



Well: Ries Fee 506-2821H  
Site: Section 28-T12N-R64W  
Project: Weld County, Colorado  
Design: plan1

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Ries Fee 506-2821H PBHL 600 FNL 940 FWL	8147.00	9610.63	-998.92	1608531.76	3259903.14	40.99998640	-104.55845868
Ries Fee 506-2821H EP 600 FSL 940 FWL	8155.00	-98.63	-1011.86	1598822.93	3259993.69	40.97333922	-104.55850409

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 2°/100' build
2	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	Begin 13.38° tangent
3	3168.85	13.38	233.18	3162.79	-46.58	-62.22	2.00	233.18	-39.89	Begin 10°/100' build/turn
4	7641.38	13.38	233.18	7513.97	-666.66	-890.60	0.00	0.00	-571.02	Begin 90.05° lateral
5	8621.68	90.05	0.08	8155.00	-98.63	-1011.86	10.00	126.13	6.51	PBHL/TD 18330.95 MD/8147.00 TVD
6	18330.95	90.05	0.08	8147.00	9610.63	-998.92	0.00	0.00	9662.41	

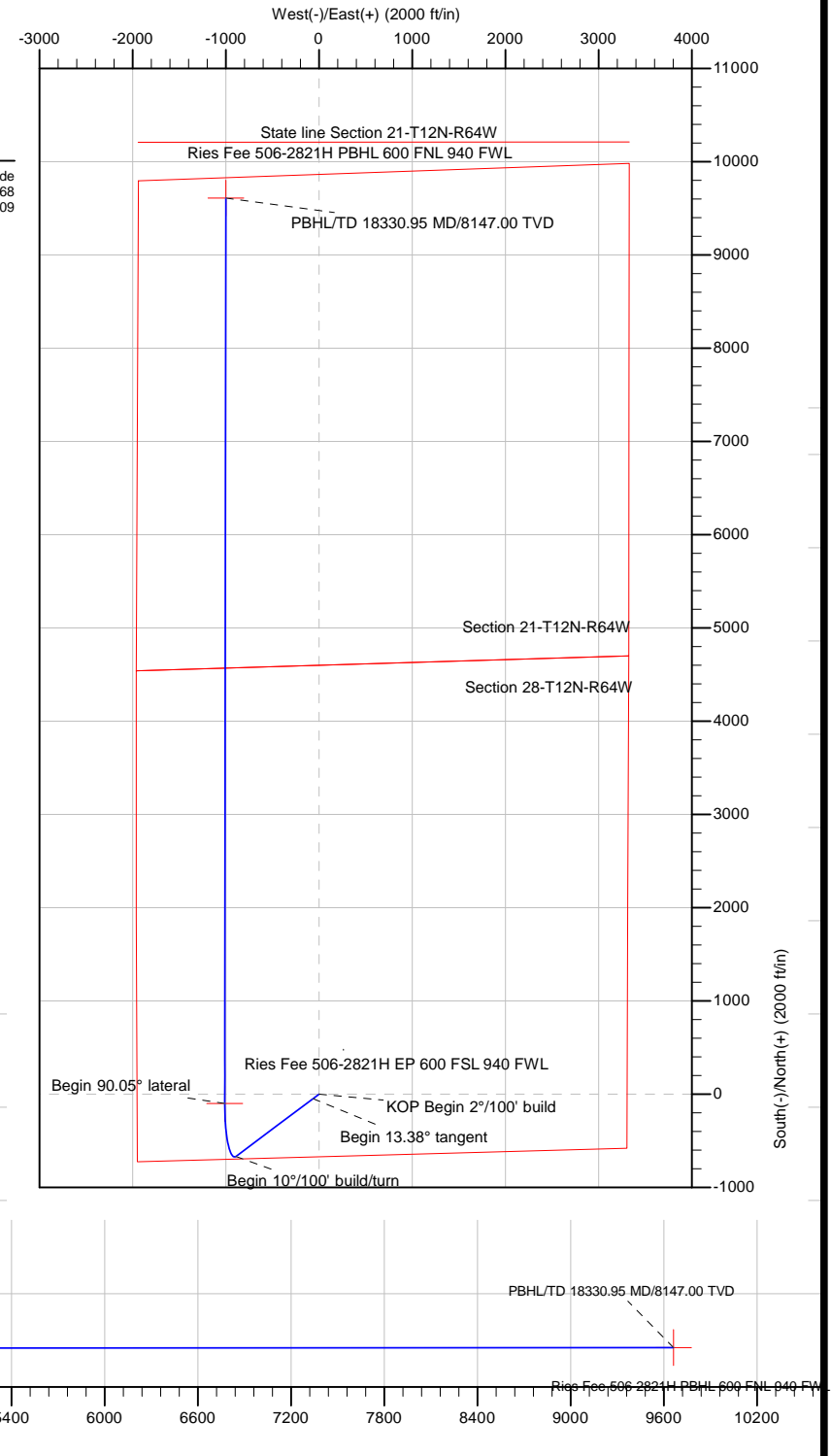
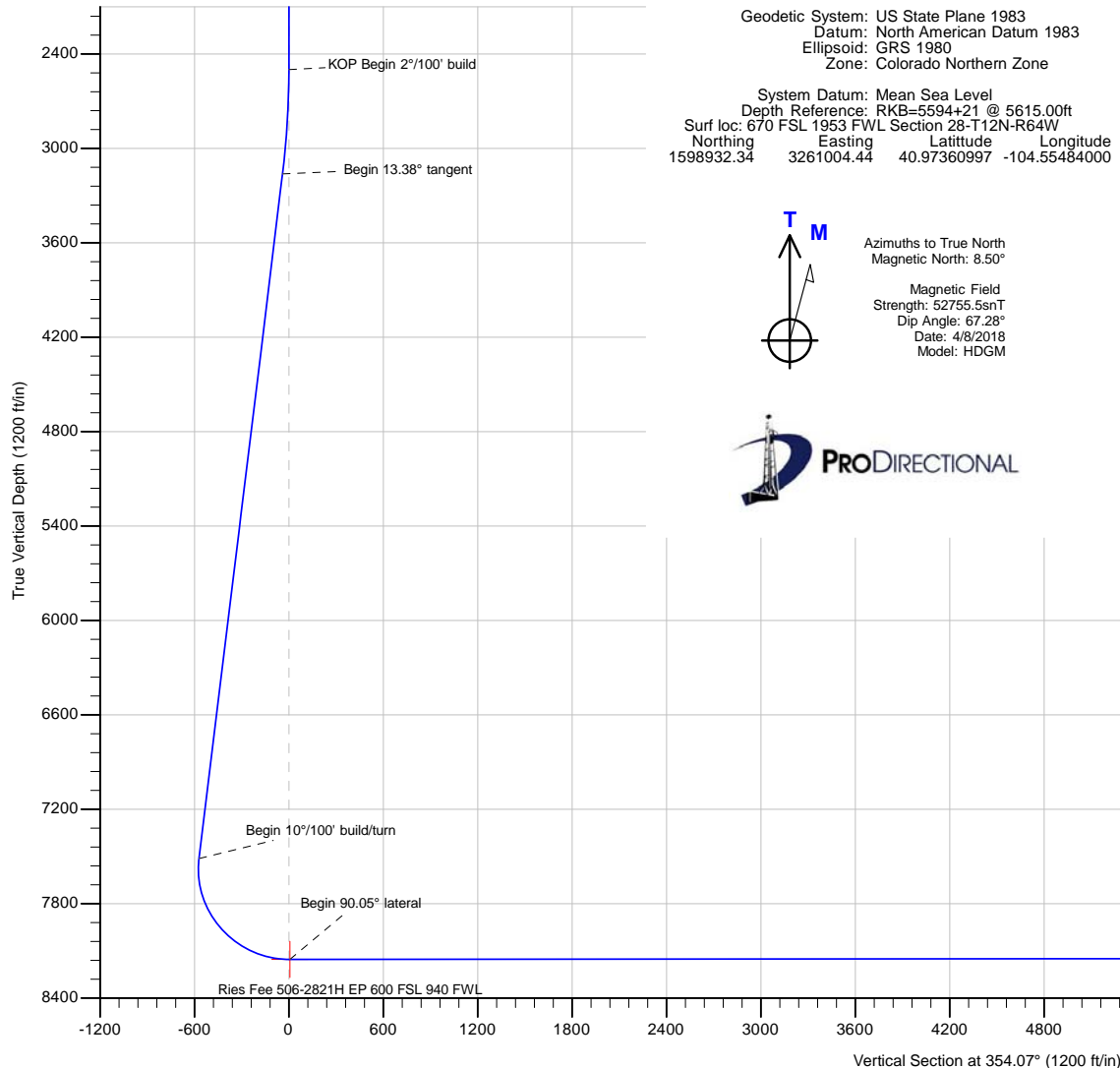
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone

System Datum: Mean Sea Level  
Depth Reference: RKB=5594+21 @ 5615.00ft  
Surf loc: 670 FSL 1953 FWL Section 28-T12N-R64W  
Northing Easting Latitude Longitude  
1598932.34 3261004.44 40.97360997 -104.55484000



Azimuths to True North  
Magnetic North: 8.50°

Magnetic Field  
Strength: 52755.5nT  
Dip Angle: 67.28°  
Date: 4/8/2018  
Model: HDGM



<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Ries Fee 506-2821H
<b>Company:</b>	Clear Creek Resources Partners	<b>TVD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

<b>Project</b>	Weld County, Colorado		
<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 Northern Zone		

Site		Section 28-T12N-R64W			
Site Position:		Northing:	1,600,935.50 usft	Latitude:	40.97908764
From:	Map	Easting:	3,261,678.61 usft	Longitude:	-104.55232132
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.61 °

Well	Ries Fee 506-2821H, Surf loc: 670 FSL 1953 FWL Section 28-T12N-R64W					
Well Position	+N/-S	-1,995.84 ft	Northing:	1,598,932.34 usft	Latitude:	40.97360997
	+E/-W	-695.54 ft	Easting:	3,261,004.44 usft	Longitude:	-104.55484000
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,594.00 ft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	4/8/2018	8.50	67.28	52,755.50000000

<b>Design</b>	plan1			
<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) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	354.07

<b>Plan Survey Tool Program</b>	<b>Date</b>	4/8/2018		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	18,330.95 plan1 (Original Hole)	MWD	
			OWSG MWD - Standard	

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,168.85	13.38	233.18	3,162.79	-46.58	-62.22	2.00	2.00	0.00	233.18	
7,641.38	13.38	233.18	7,513.97	-666.66	-890.60	0.00	0.00	0.00	0.00	
8,621.68	90.05	0.08	8,155.00	-98.63	-1,011.86	10.00	7.82	12.94	126.13	Ries Fee 506-2821H
18,330.95	90.05	0.08	8,147.00	9,610.63	-998.92	0.00	0.00	0.00	0.00	Ries Fee 506-2821H

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Ries Fee 506-2821H
<b>Company:</b>	Clear Creek Resources Partners	<b>TVD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>KOP Begin 2°/100' build</b>									
2,600.00	2.00	233.18	2,599.98	-1.05	-1.40	-0.90	2.00	2.00	0.00
2,700.00	4.00	233.18	2,699.84	-4.18	-5.59	-3.58	2.00	2.00	0.00
2,800.00	6.00	233.18	2,799.45	-9.40	-12.56	-8.06	2.00	2.00	0.00
2,900.00	8.00	233.18	2,898.70	-16.71	-22.32	-14.31	2.00	2.00	0.00
3,000.00	10.00	233.18	2,997.47	-26.08	-34.84	-22.34	2.00	2.00	0.00
3,100.00	12.00	233.18	3,095.62	-37.52	-50.12	-32.13	2.00	2.00	0.00
3,168.85	13.38	233.18	3,162.79	-46.58	-62.22	-39.89	2.00	2.00	0.00
<b>Begin 13.38° tangent</b>									
3,200.00	13.38	233.18	3,193.10	-50.90	-67.99	-43.59	0.00	0.00	0.00
3,300.00	13.38	233.18	3,290.38	-64.76	-86.51	-55.47	0.00	0.00	0.00
3,400.00	13.38	233.18	3,387.67	-78.62	-105.04	-67.34	0.00	0.00	0.00
3,500.00	13.38	233.18	3,484.96	-92.49	-123.56	-79.22	0.00	0.00	0.00
3,600.00	13.38	233.18	3,582.24	-106.35	-142.08	-91.10	0.00	0.00	0.00
3,700.00	13.38	233.18	3,679.53	-120.22	-160.60	-102.97	0.00	0.00	0.00
3,800.00	13.38	233.18	3,776.82	-134.08	-179.12	-114.85	0.00	0.00	0.00
3,900.00	13.38	233.18	3,874.10	-147.95	-197.64	-126.72	0.00	0.00	0.00
4,000.00	13.38	233.18	3,971.39	-161.81	-216.16	-138.60	0.00	0.00	0.00
4,100.00	13.38	233.18	4,068.68	-175.67	-234.68	-150.47	0.00	0.00	0.00
4,200.00	13.38	233.18	4,165.96	-189.54	-253.21	-162.35	0.00	0.00	0.00
4,300.00	13.38	233.18	4,263.25	-203.40	-271.73	-174.22	0.00	0.00	0.00
4,400.00	13.38	233.18	4,360.54	-217.27	-290.25	-186.10	0.00	0.00	0.00
4,500.00	13.38	233.18	4,457.82	-231.13	-308.77	-197.97	0.00	0.00	0.00
4,600.00	13.38	233.18	4,555.11	-245.00	-327.29	-209.85	0.00	0.00	0.00
4,700.00	13.38	233.18	4,652.40	-258.86	-345.81	-221.72	0.00	0.00	0.00
4,800.00	13.38	233.18	4,749.69	-272.72	-364.33	-233.60	0.00	0.00	0.00
4,900.00	13.38	233.18	4,846.97	-286.59	-382.86	-245.47	0.00	0.00	0.00

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<b>Company:</b>	Clear Creek Resources Partners	<b>TVD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.00	13.38	233.18	4,944.26	-300.45	-401.38	-257.35	0.00	0.00	0.00
5,100.00	13.38	233.18	5,041.55	-314.32	-419.90	-269.22	0.00	0.00	0.00
5,200.00	13.38	233.18	5,138.83	-328.18	-438.42	-281.10	0.00	0.00	0.00
5,300.00	13.38	233.18	5,236.12	-342.05	-456.94	-292.97	0.00	0.00	0.00
5,400.00	13.38	233.18	5,333.41	-355.91	-475.46	-304.85	0.00	0.00	0.00
5,500.00	13.38	233.18	5,430.69	-369.77	-493.98	-316.72	0.00	0.00	0.00
5,600.00	13.38	233.18	5,527.98	-383.64	-512.51	-328.60	0.00	0.00	0.00
5,700.00	13.38	233.18	5,625.27	-397.50	-531.03	-340.47	0.00	0.00	0.00
5,800.00	13.38	233.18	5,722.55	-411.37	-549.55	-352.35	0.00	0.00	0.00
5,900.00	13.38	233.18	5,819.84	-425.23	-568.07	-364.23	0.00	0.00	0.00
6,000.00	13.38	233.18	5,917.13	-439.10	-586.59	-376.10	0.00	0.00	0.00
6,100.00	13.38	233.18	6,014.42	-452.96	-605.11	-387.98	0.00	0.00	0.00
6,200.00	13.38	233.18	6,111.70	-466.82	-623.63	-399.85	0.00	0.00	0.00
6,300.00	13.38	233.18	6,208.99	-480.69	-642.15	-411.73	0.00	0.00	0.00
6,400.00	13.38	233.18	6,306.28	-494.55	-660.68	-423.60	0.00	0.00	0.00
6,500.00	13.38	233.18	6,403.56	-508.42	-679.20	-435.48	0.00	0.00	0.00
6,600.00	13.38	233.18	6,500.85	-522.28	-697.72	-447.35	0.00	0.00	0.00
6,700.00	13.38	233.18	6,598.14	-536.15	-716.24	-459.23	0.00	0.00	0.00
6,800.00	13.38	233.18	6,695.42	-550.01	-734.76	-471.10	0.00	0.00	0.00
6,900.00	13.38	233.18	6,792.71	-563.87	-753.28	-482.98	0.00	0.00	0.00
7,000.00	13.38	233.18	6,890.00	-577.74	-771.80	-494.85	0.00	0.00	0.00
7,100.00	13.38	233.18	6,987.28	-591.60	-790.33	-506.73	0.00	0.00	0.00
7,200.00	13.38	233.18	7,084.57	-605.47	-808.85	-518.60	0.00	0.00	0.00
7,300.00	13.38	233.18	7,181.86	-619.33	-827.37	-530.48	0.00	0.00	0.00
7,400.00	13.38	233.18	7,279.14	-633.20	-845.89	-542.35	0.00	0.00	0.00
7,500.00	13.38	233.18	7,376.43	-647.06	-864.41	-554.23	0.00	0.00	0.00
7,600.00	13.38	233.18	7,473.72	-660.92	-882.93	-566.10	0.00	0.00	0.00
7,641.38	13.38	233.18	7,513.97	-666.66	-890.60	-571.02	0.00	0.00	0.00
Begin 10°/100' build/turn									
7,700.00	10.97	258.86	7,571.31	-671.81	-901.51	-575.01	10.00	-4.10	43.81
7,800.00	13.32	306.60	7,669.30	-666.77	-920.14	-568.07	10.00	2.34	47.73
7,900.00	20.78	329.99	7,764.95	-644.48	-938.31	-544.02	10.00	7.46	23.39
8,000.00	29.73	340.61	7,855.34	-605.63	-955.46	-503.61	10.00	8.95	10.63
8,100.00	39.16	346.56	7,937.74	-551.39	-971.07	-448.05	10.00	9.43	5.95
8,200.00	48.79	350.48	8,009.64	-483.42	-984.66	-379.03	10.00	9.63	3.92
8,300.00	58.51	353.38	8,068.85	-403.77	-995.83	-298.65	10.00	9.73	2.90
8,400.00	68.29	355.72	8,113.57	-314.86	-1,004.23	-209.36	10.00	9.78	2.35
8,500.00	78.10	357.77	8,142.45	-219.41	-1,009.61	-113.86	10.00	9.81	2.05
8,600.00	87.92	359.67	8,154.62	-120.30	-1,011.81	-15.06	10.00	9.82	1.90
8,621.68	90.05	0.08	8,155.00	-98.63	-1,011.86	6.51	10.00	9.82	1.87
Begin 90.05° lateral									
8,700.00	90.05	0.08	8,154.94	-20.31	-1,011.75	84.40	0.00	0.00	0.00
8,800.00	90.05	0.08	8,154.85	79.69	-1,011.62	183.85	0.00	0.00	0.00
8,900.00	90.05	0.08	8,154.77	179.69	-1,011.49	283.30	0.00	0.00	0.00
9,000.00	90.05	0.08	8,154.69	279.69	-1,011.35	382.75	0.00	0.00	0.00
9,100.00	90.05	0.08	8,154.61	379.69	-1,011.22	482.20	0.00	0.00	0.00
9,200.00	90.05	0.08	8,154.52	479.69	-1,011.09	581.65	0.00	0.00	0.00
9,300.00	90.05	0.08	8,154.44	579.69	-1,010.95	681.10	0.00	0.00	0.00
9,400.00	90.05	0.08	8,154.36	679.69	-1,010.82	780.55	0.00	0.00	0.00
9,500.00	90.05	0.08	8,154.28	779.69	-1,010.69	880.00	0.00	0.00	0.00
9,600.00	90.05	0.08	8,154.19	879.69	-1,010.55	979.45	0.00	0.00	0.00
9,700.00	90.05	0.08	8,154.11	979.69	-1,010.42	1,078.90	0.00	0.00	0.00
9,800.00	90.05	0.08	8,154.03	1,079.69	-1,010.29	1,178.35	0.00	0.00	0.00
9,900.00	90.05	0.08	8,153.95	1,179.69	-1,010.16	1,277.80	0.00	0.00	0.00

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<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,000.00	90.05	0.08	8,153.86	1,279.69	-1,010.02	1,377.25	0.00	0.00	0.00
10,100.00	90.05	0.08	8,153.78	1,379.69	-1,009.89	1,476.70	0.00	0.00	0.00
10,200.00	90.05	0.08	8,153.70	1,479.69	-1,009.76	1,576.15	0.00	0.00	0.00
10,300.00	90.05	0.08	8,153.62	1,579.69	-1,009.62	1,675.60	0.00	0.00	0.00
10,400.00	90.05	0.08	8,153.53	1,679.69	-1,009.49	1,775.05	0.00	0.00	0.00
10,500.00	90.05	0.08	8,153.45	1,779.69	-1,009.36	1,874.50	0.00	0.00	0.00
10,600.00	90.05	0.08	8,153.37	1,879.69	-1,009.22	1,973.95	0.00	0.00	0.00
10,700.00	90.05	0.08	8,153.29	1,979.69	-1,009.09	2,073.40	0.00	0.00	0.00
10,800.00	90.05	0.08	8,153.21	2,079.69	-1,008.96	2,172.85	0.00	0.00	0.00
10,900.00	90.05	0.08	8,153.12	2,179.69	-1,008.82	2,272.30	0.00	0.00	0.00
11,000.00	90.05	0.08	8,153.04	2,279.69	-1,008.69	2,371.75	0.00	0.00	0.00
11,100.00	90.05	0.08	8,152.96	2,379.69	-1,008.56	2,471.20	0.00	0.00	0.00
11,200.00	90.05	0.08	8,152.88	2,479.69	-1,008.42	2,570.65	0.00	0.00	0.00
11,300.00	90.05	0.08	8,152.79	2,579.69	-1,008.29	2,670.10	0.00	0.00	0.00
11,400.00	90.05	0.08	8,152.71	2,679.69	-1,008.16	2,769.55	0.00	0.00	0.00
11,500.00	90.05	0.08	8,152.63	2,779.69	-1,008.02	2,869.00	0.00	0.00	0.00
11,600.00	90.05	0.08	8,152.55	2,879.69	-1,007.89	2,968.45	0.00	0.00	0.00
11,700.00	90.05	0.08	8,152.46	2,979.69	-1,007.76	3,067.91	0.00	0.00	0.00
11,800.00	90.05	0.08	8,152.38	3,079.69	-1,007.62	3,167.36	0.00	0.00	0.00
11,900.00	90.05	0.08	8,152.30	3,179.69	-1,007.49	3,266.81	0.00	0.00	0.00
12,000.00	90.05	0.08	8,152.22	3,279.69	-1,007.36	3,366.26	0.00	0.00	0.00
12,100.00	90.05	0.08	8,152.13	3,379.69	-1,007.22	3,465.71	0.00	0.00	0.00
12,200.00	90.05	0.08	8,152.05	3,479.69	-1,007.09	3,565.16	0.00	0.00	0.00
12,300.00	90.05	0.08	8,151.97	3,579.69	-1,006.96	3,664.61	0.00	0.00	0.00
12,400.00	90.05	0.08	8,151.89	3,679.69	-1,006.82	3,764.06	0.00	0.00	0.00
12,500.00	90.05	0.08	8,151.80	3,779.69	-1,006.69	3,863.51	0.00	0.00	0.00
12,600.00	90.05	0.08	8,151.72	3,879.69	-1,006.56	3,962.96	0.00	0.00	0.00
12,700.00	90.05	0.08	8,151.64	3,979.69	-1,006.42	4,062.41	0.00	0.00	0.00
12,800.00	90.05	0.08	8,151.56	4,079.69	-1,006.29	4,161.86	0.00	0.00	0.00
12,900.00	90.05	0.08	8,151.48	4,179.69	-1,006.16	4,261.31	0.00	0.00	0.00
13,000.00	90.05	0.08	8,151.39	4,279.69	-1,006.02	4,360.76	0.00	0.00	0.00
13,100.00	90.05	0.08	8,151.31	4,379.69	-1,005.89	4,460.21	0.00	0.00	0.00
13,200.00	90.05	0.08	8,151.23	4,479.69	-1,005.76	4,559.66	0.00	0.00	0.00
13,300.00	90.05	0.08	8,151.15	4,579.69	-1,005.62	4,659.11	0.00	0.00	0.00
13,400.00	90.05	0.08	8,151.06	4,679.69	-1,005.49	4,758.56	0.00	0.00	0.00
13,500.00	90.05	0.08	8,150.98	4,779.68	-1,005.36	4,858.01	0.00	0.00	0.00
13,600.00	90.05	0.08	8,150.90	4,879.68	-1,005.23	4,957.46	0.00	0.00	0.00
13,700.00	90.05	0.08	8,150.82	4,979.68	-1,005.09	5,056.91	0.00	0.00	0.00
13,800.00	90.05	0.08	8,150.73	5,079.68	-1,004.96	5,156.36	0.00	0.00	0.00
13,900.00	90.05	0.08	8,150.65	5,179.68	-1,004.83	5,255.81	0.00	0.00	0.00
14,000.00	90.05	0.08	8,150.57	5,279.68	-1,004.69	5,355.26	0.00	0.00	0.00
14,100.00	90.05	0.08	8,150.49	5,379.68	-1,004.56	5,454.71	0.00	0.00	0.00
14,200.00	90.05	0.08	8,150.40	5,479.68	-1,004.43	5,554.16	0.00	0.00	0.00
14,300.00	90.05	0.08	8,150.32	5,579.68	-1,004.29	5,653.61	0.00	0.00	0.00
14,400.00	90.05	0.08	8,150.24	5,679.68	-1,004.16	5,753.06	0.00	0.00	0.00
14,500.00	90.05	0.08	8,150.16	5,779.68	-1,004.03	5,852.51	0.00	0.00	0.00
14,600.00	90.05	0.08	8,150.07	5,879.68	-1,003.89	5,951.96	0.00	0.00	0.00
14,700.00	90.05	0.08	8,149.99	5,979.68	-1,003.76	6,051.41	0.00	0.00	0.00
14,800.00	90.05	0.08	8,149.91	6,079.68	-1,003.63	6,150.86	0.00	0.00	0.00
14,900.00	90.05	0.08	8,149.83	6,179.68	-1,003.49	6,250.31	0.00	0.00	0.00
15,000.00	90.05	0.08	8,149.74	6,279.68	-1,003.36	6,349.76	0.00	0.00	0.00
15,100.00	90.05	0.08	8,149.66	6,379.68	-1,003.23	6,449.21	0.00	0.00	0.00
15,200.00	90.05	0.08	8,149.58	6,479.68	-1,003.09	6,548.66	0.00	0.00	0.00
15,300.00	90.05	0.08	8,149.50	6,579.68	-1,002.96	6,648.12	0.00	0.00	0.00

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Ries Fee 506-2821H
<b>Company:</b>	Clear Creek Resources Partners	<b>TVD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
15,400.00	90.05	0.08	8,149.42	6,679.68	-1,002.83	6,747.57	0.00	0.00	0.00	
15,500.00	90.05	0.08	8,149.33	6,779.68	-1,002.69	6,847.02	0.00	0.00	0.00	
15,600.00	90.05	0.08	8,149.25	6,879.68	-1,002.56	6,946.47	0.00	0.00	0.00	
15,700.00	90.05	0.08	8,149.17	6,979.68	-1,002.43	7,045.92	0.00	0.00	0.00	
15,800.00	90.05	0.08	8,149.09	7,079.68	-1,002.29	7,145.37	0.00	0.00	0.00	
15,900.00	90.05	0.08	8,149.00	7,179.68	-1,002.16	7,244.82	0.00	0.00	0.00	
16,000.00	90.05	0.08	8,148.92	7,279.68	-1,002.03	7,344.27	0.00	0.00	0.00	
16,100.00	90.05	0.08	8,148.84	7,379.68	-1,001.89	7,443.72	0.00	0.00	0.00	
16,200.00	90.05	0.08	8,148.76	7,479.68	-1,001.76	7,543.17	0.00	0.00	0.00	
16,300.00	90.05	0.08	8,148.67	7,579.68	-1,001.63	7,642.62	0.00	0.00	0.00	
16,400.00	90.05	0.08	8,148.59	7,679.68	-1,001.49	7,742.07	0.00	0.00	0.00	
16,500.00	90.05	0.08	8,148.51	7,779.68	-1,001.36	7,841.52	0.00	0.00	0.00	
16,600.00	90.05	0.08	8,148.43	7,879.68	-1,001.23	7,940.97	0.00	0.00	0.00	
16,700.00	90.05	0.08	8,148.34	7,979.68	-1,001.09	8,040.42	0.00	0.00	0.00	
16,800.00	90.05	0.08	8,148.26	8,079.68	-1,000.96	8,139.87	0.00	0.00	0.00	
16,900.00	90.05	0.08	8,148.18	8,179.68	-1,000.83	8,239.32	0.00	0.00	0.00	
17,000.00	90.05	0.08	8,148.10	8,279.68	-1,000.70	8,338.77	0.00	0.00	0.00	
17,100.00	90.05	0.08	8,148.01	8,379.68	-1,000.56	8,438.22	0.00	0.00	0.00	
17,200.00	90.05	0.08	8,147.93	8,479.68	-1,000.43	8,537.67	0.00	0.00	0.00	
17,300.00	90.05	0.08	8,147.85	8,579.68	-1,000.30	8,637.12	0.00	0.00	0.00	
17,400.00	90.05	0.08	8,147.77	8,679.68	-1,000.16	8,736.57	0.00	0.00	0.00	
17,500.00	90.05	0.08	8,147.68	8,779.68	-1,000.03	8,836.02	0.00	0.00	0.00	
17,600.00	90.05	0.08	8,147.60	8,879.68	-999.90	8,935.47	0.00	0.00	0.00	
17,700.00	90.05	0.08	8,147.52	8,979.68	-999.76	9,034.92	0.00	0.00	0.00	
17,800.00	90.05	0.08	8,147.44	9,079.68	-999.63	9,134.37	0.00	0.00	0.00	
17,900.00	90.05	0.08	8,147.36	9,179.68	-999.50	9,233.82	0.00	0.00	0.00	
18,000.00	90.05	0.08	8,147.27	9,279.68	-999.36	9,333.27	0.00	0.00	0.00	
18,100.00	90.05	0.08	8,147.19	9,379.68	-999.23	9,432.72	0.00	0.00	0.00	
18,200.00	90.05	0.08	8,147.11	9,479.68	-999.10	9,532.17	0.00	0.00	0.00	
18,300.00	90.05	0.08	8,147.03	9,579.68	-998.96	9,631.62	0.00	0.00	0.00	
18,330.95	90.05	0.08	8,147.00	9,610.63	-998.92	9,662.40	0.00	0.00	0.00	
PBHL/TD 18330.95 MD/8147.00 TVD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Ries Fee 506-2821H PB - hit/miss target - Shape - Point	0.00	0.00	8,147.00	9,610.63	-998.92	1,608,531.76	3,259,903.14	40.99998640	-104.55845868	
Ries Fee 506-2821H EP - plan hits target center - Point	0.00	0.00	8,155.00	-98.63	-1,011.86	1,598,822.93	3,259,993.69	40.97333921	-104.55850409	

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Ries Fee 506-2821H
<b>Company:</b>	Clear Creek Resources Partners	<b>TVD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
2,500.00	2,500.00	0.00	0.00	KOP Begin 2°/100' build	
3,168.85	3,162.79	-46.58	-62.22	Begin 13.38° tangent	
7,641.38	7,513.97	-666.66	-890.60	Begin 10°/100' build/turn	
8,621.68	8,155.00	-98.63	-1,011.86	Begin 90.05° lateral	
18,330.95	8,147.00	9,610.63	-998.92	PBHL/TD 18330.95 MD/8147.00 TVD	

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Ries Fee 506-2821H
<b>Company:</b>	Clear Creek Resources Partners	<b>TVD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

<b>Project</b>	Weld County, Colorado		
<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 Northern Zone		

Site		Section 28-T12N-R64W			
Site Position:		Northing:	1,600,935.50 usft	Latitude:	40.97908764
From:	Map	Easting:	3,261,678.61 usft	Longitude:	-104.55232132
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.61 °

Well	Ries Fee 506-2821H, Surf loc: 670 FSL 1953 FWL Section 28-T12N-R64W					
Well Position	+N/-S	0.00 ft	Northing:	1,598,932.34 usft	Latitude:	40.97360997
	+E/-W	0.00 ft	Easting:	3,261,004.44 usft	Longitude:	-104.55484000
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,594.00 ft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	4/8/2018	8.50	67.28	52,755.50000000

<b>Design</b>	plan1			
<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) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	354.07

<b>Plan Survey Tool Program</b>	<b>Date</b>	4/8/2018		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	18,330.95 plan1 (Original Hole)	MWD	
			OWSG MWD - Standard	

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,168.85	13.38	233.18	3,162.79	-46.58	-62.22	2.00	2.00	0.00	233.18	
7,641.38	13.38	233.18	7,513.97	-666.66	-890.60	0.00	0.00	0.00	0.00	
8,621.68	90.05	0.08	8,155.00	-98.63	-1,011.86	10.00	7.82	12.94	126.13	Ries Fee 506-2821H
18,330.95	90.05	0.08	8,147.00	9,610.63	-998.92	0.00	0.00	0.00	0.00	Ries Fee 506-2821H



<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Ries Fee 506-2821H
<b>Company:</b>	Clear Creek Resources Partners	<b>TVD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
100.00	0.00	0.00	100.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
200.00	0.00	0.00	200.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
300.00	0.00	0.00	300.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
400.00	0.00	0.00	400.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
500.00	0.00	0.00	500.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
600.00	0.00	0.00	600.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
700.00	0.00	0.00	700.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
800.00	0.00	0.00	800.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
900.00	0.00	0.00	900.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
1,000.00	0.00	0.00	1,000.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
1,100.00	0.00	0.00	1,100.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
1,200.00	0.00	0.00	1,200.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
1,300.00	0.00	0.00	1,300.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
1,400.00	0.00	0.00	1,400.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
1,500.00	0.00	0.00	1,500.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
1,600.00	0.00	0.00	1,600.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
1,700.00	0.00	0.00	1,700.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
1,800.00	0.00	0.00	1,800.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
1,900.00	0.00	0.00	1,900.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
2,000.00	0.00	0.00	2,000.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
2,100.00	0.00	0.00	2,100.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
2,200.00	0.00	0.00	2,200.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
2,300.00	0.00	0.00	2,300.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
2,400.00	0.00	0.00	2,400.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
2,500.00	0.00	0.00	2,500.00	0.00	0.00	1,598,932.34	3,261,004.44	40.97360997	-104.55484000
<b>KOP Begin 2°/100' build</b>									
2,600.00	2.00	233.18	2,599.98	-1.05	-1.40	1,598,931.28	3,261,003.05	40.97360710	-104.55484505
2,700.00	4.00	233.18	2,699.84	-4.18	-5.59	1,598,928.09	3,260,998.90	40.97359849	-104.55486023
2,800.00	6.00	233.18	2,799.45	-9.40	-12.56	1,598,922.80	3,260,991.98	40.97358416	-104.55488549
2,900.00	8.00	233.18	2,898.70	-16.71	-22.32	1,598,915.39	3,260,982.30	40.97356411	-104.55492082
3,000.00	10.00	233.18	2,997.47	-26.08	-34.84	1,598,905.88	3,260,969.88	40.97353839	-104.55496616
3,100.00	12.00	233.18	3,095.62	-37.52	-50.12	1,598,894.29	3,260,954.73	40.97350701	-104.55502148
3,168.85	13.38	233.18	3,162.79	-46.58	-62.22	1,598,885.10	3,260,942.72	40.97348213	-104.55506531
<b>Begin 13.38° tangent</b>									
3,200.00	13.38	233.18	3,193.10	-50.90	-67.99	1,598,880.72	3,260,936.99	40.97347028	-104.55508621
3,300.00	13.38	233.18	3,290.38	-64.76	-86.51	1,598,866.66	3,260,918.62	40.97343223	-104.55515328
3,400.00	13.38	233.18	3,387.67	-78.62	-105.04	1,598,852.60	3,260,900.25	40.97339418	-104.55522034
3,500.00	13.38	233.18	3,484.96	-92.49	-123.56	1,598,838.54	3,260,881.88	40.97335613	-104.55528741
3,600.00	13.38	233.18	3,582.24	-106.35	-142.08	1,598,824.47	3,260,863.50	40.97331808	-104.55535448
3,700.00	13.38	233.18	3,679.53	-120.22	-160.60	1,598,810.41	3,260,845.13	40.97328002	-104.55542155
3,800.00	13.38	233.18	3,776.82	-134.08	-179.12	1,598,796.35	3,260,826.76	40.97324197	-104.55548862
3,900.00	13.38	233.18	3,874.10	-147.95	-197.64	1,598,782.29	3,260,808.39	40.97320392	-104.55555569
4,000.00	13.38	233.18	3,971.39	-161.81	-216.16	1,598,768.23	3,260,790.01	40.97316587	-104.55562275
4,100.00	13.38	233.18	4,068.68	-175.67	-234.68	1,598,754.17	3,260,771.64	40.97312782	-104.55568982
4,200.00	13.38	233.18	4,165.96	-189.54	-253.21	1,598,740.11	3,260,753.27	40.97308977	-104.55575689
4,300.00	13.38	233.18	4,263.25	-203.40	-271.73	1,598,726.05	3,260,734.90	40.97305172	-104.55582396
4,400.00	13.38	233.18	4,360.54	-217.27	-290.25	1,598,711.99	3,260,716.52	40.97301367	-104.55589103
4,500.00	13.38	233.18	4,457.82	-231.13	-308.77	1,598,697.93	3,260,698.15	40.97297561	-104.55595809
4,600.00	13.38	233.18	4,555.11	-245.00	-327.29	1,598,683.87	3,260,679.78	40.97293756	-104.55602516
4,700.00	13.38	233.18	4,652.40	-258.86	-345.81	1,598,669.80	3,260,661.41	40.97289951	-104.55609223
4,800.00	13.38	233.18	4,749.69	-272.72	-364.33	1,598,655.74	3,260,643.03	40.97286146	-104.55615930
4,900.00	13.38	233.18	4,846.97	-286.59	-382.86	1,598,641.68	3,260,624.66	40.97282341	-104.55622636
5,000.00	13.38	233.18	4,944.26	-300.45	-401.38	1,598,627.62	3,260,606.29	40.97278536	-104.55629343

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Ries Fee 506-2821H
<b>Company:</b>	Clear Creek Resources Partners	<b>TVD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,100.00	13.38	233.18	5,041.55	-314.32	-419.90	1,598,613.56	3,260,587.92	40.97274730	-104.55636050
5,200.00	13.38	233.18	5,138.83	-328.18	-438.42	1,598,599.50	3,260,569.54	40.97270925	-104.55642756
5,300.00	13.38	233.18	5,236.12	-342.05	-456.94	1,598,585.44	3,260,551.17	40.97267120	-104.55649463
5,400.00	13.38	233.18	5,333.41	-355.91	-475.46	1,598,571.38	3,260,532.80	40.97263315	-104.55656170
5,500.00	13.38	233.18	5,430.69	-369.77	-493.98	1,598,557.32	3,260,514.43	40.97259510	-104.55662877
5,600.00	13.38	233.18	5,527.98	-383.64	-512.51	1,598,543.26	3,260,496.05	40.97255704	-104.55669583
5,700.00	13.38	233.18	5,625.27	-397.50	-531.03	1,598,529.20	3,260,477.68	40.97251899	-104.55676290
5,800.00	13.38	233.18	5,722.55	-411.37	-549.55	1,598,515.14	3,260,459.31	40.97248094	-104.55682997
5,900.00	13.38	233.18	5,819.84	-425.23	-568.07	1,598,501.07	3,260,440.94	40.97244289	-104.55689703
6,000.00	13.38	233.18	5,917.13	-439.10	-586.59	1,598,487.01	3,260,422.56	40.97240484	-104.55696410
6,100.00	13.38	233.18	6,014.42	-452.96	-605.11	1,598,472.95	3,260,404.19	40.97236678	-104.55703117
6,200.00	13.38	233.18	6,111.70	-466.82	-623.63	1,598,458.89	3,260,385.82	40.97232873	-104.55709823
6,300.00	13.38	233.18	6,208.99	-480.69	-642.15	1,598,444.83	3,260,367.45	40.97229068	-104.55716530
6,400.00	13.38	233.18	6,306.28	-494.55	-660.68	1,598,430.77	3,260,349.07	40.97225263	-104.55723236
6,500.00	13.38	233.18	6,403.56	-508.42	-679.20	1,598,416.71	3,260,330.70	40.97221458	-104.55729943
6,600.00	13.38	233.18	6,500.85	-522.28	-697.72	1,598,402.65	3,260,312.33	40.97217652	-104.55736650
6,700.00	13.38	233.18	6,598.14	-536.15	-716.24	1,598,388.59	3,260,293.96	40.97213847	-104.55743356
6,800.00	13.38	233.18	6,695.42	-550.01	-734.76	1,598,374.53	3,260,275.58	40.97210042	-104.55750063
6,900.00	13.38	233.18	6,792.71	-563.87	-753.28	1,598,360.47	3,260,257.21	40.97206237	-104.55756769
7,000.00	13.38	233.18	6,890.00	-577.74	-771.80	1,598,346.40	3,260,238.84	40.97202431	-104.55763476
7,100.00	13.38	233.18	6,987.28	-591.60	-790.33	1,598,332.34	3,260,220.47	40.97198626	-104.55770183
7,200.00	13.38	233.18	7,084.57	-605.47	-808.85	1,598,318.28	3,260,202.09	40.97194821	-104.55776889
7,300.00	13.38	233.18	7,181.86	-619.33	-827.37	1,598,304.22	3,260,183.72	40.97191016	-104.55783596
7,400.00	13.38	233.18	7,279.14	-633.20	-845.89	1,598,290.16	3,260,165.35	40.97187210	-104.55790302
7,500.00	13.38	233.18	7,376.43	-647.06	-864.41	1,598,276.10	3,260,146.98	40.97183405	-104.55797009
7,600.00	13.38	233.18	7,473.72	-660.92	-882.93	1,598,262.04	3,260,128.60	40.97179600	-104.55803715
7,641.38	13.38	233.18	7,513.97	-666.66	-890.60	1,598,256.22	3,260,121.00	40.97178025	-104.55806490
Begin 10°/100' build/turn									
7,700.00	10.97	258.86	7,571.31	-671.81	-901.51	1,598,250.96	3,260,110.15	40.97176613	-104.55810442
7,800.00	13.32	306.60	7,669.30	-666.77	-920.14	1,598,255.80	3,260,091.46	40.97177996	-104.55817189
7,900.00	20.78	329.99	7,764.95	-644.48	-938.31	1,598,277.89	3,260,073.06	40.97184112	-104.55823768
8,000.00	29.73	340.61	7,855.34	-605.63	-955.46	1,598,316.56	3,260,055.50	40.97194775	-104.55829978
8,100.00	39.16	346.56	7,937.74	-551.39	-971.07	1,598,370.63	3,260,039.31	40.97209660	-104.55835631
8,200.00	48.79	350.48	8,009.64	-483.42	-984.66	1,598,438.45	3,260,024.99	40.97228316	-104.55840555
8,300.00	58.51	353.38	8,068.85	-403.77	-995.83	1,598,517.98	3,260,012.97	40.97250176	-104.55844600
8,400.00	68.29	355.72	8,113.57	-314.86	-1,004.23	1,598,606.79	3,260,003.62	40.97274576	-104.55847644
8,500.00	78.10	357.77	8,142.45	-219.41	-1,009.61	1,598,702.18	3,259,997.22	40.97300773	-104.55849594
8,600.00	87.92	359.67	8,154.62	-120.30	-1,011.81	1,598,801.25	3,259,993.97	40.97327973	-104.55850391
8,621.68	90.05	0.08	8,155.00	-98.63	-1,011.86	1,598,822.93	3,259,993.69	40.97333921	-104.55850409
Begin 90.05° lateral									
8,700.00	90.05	0.08	8,154.94	-20.31	-1,011.75	1,598,901.24	3,259,992.96	40.97355417	-104.55850372
8,800.00	90.05	0.08	8,154.85	79.69	-1,011.62	1,599,001.24	3,259,992.03	40.97382862	-104.55850325
8,900.00	90.05	0.08	8,154.77	179.69	-1,011.49	1,599,101.23	3,259,991.10	40.97410307	-104.55850279
9,000.00	90.05	0.08	8,154.69	279.69	-1,011.35	1,599,201.23	3,259,990.16	40.97437753	-104.55850232
9,100.00	90.05	0.08	8,154.61	379.69	-1,011.22	1,599,301.23	3,259,989.23	40.97465198	-104.55850185
9,200.00	90.05	0.08	8,154.52	479.69	-1,011.09	1,599,401.22	3,259,988.30	40.97492643	-104.55850138
9,300.00	90.05	0.08	8,154.44	579.69	-1,010.95	1,599,501.22	3,259,987.37	40.97520088	-104.55850092
9,400.00	90.05	0.08	8,154.36	679.69	-1,010.82	1,599,601.21	3,259,986.43	40.97547534	-104.55850045
9,500.00	90.05	0.08	8,154.28	779.69	-1,010.69	1,599,701.21	3,259,985.50	40.97574979	-104.55849998
9,600.00	90.05	0.08	8,154.19	879.69	-1,010.55	1,599,801.20	3,259,984.57	40.97602424	-104.55849951
9,700.00	90.05	0.08	8,154.11	979.69	-1,010.42	1,599,901.20	3,259,983.64	40.97629869	-104.55849905
9,800.00	90.05	0.08	8,154.03	1,079.69	-1,010.29	1,600,001.19	3,259,982.70	40.97657314	-104.55849858
9,900.00	90.05	0.08	8,153.95	1,179.69	-1,010.16	1,600,101.19	3,259,981.77	40.97684760	-104.55849811
10,000.00	90.05	0.08	8,153.86	1,279.69	-1,010.02	1,600,201.18	3,259,980.84	40.97712205	-104.55849764

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Ries Fee 506-2821H
<b>Company:</b>	Clear Creek Resources Partners	<b>TVD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,100.00	90.05	0.08	8,153.78	1,379.69	-1,009.89	1,600,301.18	3,259,979.91	40.97739650	-104.55849718
10,200.00	90.05	0.08	8,153.70	1,479.69	-1,009.76	1,600,401.18	3,259,978.97	40.97767095	-104.55849671
10,300.00	90.05	0.08	8,153.62	1,579.69	-1,009.62	1,600,501.17	3,259,978.04	40.97794540	-104.55849624
10,400.00	90.05	0.08	8,153.53	1,679.69	-1,009.49	1,600,601.17	3,259,977.11	40.97821985	-104.55849577
10,500.00	90.05	0.08	8,153.45	1,779.69	-1,009.36	1,600,701.16	3,259,976.18	40.97849431	-104.55849531
10,600.00	90.05	0.08	8,153.37	1,879.69	-1,009.22	1,600,801.16	3,259,975.24	40.97876876	-104.55849484
10,700.00	90.05	0.08	8,153.29	1,979.69	-1,009.09	1,600,901.15	3,259,974.31	40.97904321	-104.55849437
10,800.00	90.05	0.08	8,153.21	2,079.69	-1,008.96	1,601,001.15	3,259,973.38	40.97931766	-104.55849390
10,900.00	90.05	0.08	8,153.12	2,179.69	-1,008.82	1,601,101.14	3,259,972.44	40.97959211	-104.55849343
11,000.00	90.05	0.08	8,153.04	2,279.69	-1,008.69	1,601,201.14	3,259,971.51	40.97986656	-104.55849297
11,100.00	90.05	0.08	8,152.96	2,379.69	-1,008.56	1,601,301.13	3,259,970.58	40.98014102	-104.55849250
11,200.00	90.05	0.08	8,152.88	2,479.69	-1,008.42	1,601,401.13	3,259,969.65	40.98041547	-104.55849203
11,300.00	90.05	0.08	8,152.79	2,579.69	-1,008.29	1,601,501.12	3,259,968.71	40.98068992	-104.55849156
11,400.00	90.05	0.08	8,152.71	2,679.69	-1,008.16	1,601,601.12	3,259,967.78	40.98096437	-104.55849110
11,500.00	90.05	0.08	8,152.63	2,779.69	-1,008.02	1,601,701.12	3,259,966.85	40.98123882	-104.55849063
11,600.00	90.05	0.08	8,152.55	2,879.69	-1,007.89	1,601,801.11	3,259,965.92	40.98151327	-104.55849016
11,700.00	90.05	0.08	8,152.46	2,979.69	-1,007.76	1,601,901.11	3,259,964.98	40.98178772	-104.55848969
11,800.00	90.05	0.08	8,152.38	3,079.69	-1,007.62	1,602,001.10	3,259,964.05	40.98206218	-104.55848923
11,900.00	90.05	0.08	8,152.30	3,179.69	-1,007.49	1,602,101.10	3,259,963.12	40.98233663	-104.55848876
12,000.00	90.05	0.08	8,152.22	3,279.69	-1,007.36	1,602,201.09	3,259,962.19	40.98261108	-104.55848829
12,100.00	90.05	0.08	8,152.13	3,379.69	-1,007.22	1,602,301.09	3,259,961.25	40.98288553	-104.55848782
12,200.00	90.05	0.08	8,152.05	3,479.69	-1,007.09	1,602,401.08	3,259,960.32	40.98315998	-104.55848736
12,300.00	90.05	0.08	8,151.97	3,579.69	-1,006.96	1,602,501.08	3,259,959.39	40.98343443	-104.55848689
12,400.00	90.05	0.08	8,151.89	3,679.69	-1,006.82	1,602,601.07	3,259,958.46	40.98370888	-104.55848642
12,500.00	90.05	0.08	8,151.80	3,779.69	-1,006.69	1,602,701.07	3,259,957.52	40.98398333	-104.55848595
12,600.00	90.05	0.08	8,151.72	3,879.69	-1,006.56	1,602,801.07	3,259,956.59	40.98425779	-104.55848548
12,700.00	90.05	0.08	8,151.64	3,979.69	-1,006.42	1,602,901.06	3,259,955.66	40.98453224	-104.55848502
12,800.00	90.05	0.08	8,151.56	4,079.69	-1,006.29	1,603,001.06	3,259,954.73	40.98480669	-104.55848455
12,900.00	90.05	0.08	8,151.48	4,179.69	-1,006.16	1,603,101.05	3,259,953.79	40.98508114	-104.55848408
13,000.00	90.05	0.08	8,151.39	4,279.69	-1,006.02	1,603,201.05	3,259,952.86	40.98535559	-104.55848361
13,100.00	90.05	0.08	8,151.31	4,379.69	-1,005.89	1,603,301.04	3,259,951.93	40.98563004	-104.55848315
13,200.00	90.05	0.08	8,151.23	4,479.69	-1,005.76	1,603,401.04	3,259,950.99	40.98590449	-104.55848268
13,300.00	90.05	0.08	8,151.15	4,579.69	-1,005.62	1,603,501.03	3,259,950.06	40.98617894	-104.55848221
13,400.00	90.05	0.08	8,151.06	4,679.69	-1,005.49	1,603,601.03	3,259,949.13	40.98645339	-104.55848174
13,500.00	90.05	0.08	8,150.98	4,779.68	-1,005.36	1,603,701.02	3,259,948.20	40.98672784	-104.55848128
13,600.00	90.05	0.08	8,150.90	4,879.68	-1,005.23	1,603,801.02	3,259,947.26	40.98700229	-104.55848081
13,700.00	90.05	0.08	8,150.82	4,979.68	-1,005.09	1,603,901.01	3,259,946.33	40.98727675	-104.55848034
13,800.00	90.05	0.08	8,150.73	5,079.68	-1,004.96	1,604,001.01	3,259,945.40	40.98755120	-104.55847987
13,900.00	90.05	0.08	8,150.65	5,179.68	-1,004.83	1,604,101.01	3,259,944.47	40.98782565	-104.55847940
14,000.00	90.05	0.08	8,150.57	5,279.68	-1,004.69	1,604,201.00	3,259,943.53	40.98810010	-104.55847894
14,100.00	90.05	0.08	8,150.49	5,379.68	-1,004.56	1,604,301.00	3,259,942.60	40.98837455	-104.55847847
14,200.00	90.05	0.08	8,150.40	5,479.68	-1,004.43	1,604,400.99	3,259,941.67	40.98864900	-104.55847800
14,300.00	90.05	0.08	8,150.32	5,579.68	-1,004.29	1,604,500.99	3,259,940.74	40.98892345	-104.55847753
14,400.00	90.05	0.08	8,150.24	5,679.68	-1,004.16	1,604,600.98	3,259,939.80	40.98919790	-104.55847707
14,500.00	90.05	0.08	8,150.16	5,779.68	-1,004.03	1,604,700.98	3,259,938.87	40.98947235	-104.55847660
14,600.00	90.05	0.08	8,150.07	5,879.68	-1,003.89	1,604,800.97	3,259,937.94	40.98974680	-104.55847613
14,700.00	90.05	0.08	8,149.99	5,979.68	-1,003.76	1,604,900.97	3,259,937.01	40.99002125	-104.55847566
14,800.00	90.05	0.08	8,149.91	6,079.68	-1,003.63	1,605,000.96	3,259,936.07	40.99029570	-104.55847519
14,900.00	90.05	0.08	8,149.83	6,179.68	-1,003.49	1,605,100.96	3,259,935.14	40.99057015	-104.55847473
15,000.00	90.05	0.08	8,149.74	6,279.68	-1,003.36	1,605,200.96	3,259,934.21	40.99084460	-104.55847426
15,100.00	90.05	0.08	8,149.66	6,379.68	-1,003.23	1,605,300.95	3,259,933.28	40.99111905	-104.55847379
15,200.00	90.05	0.08	8,149.58	6,479.68	-1,003.09	1,605,400.95	3,259,932.34	40.99139350	-104.55847332
15,300.00	90.05	0.08	8,149.50	6,579.68	-1,002.96	1,605,500.94	3,259,931.41	40.99166795	-104.55847286
15,400.00	90.05	0.08	8,149.42	6,679.68	-1,002.83	1,605,600.94	3,259,930.48	40.99194240	-104.55847239
15,500.00	90.05	0.08	8,149.33	6,779.68	-1,002.69	1,605,700.93	3,259,929.54	40.99221685	-104.55847192

<b>Database:</b>	DB_Jul2216dt_v14	<b>Local Co-ordinate Reference:</b>	Well Ries Fee 506-2821H
<b>Company:</b>	Clear Creek Resources Partners	<b>TVD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Project:</b>	Weld County, Colorado	<b>MD Reference:</b>	RKB=5594+21 @ 5615.00ft
<b>Site:</b>	Section 28-T12N-R64W	<b>North Reference:</b>	True
<b>Well:</b>	Ries Fee 506-2821H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	plan1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,600.00	90.05	0.08	8,149.25	6,879.68	-1,002.56	1,605,800.93	3,259,928.61	40.99249130	-104.55847145
15,700.00	90.05	0.08	8,149.17	6,979.68	-1,002.43	1,605,900.92	3,259,927.68	40.99276575	-104.55847098
15,800.00	90.05	0.08	8,149.09	7,079.68	-1,002.29	1,606,000.92	3,259,926.75	40.99304020	-104.55847052
15,900.00	90.05	0.08	8,149.00	7,179.68	-1,002.16	1,606,100.91	3,259,925.81	40.99331465	-104.55847005
16,000.00	90.05	0.08	8,148.92	7,279.68	-1,002.03	1,606,200.91	3,259,924.88	40.99358911	-104.55846958
16,100.00	90.05	0.08	8,148.84	7,379.68	-1,001.89	1,606,300.91	3,259,923.95	40.99386356	-104.55846911
16,200.00	90.05	0.08	8,148.76	7,479.68	-1,001.76	1,606,400.90	3,259,923.02	40.99413801	-104.55846865
16,300.00	90.05	0.08	8,148.67	7,579.68	-1,001.63	1,606,500.90	3,259,922.08	40.99441246	-104.55846818
16,400.00	90.05	0.08	8,148.59	7,679.68	-1,001.49	1,606,600.89	3,259,921.15	40.99468691	-104.55846771
16,500.00	90.05	0.08	8,148.51	7,779.68	-1,001.36	1,606,700.89	3,259,920.22	40.99496135	-104.55846724
16,600.00	90.05	0.08	8,148.43	7,879.68	-1,001.23	1,606,800.88	3,259,919.29	40.99523580	-104.55846677
16,700.00	90.05	0.08	8,148.34	7,979.68	-1,001.09	1,606,900.88	3,259,918.35	40.99551025	-104.55846631
16,800.00	90.05	0.08	8,148.26	8,079.68	-1,000.96	1,607,000.87	3,259,917.42	40.99578470	-104.55846584
16,900.00	90.05	0.08	8,148.18	8,179.68	-1,000.83	1,607,100.87	3,259,916.49	40.99605915	-104.55846537
17,000.00	90.05	0.08	8,148.10	8,279.68	-1,000.70	1,607,200.86	3,259,915.56	40.99633360	-104.55846490
17,100.00	90.05	0.08	8,148.01	8,379.68	-1,000.56	1,607,300.86	3,259,914.62	40.99660805	-104.55846444
17,200.00	90.05	0.08	8,147.93	8,479.68	-1,000.43	1,607,400.85	3,259,913.69	40.99688250	-104.55846397
17,300.00	90.05	0.08	8,147.85	8,579.68	-1,000.30	1,607,500.85	3,259,912.76	40.99715695	-104.55846350
17,400.00	90.05	0.08	8,147.77	8,679.68	-1,000.16	1,607,600.85	3,259,911.83	40.99743140	-104.55846303
17,500.00	90.05	0.08	8,147.68	8,779.68	-1,000.03	1,607,700.84	3,259,910.89	40.99770585	-104.55846256
17,600.00	90.05	0.08	8,147.60	8,879.68	-999.90	1,607,800.84	3,259,909.96	40.99798030	-104.55846210
17,700.00	90.05	0.08	8,147.52	8,979.68	-999.76	1,607,900.83	3,259,909.03	40.99825475	-104.55846163
17,800.00	90.05	0.08	8,147.44	9,079.68	-999.63	1,608,000.83	3,259,908.09	40.99852920	-104.55846116
17,900.00	90.05	0.08	8,147.36	9,179.68	-999.50	1,608,100.82	3,259,907.16	40.99880365	-104.55846069
18,000.00	90.05	0.08	8,147.27	9,279.68	-999.36	1,608,200.82	3,259,906.23	40.99907810	-104.55846022
18,100.00	90.05	0.08	8,147.19	9,379.68	-999.23	1,608,300.81	3,259,905.30	40.99935255	-104.55845976
18,200.00	90.05	0.08	8,147.11	9,479.68	-999.10	1,608,400.81	3,259,904.36	40.99962700	-104.55845929
18,300.00	90.05	0.08	8,147.03	9,579.68	-998.96	1,608,500.80	3,259,903.43	40.99990145	-104.55845882
18,330.95	90.05	0.08	8,147.00	9,610.63	-998.92	1,608,531.75	3,259,903.14	40.99998639	-104.55845868
PBHL/TD 18330.95 MD/8147.00 TVD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ries Fee 506-2821H PB - hit/miss target - Shape - Point	0.00	0.00	8,147.00	9,610.63	-998.92	1,608,531.76	3,259,903.14	40.99998640	-104.55845868
Ries Fee 506-2821H EP - plan hits target center - Point	0.00	0.00	8,155.00	-98.63	-1,011.86	1,598,822.93	3,259,993.69	40.97333921	-104.55850409

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
2,500.00	2,500.00	0.00	0.00	KOP Begin 2°/100' build
3,168.85	3,162.79	-46.58	-62.22	Begin 13.38° tangent
7,641.38	7,513.97	-666.66	-890.60	Begin 10°/100' build/turn
8,621.68	8,155.00	-98.63	-1,011.86	Begin 90.05° lateral
18,330.95	8,147.00	9,610.63	-998.92	PBHL/TD 18330.95 MD/8147.00 TVD