

## 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 WMC 412-18-793 - Slot (B10) WMC 412-18-793, True North  
 Vertical (TVD) Reference: KB=30' @ 8037.00usft (H&P #329)  
 Section (VS) Reference: Slot - (B10) WMC 412-18-793(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
WMC 412-18-793 - VP	7021.00	2251.69	2233.31	1594180.80	2344531.30	39.441804	-107.821171	Circle (Radius: 50.00)
WMC 412-18-793 - PBHL	10306.00	2251.69	2233.31	1594180.80	2344531.30	39.441804	-107.821171	Circle (Radius: 0.00)

## ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
220.00	0.00	0.00	220.00	0.00	0.00	0.00	0.00	Start Build 3.00
386.67	5.00	7.00	386.46	7.21	0.89	5.75	7.27	Start DLS 3.00 TFO 44.07
1316.80	31.67	45.31	1262.95	223.47	183.04	287.56	291.93	Start 4409.14 hold at 1316.80 MD
5725.94	31.67	45.31	5015.41	1851.60	1828.87	2602.53	2607.01	Start Drop -1.50
7837.44	0.00	0.00	7021.00	2251.69	2233.31	3171.40	3175.90	Start 3285.00 hold at 7837.44 MD
11122.44	0.00	0.00	10306.00	2251.69	2233.31	3171.40	3175.90	TD at 11122.44

## CASING DETAILS

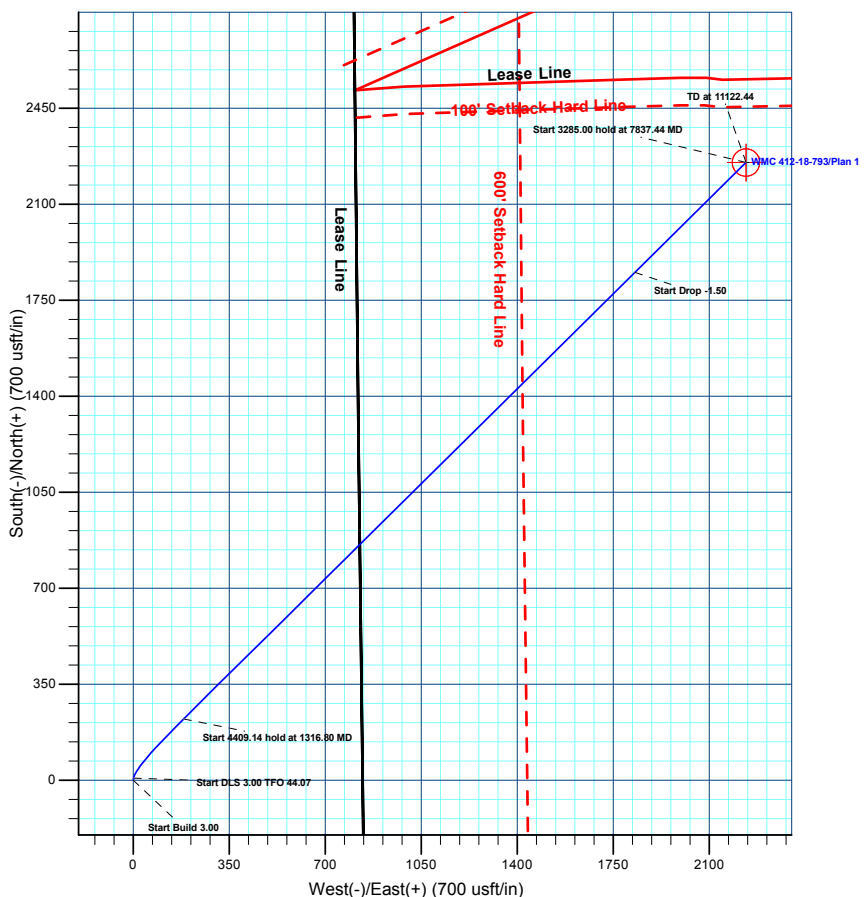
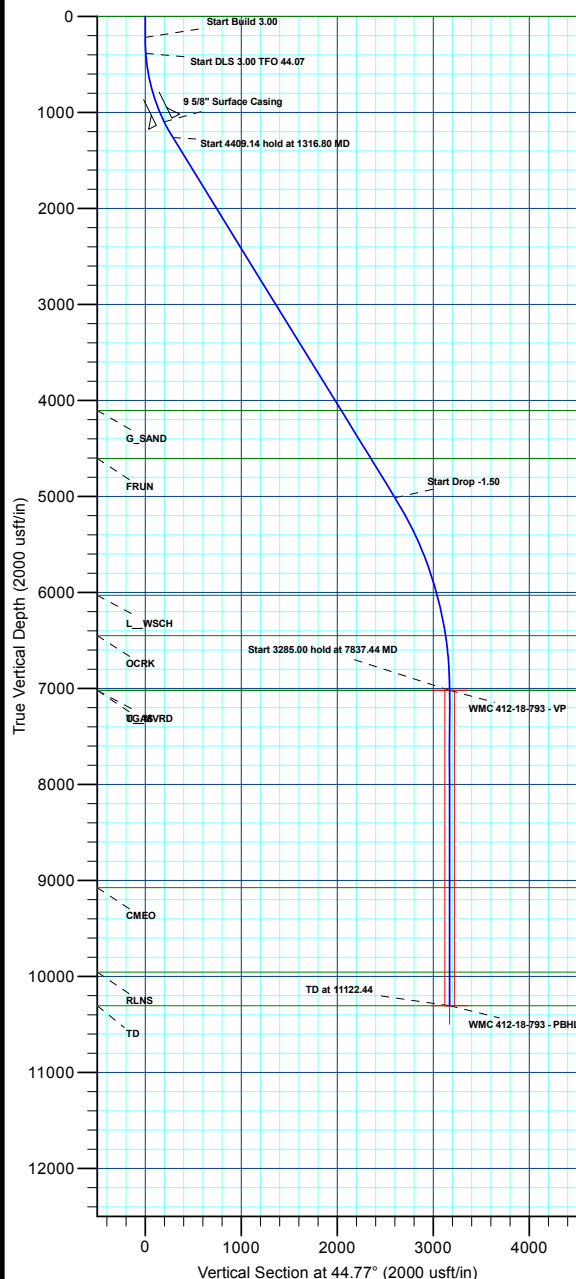
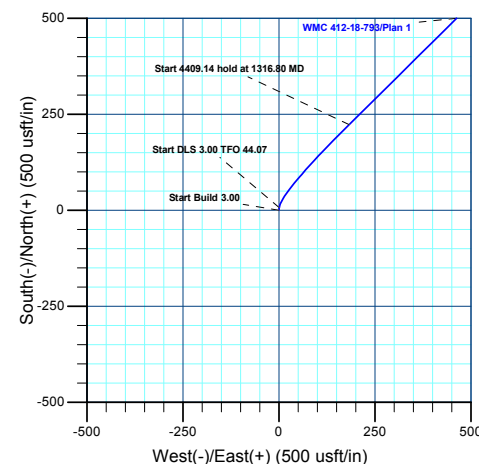
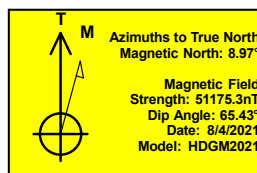
TVD	MD	Name	Size
1100.00	1130.60	9 5/8" Surface Casing	9-5/8

## WELL DETAILS: WMC 412-18-793

+N/-S	+E/-W	Northing	Ground Elev:	8007.00	Latitude	Longitude	Slot
0.00	0.00	1591987.10	Easting	2342241.00	39.435622	-107.829079	(B10) WMC 412-18-793

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
0.00	0.00	U_WSCH
4106.00	4657.39	G_SAND
4606.00	5244.89	FRUN
6031.00	6836.01	L_WSCH
6451.00	7265.31	OCRK
7021.00	7837.44	RGAS
7021.00	7837.44	U_MVRD
9077.00	8933.44	CMEQ
9956.00	10772.44	RLNS
10306.00	11122.44	TD





## **Terra Energy Partners, LLP**

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

**S. Leverich 13-09 Pad**

**WMC 412-18-793 - Slot (B10) WMC 412-18-793**

**Wellbore #1**

**Plan: Plan 1**

## **KLX Well Planning Report**

**15 February, 2022**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well WMC 412-18-793 - Slot (B10) WMC 412-18-793
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>MD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Site:</b>	S. Leverich 13-09 Pad	<b>North Reference:</b>	True
<b>Well:</b>	WMC 412-18-793	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

<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		

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	WMC 412-18-793 - Slot (B10) WMC 412-18-793					
Well Position	+N/-S	25.72 usft	Northing:	1,591,987.10 usft	Latitude:	39.435622
	+E/-W	55.06 usft	Easting:	2,342,241.00 usft	Longitude:	-107.829079
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	8,007.00 usft

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

<b>Design</b>	Plan 1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	44.77

<b>Plan Sections</b>										
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	
220.00	0.00	0.00	220.00	0.00	0.00	0.00	0.00	0.00	0.00	
386.67	5.00	7.00	386.46	7.21	0.89	3.00	3.00	0.00	7.00	
1,316.80	31.67	45.31	1,262.95	223.47	183.04	3.00	2.87	4.12	44.07	
5,725.94	31.67	45.31	5,015.41	1,851.60	1,828.87	0.00	0.00	0.00	0.00	
7,837.44	0.00	0.00	7,021.00	2,251.69	2,233.31	1.50	-1.50	0.00	180.00	WMC 412-18-793 - VI
11,122.44	0.00	0.00	10,306.00	2,251.69	2,233.31	0.00	0.00	0.00	0.00	WMC 412-18-793 - PI

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well WMC 412-18-793 - Slot (B10) WMC 412-18-793
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>MD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Site:</b>	S. Leverich 13-09 Pad	<b>North Reference:</b>	True
<b>Well:</b>	WMC 412-18-793	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
<b>U_WSCH</b>									
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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 3.00</b>									
220.00	0.00	0.00	220.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	2.40	7.00	299.98	1.66	0.20	1.32	3.00	3.00	0.00
<b>Start DLS 3.00 TFO 44.07</b>									
386.67	5.00	7.00	386.46	7.21	0.89	5.75	3.00	3.00	0.00
400.00	5.29	10.02	399.73	8.40	1.06	6.71	3.00	2.21	22.62
500.00	7.81	24.67	499.08	19.12	4.70	16.88	3.00	2.51	14.66
600.00	10.58	31.98	597.79	33.08	12.40	32.22	3.00	2.77	7.31
700.00	13.45	36.24	695.59	50.24	24.14	52.67	3.00	2.87	4.26
800.00	16.36	39.02	792.22	70.57	39.88	78.19	3.00	2.91	2.78
900.00	19.30	40.97	887.41	93.99	59.59	108.70	3.00	2.94	1.95
1,000.00	22.26	42.42	980.89	120.45	83.21	144.12	3.00	2.96	1.45
1,100.00	25.22	43.55	1,072.42	149.88	110.67	184.35	3.00	2.97	1.13
<b>9 5/8" Surface Casing</b>									
1,130.60	26.13	43.85	1,100.00	159.47	119.83	197.61	3.00	2.97	0.97
1,200.00	28.19	44.45	1,161.74	182.19	141.90	229.29	3.00	2.97	0.87
1,300.00	31.17	45.20	1,248.61	217.30	176.82	278.80	3.00	2.98	0.74
<b>Start 4409.14 hold at 1316.80 MD</b>									
1,316.80	31.67	45.31	1,262.95	223.47	183.04	287.56	3.00	2.98	0.67
1,400.00	31.67	45.31	1,333.75	254.19	214.10	331.24	0.00	0.00	0.00
1,500.00	31.67	45.31	1,418.86	291.12	251.42	383.75	0.00	0.00	0.00
1,600.00	31.67	45.31	1,503.97	328.04	288.75	436.25	0.00	0.00	0.00
1,700.00	31.67	45.31	1,589.07	364.97	326.08	488.75	0.00	0.00	0.00
1,800.00	31.67	45.31	1,674.18	401.90	363.41	541.26	0.00	0.00	0.00
1,900.00	31.67	45.31	1,759.29	438.82	400.73	593.76	0.00	0.00	0.00
2,000.00	31.67	45.31	1,844.39	475.75	438.06	646.27	0.00	0.00	0.00
2,100.00	31.67	45.31	1,929.50	512.67	475.39	698.77	0.00	0.00	0.00
2,200.00	31.67	45.31	2,014.61	549.60	512.72	751.27	0.00	0.00	0.00
2,300.00	31.67	45.31	2,099.71	586.53	550.05	803.78	0.00	0.00	0.00
2,400.00	31.67	45.31	2,184.82	623.45	587.37	856.28	0.00	0.00	0.00
2,500.00	31.67	45.31	2,269.92	660.38	624.70	908.79	0.00	0.00	0.00
2,600.00	31.67	45.31	2,355.03	697.31	662.03	961.29	0.00	0.00	0.00
2,700.00	31.67	45.31	2,440.14	734.23	699.36	1,013.79	0.00	0.00	0.00
2,800.00	31.67	45.31	2,525.24	771.16	736.68	1,066.30	0.00	0.00	0.00
2,900.00	31.67	45.31	2,610.35	808.08	774.01	1,118.80	0.00	0.00	0.00
3,000.00	31.67	45.31	2,695.46	845.01	811.34	1,171.30	0.00	0.00	0.00
3,100.00	31.67	45.31	2,780.56	881.94	848.67	1,223.81	0.00	0.00	0.00
3,200.00	31.67	45.31	2,865.67	918.86	886.00	1,276.31	0.00	0.00	0.00
3,300.00	31.67	45.31	2,950.78	955.79	923.32	1,328.82	0.00	0.00	0.00
3,400.00	31.67	45.31	3,035.88	992.72	960.65	1,381.32	0.00	0.00	0.00
3,500.00	31.67	45.31	3,120.99	1,029.64	997.98	1,433.82	0.00	0.00	0.00
3,600.00	31.67	45.31	3,206.09	1,066.57	1,035.31	1,486.33	0.00	0.00	0.00
3,700.00	31.67	45.31	3,291.20	1,103.50	1,072.63	1,538.83	0.00	0.00	0.00
3,800.00	31.67	45.31	3,376.31	1,140.42	1,109.96	1,591.34	0.00	0.00	0.00
3,900.00	31.67	45.31	3,461.41	1,177.35	1,147.29	1,643.84	0.00	0.00	0.00
4,000.00	31.67	45.31	3,546.52	1,214.27	1,184.62	1,696.34	0.00	0.00	0.00
4,100.00	31.67	45.31	3,631.63	1,251.20	1,221.94	1,748.85	0.00	0.00	0.00
4,200.00	31.67	45.31	3,716.73	1,288.13	1,259.27	1,801.35	0.00	0.00	0.00

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<b>Site:</b>	S. Leverich 13-09 Pad	<b>North Reference:</b>	True
<b>Well:</b>	WMC 412-18-793	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
4,300.00	31.67	45.31	3,801.84	1,325.05	1,296.60	1,853.86	0.00	0.00	0.00	
4,400.00	31.67	45.31	3,886.95	1,361.98	1,333.93	1,906.36	0.00	0.00	0.00	
4,500.00	31.67	45.31	3,972.05	1,398.91	1,371.26	1,958.86	0.00	0.00	0.00	
4,600.00	31.67	45.31	4,057.16	1,435.83	1,408.58	2,011.37	0.00	0.00	0.00	
<b>G_SAND</b>										
4,657.39	31.67	45.31	4,106.00	1,457.02	1,430.01	2,041.50	0.00	0.00	0.00	
4,700.00	31.67	45.31	4,142.26	1,472.76	1,445.91	2,063.87	0.00	0.00	0.00	
4,800.00	31.67	45.31	4,227.37	1,509.68	1,483.24	2,116.38	0.00	0.00	0.00	
4,900.00	31.67	45.31	4,312.48	1,546.61	1,520.57	2,168.88	0.00	0.00	0.00	
5,000.00	31.67	45.31	4,397.58	1,583.54	1,557.89	2,221.38	0.00	0.00	0.00	
5,100.00	31.67	45.31	4,482.69	1,620.46	1,595.22	2,273.89	0.00	0.00	0.00	
5,200.00	31.67	45.31	4,567.80	1,657.39	1,632.55	2,326.39	0.00	0.00	0.00	
<b>FRUN</b>										
5,244.89	31.67	45.31	4,606.00	1,673.97	1,649.31	2,349.96	0.00	0.00	0.00	
5,300.00	31.67	45.31	4,652.90	1,694.32	1,669.88	2,378.90	0.00	0.00	0.00	
5,400.00	31.67	45.31	4,738.01	1,731.24	1,707.21	2,431.40	0.00	0.00	0.00	
5,500.00	31.67	45.31	4,823.11	1,768.17	1,744.53	2,483.90	0.00	0.00	0.00	
5,600.00	31.67	45.31	4,908.22	1,805.09	1,781.86	2,536.41	0.00	0.00	0.00	
5,700.00	31.67	45.31	4,993.33	1,842.02	1,819.19	2,588.91	0.00	0.00	0.00	
<b>Start Drop -1.50</b>										
5,725.94	31.67	45.31	5,015.41	1,851.60	1,828.87	2,602.53	0.00	0.00	0.00	
5,800.00	30.56	45.31	5,078.81	1,878.52	1,856.08	2,640.80	1.50	-1.50	0.00	
5,900.00	29.06	45.31	5,165.57	1,913.48	1,891.42	2,690.51	1.50	-1.50	0.00	
6,000.00	27.56	45.31	5,253.61	1,946.83	1,925.14	2,737.94	1.50	-1.50	0.00	
6,100.00	26.06	45.31	5,342.85	1,978.55	1,957.20	2,783.04	1.50	-1.50	0.00	
6,200.00	24.56	45.31	5,433.25	2,008.62	1,987.60	2,825.79	1.50	-1.50	0.00	
6,300.00	23.06	45.31	5,524.74	2,037.01	2,016.30	2,866.16	1.50	-1.50	0.00	
6,400.00	21.56	45.31	5,617.25	2,063.71	2,043.29	2,904.12	1.50	-1.50	0.00	
6,500.00	20.06	45.31	5,710.72	2,088.70	2,068.55	2,939.65	1.50	-1.50	0.00	
6,600.00	18.56	45.31	5,805.09	2,111.95	2,092.06	2,972.72	1.50	-1.50	0.00	
6,700.00	17.06	45.31	5,900.29	2,133.47	2,113.80	3,003.30	1.50	-1.50	0.00	
6,800.00	15.56	45.31	5,996.27	2,153.22	2,133.77	3,031.39	1.50	-1.50	0.00	
<b>L_WSCH</b>										
6,836.01	15.02	45.31	6,031.00	2,159.90	2,140.52	3,040.88	1.50	-1.50	0.00	
6,900.00	14.06	45.31	6,092.94	2,171.20	2,151.94	3,056.95	1.50	-1.50	0.00	
7,000.00	12.56	45.31	6,190.25	2,187.39	2,168.31	3,079.97	1.50	-1.50	0.00	
7,100.00	11.06	45.31	6,288.13	2,201.78	2,182.86	3,100.44	1.50	-1.50	0.00	
7,200.00	9.56	45.31	6,386.51	2,214.37	2,195.59	3,118.34	1.50	-1.50	0.00	
<b>OCRK</b>										
7,265.31	8.58	45.31	6,451.00	2,221.61	2,202.91	3,128.64	1.50	-1.50	0.00	
7,300.00	8.06	45.31	6,485.33	2,225.14	2,206.48	3,133.66	1.50	-1.50	0.00	
7,400.00	6.56	45.31	6,584.51	2,234.09	2,215.52	3,146.38	1.50	-1.50	0.00	
7,500.00	5.06	45.31	6,684.00	2,241.21	2,222.72	3,156.51	1.50	-1.50	0.00	
7,600.00	3.56	45.31	6,783.71	2,246.50	2,228.07	3,164.03	1.50	-1.50	0.00	
7,700.00	2.06	45.31	6,883.59	2,249.95	2,231.55	3,168.93	1.50	-1.50	0.00	
7,800.00	0.56	45.31	6,983.56	2,251.56	2,233.18	3,171.22	1.50	-1.50	0.00	
<b>Start 3285.00 hold at 7837.44 MD - U_MVRD - TGAS</b>										
7,837.44	0.00	0.00	7,021.00	2,251.69	2,233.31	3,171.40	1.50	-1.50	0.00	
7,900.00	0.00	0.00	7,083.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,183.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,283.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,383.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well WMC 412-18-793 - Slot (B10) WMC 412-18-793
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>MD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Site:</b>	S. Leverich 13-09 Pad	<b>North Reference:</b>	True
<b>Well:</b>	WMC 412-18-793	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
8,300.00	0.00	0.00	7,483.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
8,400.00	0.00	0.00	7,583.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
8,500.00	0.00	0.00	7,683.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
8,600.00	0.00	0.00	7,783.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
8,700.00	0.00	0.00	7,883.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
8,800.00	0.00	0.00	7,983.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
8,900.00	0.00	0.00	8,083.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
9,000.00	0.00	0.00	8,183.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
9,100.00	0.00	0.00	8,283.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
9,200.00	0.00	0.00	8,383.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
9,300.00	0.00	0.00	8,483.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
9,400.00	0.00	0.00	8,583.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
9,500.00	0.00	0.00	8,683.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
9,600.00	0.00	0.00	8,783.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
9,700.00	0.00	0.00	8,883.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
9,800.00	0.00	0.00	8,983.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
<b>CMEO</b>									
9,893.44	0.00	0.00	9,077.00	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
9,900.00	0.00	0.00	9,083.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
10,000.00	0.00	0.00	9,183.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
10,100.00	0.00	0.00	9,283.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
10,200.00	0.00	0.00	9,383.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
10,300.00	0.00	0.00	9,483.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
10,400.00	0.00	0.00	9,583.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
10,500.00	0.00	0.00	9,683.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
10,600.00	0.00	0.00	9,783.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
10,700.00	0.00	0.00	9,883.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
<b>RLNS</b>									
10,772.44	0.00	0.00	9,956.00	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
10,800.00	0.00	0.00	9,983.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
10,900.00	0.00	0.00	10,083.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
11,000.00	0.00	0.00	10,183.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
11,100.00	0.00	0.00	10,283.56	2,251.69	2,233.31	3,171.40	0.00	0.00	0.00
<b>TD at 11122.44 - TD</b>									
11,122.44	0.00	0.00	10,306.00	2,251.69	2,233.31	3,171.40	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
- hit/miss target									
- Shape									
WMC 412-18-793 - VP	0.00	0.00	7,021.00	2,251.69	2,233.31	1,594,180.80	2,344,531.30	39.441804	-107.821172
- plan hits target center									
- Circle (radius 50.00)									
WMC 412-18-793 - PBH	0.00	0.00	10,306.00	2,251.69	2,233.31	1,594,180.80	2,344,531.30	39.441804	-107.821172
- plan hits target center									
- Circle (radius 0.00)									

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well WMC 412-18-793 - Slot (B10) WMC 412-18-793
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>MD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Site:</b>	S. Leverich 13-09 Pad	<b>North Reference:</b>	True
<b>Well:</b>	WMC 412-18-793	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,130.60	1,100.00	9 5/8" Surface Casing	9-5/8	12-1/4

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
0.00	0.00	U__WSCH		0.00	
4,657.39	4,106.00	G_SAND			
5,244.89	4,606.00	FRUN			
6,836.01	6,031.00	L__WSCH			
7,265.31	6,451.00	OCRK			
7,837.44	7,021.00	U__MVRD			
7,837.44	7,021.00	TGAS			
9,893.44	9,077.00	CME0			
10,772.44	9,956.00	RLNS			
11,122.44	10,306.00	TD		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
220.00	220.00	0.00	0.00	Start Build 3.00
386.67	386.46	7.21	0.89	Start DLS 3.00 TFO 44.07
1,316.80	1,262.95	223.47	183.04	Start 4409.14 hold at 1316.80 MD
5,725.94	5,015.41	1,851.60	1,828.87	Start Drop -1.50
7,837.44	7,021.00	2,251.69	2,233.31	Start 3285.00 hold at 7837.44 MD
11,122.44	10,306.00	2,251.69	2,233.31	TD at 11122.44