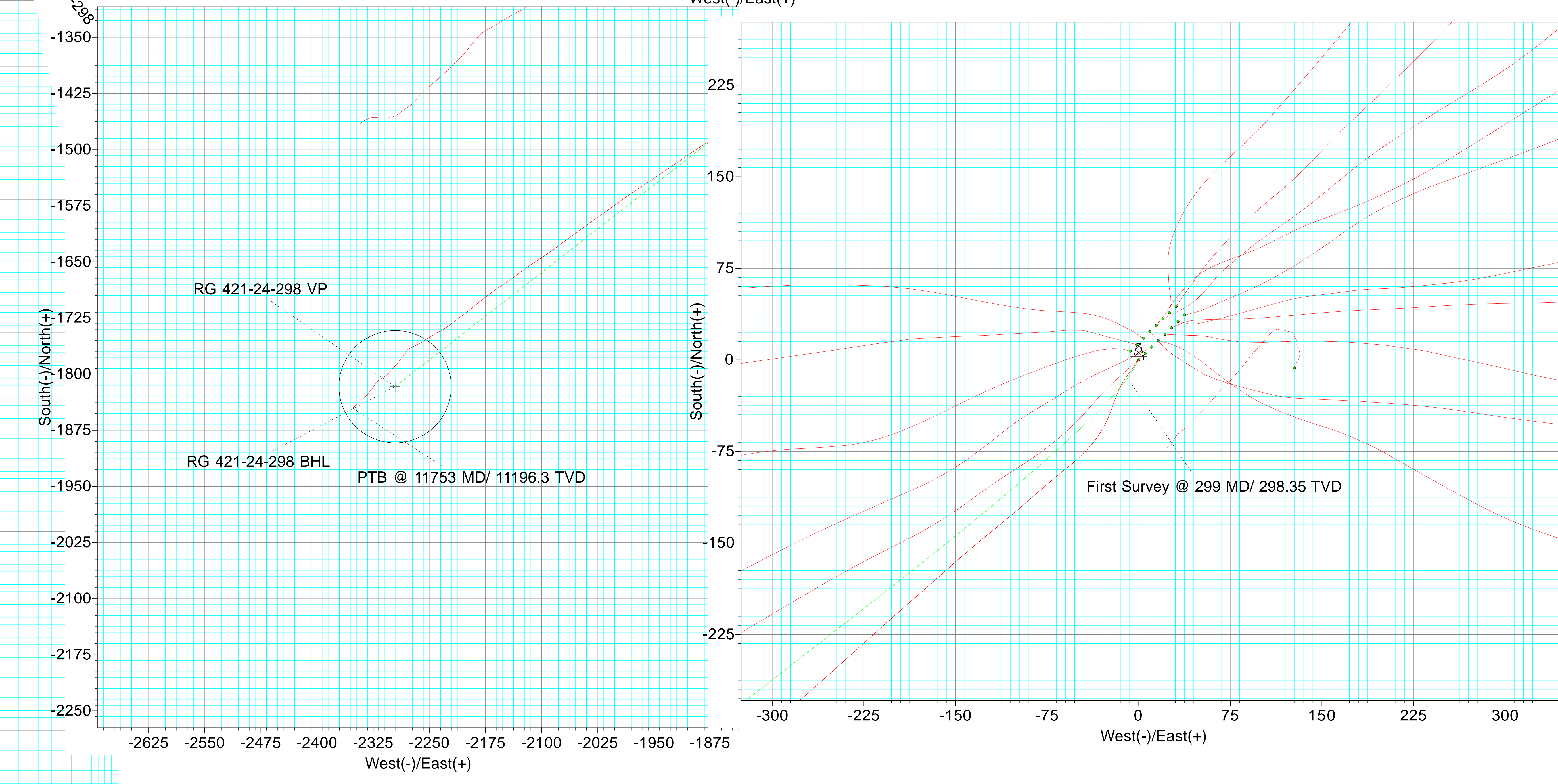
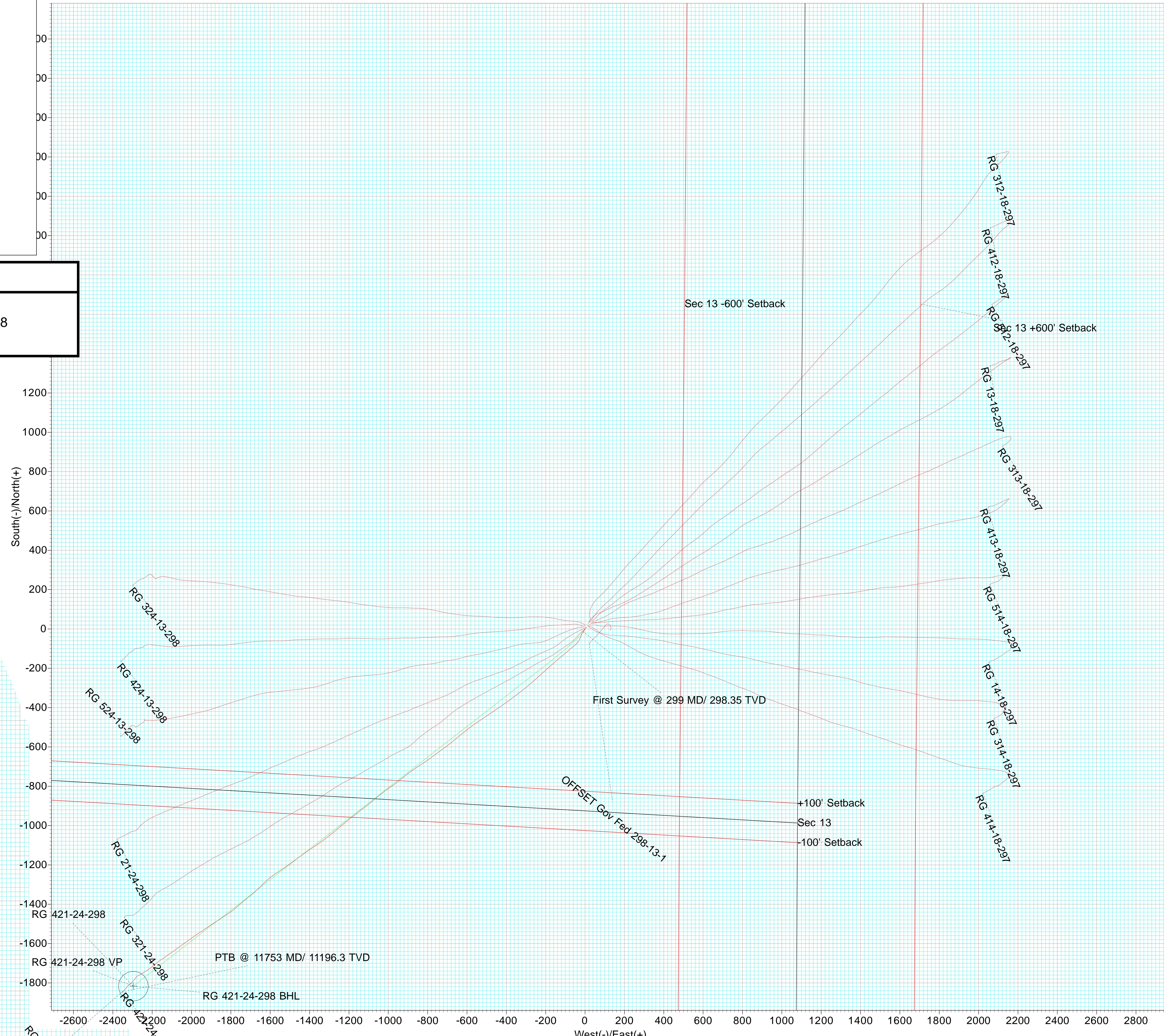
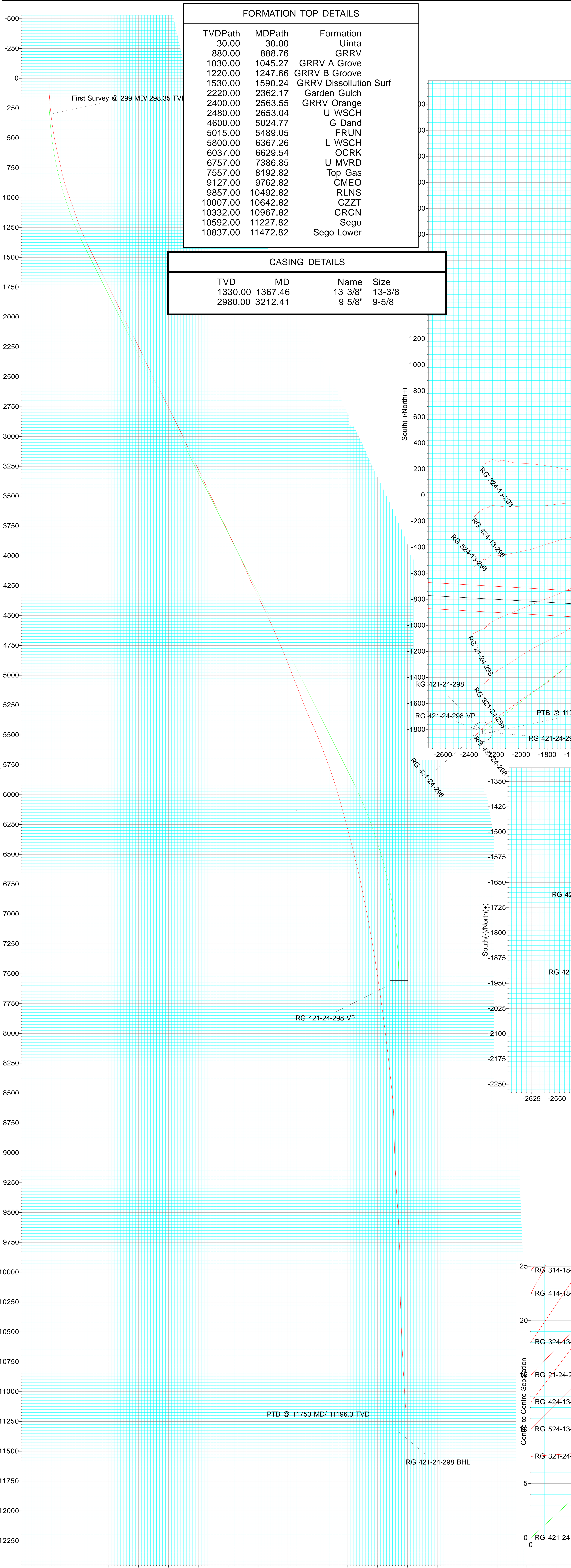


WELL DETAILS: RG 421-24-298						
+N/-S	+E/-W	Northing	Ground Level:	6667.00		
0.00	0.00	1754850.440	Easting	2203520.820	Latitude	39.871723
					Longitude	-108.337998
						Slot RG 421-24-298 A1

SLOTS					
Slot Name	+N/-S	+E/-W	Northing	Easting	
RG 13-18-297 B5	28.11	14.48	1754878.080	2203536.170	
RG 14-18-297 A5	20.95	21.47	1754870.710	2203542.930	
RG 21-24-298 A3	10.47	10.73	1754860.570	2203531.870	
RG 312-18-297 B7	38.58	25.22	1754888.210	2203547.230	
RG 313-18-297 A8	36.65	37.56	1754885.900	2203559.510	
RG 314-18-297 B4	22.88	9.12	1754873.020	2203530.650	
RG 321-24-298 A2	5.24	5.36	1754855.510	2203526.340	
RG 324-13-298 B3	17.63	3.75	1754867.940	2203525.120	
RG 412-18-297 B8	43.81	30.59	1754893.270	2203552.760	
RG 413-18-297 A7	31.42	32.19	1754880.840	2203553.980	
RG 414-18-297 A4	15.71	16.10	1754865.640	2203537.400	
RG 421-24-298 A1	0.00	0.00	1754850.440	2203520.820	
RG 424-13-298 B2	12.40	-1.62	1754862.880	2203519.590	
RG 512-18-297 B6	33.34	19.85	1754883.140	2203541.700	
RG 514-18-297 A6	26.18	26.83	1754875.770	2203548.450	
RG 524-13-298 B1	7.16	-6.99	1754857.810	2203514.060	

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
VP	7557.00	-1816.61	-2295.66	1753106.420	2201169.540	39.866736
BHL	1337.00	-1816.61	-2295.66	1753106.420	2201169.540	-108.346175

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
298.35	299.00	6.54	216.52	-13.70	-10.14	16.46	17.05	First Survey @ 299 MD/ 298.35 TVD	
11196.30	11753.00	4.57	230.81	-1845.30	-2352.36	2989.75	3003.53	PTB @ 11753 MD/ 11196.3 TVD	





Directional Survey Certification

Survey Company: Native Navigation Survey Company Job #: 24022923

Well Name: RG 421-24-298 A.P.I.# 05-103-12571 Operator Terra Energy Partners

Latitude: 40.217433 Longitude: -109.337998 County, State: Garfield County, CO

Legal Description (S,TS,R): Sec 13, T2S, R98W

Final Report 7/18/2024 Date of First Survey 2/24/2024 Date of Last Survey: 7/7/2024

Datum: NAD83 Survey MD From: 299.00 To: 11690 FT. Tool Type: MWD + HRGM

Bit to Sensor: 63 FT. Rig (Company & Number): HP 329 RKB Height: 30.00 FT.

Ground Elevation: 6667.00 Northings: 1754850.44 Eastings: 2203520.82

Surveyor Kyle Temple Depth of Final Projection: 11753 FT.

The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by Native Navigation. I am authorized and qualified to review the data, calculations and this report, and that the report represents a true and correct Directional Survey of this well, based on the original data corrected to True North and obtained at the well site. Wellbore coordinates are calculated using the minimum curvature method.


Signature

Well Planner
Title

Native Navigation
Company

7/18/24
Date



Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

Fed 298-13-1 Pad

RG 421-24-298 - Slot RG 421-24-298 A1

OWB

Survey: Surveys

Survey Certification Report

18 July, 2024



Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RG 421-24-298 - Slot RG 421-24-298 A1
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 421-24-298	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 421-24-298 - Slot RG 421-24-298 A1					
Well Position	+N/-S	0.00 ft	Northing:	1,754,850.440 usft	Latitude:	39.871723
	+E/-W	0.00 ft	Easting:	2,203,520.820 usft	Longitude:	-108.337998
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	231.64

Survey Program	Date	7/7/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
299.00	11,753.00	Surveys (OWB)	OWSG (REV5) MWD HDGM	OWSG MWD - Standard	

Survey								
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299.00	6.54	216.52	298.35	-13.70	-10.14	17.05	216.52	
First Survey @ 299 MD/ 298.35 TVD								
389.00	9.09	203.69	387.51	-24.33	-16.05	29.15	213.41	
479.00	11.42	199.12	476.07	-39.26	-21.83	44.92	209.07	
570.00	12.70	208.87	565.07	-56.54	-29.61	63.82	207.64	
661.00	13.79	223.72	653.68	-73.14	-41.94	84.31	209.83	
751.00	11.86	231.28	741.43	-86.68	-56.57	103.51	213.13	
842.00	14.10	229.71	830.10	-99.70	-72.32	123.17	215.96	
933.00	17.97	228.73	917.54	-116.13	-91.34	147.75	218.18	
1,023.00	20.87	230.76	1,002.42	-135.43	-114.19	177.15	220.14	
1,114.00	18.14	229.79	1,088.19	-154.84	-137.57	207.12	221.62	

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RG 421-24-298 - Slot RG 421-24-298 A1
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 421-24-298	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	NN

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)
1,204.00	19.29	228.21	1,173.43	-173.79	-159.35	235.79	222.52
1,299.00	22.19	228.82	1,262.26	-196.06	-184.56	269.26	223.27
1,477.00	26.14	227.83	1,424.63	-244.54	-238.94	341.90	224.34
1,568.00	26.98	228.45	1,506.03	-271.69	-269.25	382.50	224.74
1,659.00	27.02	231.08	1,587.11	-298.37	-300.78	423.66	225.23
1,749.00	26.93	232.66	1,667.32	-323.57	-332.89	464.24	225.81
1,840.00	26.19	233.45	1,748.72	-348.03	-365.41	504.63	226.40
1,931.00	26.54	233.80	1,830.25	-372.00	-397.94	544.74	226.93
2,022.00	25.48	235.21	1,912.03	-395.17	-430.43	584.32	227.45
2,113.00	25.31	235.91	1,994.24	-417.24	-462.61	622.98	227.95
2,204.00	27.02	236.09	2,075.91	-439.68	-495.88	662.73	228.44
2,294.00	27.46	236.09	2,155.93	-462.66	-530.07	703.58	228.88
2,385.00	26.93	235.21	2,236.87	-486.13	-564.40	744.89	229.26
2,475.00	25.35	231.69	2,317.67	-509.70	-596.26	784.43	229.48
2,567.00	24.74	230.64	2,401.02	-534.12	-626.60	823.35	229.56
2,658.00	25.70	230.37	2,483.34	-558.78	-656.52	862.12	229.60
2,749.00	27.24	231.52	2,564.80	-584.33	-688.02	902.67	229.66
2,840.00	27.20	234.77	2,645.73	-609.28	-721.32	944.21	229.81
2,930.00	26.10	233.19	2,726.17	-633.01	-753.97	984.47	229.98
3,021.00	27.02	232.92	2,807.56	-657.47	-786.49	1,025.10	230.11
3,112.00	27.46	236.79	2,888.48	-681.43	-820.54	1,066.59	230.29
3,189.00	25.75	236.61	2,957.32	-700.36	-849.36	1,100.87	230.49
3,322.00	23.95	233.19	3,078.01	-732.43	-895.10	1,156.57	230.71
3,412.00	27.02	231.43	3,159.24	-756.13	-925.72	1,195.28	230.76
3,504.00	24.65	231.96	3,242.04	-780.99	-957.17	1,235.36	230.79
3,595.00	25.66	235.30	3,324.42	-803.90	-988.32	1,273.98	230.88
3,686.00	23.77	233.45	3,407.08	-826.04	-1,019.25	1,311.95	230.98
3,778.00	26.23	230.64	3,490.45	-849.98	-1,049.87	1,350.81	231.01
3,869.00	25.13	229.76	3,572.46	-875.22	-1,080.17	1,390.24	230.98
3,960.00	26.80	232.84	3,654.28	-900.09	-1,111.27	1,430.07	230.99
4,052.00	24.43	232.40	3,737.23	-924.23	-1,142.88	1,469.82	231.04
4,143.00	24.96	231.87	3,819.91	-947.57	-1,172.89	1,507.83	231.07
4,235.00	25.00	231.25	3,903.30	-971.72	-1,203.32	1,546.68	231.08
4,327.00	27.11	230.20	3,985.95	-997.31	-1,234.59	1,587.09	231.07
4,419.00	24.52	229.23	4,068.76	-1,023.20	-1,265.16	1,627.14	231.04
4,510.00	22.71	232.57	4,152.14	-1,046.21	-1,293.41	1,663.58	231.03
4,601.00	25.26	232.04	4,235.28	-1,068.84	-1,322.68	1,700.55	231.06
4,693.00	26.36	235.30	4,318.10	-1,092.54	-1,354.95	1,740.55	231.12
4,785.00	24.87	237.23	4,401.06	-1,114.64	-1,388.01	1,780.17	231.23
4,876.00	26.05	234.50	4,483.22	-1,136.60	-1,420.37	1,819.15	231.33
4,968.00	24.21	233.98	4,566.51	-1,159.43	-1,452.08	1,858.17	231.39
5,060.00	23.07	233.19	4,650.79	-1,181.32	-1,481.77	1,895.03	231.44
5,151.00	24.12	235.03	4,734.18	-1,202.66	-1,511.28	1,931.41	231.49
5,243.00	22.63	236.70	4,818.63	-1,223.15	-1,541.48	1,967.81	231.57

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RG 421-24-298 - Slot RG 421-24-298 A1
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 421-24-298	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	NN

Survey									
MD (ft)	Inc (°)	Azi (azimuth) (°)		TVD (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	
5,335.00	20.91	235.47	235.47	4,904.07	-1,242.18	-1,569.80	2,001.82	231.65	
5,427.00	20.83	232.57	232.57	4,990.03	-1,261.43	-1,596.31	2,034.56	231.68	
5,518.00	22.06	227.30	227.30	5,074.74	-1,282.85	-1,621.72	2,067.78	231.65	
5,609.00	21.09	224.75	224.75	5,159.36	-1,306.07	-1,645.81	2,101.07	231.57	
5,701.00	21.53	227.47	227.47	5,245.08	-1,329.24	-1,669.90	2,134.35	231.48	
5,793.00	23.29	229.41	229.41	5,330.13	-1,352.49	-1,696.16	2,169.37	231.43	
5,884.00	23.95	231.43	231.43	5,413.50	-1,375.71	-1,724.26	2,205.82	231.42	
5,977.00	22.50	229.50	229.50	5,498.97	-1,399.03	-1,752.55	2,242.49	231.40	
6,068.00	21.18	228.88	228.88	5,583.43	-1,421.16	-1,778.18	2,276.31	231.37	
6,159.00	20.87	235.91	235.91	5,668.39	-1,441.05	-1,803.99	2,308.90	231.38	
6,251.00	19.46	235.91	235.91	5,754.75	-1,458.83	-1,830.26	2,340.52	231.44	
6,343.00	18.89	236.97	236.97	5,841.64	-1,475.54	-1,855.43	2,370.62	231.51	
6,435.00	17.40	237.84	237.84	5,929.07	-1,490.98	-1,879.57	2,399.12	231.58	
6,526.00	16.08	235.74	235.74	6,016.21	-1,505.32	-1,901.50	2,425.22	231.63	
6,618.00	15.38	235.47	235.47	6,104.76	-1,519.40	-1,922.08	2,450.10	231.67	
6,710.00	15.33	236.17	236.17	6,193.48	-1,533.09	-1,942.24	2,474.40	231.71	
6,801.00	14.76	236.61	236.61	6,281.36	-1,546.17	-1,961.91	2,497.94	231.76	
6,893.00	14.58	235.91	235.91	6,370.36	-1,559.11	-1,981.28	2,521.17	231.80	
6,985.00	13.66	233.01	233.01	6,459.58	-1,572.13	-1,999.55	2,543.58	231.82	
7,077.00	13.49	235.47	235.47	6,549.01	-1,584.75	-2,017.07	2,565.15	231.84	
7,169.00	13.27	234.33	234.33	6,638.51	-1,596.99	-2,034.48	2,586.41	231.87	
7,261.00	12.08	233.45	233.45	6,728.27	-1,608.88	-2,050.80	2,606.58	231.89	
7,353.00	11.46	234.50	234.50	6,818.33	-1,619.92	-2,065.97	2,625.34	231.90	
7,445.00	11.33	232.75	232.75	6,908.52	-1,630.70	-2,080.61	2,643.50	231.91	
7,536.00	11.25	235.82	235.82	6,997.76	-1,641.10	-2,095.06	2,661.30	231.93	
7,628.00	10.28	237.23	237.23	7,088.14	-1,650.58	-2,109.39	2,678.42	231.96	
7,720.00	10.01	233.54	233.54	7,178.70	-1,659.78	-2,122.72	2,694.59	231.98	
7,812.00	9.49	233.10	233.10	7,269.37	-1,669.08	-2,135.22	2,710.17	231.99	
7,903.00	9.27	236.79	236.79	7,359.16	-1,677.60	-2,147.35	2,724.97	232.00	
7,994.00	8.78	236.00	236.00	7,449.03	-1,685.50	-2,159.24	2,739.20	232.02	
8,085.00	8.21	232.40	232.40	7,539.03	-1,693.35	-2,170.15	2,752.63	232.04	
8,177.00	8.30	231.43	231.43	7,630.08	-1,701.50	-2,180.54	2,765.84	232.03	
8,269.00	7.86	231.08	231.08	7,721.17	-1,709.59	-2,190.63	2,778.77	232.03	
8,360.00	7.82	231.69	231.69	7,811.32	-1,717.34	-2,200.33	2,791.18	232.03	
8,452.00	7.33	234.50	234.50	7,902.51	-1,724.62	-2,210.02	2,803.30	232.03	
8,544.00	7.07	230.20	230.20	7,993.79	-1,731.66	-2,219.15	2,814.83	232.03	
8,636.00	6.98	238.90	238.90	8,085.10	-1,738.17	-2,228.28	2,826.03	232.04	
8,727.00	6.45	240.75	240.75	8,175.48	-1,743.52	-2,237.48	2,836.58	232.07	
8,819.00	6.59	238.55	238.55	8,266.88	-1,748.80	-2,246.49	2,846.93	232.10	
8,910.00	6.10	236.44	236.44	8,357.32	-1,754.20	-2,254.97	2,856.94	232.12	
9,003.00	6.28	243.12	243.12	8,449.78	-1,759.23	-2,263.63	2,866.86	232.15	
9,093.00	5.14	243.56	243.56	8,539.33	-1,763.25	-2,271.63	2,875.65	232.18	
9,185.00	2.94	238.28	238.28	8,631.10	-1,766.33	-2,277.33	2,882.03	232.20	
9,277.00	1.53	214.82	214.82	8,723.03	-1,768.58	-2,280.03	2,885.55	232.20	
9,368.00	1.75	200.32	200.32	8,813.99	-1,770.88	-2,281.21	2,887.89	232.18	

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well RG 421-24-298 - Slot RG 421-24-298 A1
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 421-24-298	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	NN

Survey								
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	
9,460.00	1.53	215.17	8,905.96	-1,773.20	-2,282.41	2,890.26	232.16	
9,551.00	1.84	223.78	8,996.92	-1,775.24	-2,284.12	2,892.87	232.15	
9,644.00	2.50	223.78	9,089.85	-1,777.79	-2,286.55	2,896.35	232.14	
9,736.00	2.81	213.50	9,181.75	-1,781.12	-2,289.19	2,900.47	232.12	
9,827.00	3.38	220.18	9,272.62	-1,785.03	-2,292.15	2,905.21	232.09	
9,918.00	4.21	222.99	9,363.42	-1,789.52	-2,296.16	2,911.14	232.07	
10,010.00	4.08	221.23	9,455.18	-1,794.45	-2,300.62	2,917.69	232.05	
10,101.00	3.33	223.34	9,545.99	-1,798.81	-2,304.56	2,923.48	232.03	
10,193.00	1.53	232.84	9,637.90	-1,801.49	-2,307.38	2,927.35	232.02	
10,287.00	2.98	239.60	9,731.83	-1,803.49	-2,310.48	2,931.02	232.03	
10,382.00	2.59	236.26	9,826.71	-1,805.93	-2,314.40	2,935.61	232.04	
10,476.00	0.70	234.77	9,920.67	-1,807.44	-2,316.63	2,938.31	232.04	
10,570.00	0.13	228.53	10,014.67	-1,807.84	-2,317.18	2,938.99	232.04	
10,663.00	0.52	201.11	10,107.67	-1,808.31	-2,317.41	2,939.45	232.03	
10,757.00	0.96	236.44	10,201.66	-1,809.14	-2,318.22	2,940.60	232.03	
10,851.00	2.06	221.59	10,295.62	-1,810.84	-2,320.00	2,943.05	232.03	
10,946.00	1.88	216.84	10,390.57	-1,813.36	-2,322.07	2,946.23	232.01	
11,040.00	2.54	215.61	10,484.50	-1,816.29	-2,324.21	2,949.72	231.99	
11,134.00	2.50	219.04	10,578.41	-1,819.58	-2,326.71	2,953.72	231.97	
11,229.00	3.07	216.31	10,673.29	-1,823.23	-2,329.52	2,958.19	231.95	
11,324.00	2.59	222.38	10,768.18	-1,826.87	-2,332.48	2,962.75	231.93	
11,418.00	3.25	228.00	10,862.06	-1,830.22	-2,335.89	2,967.50	231.92	
11,513.00	3.55	226.24	10,956.89	-1,834.06	-2,340.01	2,973.12	231.91	
11,606.00	3.55	223.69	11,049.71	-1,838.13	-2,344.08	2,978.83	231.90	
11,690.00	4.57	230.81	11,133.50	-1,842.13	-2,348.47	2,984.75	231.89	
11,753.00	4.57	230.81	11,196.30	-1,845.30	-2,352.36	2,989.77	231.89	
PTB @ 11753 MD/ 11196.3 TVD								

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
299.00	298.35	-13.70	-10.14	First Survey @ 299 MD/ 298.35 TVD
11,753.00	11,196.30	-1,845.30	-2,352.36	PTB @ 11753 MD/ 11196.3 TVD

Checked By: _____ Approved By: _____ Date: _____