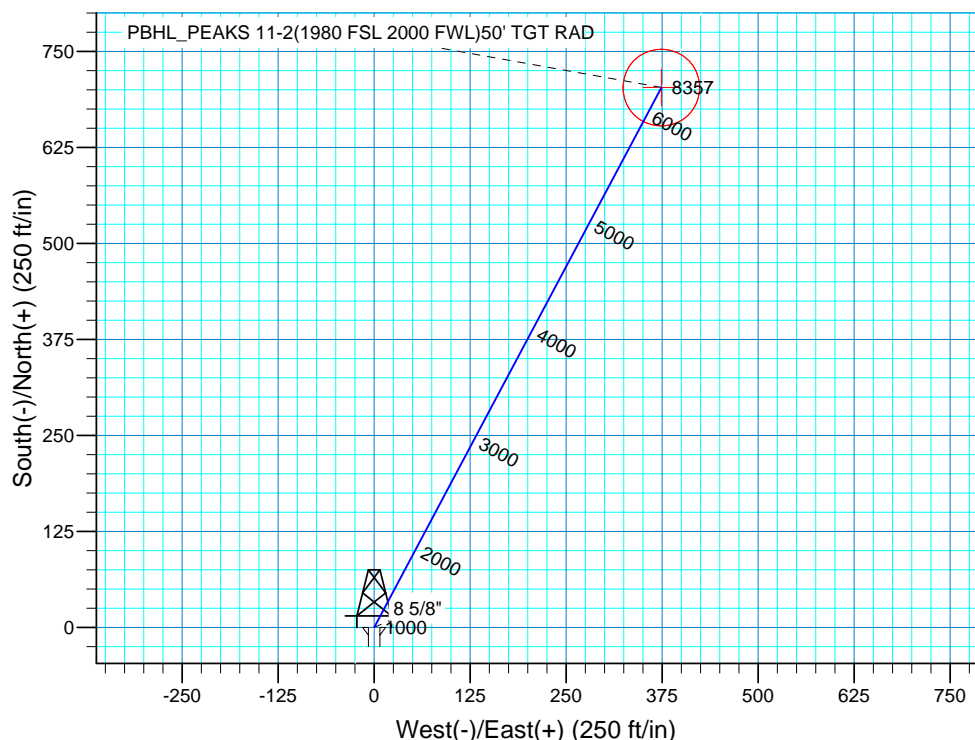
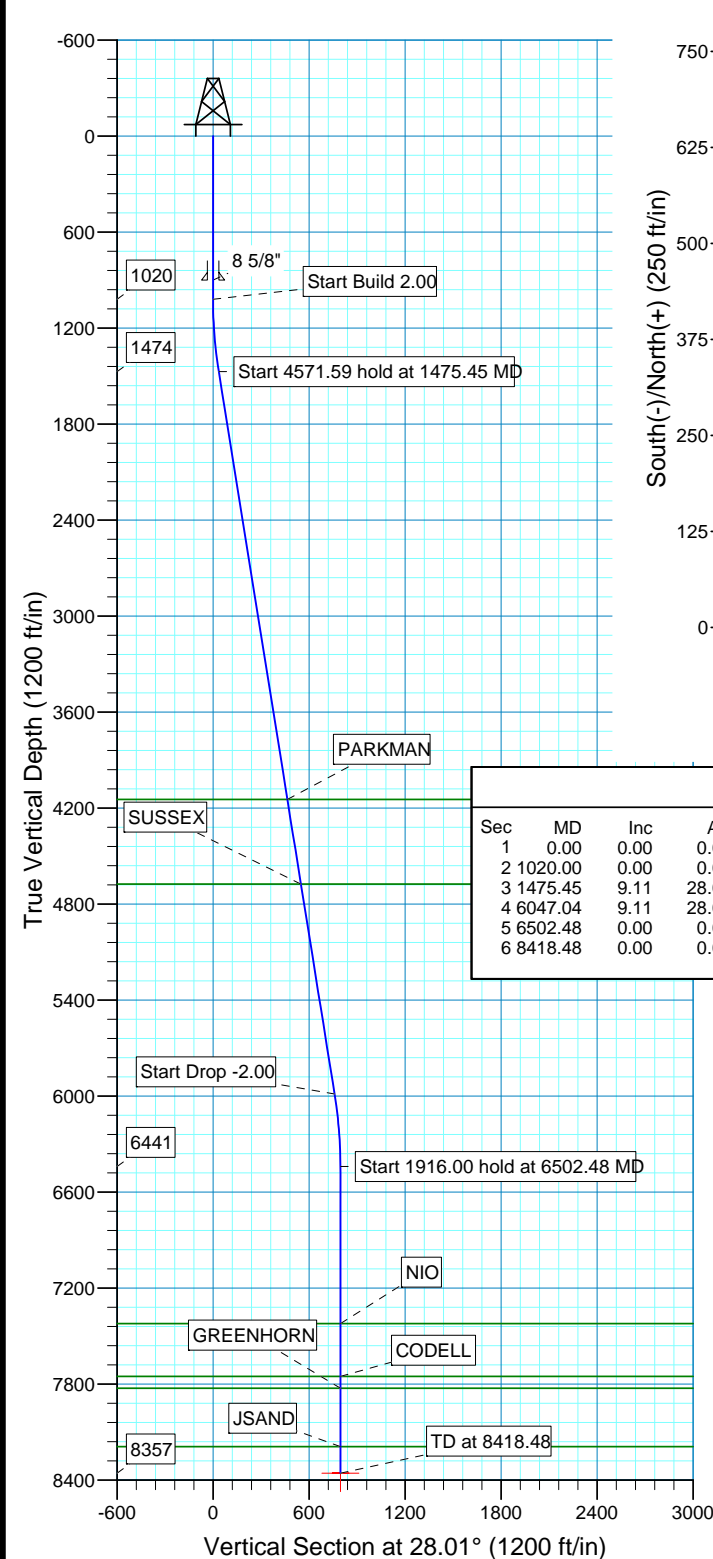
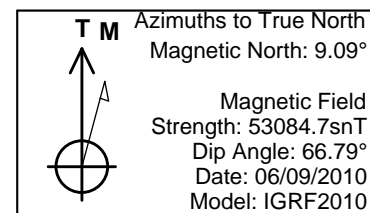


WELL DETAILS: P_PEAKS 11-2								
+N/-S	+E/-W	Northing	Easting	KB @ 5046.00ft	5031.00	Latitude	Longitude	
0.00	0.00	1271180.06	3147154.18		40° 4' 35.695 N	104° 58' 26.918 W		
WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8357.00	702.76	373.81	1271885.02	3147523.824	40° 4' 42.640 N	104° 58' 22.109 W	Circle (Radius: 50.00)



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	1020.00	0.00	0.00	1020.00	0.00	0.00	0.00	0.00	0.00	
3	1475.45	9.11	28.01	1473.53	31.90	16.97	2.00	28.01	36.13	
4	6047.04	9.11	28.01	5987.47	670.86	356.84	0.00	0.00	759.86	
5	6502.48	0.00	0.00	6441.00	702.76	373.81	2.00	180.00	795.99	
6	8418.48	0.00	0.00	8357.00	702.76	373.81	0.00	0.00	795.99	PBHL_PEAKS 11-2(1980 FSL 2000 FWL)50' TGT RAD

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4146.00	4182.05	PARKMAN
4676.00	4718.82	SUSSEX
7422.00	7483.48	NIO
7752.00	7813.48	CODELL
7827.00	7888.48	GREENHORN
8192.00	8253.48	JSAND

PROJECT DETAILS: COLORADO NORTHERN ZONE - 83

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
Location: SECTION 2 T1N R68W  
System Datum: Mean Sea Level  
Local North: True

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_PEAKS 14-2 PAD**

**P\_PEAKS 11-2**

**P\_PEAKS 11-2**

**Plan: PLAN #1 7-22-10 RHS**

## **Standard Planning Report**

**25 July, 2010**

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_PEAKS 11-2
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	KB @ 5046.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	KB @ 5046.00ft
<b>Site:</b>	WELD_PEAKS 14-2 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_PEAKS 11-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_PEAKS 11-2		
<b>Design:</b>	PLAN #1 7-22-10 RHS		

<b>Project</b>	COLORADO NORTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP		
<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		WELD_PEAKS 14-2 PAD, SECTION 2 T1N R68W			
Site Position:		Northing:	1,271,180.07 ft	Latitude:	40° 4' 35.695 N
From:	Lat/Long	Easting:	3,147,154.18 ft	Longitude:	104° 58' 26.918 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.34 °

Well	P_PEAKS 11-2, 1280 FSL 1629 FWL					
Well Position	+N-S	0.00 ft	Northing:	1,271,180.06 ft	Latitude:	40° 4' 35.695 N
	+E-W	0.00 ft	Easting:	3,147,154.18 ft	Longitude:	104° 58' 26.918 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,031.00 ft

<b>Wellbore</b>	P_PEAKS 11-2				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	06/09/2010	9.09	66.79	53,085

<b>Design</b>	PLAN #1 7-22-10 RHS				
<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	28.01	

<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	
1,020.00	0.00	0.00	1,020.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,475.45	9.11	28.01	1,473.53	31.90	16.97	2.00	2.00	0.00	28.01	
6,047.04	9.11	28.01	5,987.47	670.86	356.84	0.00	0.00	0.00	0.00	
6,502.48	0.00	0.00	6,441.00	702.76	373.81	2.00	-2.00	0.00	180.00	
8,418.48	0.00	0.00	8,357.00	702.76	373.81	0.00	0.00	0.00	0.00	PBHL_PEAKS 11-2

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_PEAKS 11-2
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	KB @ 5046.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	KB @ 5046.00ft
<b>Site:</b>	WELD_PEAKS 14-2 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_PEAKS 11-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_PEAKS 11-2		
<b>Design:</b>	PLAN #1 7-22-10 RHS		

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
<b>8 5/8"</b>									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,020.00	0.00	0.00	1,020.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
1,100.00	1.60	28.01	1,099.99	0.99	0.52	1.12	2.00	2.00	0.00
1,200.00	3.60	28.01	1,199.88	4.99	2.65	5.65	2.00	2.00	0.00
1,300.00	5.60	28.01	1,299.55	12.07	6.42	13.67	2.00	2.00	0.00
1,400.00	7.60	28.01	1,398.89	22.22	11.82	25.17	2.00	2.00	0.00
1,475.45	9.11	28.01	1,473.53	31.90	16.97	36.13	2.00	2.00	0.00
<b>Start 4571.59 hold at 1475.45 MD</b>									
1,500.00	9.11	28.01	1,497.77	35.33	18.79	40.01	0.00	0.00	0.00
1,600.00	9.11	28.01	1,596.51	49.30	26.23	55.85	0.00	0.00	0.00
1,700.00	9.11	28.01	1,695.25	63.28	33.66	71.68	0.00	0.00	0.00
1,800.00	9.11	28.01	1,793.99	77.26	41.09	87.51	0.00	0.00	0.00
1,900.00	9.11	28.01	1,892.73	91.24	48.53	103.34	0.00	0.00	0.00
2,000.00	9.11	28.01	1,991.47	105.21	55.96	119.17	0.00	0.00	0.00
2,100.00	9.11	28.01	2,090.21	119.19	63.40	135.00	0.00	0.00	0.00
2,200.00	9.11	28.01	2,188.95	133.17	70.83	150.83	0.00	0.00	0.00
2,300.00	9.11	28.01	2,287.69	147.14	78.27	166.66	0.00	0.00	0.00
2,400.00	9.11	28.01	2,386.42	161.12	85.70	182.50	0.00	0.00	0.00
2,500.00	9.11	28.01	2,485.16	175.10	93.14	198.33	0.00	0.00	0.00
2,600.00	9.11	28.01	2,583.90	189.07	100.57	214.16	0.00	0.00	0.00
2,700.00	9.11	28.01	2,682.64	203.05	108.01	229.99	0.00	0.00	0.00
2,800.00	9.11	28.01	2,781.38	217.03	115.44	245.82	0.00	0.00	0.00
2,900.00	9.11	28.01	2,880.12	231.00	122.87	261.65	0.00	0.00	0.00
3,000.00	9.11	28.01	2,978.86	244.98	130.31	277.48	0.00	0.00	0.00
3,100.00	9.11	28.01	3,077.60	258.96	137.74	293.31	0.00	0.00	0.00
3,200.00	9.11	28.01	3,176.34	272.94	145.18	309.14	0.00	0.00	0.00
3,300.00	9.11	28.01	3,275.07	286.91	152.61	324.98	0.00	0.00	0.00
3,400.00	9.11	28.01	3,373.81	300.89	160.05	340.81	0.00	0.00	0.00
3,500.00	9.11	28.01	3,472.55	314.87	167.48	356.64	0.00	0.00	0.00
3,600.00	9.11	28.01	3,571.29	328.84	174.92	372.47	0.00	0.00	0.00
3,700.00	9.11	28.01	3,670.03	342.82	182.35	388.30	0.00	0.00	0.00
3,800.00	9.11	28.01	3,768.77	356.80	189.79	404.13	0.00	0.00	0.00
3,900.00	9.11	28.01	3,867.51	370.77	197.22	419.96	0.00	0.00	0.00
4,000.00	9.11	28.01	3,966.25	384.75	204.65	435.79	0.00	0.00	0.00
4,100.00	9.11	28.01	4,064.99	398.73	212.09	451.63	0.00	0.00	0.00
4,182.05	9.11	28.01	4,146.00	410.20	218.19	464.61	0.00	0.00	0.00
<b>PARKMAN</b>									
4,200.00	9.11	28.01	4,163.72	412.70	219.52	467.46	0.00	0.00	0.00
4,300.00	9.11	28.01	4,262.46	426.68	226.96	483.29	0.00	0.00	0.00
4,400.00	9.11	28.01	4,361.20	440.66	234.39	499.12	0.00	0.00	0.00
4,500.00	9.11	28.01	4,459.94	454.64	241.83	514.95	0.00	0.00	0.00

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_PEAKS 11-2
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	KB @ 5046.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	KB @ 5046.00ft
<b>Site:</b>	WELD_PEAKS 14-2 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_PEAKS 11-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_PEAKS 11-2		
<b>Design:</b>	PLAN #1 7-22-10 RHS		

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)
4,600.00	9.11	28.01	4,558.68	468.61	249.26	530.78	0.00	0.00	0.00
4,700.00	9.11	28.01	4,657.42	482.59	256.70	546.61	0.00	0.00	0.00
4,718.82	9.11	28.01	4,676.00	485.22	258.10	549.59	0.00	0.00	0.00
<b>SUSSEX</b>									
4,800.00	9.11	28.01	4,756.16	496.57	264.13	562.44	0.00	0.00	0.00
4,900.00	9.11	28.01	4,854.90	510.54	271.57	578.28	0.00	0.00	0.00
5,000.00	9.11	28.01	4,953.64	524.52	279.00	594.11	0.00	0.00	0.00
5,100.00	9.11	28.01	5,052.38	538.50	286.43	609.94	0.00	0.00	0.00
5,200.00	9.11	28.01	5,151.11	552.47	293.87	625.77	0.00	0.00	0.00
5,300.00	9.11	28.01	5,249.85	566.45	301.30	641.60	0.00	0.00	0.00
5,400.00	9.11	28.01	5,348.59	580.43	308.74	657.43	0.00	0.00	0.00
5,500.00	9.11	28.01	5,447.33	594.40	316.17	673.26	0.00	0.00	0.00
5,600.00	9.11	28.01	5,546.07	608.38	323.61	689.09	0.00	0.00	0.00
5,700.00	9.11	28.01	5,644.81	622.36	331.04	704.92	0.00	0.00	0.00
5,800.00	9.11	28.01	5,743.55	636.34	338.48	720.76	0.00	0.00	0.00
5,900.00	9.11	28.01	5,842.29	650.31	345.91	736.59	0.00	0.00	0.00
6,000.00	9.11	28.01	5,941.03	664.29	353.35	752.42	0.00	0.00	0.00
6,047.04	9.11	28.01	5,987.47	670.86	356.84	759.86	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
6,100.00	8.05	28.01	6,039.84	677.84	360.55	767.77	2.00	-2.00	0.00
6,200.00	6.05	28.01	6,139.08	688.67	366.32	780.04	2.00	-2.00	0.00
6,300.00	4.05	28.01	6,238.68	696.44	370.45	788.84	2.00	-2.00	0.00
6,400.00	2.05	28.01	6,338.54	701.14	372.95	794.16	2.00	-2.00	0.00
6,500.00	0.05	28.01	6,438.52	702.76	373.81	795.99	2.00	-2.00	0.00
6,502.48	0.00	0.00	6,441.00	702.76	373.81	795.99	2.00	-2.00	0.00
<b>Start 1916.00 hold at 6502.48 MD</b>									
6,600.00	0.00	0.00	6,538.52	702.76	373.81	795.99	0.00	0.00	0.00
6,700.00	0.00	0.00	6,638.52	702.76	373.81	795.99	0.00	0.00	0.00
6,800.00	0.00	0.00	6,738.52	702.76	373.81	795.99	0.00	0.00	0.00
6,900.00	0.00	0.00	6,838.52	702.76	373.81	795.99	0.00	0.00	0.00
7,000.00	0.00	0.00	6,938.52	702.76	373.81	795.99	0.00	0.00	0.00
7,100.00	0.00	0.00	7,038.52	702.76	373.81	795.99	0.00	0.00	0.00
7,200.00	0.00	0.00	7,138.52	702.76	373.81	795.99	0.00	0.00	0.00
7,300.00	0.00	0.00	7,238.52	702.76	373.81	795.99	0.00	0.00	0.00
7,400.00	0.00	0.00	7,338.52	702.76	373.81	795.99	0.00	0.00	0.00
7,483.48	0.00	0.00	7,422.00	702.76	373.81	795.99	0.00	0.00	0.00
<b>NIO</b>									
7,500.00	0.00	0.00	7,438.52	702.76	373.81	795.99	0.00	0.00	0.00
7,600.00	0.00	0.00	7,538.52	702.76	373.81	795.99	0.00	0.00	0.00
7,700.00	0.00	0.00	7,638.52	702.76	373.81	795.99	0.00	0.00	0.00
7,800.00	0.00	0.00	7,738.52	702.76	373.81	795.99	0.00	0.00	0.00
7,813.48	0.00	0.00	7,752.00	702.76	373.81	795.99	0.00	0.00	0.00
<b>CODELL</b>									
7,888.48	0.00	0.00	7,827.00	702.76	373.81	795.99	0.00	0.00	0.00
<b>GREENHORN</b>									
7,900.00	0.00	0.00	7,838.52	702.76	373.81	795.99	0.00	0.00	0.00
8,000.00	0.00	0.00	7,938.52	702.76	373.81	795.99	0.00	0.00	0.00
8,100.00	0.00	0.00	8,038.52	702.76	373.81	795.99	0.00	0.00	0.00
8,200.00	0.00	0.00	8,138.52	702.76	373.81	795.99	0.00	0.00	0.00
8,253.48	0.00	0.00	8,192.00	702.76	373.81	795.99	0.00	0.00	0.00
<b>JSAND</b>									
8,300.00	0.00	0.00	8,238.52	702.76	373.81	795.99	0.00	0.00	0.00
8,400.00	0.00	0.00	8,338.52	702.76	373.81	795.99	0.00	0.00	0.00

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P_PEAKS 11-2
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	KB @ 5046.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	KB @ 5046.00ft
<b>Site:</b>	WELD_PEAKS 14-2 PAD	<b>North Reference:</b>	True
<b>Well:</b>	P_PEAKS 11-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	P_PEAKS 11-2		
<b>Design:</b>	PLAN #1 7-22-10 RHS		

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)
8,418.48	0.00	0.00	8,357.00	702.76	373.81	795.99	0.00	0.00	0.00
PBHL_PEAKS 11-2(1980 FSL 2000 FWL)50' TGT RAD									

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	
- Shape									Latitude Longitude
PBHL_PEAKS 11-2(1	0.00	0.00	8,357.00	702.76	373.81	1,271,885.02	3,147,523.82	40° 4' 42.640 N	104° 58' 22.109 W
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
900.00	900.00	8 5/8"	8.620	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,483.48	7,422.00	NIO		0.00		
4,182.05	4,146.00	PARKMAN		0.00		
7,888.48	7,827.00	GREENHORN		0.00		
4,718.82	4,676.00	SUSSEX		0.00		
8,253.48	8,192.00	JSAND		0.00		
7,813.48	7,752.00	CODELL		0.00		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,020.00	1,020.00	0.00	0.00	Start Build 2.00
1,475.45	1,473.53	31.90	16.97	Start 4571.59 hold at 1475.45 MD
6,047.04	5,987.47	670.86	356.84	Start Drop -2.00
6,502.48	6,441.00	702.76	373.81	Start 1916.00 hold at 6502.48 MD
8,418.48	8,357.00	702.76	373.81	TD at 8418.48