

PROJECT DETAILS: Garfield County, CO (Nad 83)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Central Zone
 System Datum: Mean Sea Level

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well SR 322-13 - Slot (B08) SR 322-13, True North
 Vertical (TVD) Reference: KB=30' @ 8037.00usft (H&P #329)
 Section (VS) Reference: Slot - (B08) SR 322-13(0.00N, 0.00E)
 Measured Depth Reference: KB=30' @ 8037.00usft (H&P #329)
 Calculation Method: Minimum Curvature

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SR 322-13 - VP	7051.00	2035.61	-2479.50	1594082.00	2339800.00	39.441199	-107.837910	Circle (Radius: 50.00)
SR 322-13 - PBHL	10341.00	2035.61	-2479.50	1594082.00	2339800.00	39.441199	-107.837910	Point

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSecDeparture	Annotation
180.00	0.00	0.00	180.00	0.00	0.00	0.00	Start Build 3.00
346.67	5.00	330.00	346.46	6.29	-3.63	7.27	Start DLS 3.00 TFO -24.37
1240.72	31.44	309.09	1188.62	190.42	-207.84	281.46	Start 4535.95 hold at 1240.72 MD
5776.67	31.44	309.09	5058.69	1682.07	-2044.25	2647.32	Start Drop -1.50
7872.59	0.00	0.00	7051.00	2035.61	-2479.50	3208.05	Start 3290.00 hold at 7872.59 MD
11162.59	0.00	0.00	10341.00	2035.61	-2479.50	3208.05	TD at 11162.59

WELL DETAILS: SR 322-13

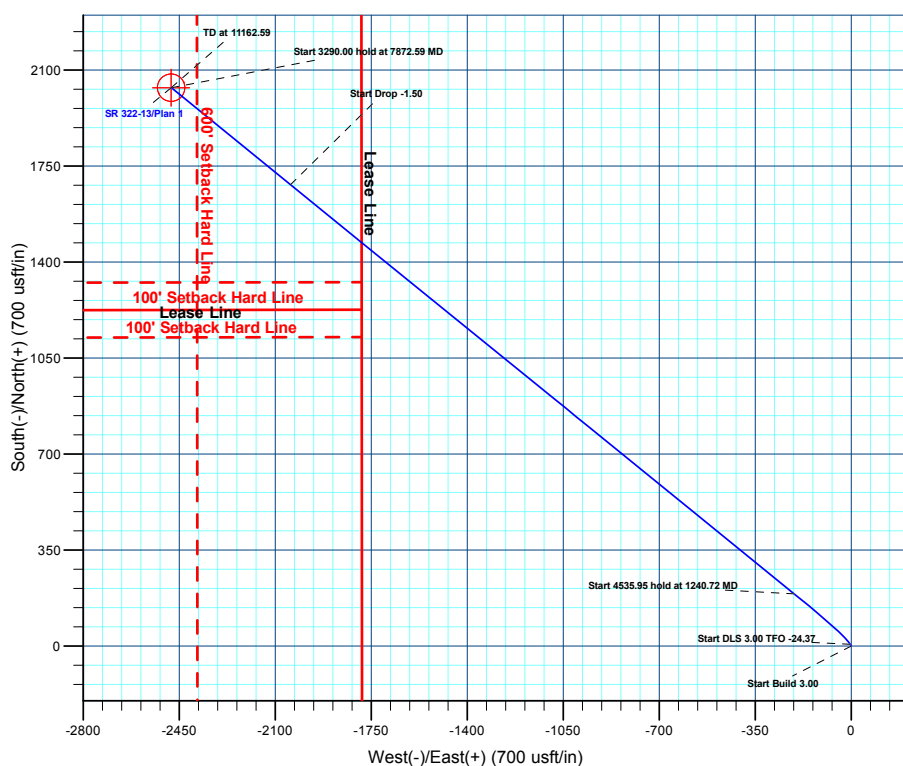
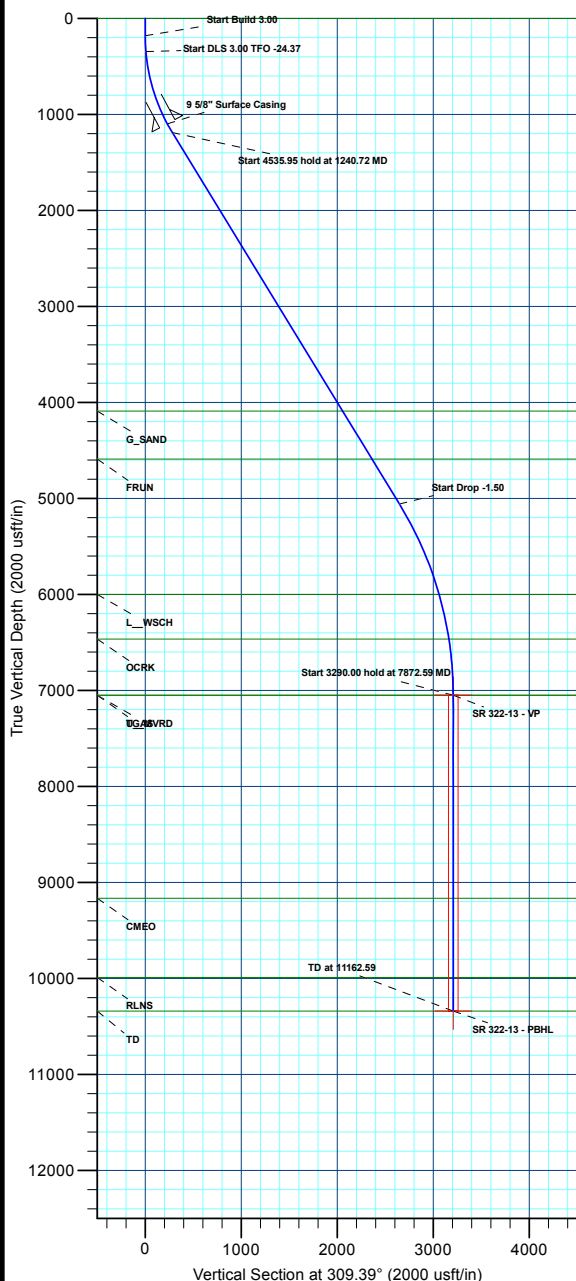
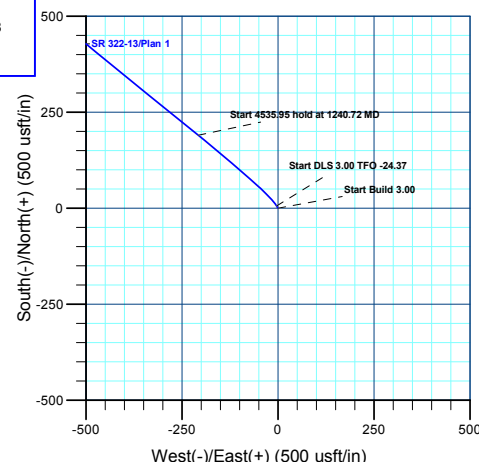
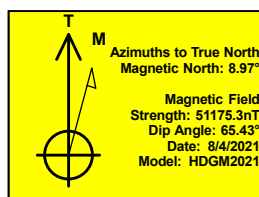
Ground Elev: 8007.00						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1591983.50	2342226.50	39.435611	-107.829130	(B08) SR 322-13

CASING DETAILS

TVD	MD	Name	Size
1100.00	1138.47	9 5/8" Surface Casing	9-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
0.00	0.00	U_WSCH
4091.00	4642.49	G_SAND
4591.00	5228.52	FRUN
6001.00	6808.89	L_WSCH
6466.00	7285.28	OCRK
7051.00	7872.59	TGAS
7051.00	7872.59	U_MVRD
9167.00	9988.59	CMEO
9991.00	10812.59	RLNS
10341.00	11162.59	TD



Plan: Plan 1 (SR 322-13/Wellbore #1)

Created By: Chase Chambers Date: 12:42, April 12 2022



Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

S. Leverich 13-09 Pad

SR 322-13 - Slot (B08) SR 322-13

Wellbore #1

Plan: Plan 1

KLX Well Planning Report

14 February, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SR 322-13 - Slot (B08) SR 322-13
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 8037.00usft (H&P #329)
Project:	Garfield County, CO (Nad 83)	MD Reference:	KB=30' @ 8037.00usft (H&P #329)
Site:	S. Leverich 13-09 Pad	North Reference:	True
Well:	SR 322-13	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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		S. Leverich 13-09 Pad			
Site Position:		Northing:	1,591,962.80 usft	Latitude:	39.435551
From:	Map	Easting:	2,342,185.30 usft	Longitude:	-107.829274
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.47 °

Well	SR 322-13 - Slot (B08) SR 322-13					
Well Position	+N/-S	21.75 usft	Northing:	1,591,983.50 usft	Latitude:	39.435611
	+E/-W	40.66 usft	Easting:	2,342,226.50 usft	Longitude:	-107.829130
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	8,007.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021	8/4/2021	8.97	65.43	51,175.30000000

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	309.39

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
180.00	0.00	0.00	180.00	0.00	0.00	0.00	0.00	0.00	0.00	
346.67	5.00	330.00	346.46	6.29	-3.63	3.00	3.00	0.00	330.00	
1,240.72	31.44	309.09	1,188.62	190.42	-207.84	3.00	2.96	-2.34	-24.37	
5,776.67	31.44	309.09	5,058.69	1,682.07	-2,044.25	0.00	0.00	0.00	0.00	
7,872.59	0.00	0.00	7,051.00	2,035.61	-2,479.50	1.50	-1.50	0.00	180.00	SR 322-13 - VP
11,162.59	0.00	0.00	10,341.00	2,035.61	-2,479.50	0.00	0.00	0.00	0.00	SR 322-13 - PBHL

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Project:	Garfield County, CO (Nad 83)	MD Reference:	KB=30' @ 8037.00usft (H&P #329)
Site:	S. Leverich 13-09 Pad	North Reference:	True
Well:	SR 322-13	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
U_WSCH									
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
180.00	0.00	0.00	180.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.60	330.00	200.00	0.09	-0.05	0.10	3.00	3.00	0.00
300.00	3.60	330.00	299.92	3.26	-1.88	3.53	3.00	3.00	0.00
Start DLS 3.00 TFO -24.37									
346.67	5.00	330.00	346.46	6.29	-3.63	6.80	3.00	3.00	0.00
400.00	6.49	324.15	399.52	10.75	-6.56	11.89	3.00	2.80	-10.97
500.00	9.38	318.29	498.55	21.42	-15.30	25.42	3.00	2.89	-5.86
600.00	12.33	315.19	596.75	35.08	-28.25	44.09	3.00	2.94	-3.10
700.00	15.29	313.27	693.85	51.70	-45.38	67.88	3.00	2.97	-1.92
800.00	18.27	311.97	789.58	71.22	-66.64	96.70	3.00	2.98	-1.30
900.00	21.25	311.02	883.68	93.61	-91.97	130.48	3.00	2.98	-0.95
1,000.00	24.24	310.30	975.90	118.78	-121.31	169.13	3.00	2.99	-0.72
1,100.00	27.23	309.72	1,065.97	146.68	-154.57	212.54	3.00	2.99	-0.57
9 5/8" Surface Casing									
1,138.47	28.38	309.53	1,100.00	158.13	-168.39	230.49	3.00	2.99	-0.50
1,200.00	30.22	309.25	1,153.65	177.24	-191.66	260.59	3.00	2.99	-0.45
Start 4535.95 hold at 1240.72 MD									
1,240.72	31.44	309.09	1,188.62	190.42	-207.84	281.46	3.00	2.99	-0.41
1,300.00	31.44	309.09	1,239.20	209.91	-231.84	312.38	0.00	0.00	0.00
1,400.00	31.44	309.09	1,324.52	242.79	-272.32	364.54	0.00	0.00	0.00
1,500.00	31.44	309.09	1,409.84	275.68	-312.81	416.70	0.00	0.00	0.00
1,600.00	31.44	309.09	1,495.16	308.57	-353.30	468.86	0.00	0.00	0.00
1,700.00	31.44	309.09	1,580.48	341.45	-393.78	521.01	0.00	0.00	0.00
1,800.00	31.44	309.09	1,665.80	374.34	-434.27	573.17	0.00	0.00	0.00
1,900.00	31.44	309.09	1,751.12	407.22	-474.75	625.33	0.00	0.00	0.00
2,000.00	31.44	309.09	1,836.44	440.11	-515.24	677.49	0.00	0.00	0.00
2,100.00	31.44	309.09	1,921.76	472.99	-555.72	729.65	0.00	0.00	0.00
2,200.00	31.44	309.09	2,007.08	505.88	-596.21	781.80	0.00	0.00	0.00
2,300.00	31.44	309.09	2,092.40	538.76	-636.70	833.96	0.00	0.00	0.00
2,400.00	31.44	309.09	2,177.71	571.65	-677.18	886.12	0.00	0.00	0.00
2,500.00	31.44	309.09	2,263.03	604.53	-717.67	938.28	0.00	0.00	0.00
2,600.00	31.44	309.09	2,348.35	637.42	-758.15	990.43	0.00	0.00	0.00
2,700.00	31.44	309.09	2,433.67	670.30	-798.64	1,042.59	0.00	0.00	0.00
2,800.00	31.44	309.09	2,518.99	703.19	-839.12	1,094.75	0.00	0.00	0.00
2,900.00	31.44	309.09	2,604.31	736.07	-879.61	1,146.91	0.00	0.00	0.00
3,000.00	31.44	309.09	2,689.63	768.96	-920.10	1,199.07	0.00	0.00	0.00
3,100.00	31.44	309.09	2,774.95	801.84	-960.58	1,251.22	0.00	0.00	0.00
3,200.00	31.44	309.09	2,860.27	834.73	-1,001.07	1,303.38	0.00	0.00	0.00
3,300.00	31.44	309.09	2,945.59	867.61	-1,041.55	1,355.54	0.00	0.00	0.00
3,400.00	31.44	309.09	3,030.91	900.50	-1,082.04	1,407.70	0.00	0.00	0.00
3,500.00	31.44	309.09	3,116.23	933.38	-1,122.52	1,459.86	0.00	0.00	0.00
3,600.00	31.44	309.09	3,201.55	966.27	-1,163.01	1,512.01	0.00	0.00	0.00
3,700.00	31.44	309.09	3,286.87	999.15	-1,203.50	1,564.17	0.00	0.00	0.00
3,800.00	31.44	309.09	3,372.19	1,032.04	-1,243.98	1,616.33	0.00	0.00	0.00
3,900.00	31.44	309.09	3,457.51	1,064.92	-1,284.47	1,668.49	0.00	0.00	0.00
4,000.00	31.44	309.09	3,542.83	1,097.81	-1,324.95	1,720.65	0.00	0.00	0.00
4,100.00	31.44	309.09	3,628.15	1,130.69	-1,365.44	1,772.80	0.00	0.00	0.00
4,200.00	31.44	309.09	3,713.47	1,163.58	-1,405.92	1,824.96	0.00	0.00	0.00
4,300.00	31.44	309.09	3,798.79	1,196.46	-1,446.41	1,877.12	0.00	0.00	0.00
4,400.00	31.44	309.09	3,884.11	1,229.35	-1,486.89	1,929.28	0.00	0.00	0.00

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Site:	S. Leverich 13-09 Pad	North Reference:	True
Well:	SR 322-13	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
4,500.00	31.44	309.09	3,969.43	1,262.23	-1,527.38	1,981.44	0.00	0.00	0.00
4,600.00	31.44	309.09	4,054.75	1,295.12	-1,567.87	2,033.59	0.00	0.00	0.00
G_SAND									
4,642.49	31.44	309.09	4,091.00	1,309.09	-1,585.07	2,055.75	0.00	0.00	0.00
4,700.00	31.44	309.09	4,140.07	1,328.01	-1,608.35	2,085.75	0.00	0.00	0.00
4,800.00	31.44	309.09	4,225.39	1,360.89	-1,648.84	2,137.91	0.00	0.00	0.00
4,900.00	31.44	309.09	4,310.71	1,393.78	-1,689.32	2,190.07	0.00	0.00	0.00
5,000.00	31.44	309.09	4,396.03	1,426.66	-1,729.81	2,242.23	0.00	0.00	0.00
5,100.00	31.44	309.09	4,481.35	1,459.55	-1,770.29	2,294.38	0.00	0.00	0.00
5,200.00	31.44	309.09	4,566.67	1,492.43	-1,810.78	2,346.54	0.00	0.00	0.00
FRUN									
5,228.52	31.44	309.09	4,591.00	1,501.81	-1,822.33	2,361.41	0.00	0.00	0.00
5,300.00	31.44	309.09	4,651.99	1,525.32	-1,851.27	2,398.70	0.00	0.00	0.00
5,400.00	31.44	309.09	4,737.31	1,558.20	-1,891.75	2,450.86	0.00	0.00	0.00
5,500.00	31.44	309.09	4,822.63	1,591.09	-1,932.24	2,503.01	0.00	0.00	0.00
5,600.00	31.44	309.09	4,907.95	1,623.97	-1,972.72	2,555.17	0.00	0.00	0.00
5,700.00	31.44	309.09	4,993.27	1,656.86	-2,013.21	2,607.33	0.00	0.00	0.00
Start Drop -1.50									
5,776.67	31.44	309.09	5,058.69	1,682.07	-2,044.25	2,647.32	0.00	0.00	0.00
5,800.00	31.09	309.09	5,078.63	1,689.70	-2,053.65	2,659.43	1.50	-1.50	0.00
5,900.00	29.59	309.09	5,164.93	1,721.55	-2,092.85	2,709.94	1.50	-1.50	0.00
6,000.00	28.09	309.09	5,252.53	1,751.96	-2,130.29	2,758.17	1.50	-1.50	0.00
6,100.00	26.59	309.09	5,341.35	1,780.91	-2,165.94	2,804.09	1.50	-1.50	0.00
6,200.00	25.09	309.09	5,431.35	1,808.39	-2,199.77	2,847.68	1.50	-1.50	0.00
6,300.00	23.59	309.09	5,522.46	1,834.38	-2,231.76	2,888.89	1.50	-1.50	0.00
6,400.00	22.09	309.09	5,614.62	1,858.85	-2,261.88	2,927.70	1.50	-1.50	0.00
6,500.00	20.59	309.09	5,707.76	1,881.79	-2,290.13	2,964.09	1.50	-1.50	0.00
6,600.00	19.09	309.09	5,801.82	1,903.18	-2,316.47	2,998.02	1.50	-1.50	0.00
6,700.00	17.59	309.09	5,896.74	1,923.02	-2,340.89	3,029.48	1.50	-1.50	0.00
6,800.00	16.09	309.09	5,992.45	1,941.28	-2,363.37	3,058.45	1.50	-1.50	0.00
L_WSCH									
6,808.89	15.96	309.09	6,001.00	1,942.83	-2,365.28	3,060.91	1.50	-1.50	0.00
6,900.00	14.59	309.09	6,088.89	1,957.96	-2,383.91	3,084.90	1.50	-1.50	0.00
7,000.00	13.09	309.09	6,185.98	1,973.04	-2,402.47	3,108.82	1.50	-1.50	0.00
7,100.00	11.59	309.09	6,283.67	1,986.51	-2,419.06	3,130.19	1.50	-1.50	0.00
7,200.00	10.09	309.09	6,381.88	1,998.37	-2,433.65	3,148.99	1.50	-1.50	0.00
OCRK									
7,285.28	8.81	309.09	6,466.00	2,007.20	-2,444.52	3,162.99	1.50	-1.50	0.00
7,300.00	8.59	309.09	6,480.55	2,008.60	-2,446.25	3,165.22	1.50	-1.50	0.00
7,400.00	7.09	309.09	6,579.62	2,017.20	-2,456.84	3,178.86	1.50	-1.50	0.00
7,500.00	5.59	309.09	6,679.00	2,024.16	-2,465.40	3,189.90	1.50	-1.50	0.00
7,600.00	4.09	309.09	6,778.64	2,029.48	-2,471.95	3,198.33	1.50	-1.50	0.00
7,700.00	2.59	309.09	6,878.47	2,033.15	-2,476.47	3,204.16	1.50	-1.50	0.00
7,800.00	1.09	309.09	6,978.42	2,035.17	-2,478.96	3,207.36	1.50	-1.50	0.00
Start 3290.00 hold at 7872.59 MD - U_MVRD - TGAS									
7,872.59	0.00	0.00	7,051.00	2,035.61	-2,479.50	3,208.05	1.50	-1.50	0.00
7,900.00	0.00	0.00	7,078.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
8,000.00	0.00	0.00	7,178.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
8,100.00	0.00	0.00	7,278.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
8,200.00	0.00	0.00	7,378.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
8,300.00	0.00	0.00	7,478.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
8,400.00	0.00	0.00	7,578.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
8,500.00	0.00	0.00	7,678.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SR 322-13 - Slot (B08) SR 322-13
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 8037.00usft (H&P #329)
Project:	Garfield County, CO (Nad 83)	MD Reference:	KB=30' @ 8037.00usft (H&P #329)
Site:	S. Leverich 13-09 Pad	North Reference:	True
Well:	SR 322-13	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
8,600.00	0.00	0.00	7,778.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
8,700.00	0.00	0.00	7,878.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
8,800.00	0.00	0.00	7,978.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
8,900.00	0.00	0.00	8,078.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
9,000.00	0.00	0.00	8,178.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
9,100.00	0.00	0.00	8,278.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
9,200.00	0.00	0.00	8,378.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
9,300.00	0.00	0.00	8,478.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
9,400.00	0.00	0.00	8,578.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
9,500.00	0.00	0.00	8,678.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
9,600.00	0.00	0.00	8,778.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
9,700.00	0.00	0.00	8,878.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
9,800.00	0.00	0.00	8,978.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
9,900.00	0.00	0.00	9,078.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
CMEO									
9,988.59	0.00	0.00	9,167.00	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
10,000.00	0.00	0.00	9,178.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
10,100.00	0.00	0.00	9,278.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
10,200.00	0.00	0.00	9,378.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
10,300.00	0.00	0.00	9,478.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
10,400.00	0.00	0.00	9,578.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
10,500.00	0.00	0.00	9,678.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
10,600.00	0.00	0.00	9,778.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
10,700.00	0.00	0.00	9,878.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
10,800.00	0.00	0.00	9,978.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
RLNS									
10,812.59	0.00	0.00	9,991.00	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
10,900.00	0.00	0.00	10,078.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
11,000.00	0.00	0.00	10,178.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
11,100.00	0.00	0.00	10,278.41	2,035.61	-2,479.50	3,208.05	0.00	0.00	0.00
TD at 11162.59 - TD									
11,162.59	0.00	0.00	10,341.00	2,035.61	-2,479.50	3,208.05	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
SR 322-13 - VP - hit/miss target - Shape	0.00	0.00	7,051.00	2,035.61	-2,479.50	1,594,082.00	2,339,800.00	39.441200	-107.837910
- plan hits target center - Circle (radius 50.00)									
SR 322-13 - PBHL - plan hits target center - Point	0.00	0.00	10,341.00	2,035.61	-2,479.50	1,594,082.00	2,339,800.00	39.441200	-107.837910

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,138.47	1,100.00	9 5/8" Surface Casing	9-5/8	12-1/4

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well SR 322-13 - Slot (B08) SR 322-13
Company:	Terra Energy Partners, LLP	TVD Reference:	KB=30' @ 8037.00usft (H&P #329)
Project:	Garfield County, CO (Nad 83)	MD Reference:	KB=30' @ 8037.00usft (H&P #329)
Site:	S. Leverich 13-09 Pad	North Reference:	True
Well:	SR 322-13	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
0.00	0.00	U__WSCH		0.00	
4,642.49	4,091.00	G_SAND			
5,228.52	4,591.00	FRUN			
6,808.89	6,001.00	L__WSCH			
7,285.28	6,466.00	OCRK			
7,872.59	7,051.00	U__MVRD			
7,872.59	7,051.00	TGAS			
9,988.59	9,167.00	CME0			
10,812.59	9,991.00	RLNS			
11,162.59	10,341.00	TD		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
180.00	180.00	0.00	0.00	Start Build 3.00
346.67	346.46	6.29	-3.63	Start DLS 3.00 TFO -24.37
1,240.72	1,188.62	190.42	-207.84	Start 4535.95 hold at 1240.72 MD
5,776.67	5,058.69	1,682.07	-2,044.25	Start Drop -1.50
7,872.59	7,051.00	2,035.61	-2,479.50	Start 3290.00 hold at 7872.59 MD
11,162.59	10,341.00	2,035.61	-2,479.50	TD at 11162.59