

WELL DETAILS: PENNINGTON 27C-2HZ

GL 4860' & KB 17' @ 4877.00ft (ASSUMED)

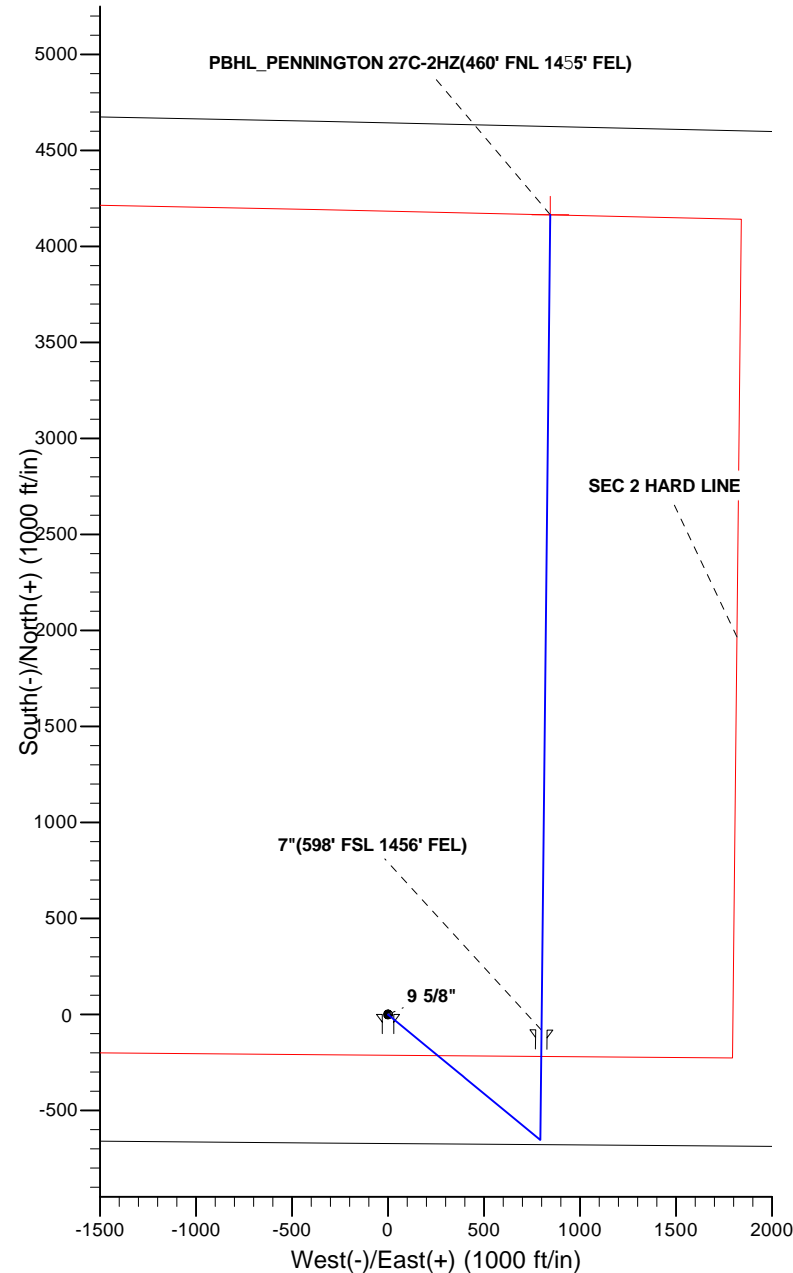
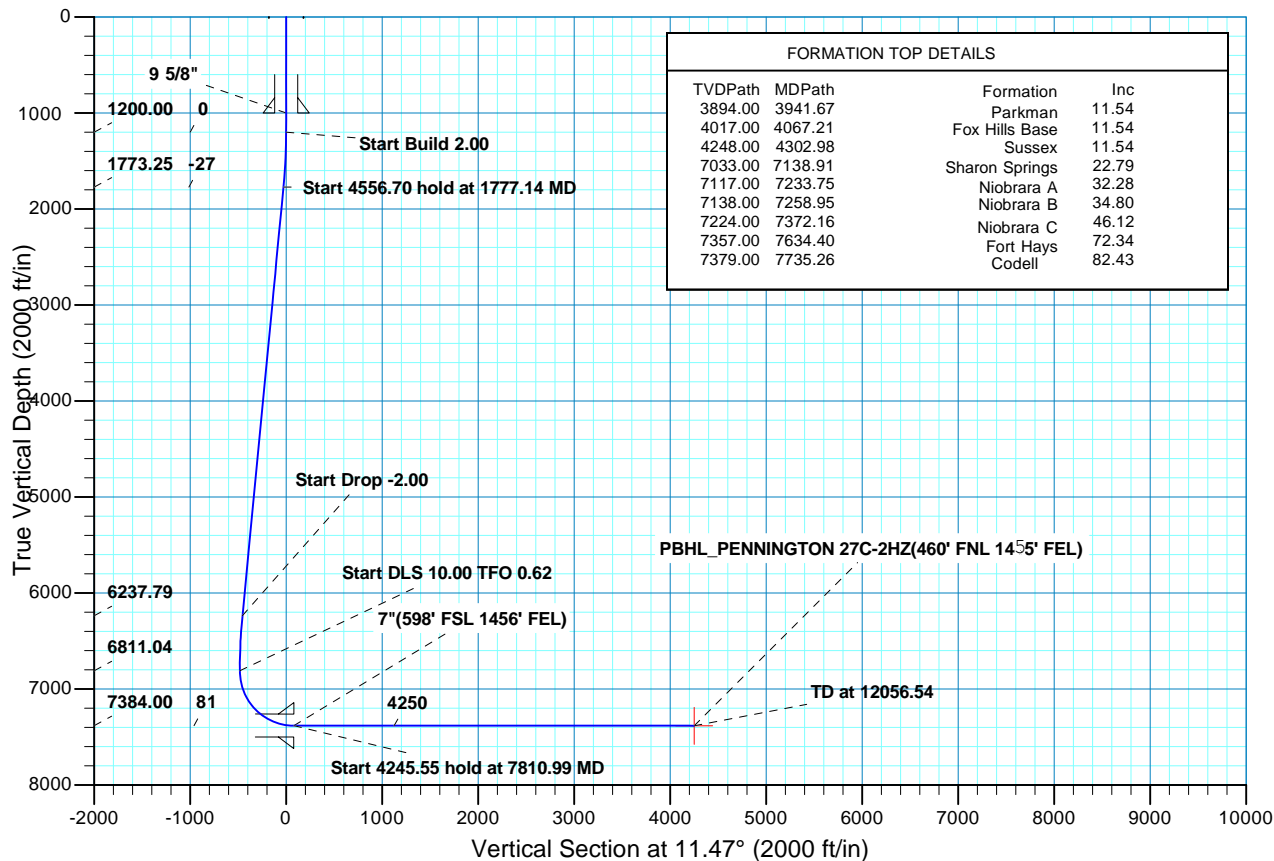
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1302373.15	3179849.74	40.1616180	-104.8565010

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	
1777.14	11.54	129.45	1773.25	-36.82	44.74	2.00	129.45	-27.18	
6333.85	11.54	129.45	6237.79	-616.18	748.81	0.00	0.00	-454.94	
6910.99	0.00	0.00	6811.04	-653.00	793.55	2.00	180.00	-482.12	
7810.99	90.00	0.62	7384.00	-80.08	799.71	10.00	0.62	80.58	
12056.54	90.00	0.62	7384.00	4165.23	845.32	0.00	0.00	4250.14	PBHL_PENNINGTON 27C-2HZ(460' FNL 1445' FEL)

CASING DETAILS

TVD	MD	Name	Size
1000.00	1000.00	9 5/8"	9.625
7384.00	7810.99	7"	7.000





Scientific Drilling

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

PENNINGTON 15-2HZ

PENNINGTON 27C-2HZ

OH

Plan: PLAN #2 PRELIMINARY

Standard Planning Report

30 May, 2013

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well PENNINGTON 27C-2HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4860' & KB 17' @ 4877.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4860' & KB 17' @ 4877.00ft (ASSUMED)
Site:	PENNINGTON 15-2HZ	North Reference:	True
Well:	PENNINGTON 27C-2HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Project	COLORADO NORTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	PENNINGTON 15-2HZ, SECTION 2 T2N R67W			
Site Position:		Northing:	1,302,373.31 usft	Latitude: 40.1616190
From:	Lat/Long	Easting:	3,179,819.83 usft	Longitude: -104.8566080
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.42 °

Well	PENNINGTON 27C-2HZ, 672' FSL 2257' FEL			
Well Position	+N/-S	-0.38 ft	Northing:	1,302,373.15 usft
	+E/-W	29.91 ft	Easting:	3,179,849.74 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Ground Level: 4,860.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	2013/05/28	8.68	66.75	52,690

Design	PLAN #2 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	11.47

Plan Sections										
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	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,777.14	11.54	129.45	1,773.25	-36.82	44.74	2.00	2.00	0.00	129.45	
6,333.85	11.54	129.45	6,237.79	-616.18	748.81	0.00	0.00	0.00	0.00	
6,910.99	0.00	0.00	6,811.04	-653.00	793.55	2.00	-2.00	0.00	180.00	
7,810.99	90.00	0.62	7,384.00	-80.08	799.71	10.00	10.00	0.07	0.62	
12,056.54	90.00	0.62	7,384.00	4,165.23	845.32	0.00	0.00	0.00	0.00	PBHL_PENNINGTON

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well PENNINGTON 27C-2HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4860' & KB 17' @ 4877.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4860' & KB 17' @ 4877.00ft (ASSUMED)
Site:	PENNINGTON 15-2HZ	North Reference:	True
Well:	PENNINGTON 27C-2HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

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
9 5/8"									
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
Start Build 2.00									
1,300.00	2.00	129.45	1,299.98	-1.11	1.35	-0.82	2.00	2.00	0.00
1,400.00	4.00	129.45	1,399.84	-4.43	5.39	-3.27	2.00	2.00	0.00
1,500.00	6.00	129.45	1,499.45	-9.97	12.12	-7.36	2.00	2.00	0.00
1,600.00	8.00	129.45	1,598.70	-17.72	21.53	-13.08	2.00	2.00	0.00
1,700.00	10.00	129.45	1,697.47	-27.65	33.61	-20.42	2.00	2.00	0.00
1,777.14	11.54	129.45	1,773.25	-36.82	44.74	-27.18	2.00	2.00	0.00
Start 4556.70 hold at 1777.14 MD									
1,800.00	11.54	129.45	1,795.64	-39.72	48.27	-29.33	0.00	0.00	0.00
1,900.00	11.54	129.45	1,893.62	-52.44	63.72	-38.71	0.00	0.00	0.00
2,000.00	11.54	129.45	1,991.60	-65.15	79.17	-48.10	0.00	0.00	0.00
2,100.00	11.54	129.45	2,089.57	-77.87	94.63	-57.49	0.00	0.00	0.00
2,200.00	11.54	129.45	2,187.55	-90.58	110.08	-66.88	0.00	0.00	0.00
2,300.00	11.54	129.45	2,285.53	-103.29	125.53	-76.26	0.00	0.00	0.00
2,400.00	11.54	129.45	2,383.51	-116.01	140.98	-85.65	0.00	0.00	0.00
2,500.00	11.54	129.45	2,481.48	-128.72	156.43	-95.04	0.00	0.00	0.00
2,600.00	11.54	129.45	2,579.46	-141.44	171.88	-104.43	0.00	0.00	0.00
2,700.00	11.54	129.45	2,677.44	-154.15	187.33	-113.81	0.00	0.00	0.00
2,800.00	11.54	129.45	2,775.42	-166.87	202.78	-123.20	0.00	0.00	0.00
2,900.00	11.54	129.45	2,873.39	-179.58	218.24	-132.59	0.00	0.00	0.00
3,000.00	11.54	129.45	2,971.37	-192.30	233.69	-141.98	0.00	0.00	0.00
3,100.00	11.54	129.45	3,069.35	-205.01	249.14	-151.36	0.00	0.00	0.00
3,200.00	11.54	129.45	3,167.33	-217.73	264.59	-160.75	0.00	0.00	0.00
3,300.00	11.54	129.45	3,265.30	-230.44	280.04	-170.14	0.00	0.00	0.00
3,400.00	11.54	129.45	3,363.28	-243.16	295.49	-179.53	0.00	0.00	0.00
3,500.00	11.54	129.45	3,461.26	-255.87	310.94	-188.91	0.00	0.00	0.00
3,600.00	11.54	129.45	3,559.24	-268.59	326.39	-198.30	0.00	0.00	0.00
3,700.00	11.54	129.45	3,657.21	-281.30	341.85	-207.69	0.00	0.00	0.00
3,800.00	11.54	129.45	3,755.19	-294.01	357.30	-217.08	0.00	0.00	0.00
3,900.00	11.54	129.45	3,853.17	-306.73	372.75	-226.46	0.00	0.00	0.00
3,941.67	11.54	129.45	3,894.00	-312.03	379.19	-230.38	0.00	0.00	0.00
Parkman									
4,000.00	11.54	129.45	3,951.15	-319.44	388.20	-235.85	0.00	0.00	0.00
4,067.21	11.54	129.45	4,017.00	-327.99	398.59	-242.16	0.00	0.00	0.00
Fox Hills Base									
4,100.00	11.54	129.45	4,049.12	-332.16	403.65	-245.24	0.00	0.00	0.00
4,200.00	11.54	129.45	4,147.10	-344.87	419.10	-254.63	0.00	0.00	0.00
4,300.00	11.54	129.45	4,245.08	-357.59	434.55	-264.01	0.00	0.00	0.00
4,302.98	11.54	129.45	4,248.00	-357.97	435.01	-264.29	0.00	0.00	0.00

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Well:	PENNINGTON 27C-2HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

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)
Sussex									
4,400.00	11.54	129.45	4,343.06	-370.30	450.01	-273.40	0.00	0.00	0.00
4,500.00	11.54	129.45	4,441.03	-383.02	465.46	-282.79	0.00	0.00	0.00
4,600.00	11.54	129.45	4,539.01	-395.73	480.91	-292.18	0.00	0.00	0.00
4,700.00	11.54	129.45	4,636.99	-408.45	496.36	-301.56	0.00	0.00	0.00
4,800.00	11.54	129.45	4,734.97	-421.16	511.81	-310.95	0.00	0.00	0.00
4,900.00	11.54	129.45	4,832.94	-433.88	527.26	-320.34	0.00	0.00	0.00
5,000.00	11.54	129.45	4,930.92	-446.59	542.71	-329.73	0.00	0.00	0.00
5,100.00	11.54	129.45	5,028.90	-459.31	558.16	-339.11	0.00	0.00	0.00
5,200.00	11.54	129.45	5,126.88	-472.02	573.62	-348.50	0.00	0.00	0.00
5,300.00	11.54	129.45	5,224.85	-484.73	589.07	-357.89	0.00	0.00	0.00
5,400.00	11.54	129.45	5,322.83	-497.45	604.52	-367.28	0.00	0.00	0.00
5,500.00	11.54	129.45	5,420.81	-510.16	619.97	-376.66	0.00	0.00	0.00
5,600.00	11.54	129.45	5,518.79	-522.88	635.42	-386.05	0.00	0.00	0.00
5,700.00	11.54	129.45	5,616.76	-535.59	650.87	-395.44	0.00	0.00	0.00
5,800.00	11.54	129.45	5,714.74	-548.31	666.32	-404.83	0.00	0.00	0.00
5,900.00	11.54	129.45	5,812.72	-561.02	681.78	-414.21	0.00	0.00	0.00
6,000.00	11.54	129.45	5,910.70	-573.74	697.23	-423.60	0.00	0.00	0.00
6,100.00	11.54	129.45	6,008.68	-586.45	712.68	-432.99	0.00	0.00	0.00
6,200.00	11.54	129.45	6,106.65	-599.17	728.13	-442.38	0.00	0.00	0.00
6,300.00	11.54	129.45	6,204.63	-611.88	743.58	-451.76	0.00	0.00	0.00
6,333.85	11.54	129.45	6,237.79	-616.18	748.81	-454.94	0.00	0.00	0.00
Start Drop -2.00									
6,400.00	10.22	129.45	6,302.75	-624.12	758.45	-460.80	2.00	-2.00	0.00
6,500.00	8.22	129.45	6,401.46	-634.30	770.82	-468.32	2.00	-2.00	0.00
6,600.00	6.22	129.45	6,500.66	-642.28	780.53	-474.21	2.00	-2.00	0.00
6,700.00	4.22	129.45	6,600.24	-648.07	787.55	-478.48	2.00	-2.00	0.00
6,800.00	2.22	129.45	6,700.08	-651.63	791.89	-481.12	2.00	-2.00	0.00
6,900.00	0.22	129.45	6,800.05	-652.99	793.53	-482.11	2.00	-2.00	0.00
6,910.99	0.00	0.00	6,811.04	-653.00	793.55	-482.12	2.00	-2.00	0.00
Start DLS 10.00 TFO 0.62									
7,000.00	8.90	0.62	6,899.69	-646.10	793.62	-475.35	10.00	10.00	0.00
7,100.00	18.90	0.62	6,996.64	-622.11	793.88	-451.78	10.00	10.00	0.00
7,138.91	22.79	0.62	7,033.00	-608.26	794.03	-438.18	10.00	10.00	0.00
Sharon Springs									
7,200.00	28.90	0.62	7,087.95	-581.65	794.32	-412.04	10.00	10.00	0.00
7,233.75	32.28	0.62	7,117.00	-564.47	794.50	-395.18	10.00	10.00	0.00
Niobrara A									
7,258.95	34.80	0.62	7,138.00	-550.56	794.65	-381.51	10.00	10.00	0.00
Niobrara B									
7,300.00	38.90	0.62	7,170.84	-525.94	794.92	-357.33	10.00	10.00	0.00
7,372.16	46.12	0.62	7,224.00	-477.22	795.44	-309.48	10.00	10.00	0.00
Niobrara C									
7,400.00	48.90	0.62	7,242.81	-456.69	795.66	-289.32	10.00	10.00	0.00
7,500.00	58.90	0.62	7,301.65	-376.00	796.53	-210.07	10.00	10.00	0.00
7,600.00	68.90	0.62	7,345.59	-286.32	797.49	-121.98	10.00	10.00	0.00
7,634.40	72.34	0.62	7,357.00	-253.87	797.84	-90.12	10.00	10.00	0.00
Fort Hays									
7,700.00	78.90	0.62	7,373.28	-190.37	798.52	-27.74	10.00	10.00	0.00
7,735.26	82.43	0.62	7,379.00	-155.58	798.89	6.42	10.00	10.00	0.00
Codell									
7,800.00	88.90	0.62	7,383.89	-91.06	799.59	69.79	10.00	10.00	0.00
7,810.99	90.00	0.62	7,384.00	-80.08	799.71	80.58	10.00	10.00	0.00

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Well:	PENNINGTON 27C-2HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

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)
Start 4245.55 hold at 7810.99 MD - 7"(598' FSL 1456' FEL)									
7,900.00	90.00	0.62	7,384.00	8.93	800.66	168.00	0.00	0.00	0.00
8,000.00	90.00	0.62	7,384.00	108.92	801.74	266.21	0.00	0.00	0.00
8,100.00	90.00	0.62	7,384.00	208.92	802.81	364.42	0.00	0.00	0.00
8,200.00	90.00	0.62	7,384.00	308.91	803.88	462.63	0.00	0.00	0.00
8,300.00	90.00	0.62	7,384.00	408.91	804.96	560.84	0.00	0.00	0.00
8,400.00	90.00	0.62	7,384.00	508.90	806.03	659.05	0.00	0.00	0.00
8,500.00	90.00	0.62	7,384.00	608.89	807.11	757.26	0.00	0.00	0.00
8,600.00	90.00	0.62	7,384.00	708.89	808.18	855.47	0.00	0.00	0.00
8,700.00	90.00	0.62	7,384.00	808.88	809.26	953.68	0.00	0.00	0.00
8,800.00	90.00	0.62	7,384.00	908.88	810.33	1,051.89	0.00	0.00	0.00
8,900.00	90.00	0.62	7,384.00	1,008.87	811.40	1,150.10	0.00	0.00	0.00
9,000.00	90.00	0.62	7,384.00	1,108.87	812.48	1,248.31	0.00	0.00	0.00
9,100.00	90.00	0.62	7,384.00	1,208.86	813.55	1,346.52	0.00	0.00	0.00
9,200.00	90.00	0.62	7,384.00	1,308.85	814.63	1,444.73	0.00	0.00	0.00
9,300.00	90.00	0.62	7,384.00	1,408.85	815.70	1,542.94	0.00	0.00	0.00
9,400.00	90.00	0.62	7,384.00	1,508.84	816.78	1,641.15	0.00	0.00	0.00
9,500.00	90.00	0.62	7,384.00	1,608.84	817.85	1,739.36	0.00	0.00	0.00
9,600.00	90.00	0.62	7,384.00	1,708.83	818.92	1,837.57	0.00	0.00	0.00
9,700.00	90.00	0.62	7,384.00	1,808.83	820.00	1,935.78	0.00	0.00	0.00
9,800.00	90.00	0.62	7,384.00	1,908.82	821.07	2,033.99	0.00	0.00	0.00
9,900.00	90.00	0.62	7,384.00	2,008.81	822.15	2,132.20	0.00	0.00	0.00
10,000.00	90.00	0.62	7,384.00	2,108.81	823.22	2,230.41	0.00	0.00	0.00
10,100.00	90.00	0.62	7,384.00	2,208.80	824.30	2,328.62	0.00	0.00	0.00
10,200.00	90.00	0.62	7,384.00	2,308.80	825.37	2,426.83	0.00	0.00	0.00
10,300.00	90.00	0.62	7,384.00	2,408.79	826.45	2,525.04	0.00	0.00	0.00
10,400.00	90.00	0.62	7,384.00	2,508.78	827.52	2,623.25	0.00	0.00	0.00
10,500.00	90.00	0.62	7,384.00	2,608.78	828.59	2,721.46	0.00	0.00	0.00
10,600.00	90.00	0.62	7,384.00	2,708.77	829.67	2,819.67	0.00	0.00	0.00
10,700.00	90.00	0.62	7,384.00	2,808.77	830.74	2,917.88	0.00	0.00	0.00
10,800.00	90.00	0.62	7,384.00	2,908.76	831.82	3,016.09	0.00	0.00	0.00
10,900.00	90.00	0.62	7,384.00	3,008.76	832.89	3,114.30	0.00	0.00	0.00
11,000.00	90.00	0.62	7,384.00	3,108.75	833.97	3,212.51	0.00	0.00	0.00
11,100.00	90.00	0.62	7,384.00	3,208.74	835.04	3,310.72	0.00	0.00	0.00
11,200.00	90.00	0.62	7,384.00	3,308.74	836.11	3,408.93	0.00	0.00	0.00
11,300.00	90.00	0.62	7,384.00	3,408.73	837.19	3,507.14	0.00	0.00	0.00
11,400.00	90.00	0.62	7,384.00	3,508.73	838.26	3,605.35	0.00	0.00	0.00
11,500.00	90.00	0.62	7,384.00	3,608.72	839.34	3,703.56	0.00	0.00	0.00
11,600.00	90.00	0.62	7,384.00	3,708.72	840.41	3,801.77	0.00	0.00	0.00
11,700.00	90.00	0.62	7,384.00	3,808.71	841.49	3,899.98	0.00	0.00	0.00
11,800.00	90.00	0.62	7,384.00	3,908.70	842.56	3,998.19	0.00	0.00	0.00
11,900.00	90.00	0.62	7,384.00	4,008.70	843.63	4,096.40	0.00	0.00	0.00
12,000.00	90.00	0.62	7,384.00	4,108.69	844.71	4,194.61	0.00	0.00	0.00
12,056.54	90.00	0.62	7,384.00	4,165.23	845.32	4,250.14	0.00	0.00	0.00
TD at 12056.54 - PBHL_PENNINGTON 27C-2HZ(460' FNL 1445' FEL)									

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well PENNINGTON 27C-2HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4860' & KB 17' @ 4877.00ft (ASSUMED)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL 4860' & KB 17' @ 4877.00ft (ASSUMED)
Site:	PENNINGTON 15-2HZ	North Reference:	True
Well:	PENNINGTON 27C-2HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_PENNINGTON 2	0.00	0.00	7,384.00	4,165.23	845.32	1,306,544.39	3,180,664.81	40.1730520	-104.8534760
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,000.00	1,000.00	9 5/8"	9.625	12.250	
7,810.99	7,384.00	7"(598' FSL 1456' FEL)	7.000	7.500	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,941.67	3,894.00	Parkman				
4,067.21	4,017.00	Fox Hills Base				
4,302.98	4,248.00	Sussex				
7,138.91	7,033.00	Sharon Springs				
7,233.75	7,117.00	Niobrara A				
7,258.95	7,138.00	Niobrara B				
7,372.16	7,224.00	Niobrara C				
7,634.40	7,357.00	Fort Hays				
7,735.26	7,379.00	Codell				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,200.00	1,200.00	0.00	0.00	Start Build 2.00
1,777.14	1,773.25	-36.82	44.74	Start 4556.70 hold at 1777.14 MD
6,333.85	6,237.79	-616.18	748.81	Start Drop -2.00
6,910.99	6,811.04	-653.00	793.55	Start DLS 10.00 TFO 0.62
7,810.99	7,384.00	-80.08	799.71	Start 4245.55 hold at 7810.99 MD
12,056.54	7,384.00	4,165.23	845.32	TD at 12056.54