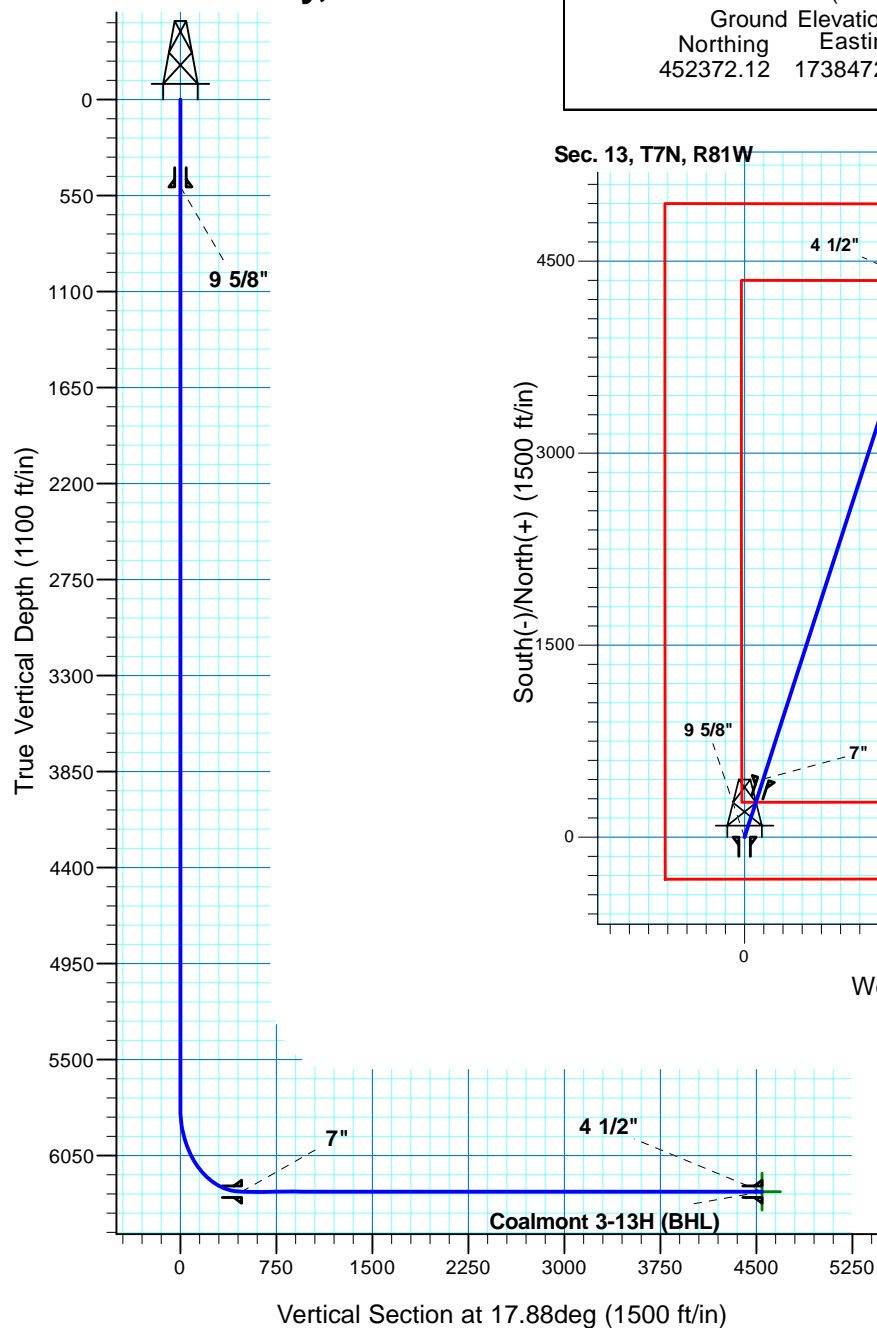
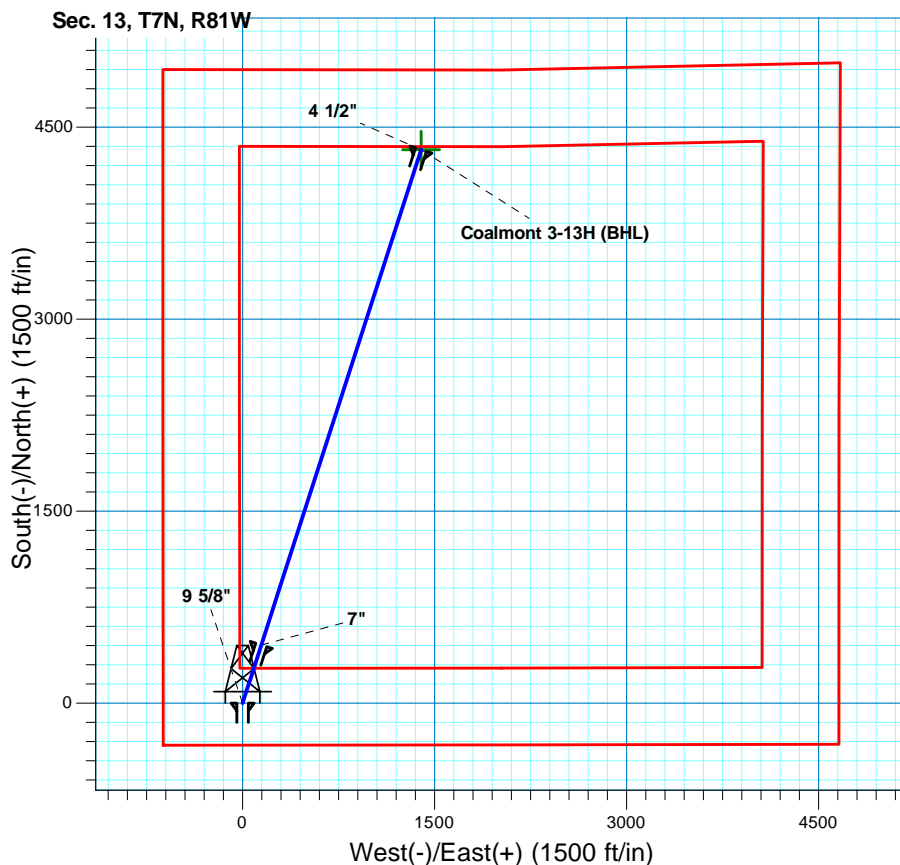


Coalmont 3-13H **Section 13 T7N R81W** **Jackson County, CO**



Surface Location				
NAD 1927 (NADCON CONUS) Colorado North 501				
Ground Elevation: 8275.00 Rig @ 8296.00ft (TBD)				
Northing	Easting	Latitude	Longitude	
452372.12	1738472.76	40° 34' 16.939 N	106° 26' 29.018 W	



T M

Azimuths to True North
Magnetic North: 9.77°

Magnetic Field
Strength: 53076.5nT
Dip Angle: 66.92°
Date: 12/29/2010
Model: IGRF200510

Project: Northpark
Site: Coalmont
Well: 3-13H
Plan: APD

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5779.53	0.00	0.00	5779.53	0.00	0.00	0.00	0.00	0.00	
3	6529.54	90.00	17.88	6257.00	454.41	146.58	12.00	17.88	477.47	
4	10595.87	90.00	17.88	6257.00	4324.38	1394.94	0.00	0.00	4543.80	Coalmont 3-13H (BHL)
TARGET DETAILS										
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape		
Coalmont 3-13H (BHL)	6257.00	4324.38	1394.94	456681.44	1739913.52	40° 34' 59.671 N	106° 26' 10.939 W	Point		



Denver Division- Colorado

**Northpark
Coalmont
3-13H
Original Wellbore**

Plan: APD

Standard Planning Report

29 December, 2010

Database:	EDM	Local Co-ordinate Reference:	Well 3-13H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 8296.00ft (TBD)
Project:	Northpark	MD Reference:	Rig @ 8296.00ft (TBD)
Site:	Coalmont	North Reference:	True
Well:	3-13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD		

Project	Northpark, Jackson County		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado North 501		

Site	Coalmont				
Site Position:		Northing:	452,212.91 ft	Latitude:	40° 34' 15.622 N
From:	Lat/Long	Easting:	1,740,922.09 ft	Longitude:	106° 25' 57.259 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-0.60 deg

Well	3-13H					
Well Position	+N-S	0.00 ft	Northing:	452,372.12 ft	Latitude:	40° 34' 16.939 N
	+E-W	0.00 ft	Easting:	1,738,472.76 ft	Longitude:	106° 26' 29.018 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	8,275.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	12/29/2010	9.77	66.92	53,076

Design	APD			
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Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (deg)
	0.00	0.00	0.00	17.88

Plan Sections										
Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)	TFO (deg)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,779.53	0.00	0.00	5,779.53	0.00	0.00	0.00	0.00	0.00	0.00	
6,529.54	90.00	17.88	6,257.00	454.41	146.58	12.00	12.00	0.00	17.88	
10,595.87	90.00	17.88	6,257.00	4,324.38	1,394.94	0.00	0.00	0.00	0.00	Coalmont 3-13H (B)

Database:	EDM	Local Co-ordinate Reference:	Well 3-13H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 8296.00ft (TBD)
Project:	Northpark	MD Reference:	Rig @ 8296.00ft (TBD)
Site:	Coalmont	North Reference:	True
Well:	3-13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	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
9 5/8"									
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
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00

Database:	EDM	Local Co-ordinate Reference:	Well 3-13H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 8296.00ft (TBD)
Project:	Northpark	MD Reference:	Rig @ 8296.00ft (TBD)
Site:	Coalmont	North Reference:	True
Well:	3-13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,779.53	0.00	0.00	5,779.53	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	2.46	17.88	5,799.99	0.42	0.13	0.44	12.00	12.00	0.00
5,900.00	14.46	17.88	5,898.73	14.39	4.64	15.12	12.00	12.00	0.00
6,000.00	26.46	17.88	5,992.25	47.59	15.35	50.00	12.00	12.00	0.00
6,100.00	38.46	17.88	6,076.48	98.57	31.80	103.57	12.00	12.00	0.00
6,200.00	50.46	17.88	6,147.72	165.10	53.26	173.48	12.00	12.00	0.00
6,300.00	62.46	17.88	6,202.88	244.28	78.80	256.67	12.00	12.00	0.00
6,400.00	74.46	17.88	6,239.54	332.64	107.30	349.51	12.00	12.00	0.00
6,500.00	86.46	17.88	6,256.09	426.32	137.52	447.95	12.00	12.00	0.00
6,529.54	90.00	17.88	6,257.00	454.41	146.58	477.47	12.00	12.00	0.00
7"									
6,600.00	90.00	17.88	6,257.00	521.47	168.21	547.93	0.00	0.00	0.00
6,700.00	90.00	17.88	6,257.00	616.64	198.91	647.93	0.00	0.00	0.00
6,800.00	90.00	17.88	6,257.00	711.81	229.61	747.93	0.00	0.00	0.00
6,900.00	90.00	17.88	6,257.00	806.98	260.31	847.93	0.00	0.00	0.00
7,000.00	90.00	17.88	6,257.00	902.15	291.01	947.93	0.00	0.00	0.00
7,100.00	90.00	17.88	6,257.00	997.33	321.71	1,047.93	0.00	0.00	0.00
7,200.00	90.00	17.88	6,257.00	1,092.50	352.41	1,147.93	0.00	0.00	0.00
7,300.00	90.00	17.88	6,257.00	1,187.67	383.11	1,247.93	0.00	0.00	0.00
7,400.00	90.00	17.88	6,257.00	1,282.84	413.81	1,347.93	0.00	0.00	0.00
7,500.00	90.00	17.88	6,257.00	1,378.01	444.51	1,447.93	0.00	0.00	0.00
7,600.00	90.00	17.88	6,257.00	1,473.18	475.21	1,547.93	0.00	0.00	0.00
7,700.00	90.00	17.88	6,257.00	1,568.35	505.91	1,647.93	0.00	0.00	0.00
7,800.00	90.00	17.88	6,257.00	1,663.52	536.61	1,747.93	0.00	0.00	0.00
7,900.00	90.00	17.88	6,257.00	1,758.69	567.31	1,847.93	0.00	0.00	0.00
8,000.00	90.00	17.88	6,257.00	1,853.86	598.01	1,947.93	0.00	0.00	0.00
8,100.00	90.00	17.88	6,257.00	1,949.04	628.71	2,047.93	0.00	0.00	0.00
8,200.00	90.00	17.88	6,257.00	2,044.21	659.41	2,147.93	0.00	0.00	0.00
8,300.00	90.00	17.88	6,257.00	2,139.38	690.11	2,247.93	0.00	0.00	0.00
8,400.00	90.00	17.88	6,257.00	2,234.55	720.81	2,347.93	0.00	0.00	0.00
8,500.00	90.00	17.88	6,257.00	2,329.72	751.51	2,447.93	0.00	0.00	0.00
8,600.00	90.00	17.88	6,257.00	2,424.89	782.21	2,547.93	0.00	0.00	0.00
8,700.00	90.00	17.88	6,257.00	2,520.06	812.91	2,647.93	0.00	0.00	0.00
8,800.00	90.00	17.88	6,257.00	2,615.23	843.61	2,747.93	0.00	0.00	0.00
8,900.00	90.00	17.88	6,257.00	2,710.40	874.31	2,847.93	0.00	0.00	0.00
9,000.00	90.00	17.88	6,257.00	2,805.57	905.01	2,947.93	0.00	0.00	0.00
9,100.00	90.00	17.88	6,257.00	2,900.75	935.71	3,047.93	0.00	0.00	0.00
9,200.00	90.00	17.88	6,257.00	2,995.92	966.41	3,147.93	0.00	0.00	0.00
9,300.00	90.00	17.88	6,257.00	3,091.09	997.11	3,247.93	0.00	0.00	0.00
9,400.00	90.00	17.88	6,257.00	3,186.26	1,027.81	3,347.93	0.00	0.00	0.00
9,500.00	90.00	17.88	6,257.00	3,281.43	1,058.51	3,447.93	0.00	0.00	0.00
9,600.00	90.00	17.88	6,257.00	3,376.60	1,089.21	3,547.93	0.00	0.00	0.00
9,700.00	90.00	17.88	6,257.00	3,471.77	1,119.91	3,647.93	0.00	0.00	0.00
9,800.00	90.00	17.88	6,257.00	3,566.94	1,150.61	3,747.93	0.00	0.00	0.00
9,900.00	90.00	17.88	6,257.00	3,662.11	1,181.31	3,847.93	0.00	0.00	0.00
10,000.00	90.00	17.88	6,257.00	3,757.28	1,212.01	3,947.93	0.00	0.00	0.00
10,100.00	90.00	17.88	6,257.00	3,852.46	1,242.71	4,047.93	0.00	0.00	0.00

Database:	EDM	Local Co-ordinate Reference:	Well 3-13H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 8296.00ft (TBD)
Project:	Northpark	MD Reference:	Rig @ 8296.00ft (TBD)
Site:	Coalmont	North Reference:	True
Well:	3-13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
10,200.00	90.00	17.88	6,257.00	3,947.63	1,273.41	4,147.93	0.00	0.00	0.00
10,300.00	90.00	17.88	6,257.00	4,042.80	1,304.11	4,247.93	0.00	0.00	0.00
10,400.00	90.00	17.88	6,257.00	4,137.97	1,334.81	4,347.93	0.00	0.00	0.00
10,500.00	90.00	17.88	6,257.00	4,233.14	1,365.51	4,447.93	0.00	0.00	0.00
10,595.87	90.00	17.88	6,257.00	4,324.38	1,394.94	4,543.80	0.00	0.00	0.00

Targets									
Target Name	Dip Angle (deg)	Dip Dir. (deg)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Coalmont 3-13H (BHL	0.00	0.00	6,257.00	4,324.38	1,394.94	456,681.44	1,739,913.52	40° 34' 59.671 N	106° 26' 10.939 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
500.00	500.00	9 5/8"	9-5/8	12-1/4	
6,529.54	6,257.00	7"	7	8-3/4	
10,595.87	6,257.00	4 1/2"	4-1/2	6-1/4	