

Sec 18, T2S, R97W
RG 543-18-297
Q210083 & RM-210075
ST01 Plan 1

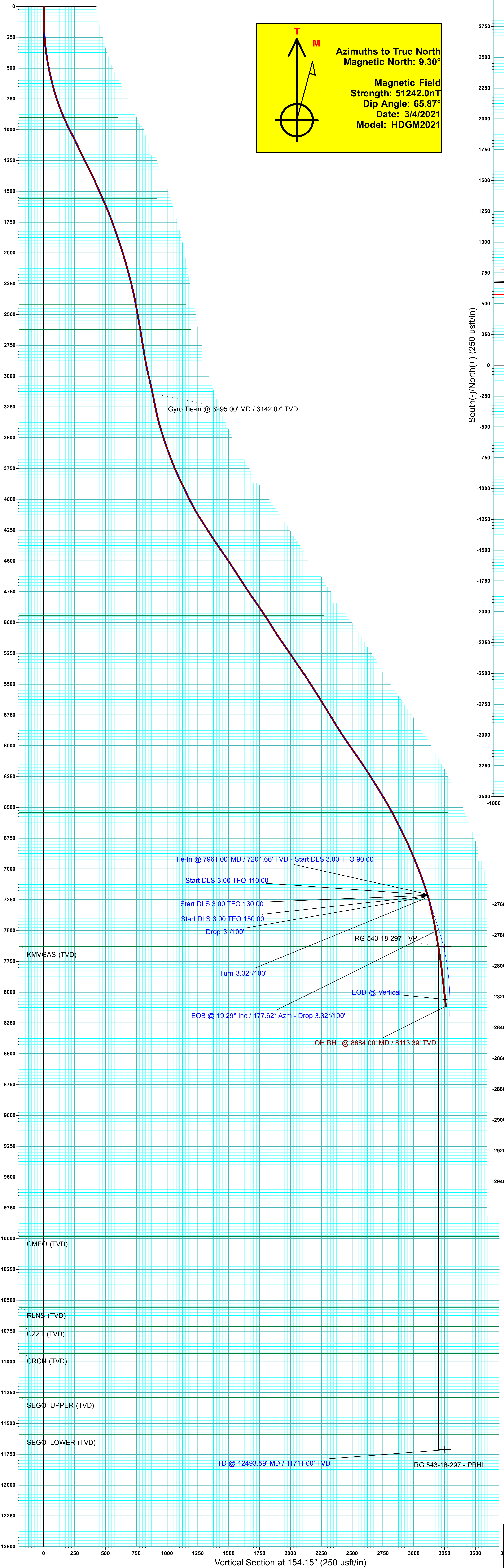
Company Name: Terra Energy Partners, LLP
RG 543-18-297
Rio Blanco County, CO
Rig: KB=30' @ 6650.90usft (H&P #329)
Created by: Chase Chambers
Date: 11:39, March 17 2021

PROJECT DETAILS: Rio Blanco County, CO

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 543-18-297						
Ground Elevation:		6620.90				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1758360.40	2207900.90	39.881728	-108.322789	



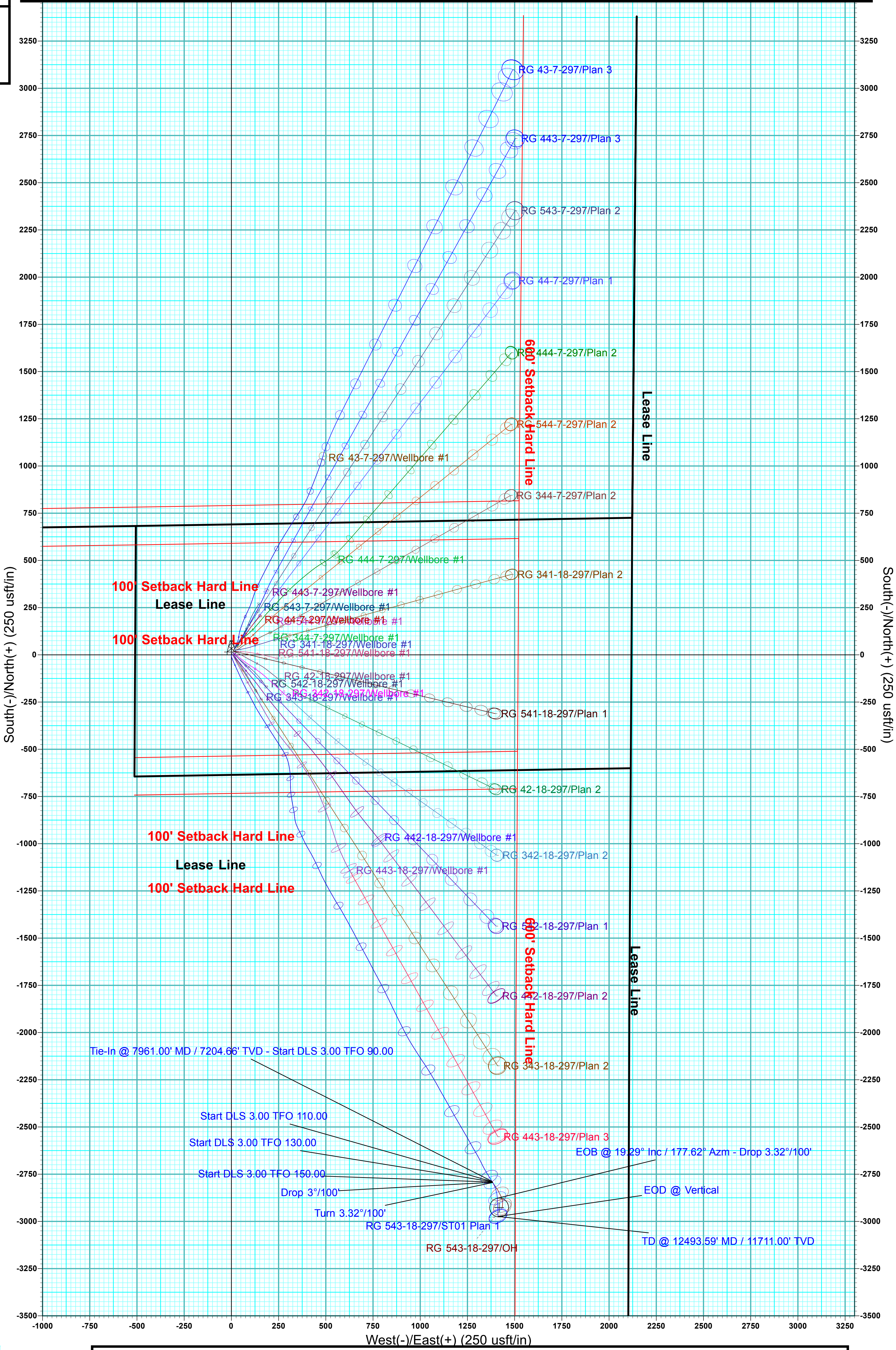
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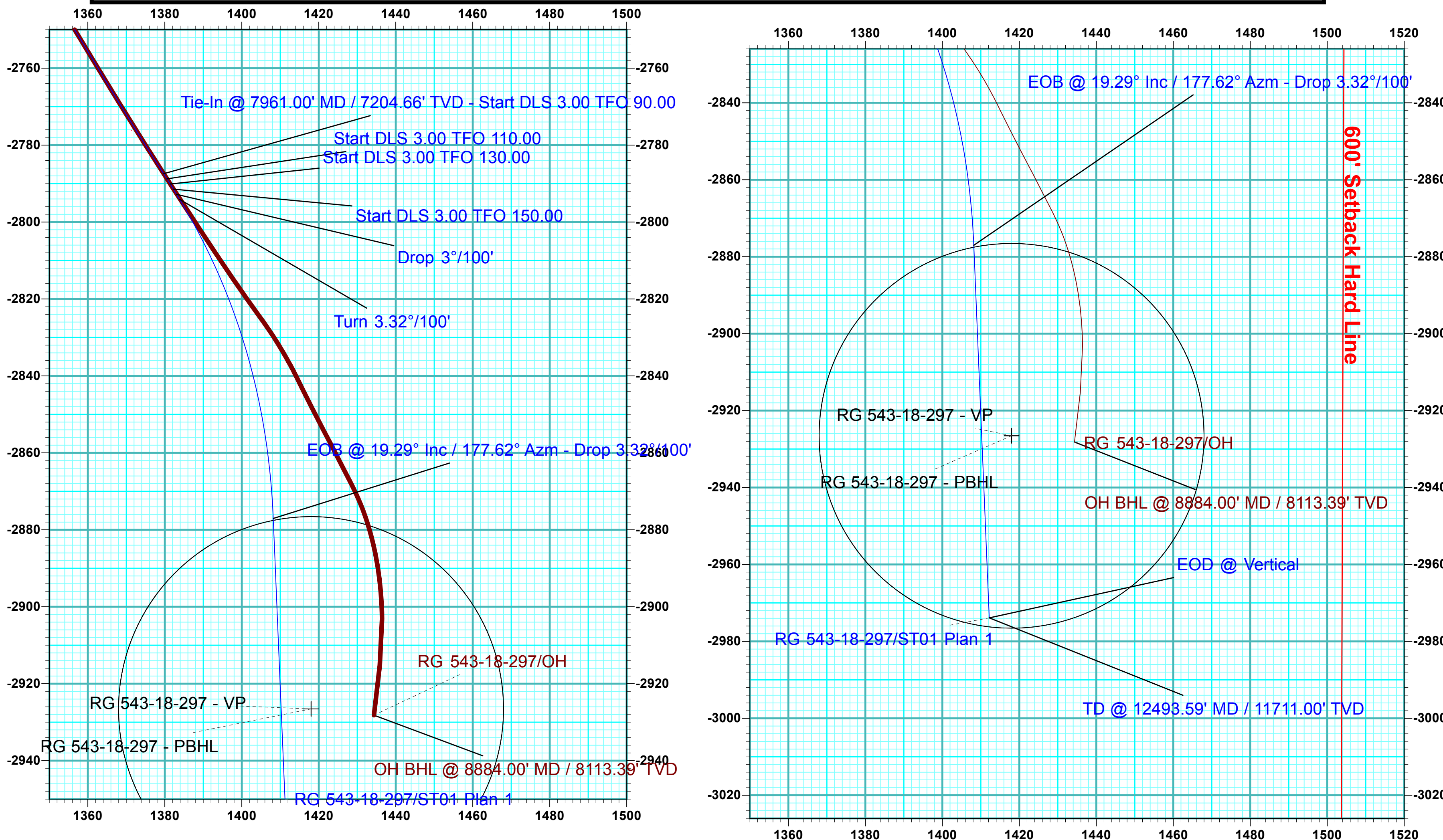
Azimuths to True North
Magnetic North: 9.30°

Magnetic Field
Strength: 51242.0nT
Dip Angle: 65.87°
Date: 3/4/2021
Model: HDGM2021

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
RG 543-18-297 - VP	7631.00	-2926.56	1418.00	1755391.20	2209227.30	39.873694	-108.317737
RG 543-18-297 - PBHL	11711.00	-2926.56	1418.00	1755391.20	2209227.30	39.873694	-108.317737



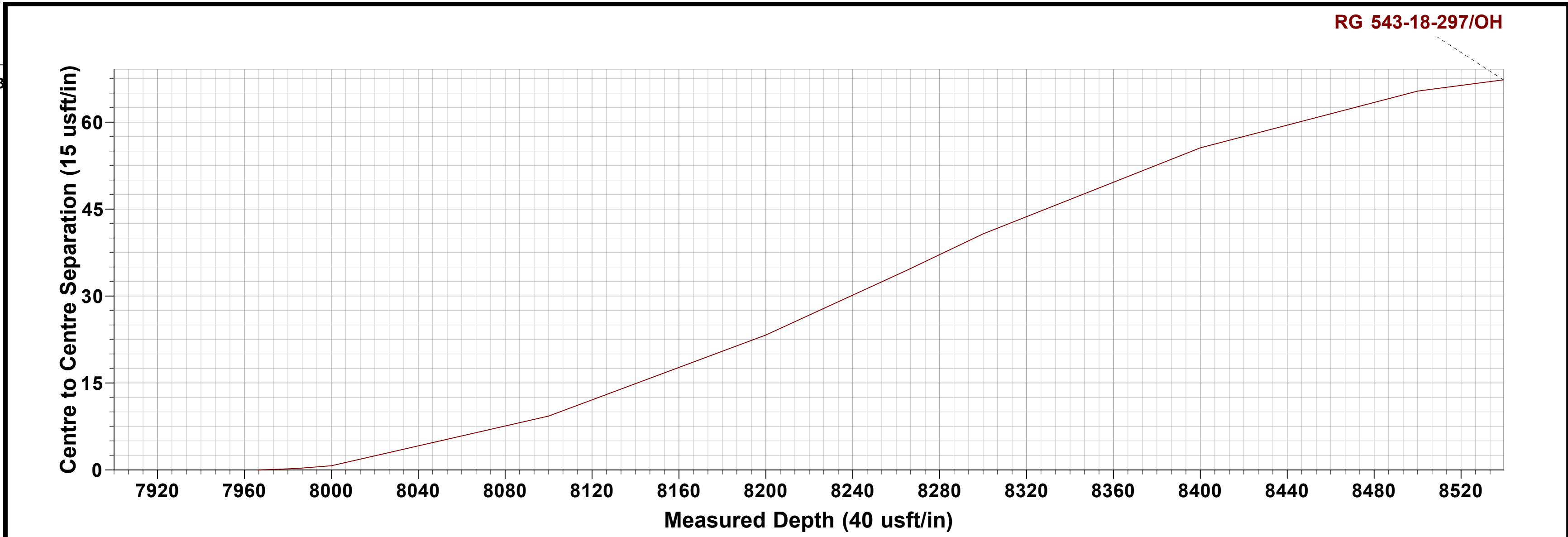
OH ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
3295.00	11.95	168.38	3142.07	-820.85	329.87	882.54	900.49	Gyro Tie-in @ 3295.00' MD / 3142.07' TVD	
8884.00	7.43	186.66	8113.39	-2928.18	1434.35	3260.58	3291.70	OH BHL @ 8884.00' MD / 8113.39' TVD	



DESIGN ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
7961.00	18.46	147.20	7204.66	-2787.43	1379.72	3110.10	0.00	Tie-In @ 7961.00' MD / 7204.66' TVD - Start DLS 3.00 TFO 90.00
7966.00	18.46	147.67	7209.41	-2788.77	1380.57	3111.67	1.58	Start DLS 3.00 TFO 110.00
7971.00	18.41	148.12	7214.15	-2790.11	1381.41	3113.24	3.16	Start DLS 3.00 TFO 130.00
7976.00	18.31	148.49	7218.90	-2791.45	1382.24	3114.81	4.74	Start DLS 3.00 TFO 150.00
7981.00	18.18	148.73	7223.64	-2792.78	1383.06	3116.37	6.31	Drop 3"/100'
7986.00	18.03	148.73	7228.40	-2794.11	1383.86	3117.92	7.86	Turn 3.32"/100'
8264.40	19.29	177.62	7492.72	-2877.06	1408.19	3203.17	95.42	EOB @ 19.29° Inc / 177.62° Azm - Drop 3.32"/100'
8845.59	0.00	0.00	8063.00	-2973.87	1412.21	3292.05	192.32	EOD @ Vertical
12493.59	0.00	0.00	11711.00	-2973.87	1412.21	3292.05	192.32	TD @ 12493.59' MD / 11711.00' TVD

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
901.00	922.67	GRRV (TVD)
1061.00	1100.46	GRRV_A GROOVE (TVD)
1246.00	1305.87	GRRV_B GROOVE (TVD)
1561.00	1654.46	GRRV DISSOLUTION SURF (TVD)
2416.00	2554.33	GRRV_ORANGE (TVD)
2621.00	2763.18	WSTC (TVD)
4941.00	5330.47	G_SAND (TVD)
5271.00	5726.60	Fort Union (TVD)
6541.00	7237.18	MVRD (TVD)
7631.00	8408.95	KMGAS (TVD)
9981.00	10763.59	CMEQ (TVD)
10561.00	11343.59	RLNS (TVD)
10711.00	11493.59	CZZT (TVD)
10931.00	11713.59	CRCN (TVD)
11291.00	12073.59	SEGO_UPPER (TVD)
11591.00	12373.59	SEGO_LOWER (TVD)

SLOTS				
Slot Name	+N/-S	+E/-W	Northing	Easting
(A1) RG 443-18	-4.22	9.04	1758355.90	2207909.80
(A2) RG 442-18	2.58	12.23	1758362.60	2207913.20
(A3) RG 342-18	9.38	15.42	1758368.30	2207916.50
(A4) RG 42-18	16.18	18.51	1758375.00	2207919.80
(A5) RG 341-18	22.99	21.70	1758382.70	2207923.30
(A6) RG 344-7	29.79	24.89	1758389.40	2207926.70
(A7) RG 544-7	36.59	28.08	1758396.10	2207930.10
(A8) RG 444-7	43.39	31.27	1758402.80	2207933.50
(A9) RG 41-18	50.82	36.83	1758410.05	2207939.29
(B1) RG 543-18	0.00	0.00	1758360.40	2207900.90
(B2) RG 343-18	6.80	3.09	1758367.10	2207904.20
(B3) RG 542-18	13.60	6.28	1758373.80	2207907.60
(B4) RG 541-18	20.40	9.47	1758380.50	2207911.00
(B5) RG 44-7	27.21	12.66	1758387.20	2207914.40
(B6) RG 543-7	34.01	15.85	1758393.90	2207917.80
(B7) RG 443-7	40.81	19.04	1758400.60	2207921.20
(B8) RG 43-7	47.67	22.20	1758407.36	2207924.57





Terra Energy Partners, LLP

Rio Blanco County, CO

Sec 18, T2S, R97W

RG 543-18-297

ST01

Plan: ST01 Plan 1

KLX Well Planning Report

17 March, 2021



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 543-18-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6650.90usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6650.90usft (H&P #329)
Site:	Sec 18, T2S, R97W	North Reference:	True
Well:	RG 543-18-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	ST01 Plan 1		

Project	Rio Blanco County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	Sec 18, T2S, R97W			
Site Position:		Northing:	1,758,376.00 usft	Latitude: 39.881773
From:	Map	Easting:	2,207,919.90 usft	Longitude: -108.322723
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: -1.78 °

Well	RG 543-18-297			
Well Position	+N/-S	-16.18 usft	Northing:	1,758,360.40 usft
	+E/-W	-18.51 usft	Easting:	2,207,900.90 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:		Ground Level: 6,620.90 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021	3/4/2021	9.30	65.87	51,242.00000000

Design	ST01 Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	7,961.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	154.15

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
7,961.00	18.46	147.20	7,204.66	-2,787.43	1,379.72	0.00	0.00	0.00	0.00	
7,966.00	18.46	147.67	7,209.41	-2,788.77	1,380.57	3.00	0.01	9.47	90.00	
7,971.00	18.41	148.12	7,214.15	-2,790.11	1,381.41	3.00	-1.02	8.93	110.00	
7,976.00	18.31	148.49	7,218.90	-2,791.45	1,382.24	3.00	-1.92	7.31	130.00	
7,981.00	18.18	148.73	7,223.64	-2,792.78	1,383.06	3.00	-2.60	4.81	150.00	
7,986.00	18.03	148.73	7,228.40	-2,794.11	1,383.86	3.00	-3.00	0.00	180.00	
8,264.40	19.29	177.62	7,492.72	-2,877.06	1,408.19	3.32	0.45	10.38	96.17	
8,845.59	0.00	0.00	8,063.00	-2,973.87	1,412.21	3.32	-3.32	0.00	180.00	
12,493.59	0.00	0.00	11,711.00	-2,973.87	1,412.21	0.00	0.00	0.00	0.00	RG 543-18-297 - PBT

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Site:	Sec 18, T2S, R97W	North Reference:	True
Well:	RG 543-18-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	ST01 Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	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
207.00	2.68	180.07	206.92	-4.84	-0.01	4.35	1.29	1.29	0.00
301.00	5.54	163.55	300.68	-11.39	1.28	10.81	3.26	3.04	-17.57
394.00	8.31	158.54	392.99	-21.95	5.01	21.94	3.05	2.98	-5.39
488.00	11.03	156.78	485.65	-36.54	11.04	37.70	2.91	2.89	-1.87
582.00	12.88	155.64	577.60	-54.35	18.91	57.16	1.98	1.97	-1.21
675.00	15.34	155.20	667.79	-74.96	28.34	79.82	2.65	2.65	-0.47
768.00	18.90	155.99	756.65	-99.90	39.64	107.18	3.84	3.83	0.85
862.00	21.53	155.64	844.86	-129.52	52.95	139.65	2.80	2.80	-0.37
956.00	23.82	153.09	931.59	-162.17	68.65	175.87	2.65	2.44	-2.71
1,049.00	27.82	152.12	1,015.29	-198.11	87.31	216.36	4.32	4.30	-1.04
1,143.00	26.06	152.91	1,099.08	-235.88	106.97	258.92	1.91	-1.87	0.84
1,238.00	24.92	151.59	1,184.83	-272.07	126.00	299.78	1.34	-1.20	-1.39
1,332.00	27.03	148.43	1,269.34	-307.69	146.60	340.82	2.68	2.24	-3.36
1,426.00	27.20	147.99	1,353.01	-344.11	169.18	383.44	0.28	0.18	-0.47
1,520.00	23.29	147.46	1,438.01	-378.00	190.57	423.27	4.17	-4.16	-0.56
1,615.00	24.13	147.38	1,524.99	-410.19	211.14	461.21	0.88	0.88	-0.08
1,709.00	24.17	147.29	1,610.77	-442.57	231.89	499.39	0.06	0.04	-0.10
1,803.00	21.05	147.20	1,697.53	-472.96	251.44	535.26	3.32	-3.32	-0.10
1,897.00	19.69	147.38	1,785.65	-500.49	269.12	567.75	1.45	-1.45	0.19
1,991.00	19.02	152.38	1,874.34	-527.40	284.76	598.79	1.90	-0.71	5.32
2,085.00	18.11	160.91	1,963.47	-554.78	296.65	628.61	3.04	-0.97	9.07
2,177.00	16.74	168.21	2,051.26	-581.27	304.03	655.67	2.80	-1.49	7.93
2,268.00	15.91	171.81	2,138.59	-606.44	308.49	680.27	1.44	-0.91	3.96
2,358.00	15.47	175.94	2,225.24	-630.63	311.09	703.17	1.33	-0.49	4.59
2,449.00	13.89	178.14	2,313.26	-653.65	312.31	724.42	1.84	-1.74	2.42
2,539.00	11.87	179.37	2,401.00	-673.71	312.76	742.66	2.26	-2.24	1.37
2,630.00	11.03	179.19	2,490.18	-691.77	312.98	759.02	0.92	-0.92	-0.20
2,720.00	10.77	176.82	2,578.56	-708.77	313.57	774.58	0.58	-0.29	-2.63
2,810.00	10.20	175.33	2,667.06	-725.11	314.69	789.77	0.70	-0.63	-1.66
2,899.00	9.32	173.13	2,754.77	-740.12	316.19	803.93	1.07	-0.99	-2.47
2,992.00	10.15	171.11	2,846.43	-755.69	318.36	818.89	0.96	0.89	-2.17
3,083.00	12.61	170.84	2,935.63	-773.43	321.18	836.08	2.70	2.70	-0.30
3,173.00	14.02	169.79	3,023.21	-793.85	324.68	855.98	1.59	1.57	-1.17
3,263.00	12.57	168.73	3,110.80	-814.19	328.52	875.96	1.63	-1.61	-1.18
3,295.00	11.95	168.38	3,142.07	-820.85	329.87	882.54	1.95	-1.94	-1.09
3,438.00	12.04	174.97	3,281.95	-850.21	334.16	910.84	0.96	0.06	4.61
3,528.00	15.73	171.81	3,369.31	-871.64	336.72	931.24	4.18	4.10	-3.51
3,618.00	17.45	159.86	3,455.58	-896.40	343.11	956.30	4.24	1.91	-13.28
3,709.00	18.68	153.18	3,542.11	-922.22	354.38	984.45	2.65	1.35	-7.34
3,800.00	20.30	153.53	3,627.89	-949.35	368.00	1,014.81	1.78	1.78	0.38
3,890.00	21.97	155.64	3,711.83	-978.67	381.90	1,047.26	2.04	1.86	2.34
3,980.00	24.48	151.16	3,794.54	-1,010.35	397.84	1,082.72	3.41	2.79	-4.98
4,071.00	25.75	149.66	3,876.94	-1,043.92	416.92	1,121.25	1.56	1.40	-1.65
4,162.00	25.66	153.70	3,958.94	-1,078.65	435.64	1,160.66	1.93	-0.10	4.44
4,253.00	27.47	154.14	4,040.33	-1,115.20	453.53	1,201.36	2.00	1.99	0.48
4,342.00	31.42	155.90	4,117.82	-1,154.87	471.96	1,245.09	4.54	4.44	1.98
4,432.00	32.74	152.21	4,194.08	-1,197.82	492.89	1,292.87	2.62	1.47	-4.10
4,522.00	32.83	150.63	4,269.74	-1,240.61	516.20	1,341.54	0.96	0.10	-1.76
4,612.00	33.97	150.54	4,344.88	-1,283.76	540.53	1,390.99	1.27	1.27	-0.10
4,703.00	34.98	147.46	4,419.90	-1,327.90	567.07	1,442.28	2.21	1.11	-3.38
4,793.00	34.15	151.42	4,494.02	-1,371.83	593.03	1,493.14	2.66	-0.92	4.40
4,883.00	32.43	150.63	4,569.25	-1,415.05	616.96	1,542.46	1.97	-1.91	-0.88
4,973.00	33.93	152.12	4,644.58	-1,458.29	640.54	1,591.65	1.90	1.67	1.66

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Planned Survey									
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5,063.00	32.17	152.12	4,720.01	-1,501.67	663.49	1,640.70	1.96	-1.96	0.00
5,152.00	35.46	151.33	4,793.95	-1,545.28	686.96	1,690.18	3.73	3.70	-0.89
5,243.00	34.19	151.51	4,868.65	-1,590.91	711.82	1,742.09	1.40	-1.40	0.20
G_SAND (TVD)									
5,330.47	34.19	152.76	4,941.00	-1,634.36	734.79	1,791.21	0.81	0.00	1.43
5,335.00	34.19	152.83	4,944.75	-1,636.63	735.96	1,793.75	0.81	0.01	1.43
5,424.00	30.94	152.03	5,019.75	-1,679.09	758.11	1,841.63	3.68	-3.65	-0.90
5,515.00	33.88	151.42	5,096.56	-1,722.04	781.22	1,890.35	3.25	3.23	-0.67
5,605.00	34.67	153.44	5,170.94	-1,766.96	804.67	1,941.01	1.54	0.88	2.24
5,695.00	34.67	154.14	5,244.96	-1,812.90	827.28	1,992.20	0.44	0.00	0.78
Fort Union (TVD)									
5,726.60	34.32	154.14	5,271.00	-1,829.00	835.09	2,010.10	1.12	-1.12	0.00
5,785.00	33.66	154.14	5,319.42	-1,858.38	849.33	2,042.75	1.12	-1.12	0.00
5,876.00	35.16	154.06	5,394.50	-1,904.63	871.79	2,094.17	1.65	1.65	-0.09
5,967.00	32.56	153.53	5,470.06	-1,950.12	894.17	2,144.87	2.88	-2.86	-0.58
6,057.00	32.08	152.39	5,546.12	-1,992.98	916.04	2,192.97	0.86	-0.53	-1.27
6,147.00	32.70	150.45	5,622.12	-2,035.31	939.11	2,241.12	1.34	0.69	-2.16
6,239.00	31.68	147.46	5,699.98	-2,077.30	964.36	2,289.92	2.06	-1.11	-3.25
6,328.00	30.89	147.73	5,776.04	-2,116.32	989.13	2,335.83	0.90	-0.89	0.30
6,420.00	32.43	145.79	5,854.34	-2,156.69	1,015.61	2,383.71	2.01	1.67	-2.11
6,510.00	34.28	147.64	5,929.52	-2,198.06	1,042.75	2,432.78	2.35	2.06	2.06
6,600.00	34.58	149.49	6,003.75	-2,241.48	1,069.28	2,483.41	1.21	0.33	2.06
6,690.00	35.38	151.33	6,077.50	-2,286.34	1,094.75	2,534.90	1.47	0.89	2.04
6,780.00	33.84	150.19	6,151.57	-2,330.95	1,119.71	2,585.92	1.86	-1.71	-1.27
6,871.00	32.17	150.63	6,227.88	-2,374.05	1,144.19	2,635.38	1.85	-1.84	0.48
6,961.00	32.74	150.72	6,303.82	-2,416.16	1,167.84	2,683.59	0.64	0.63	0.10
7,052.00	31.16	149.57	6,381.04	-2,457.92	1,191.80	2,731.63	1.86	-1.74	-1.26
7,145.00	30.67	149.84	6,460.82	-2,499.18	1,215.90	2,779.26	0.55	-0.53	0.29
7,236.00	28.48	149.84	6,539.96	-2,538.01	1,238.47	2,824.05	2.41	-2.41	0.00
MVRD (TVD)									
7,237.18	28.46	149.85	6,541.00	-2,538.50	1,238.75	2,824.61	1.53	-1.45	1.01
7,327.00	27.16	150.80	6,620.44	-2,574.90	1,259.50	2,866.42	1.53	-1.45	1.06
7,417.00	26.19	150.28	6,700.86	-2,610.08	1,279.37	2,906.74	1.11	-1.08	-0.58
7,508.00	24.92	149.40	6,782.96	-2,644.03	1,299.09	2,945.88	1.46	-1.40	-0.97
7,599.00	22.98	153.53	6,866.13	-2,676.43	1,316.77	2,982.76	2.82	-2.13	4.54
7,689.00	22.41	153.26	6,949.16	-2,707.48	1,332.32	3,017.48	0.64	-0.63	-0.30
7,780.00	21.36	148.60	7,033.61	-2,737.12	1,348.76	3,051.32	2.23	-1.15	-5.12
7,871.00	18.19	148.87	7,119.23	-2,763.43	1,364.74	3,081.97	3.48	-3.48	0.30
Tie-In @ 7961.00' MD / 7204.66' TVD - Start DLS 3.00 TFO 90.00									
7,961.00	18.46	147.20	7,204.66	-2,787.43	1,379.72	3,110.10	0.66	0.30	-1.86
Start DLS 3.00 TFO 110.00									
7,966.00	18.46	147.67	7,209.41	-2,788.77	1,380.57	3,111.67	3.00	0.01	9.47
Start DLS 3.00 TFO 130.00									
7,971.00	18.41	148.12	7,214.15	-2,790.11	1,381.41	3,113.24	3.00	-1.02	8.93
Start DLS 3.00 TFO 150.00									
7,976.00	18.31	148.49	7,218.90	-2,791.45	1,382.24	3,114.81	3.00	-1.92	7.31
Drop 3°/100'									
7,981.00	18.18	148.73	7,223.64	-2,792.78	1,383.06	3,116.37	3.00	-2.60	4.81
Turn 3.32°/100'									
7,986.00	18.03	148.73	7,228.40	-2,794.11	1,383.86	3,117.92	3.00	-3.00	0.00
8,000.00	17.99	150.22	7,241.71	-2,797.84	1,386.06	3,122.23	3.32	-0.32	10.68
8,100.00	18.01	160.97	7,336.84	-2,825.87	1,398.77	3,153.00	3.32	0.02	10.75
8,200.00	18.61	171.37	7,431.80	-2,856.27	1,406.21	3,183.60	3.32	0.60	10.40

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 543-18-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6650.90usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6650.90usft (H&P #329)
Site:	Sec 18, T2S, R97W	North Reference:	True
Well:	RG 543-18-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	ST01 Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
EOB @ 19.29° Inc / 177.62° Azm - Drop 3.32°/100'									
8,264.40	19.29	177.62	7,492.72	-2,877.06	1,408.19	3,203.17	3.32	1.04	9.71
8,300.00	18.10	177.62	7,526.44	-2,888.46	1,408.67	3,213.64	3.32	-3.32	0.00
8,400.00	14.79	177.62	7,622.34	-2,916.74	1,409.84	3,239.60	3.32	-3.32	0.00
KMVGAS (TVD)									
8,408.95	14.49	177.62	7,631.00	-2,919.00	1,409.93	3,241.68	3.32	-3.32	0.00
8,500.00	11.47	177.62	7,719.71	-2,939.43	1,410.78	3,260.43	3.32	-3.32	0.00
8,600.00	8.15	177.62	7,818.23	-2,956.45	1,411.49	3,276.05	3.32	-3.32	0.00
8,700.00	4.83	177.62	7,917.58	-2,967.74	1,411.96	3,286.42	3.32	-3.32	0.00
8,800.00	1.51	177.62	8,017.41	-2,973.27	1,412.19	3,291.50	3.32	-3.32	0.00
EOD @ Vertical									
8,845.59	0.00	0.00	8,063.00	-2,973.87	1,412.21	3,292.05	3.32	-3.32	0.00
8,900.00	0.00	0.00	8,117.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
9,000.00	0.00	0.00	8,217.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
9,100.00	0.00	0.00	8,317.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
9,200.00	0.00	0.00	8,417.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
9,300.00	0.00	0.00	8,517.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
9,400.00	0.00	0.00	8,617.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
9,500.00	0.00	0.00	8,717.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
9,600.00	0.00	0.00	8,817.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
9,700.00	0.00	0.00	8,917.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
9,800.00	0.00	0.00	9,017.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
9,900.00	0.00	0.00	9,117.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
10,000.00	0.00	0.00	9,217.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
10,100.00	0.00	0.00	9,317.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
10,200.00	0.00	0.00	9,417.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
10,300.00	0.00	0.00	9,517.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
10,400.00	0.00	0.00	9,617.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
10,500.00	0.00	0.00	9,717.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
10,600.00	0.00	0.00	9,817.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
10,700.00	0.00	0.00	9,917.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
CMEQ (TVD)									
10,763.59	0.00	0.00	9,981.00	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
10,800.00	0.00	0.00	10,017.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
10,900.00	0.00	0.00	10,117.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
11,000.00	0.00	0.00	10,217.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
11,100.00	0.00	0.00	10,317.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
11,200.00	0.00	0.00	10,417.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
11,300.00	0.00	0.00	10,517.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
RLNS (TVD)									
11,343.59	0.00	0.00	10,561.00	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
11,400.00	0.00	0.00	10,617.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
CZZT (TVD)									
11,493.59	0.00	0.00	10,711.00	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
11,500.00	0.00	0.00	10,717.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
11,600.00	0.00	0.00	10,817.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
11,700.00	0.00	0.00	10,917.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
CRCN (TVD)									
11,713.59	0.00	0.00	10,931.00	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
11,800.00	0.00	0.00	11,017.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
11,900.00	0.00	0.00	11,117.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
12,000.00	0.00	0.00	11,217.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00
SEGO_UPPER (TVD)									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 543-18-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6650.90usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6650.90usft (H&P #329)
Site:	Sec 18, T2S, R97W	North Reference:	True
Well:	RG 543-18-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	ST01 Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,073.59	0.00	0.00	11,291.00	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00	
12,100.00	0.00	0.00	11,317.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00	
12,200.00	0.00	0.00	11,417.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00	
12,300.00	0.00	0.00	11,517.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00	
SEGO_LOWER (TVD)										
12,373.59	0.00	0.00	11,591.00	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00	
12,400.00	0.00	0.00	11,617.41	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00	
TD @ 12493.59' MD / 11711.00' TVD										
12,493.59	0.00	0.00	11,711.00	-2,973.87	1,412.21	3,292.05	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RG 543-18-297 - VP	0.00	0.00	7,631.00	-2,926.56	1,418.00	1,755,391.20	2,209,227.30	39.873694	-108.317737
- hit/miss target									
- Shape									
- plan misses target center by 10.88usft at 8410.72usft MD (7632.71 TVD, -2919.44 N, 1409.95 E)									
- Point									
RG 543-18-297 - PBHL	0.00	0.00	11,711.00	-2,926.56	1,418.00	1,755,391.20	2,209,227.30	39.873694	-108.317737
- plan misses target center by 47.66usft at 12493.59usft MD (11711.00 TVD, -2973.87 N, 1412.21 E)									
- Circle (radius 50.00)									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
922.67	901.00	GRRV (TVD)				
1,100.46	1,061.00	GRRV_A_GROOVE (TVD)				
1,305.87	1,246.00	GRRV_B_GROOVE (TVD)				
1,654.46	1,561.00	GRRV DISSOLUTION_SURF (TVD)				
2,554.33	2,416.00	GRRV_ORANGE (TVD)				
2,763.18	2,621.00	WSTC (TVD)				
5,330.47	4,941.00	G_SAND (TVD)				
5,726.60	5,271.00	Fort Union (TVD)				
7,237.18	6,541.00	MVRD (TVD)				
8,408.95	7,631.00	KMVGAS (TVD)				
10,763.59	9,981.00	CMEQ (TVD)				
11,343.59	10,561.00	RLNS (TVD)				
11,493.59	10,711.00	CZZT (TVD)				
11,713.59	10,931.00	CRCN (TVD)				
12,073.59	11,291.00	SEGO_UPPER (TVD)				
12,373.59	11,591.00	SEGO_LOWER (TVD)				

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well RG 543-18-297
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 6650.90usft (H&P #329)
Project:	Rio Blanco County, CO	MD Reference:	KB=30' @ 6650.90usft (H&P #329)
Site:	Sec 18, T2S, R97W	North Reference:	True
Well:	RG 543-18-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	ST01 Plan 1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,961.00	7,204.66	-2,787.43	1,379.72	Tie-In @ 7961.00' MD / 7204.66' TVD - Start DLS 3.00 TFO 90.00
7,966.00	7,209.41	-2,788.77	1,380.57	Start DLS 3.00 TFO 110.00
7,971.00	7,214.15	-2,790.11	1,381.41	Start DLS 3.00 TFO 130.00
7,976.00	7,218.90	-2,791.45	1,382.24	Start DLS 3.00 TFO 150.00
7,981.00	7,223.64	-2,792.78	1,383.06	Drop 3°/100'
7,986.00	7,228.40	-2,794.11	1,383.86	Turn 3.32°/100'
8,264.40	7,492.72	-2,877.06	1,408.19	EOB @ 19.29° Inc / 177.62° Azm - Drop 3.32°/100'
8,845.59	8,063.00	-2,973.87	1,412.21	EOD @ Vertical
12,493.59	11,711.00	-2,973.87	1,412.21	TD @ 12493.59' MD / 11711.00' TVD