



**Departure**  
**Energy Services (US) LP**

## **PeakView Energy Company**

**Moffat County, CO**  
**Sec 3 T6N R90W**  
**Ence 1H**

**Original Pilot Hole**

**Plan: V Plan #3 (Pilot Hole)**

## **Standard Planning Report**

**07 August, 2012**

Company Name: PeakView Energy Company

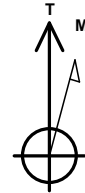
Project: Moffat County, CO  
 Site: Sec 3 T6N R90W  
 Well: Ence 1H  
 Wellbore: Original Pilot Hole  
 Design: V Plan #3 (Pilot Hole)

Ence 1H  
 North American Datum 1983  
 GRS 1980  
 Colorado Northern Zone  
 North Ref: True  
 WELL @ 6226.20ft (RKB @ 20')  
 40.500343°N  
 107.482955°W



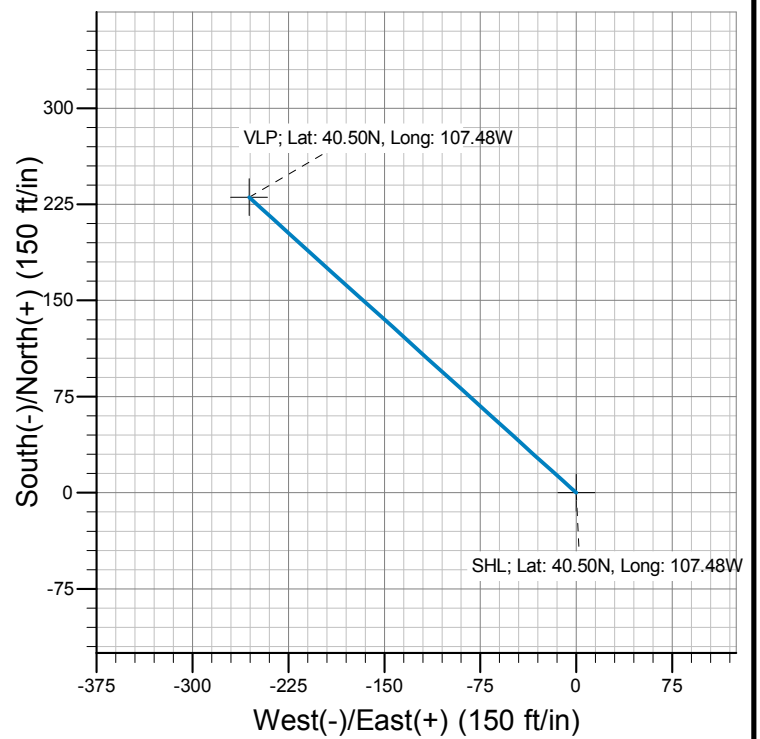
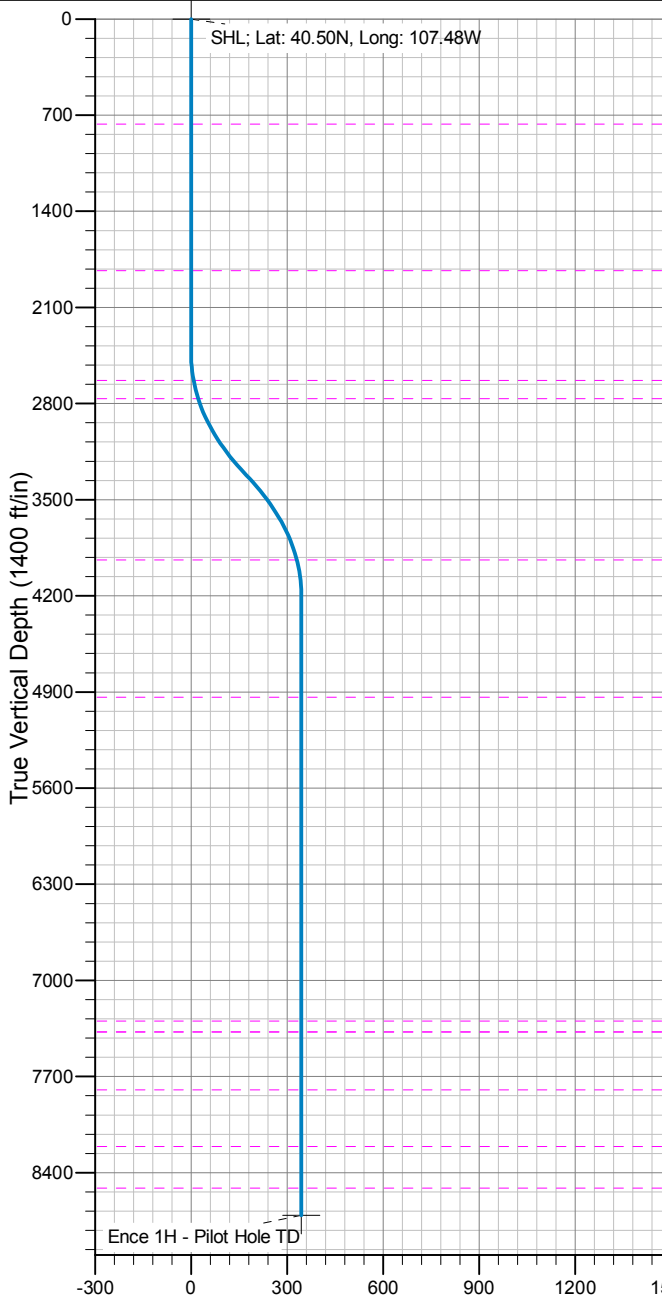
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2450.00	0.00	0.00	2450.00	0.00	0.00	0.00	0.00	0.00	
3	3344.03	22.35	312.04	3321.52	115.30	-127.87	2.50	312.04	172.18	
4	4238.05	0.00	0.00	4193.05	230.59	-255.75	2.50	180.00	344.35	
5	8757.00	0.00	0.00	8712.00	230.59	-255.75	0.00	0.00	344.35	VLP; Lat: 40.50N, Long: 107.48W



Azimuths to True North  
 Magnetic North: 10.10°

Magnetic Field  
 Strength: 52740.9snT  
 Dip Angle: 66.62°  
 Date: 7/26/2012  
 Model: IGRF2010



Mancos Marker  
 Niobrara  
 Tow Creek Bench  
 Wolf Mountain Bench  
 Codell

Vertical Section at 312.04° (600 ft/in)



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Ence 1H
<b>Company:</b>	PeakView Energy Company	<b>TVD Reference:</b>	WELL @ 6226.20ft (RKB @ 20')
<b>Project:</b>	Moffat County, CO	<b>MD Reference:</b>	WELL @ 6226.20ft (RKB @ 20')
<b>Site:</b>	Sec 3 T6N R90W	<b>North Reference:</b>	True
<b>Well:</b>	Ence 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Pilot Hole		
<b>Design:</b>	V Plan #3 (Pilot Hole)		

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

Well	Ence 1H					
Well Position	+N/-S	0.00 ft	Northing:	1,431,283.92 ft	Latitude:	40.500343°N
	+E/-W	0.00 ft	Easting:	2,448,594.70 ft	Longitude:	107.482956°W
Position Uncertainty		0.00 ft	Wellhead Elevation:	6,226.20 ft	Ground Level:	6,206.20 ft

Wellbore	Original Pilot Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/26/2012	10.10	66.62	52,741

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,450.00	0.00	0.00	2,450.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,344.03	22.35	312.04	3,321.52	115.30	-127.87	2.50	2.50	0.00	312.04	
4,238.05	0.00	0.00	4,193.05	230.59	-255.75	2.50	-2.50	0.00	180.00	
8,757.01	0.00	0.00	8,712.00	230.59	-255.75	0.00	0.00	0.00	0.00	VLP; Lat: 40.50N, Lor



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Ence 1H
<b>Company:</b>	PeakView Energy Company	<b>TVD Reference:</b>	WELL @ 6226.20ft (RKB @ 20')
<b>Project:</b>	Moffat County, CO	<b>MD Reference:</b>	WELL @ 6226.20ft (RKB @ 20')
<b>Site:</b>	Sec 3 T6N R90W	<b>North Reference:</b>	True
<b>Well:</b>	Ence 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Pilot Hole		
<b>Design:</b>	V Plan #3 (Pilot Hole)		

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
<b>SHL; Lat: 40.50N, Long: 107.48W</b>									
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
765.00	0.00	0.00	765.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Williams Fork</b>									
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
1,833.00	0.00	0.00	1,833.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Fresh Water</b>									
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
2,350.00	0.00	0.00	2,350.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>9 5/8"</b>									
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,450.00	0.00	0.00	2,450.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	1.25	312.04	2,500.00	0.37	-0.41	0.55	2.50	2.50	0.00
2,600.00	3.75	312.04	2,599.89	3.29	-3.64	4.91	2.50	2.50	0.00
2,633.20	4.58	312.04	2,633.00	4.90	-5.43	7.32	2.50	2.50	0.00
<b>Trout Creek Sand</b>									
2,700.00	6.25	312.04	2,699.50	9.12	-10.12	13.62	2.50	2.50	0.00
2,766.00	7.90	312.04	2,765.00	14.57	-16.15	21.75	2.50	2.50	0.00
<b>Iles</b>									
2,800.00	8.75	312.04	2,798.64	17.86	-19.81	26.67	2.50	2.50	0.00
2,900.00	11.25	312.04	2,897.11	29.49	-32.71	44.04	2.50	2.50	0.00
3,000.00	13.75	312.04	2,994.74	43.98	-48.78	65.68	2.50	2.50	0.00
3,100.00	16.25	312.04	3,091.32	61.31	-68.00	91.56	2.50	2.50	0.00
3,200.00	18.75	312.04	3,186.69	81.45	-90.33	121.63	2.50	2.50	0.00
3,300.00	21.25	312.04	3,280.65	104.35	-115.73	155.83	2.50	2.50	0.00
3,344.03	22.35	312.04	3,321.52	115.30	-127.87	172.18	2.50	2.50	0.00
3,400.00	20.95	312.04	3,373.55	129.13	-143.21	192.83	2.50	-2.50	0.00
3,500.00	18.45	312.04	3,467.69	151.70	-168.25	226.54	2.50	-2.50	0.00
3,600.00	15.95	312.04	3,563.21	171.50	-190.21	256.11	2.50	-2.50	0.00
3,700.00	13.45	312.04	3,659.92	188.49	-209.05	281.48	2.50	-2.50	0.00
3,800.00	10.95	312.04	3,757.66	202.64	-224.75	302.62	2.50	-2.50	0.00
3,900.00	8.45	312.04	3,856.22	213.93	-237.26	319.47	2.50	-2.50	0.00



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<b>Project:</b>	Moffat County, CO	<b>MD Reference:</b>	WELL @ 6226.20ft (RKB @ 20')
<b>Site:</b>	Sec 3 T6N R90W	<b>North Reference:</b>	True
<b>Well:</b>	Ence 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Pilot Hole		
<b>Design:</b>	V Plan #3 (Pilot Hole)		

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)
3,984.49	6.34	312.04	3,940.00	221.21	-245.34	330.34	2.50	-2.50	0.00
<b>Mancos</b>									
4,000.00	5.95	312.04	3,955.42	222.32	-246.57	332.00	2.50	-2.50	0.00
4,100.00	3.45	312.04	4,055.08	227.81	-252.66	340.20	2.50	-2.50	0.00
4,200.00	0.95	312.04	4,155.00	230.38	-255.51	344.04	2.50	-2.50	0.00
4,238.05	0.00	0.00	4,193.05	230.59	-255.75	344.35	2.50	-2.50	0.00
4,300.00	0.00	0.00	4,255.00	230.59	-255.75	344.35	0.00	0.00	0.00
4,400.00	0.00	0.00	4,355.00	230.59	-255.75	344.35	0.00	0.00	0.00
4,500.00	0.00	0.00	4,455.00	230.59	-255.75	344.35	0.00	0.00	0.00
4,600.00	0.00	0.00	4,555.00	230.59	-255.75	344.35	0.00	0.00	0.00
4,700.00	0.00	0.00	4,655.00	230.59	-255.75	344.35	0.00	0.00	0.00
4,800.00	0.00	0.00	4,755.00	230.59	-255.75	344.35	0.00	0.00	0.00
4,900.00	0.00	0.00	4,855.00	230.59	-255.75	344.35	0.00	0.00	0.00
4,983.01	0.00	0.00	4,938.00	230.59	-255.75	344.35	0.00	0.00	0.00
<b>Maraposa</b>									
5,000.00	0.00	0.00	4,955.00	230.59	-255.75	344.35	0.00	0.00	0.00
5,100.00	0.00	0.00	5,055.00	230.59	-255.75	344.35	0.00	0.00	0.00
5,200.00	0.00	0.00	5,155.00	230.59	-255.75	344.35	0.00	0.00	0.00
5,300.00	0.00	0.00	5,255.00	230.59	-255.75	344.35	0.00	0.00	0.00
5,400.00	0.00	0.00	5,355.00	230.59	-255.75	344.35	0.00	0.00	0.00
5,500.00	0.00	0.00	5,455.00	230.59	-255.75	344.35	0.00	0.00	0.00
5,600.00	0.00	0.00	5,555.00	230.59	-255.75	344.35	0.00	0.00	0.00
5,700.00	0.00	0.00	5,655.00	230.59	-255.75	344.35	0.00	0.00	0.00
5,800.00	0.00	0.00	5,755.00	230.59	-255.75	344.35	0.00	0.00	0.00
5,900.00	0.00	0.00	5,855.00	230.59	-255.75	344.35	0.00	0.00	0.00
6,000.00	0.00	0.00	5,955.00	230.59	-255.75	344.35	0.00	0.00	0.00
6,100.00	0.00	0.00	6,055.00	230.59	-255.75	344.35	0.00	0.00	0.00
6,200.00	0.00	0.00	6,155.00	230.59	-255.75	344.35	0.00	0.00	0.00
6,300.00	0.00	0.00	6,255.00	230.59	-255.75	344.35	0.00	0.00	0.00
6,400.00	0.00	0.00	6,355.00	230.59	-255.75	344.35	0.00	0.00	0.00
6,500.00	0.00	0.00	6,455.00	230.59	-255.75	344.35	0.00	0.00	0.00
6,600.00	0.00	0.00	6,555.00	230.59	-255.75	344.35	0.00	0.00	0.00
6,700.00	0.00	0.00	6,655.00	230.59	-255.75	344.35	0.00	0.00	0.00
6,800.00	0.00	0.00	6,755.00	230.59	-255.75	344.35	0.00	0.00	0.00
6,900.00	0.00	0.00	6,855.00	230.59	-255.75	344.35	0.00	0.00	0.00
7,000.00	0.00	0.00	6,955.00	230.59	-255.75	344.35	0.00	0.00	0.00
7,100.00	0.00	0.00	7,055.00	230.59	-255.75	344.35	0.00	0.00	0.00
7,200.00	0.00	0.00	7,155.00	230.59	-255.75	344.35	0.00	0.00	0.00
7,300.00	0.00	0.00	7,255.00	230.59	-255.75	344.35	0.00	0.00	0.00
7,341.01	0.00	0.00	7,296.00	230.59	-255.75	344.35	0.00	0.00	0.00
<b>Mancos Marker</b>									
7,400.00	0.00	0.00	7,355.00	230.59	-255.75	344.35	0.00	0.00	0.00
7,421.01	0.00	0.00	7,376.00	230.59	-255.75	344.35	0.00	0.00	0.00
<b>Niobrara - Buck Peak Bench</b>									
7,500.00	0.00	0.00	7,455.00	230.59	-255.75	344.35	0.00	0.00	0.00
7,600.00	0.00	0.00	7,555.00	230.59	-255.75	344.35	0.00	0.00	0.00
7,700.00	0.00	0.00	7,655.00	230.59	-255.75	344.35	0.00	0.00	0.00
7,800.00	0.00	0.00	7,755.00	230.59	-255.75	344.35	0.00	0.00	0.00
7,843.01	0.00	0.00	7,798.00	230.59	-255.75	344.35	0.00	0.00	0.00
<b>Tow Creek Bench</b>									
7,900.00	0.00	0.00	7,855.00	230.59	-255.75	344.35	0.00	0.00	0.00
8,000.00	0.00	0.00	7,955.00	230.59	-255.75	344.35	0.00	0.00	0.00
8,100.00	0.00	0.00	8,055.00	230.59	-255.75	344.35	0.00	0.00	0.00



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Ence 1H
<b>Company:</b>	PeakView Energy Company	<b>TVD Reference:</b>	WELL @ 6226.20ft (RKB @ 20')
<b>Project:</b>	Moffat County, CO	<b>MD Reference:</b>	WELL @ 6226.20ft (RKB @ 20')
<b>Site:</b>	Sec 3 T6N R90W	<b>North Reference:</b>	True
<b>Well:</b>	Ence 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Pilot Hole		
<b>Design:</b>	V Plan #3 (Pilot Hole)		

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)	
8,200.00	0.00	0.00	8,155.00	230.59	-255.75	344.35	0.00	0.00	0.00	
8,255.01	0.00	0.00	8,210.00	230.59	-255.75	344.35	0.00	0.00	0.00	
<b>Wolf Mountain Bench</b>										
8,300.00	0.00	0.00	8,255.00	230.59	-255.75	344.35	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,355.00	230.59	-255.75	344.35	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,455.00	230.59	-255.75	344.35	0.00	0.00	0.00	
8,557.01	0.00	0.00	8,512.00	230.59	-255.75	344.35	0.00	0.00	0.00	
<b>Codell</b>										
8,600.00	0.00	0.00	8,555.00	230.59	-255.75	344.35	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,655.00	230.59	-255.75	344.35	0.00	0.00	0.00	
8,757.01	0.00	0.00	8,712.00	230.59	-255.75	344.35	0.00	0.00	0.00	
<b>VLP; Lat: 40.50N, Long: 107.48W</b>										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
- hit/miss target										
- Shape										
SHL; Lat: 40.50N, Long: 40.500343°N	0.00	358.72	0.00	0.00	0.00	1,431,283.92	2,448,594.70	40.500343°N	107.482956°W	
- plan hits target center										
- Point										
VLP; Lat: 40.50N, Long: 40.500976°N	0.00	1.09	8,712.00	230.59	-255.75	1,431,520.18	2,448,344.18	40.500976°N	107.483875°W	
- plan hits target center										
- Point										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,350.00	2,350.00	9 5/8"	9.625	14.750	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
765.00	765.00	Williams Fork		0.00		
1,833.00	1,833.00	Fresh Water		0.00		
2,633.20	2,633.00	Trout Creek Sand		0.00		
2,766.00	2,765.00	Iles		0.00		
3,984.49	3,940.00	Mancos		0.00		
4,983.01	4,938.00	Maraposa		0.00		
7,341.01	7,296.00	Mancos Marker		0.00		
7,421.01	7,376.00	Niobrara		0.00		
7,421.01	7,376.00	Buck Peak Bench		0.00		
7,843.01	7,798.00	Tow Creek Bench		0.00		
8,255.01	8,210.00	Wolf Mountain Bench		0.00		
8,557.01	8,512.00	Codell		0.00		



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Ence 1H
<b>Company:</b>	PeakView Energy Company	<b>TVD Reference:</b>	WELL @ 6226.20ft (RKB @ 20')
<b>Project:</b>	Moffat County, CO	<b>MD Reference:</b>	WELL @ 6226.20ft (RKB @ 20')
<b>Site:</b>	Sec 3 T6N R90W	<b>North Reference:</b>	True
<b>Well:</b>	Ence 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Pilot Hole		
<b>Design:</b>	V Plan #3 (Pilot Hole)		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
2,450.00	2,450.00	0.00	0.00	Start Build 2.50	
3,344.05	3,321.55	115.30	-127.88	Start Drop -2.50	
4,238.10	4,193.10	230.59	-255.75	Start 4518.90 hold at 4238.10 MD	
8,756.98	8,711.98	230.59	-255.75	TD at 8757.01	