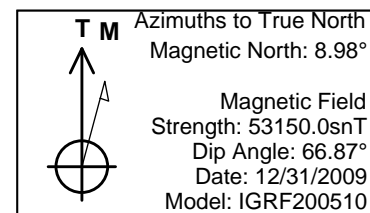
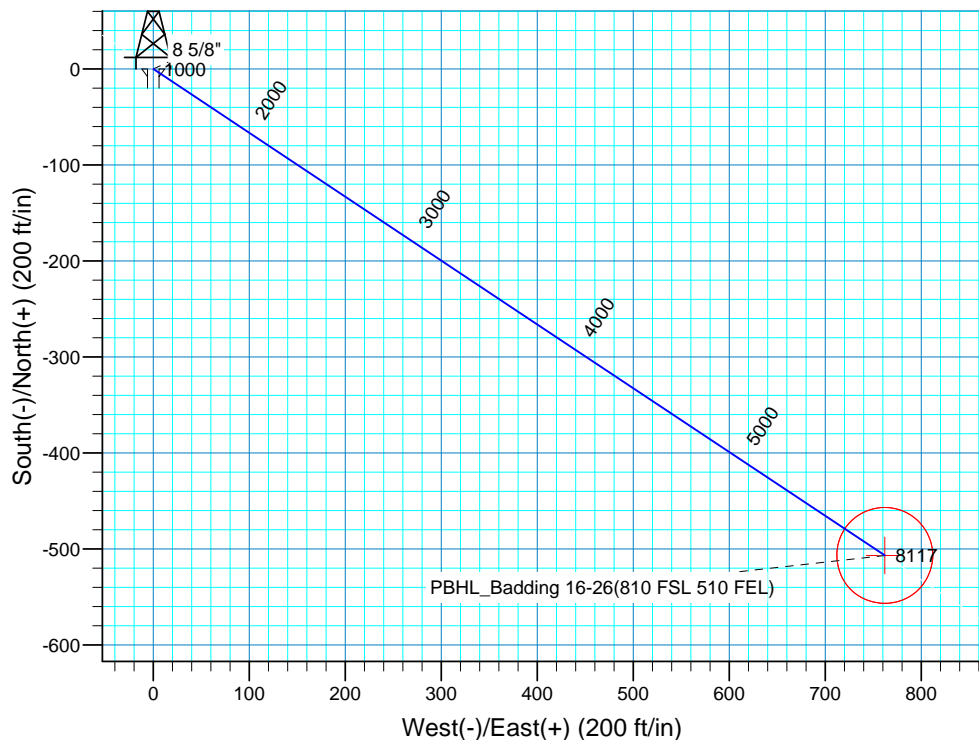
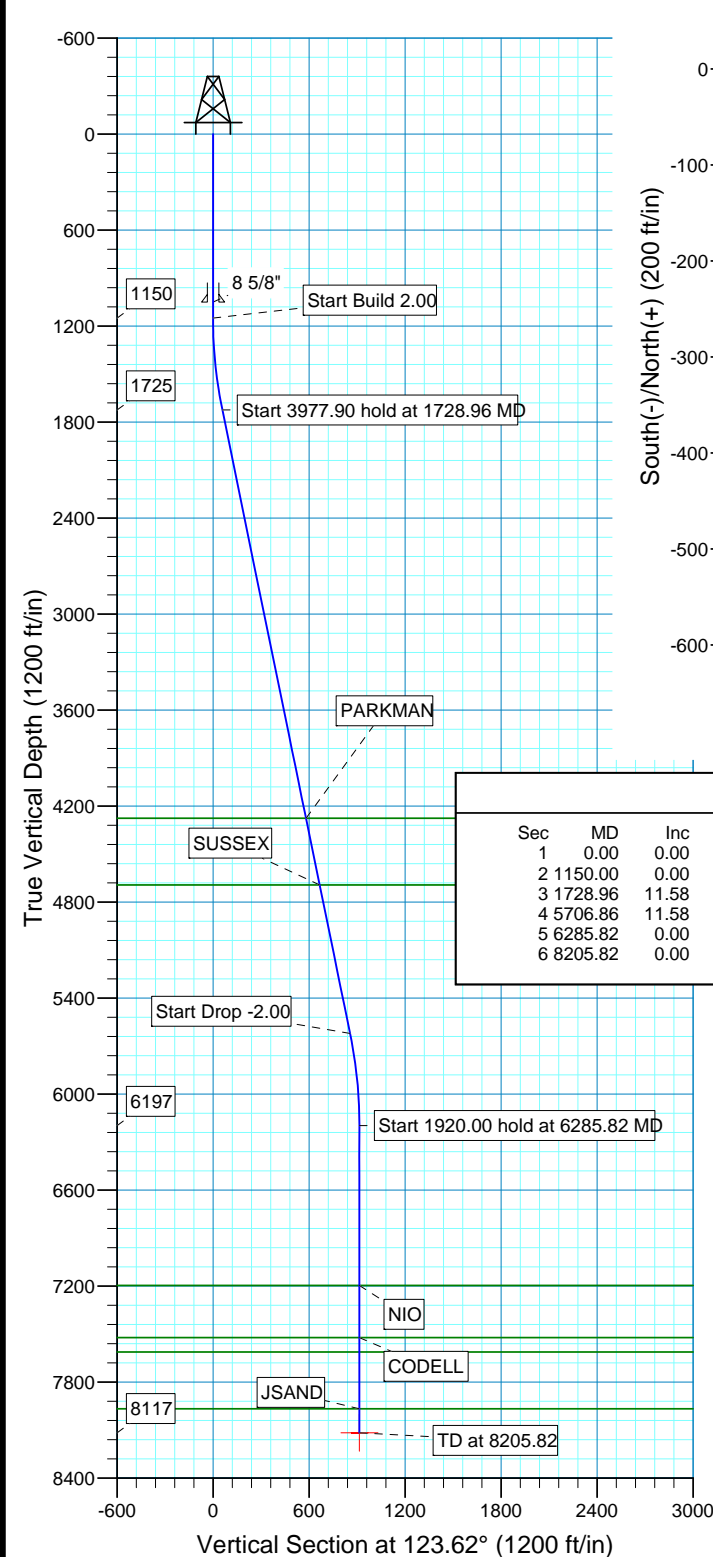


WELL DETAILS: P_Badding 16-26					
WELL @ 5082.00ft (Original Well Elev) 5067.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1282247.88	3212745.93	40° 6' 20.369 N	104° 44' 21.919 W



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	8117.00	-506.70	761.97	1281747.74	3213512.22	40° 6' 15.361 N	104° 44' 12.113 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	1150.00	0.00	0.00	1150.00	0.00	0.00	0.00	0.00	0.00		
3	1728.96	11.58	123.62	1725.03	-32.28	48.55	2.00	123.62	58.30		
4	5706.86	11.58	123.62	5621.97	-474.41	713.42	0.00	0.00	856.76		
5	6285.82	0.00	0.00	6197.00	-506.70	761.97	2.00	180.00	915.07		
6	8205.82	0.00	0.00	8117.00	-506.70	761.97	0.00	0.00	915.07	PBHL_Badding 16-26(810 FSL 510 FEL)	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4276.00	4332.93	PARKMAN
4694.00	4759.61	SUSSEX
7197.00	7285.82	NIO
7522.00	7610.82	CODELL
7612.00	7700.82	GREENHORN
7967.00	8055.82	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 26 T2N R66W
System Datum:	Mean Sea Level
Local North:	True

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BADDING 20-26 PAD

P_Badding 16-26

P_Badding 16-26

Plan: PLAN #1 7-22-10 RHS

Standard Planning Report

22 July, 2010

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 16-26
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5082.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5082.00ft (Original Well Elev)
Site:	WELD_BADDING 20-26 PAD	North Reference:	True
Well:	P_Badding 16-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 16-26		
Design:	PLAN #1 7-22-10 RHS		

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		WELD_BADDING 20-26 PAD, SECTION 26 T2N R66W			
Site Position: From:		Northing:	1,282,246.75 ft	Latitude:	40° 6' 20.365 N
	Lat/Long	Easting:	3,212,655.87 ft	Longitude:	104° 44' 23.078 W
	Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:

Well	P_Badding 16-26					
Well Position	+N-S	0.00 ft	Northing:	1,282,247.88 ft	Latitude:	40° 6' 20.369 N
	+E-W	0.00 ft	Easting:	3,212,745.93 ft	Longitude:	104° 44' 21.919 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,067.00 ft

Wellbore	P_Badding 16-26				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.98	66.87	53,150

Design	PLAN #1 7-22-10 RHS				
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	123.62	

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	
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,728.96	11.58	123.62	1,725.03	-32.28	48.55	2.00	2.00	0.00	123.62	
5,706.86	11.58	123.62	5,621.97	-474.41	713.42	0.00	0.00	0.00	0.00	
6,285.82	0.00	0.00	6,197.00	-506.70	761.97	2.00	-2.00	0.00	180.00	
8,205.82	0.00	0.00	8,117.00	-506.70	761.97	0.00	0.00	0.00	0.00	PBHL_Badding 16-

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 16-26
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5082.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5082.00ft (Original Well Elev)
Site:	WELD_BADDING 20-26 PAD	North Reference:	True
Well:	P_Badding 16-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 16-26		
Design:	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
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8"									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,200.00	1.00	123.62	1,200.00	-0.24	0.36	0.44	2.00	2.00	0.00
1,300.00	3.00	123.62	1,299.93	-2.17	3.27	3.93	2.00	2.00	0.00
1,400.00	5.00	123.62	1,399.68	-6.04	9.08	10.90	2.00	2.00	0.00
1,500.00	7.00	123.62	1,499.13	-11.82	17.78	21.35	2.00	2.00	0.00
1,600.00	9.00	123.62	1,598.15	-19.53	29.37	35.27	2.00	2.00	0.00
1,700.00	11.00	123.62	1,696.63	-29.14	43.83	52.63	2.00	2.00	0.00
1,728.96	11.58	123.62	1,725.03	-32.28	48.55	58.30	2.00	2.00	0.00
Start 3977.90 hold at 1728.96 MD									
1,800.00	11.58	123.62	1,794.62	-40.18	60.42	72.56	0.00	0.00	0.00
1,900.00	11.58	123.62	1,892.59	-51.29	77.14	92.64	0.00	0.00	0.00
2,000.00	11.58	123.62	1,990.55	-62.41	93.85	112.71	0.00	0.00	0.00
2,100.00	11.58	123.62	2,088.52	-73.52	110.57	132.78	0.00	0.00	0.00
2,200.00	11.58	123.62	2,186.48	-84.64	127.28	152.85	0.00	0.00	0.00
2,300.00	11.58	123.62	2,284.45	-95.75	143.99	172.92	0.00	0.00	0.00
2,400.00	11.58	123.62	2,382.41	-106.87	160.71	193.00	0.00	0.00	0.00
2,500.00	11.58	123.62	2,480.37	-117.98	177.42	213.07	0.00	0.00	0.00
2,600.00	11.58	123.62	2,578.34	-129.10	194.14	233.14	0.00	0.00	0.00
2,700.00	11.58	123.62	2,676.30	-140.21	210.85	253.21	0.00	0.00	0.00
2,800.00	11.58	123.62	2,774.27	-151.33	227.57	273.29	0.00	0.00	0.00
2,900.00	11.58	123.62	2,872.23	-162.44	244.28	293.36	0.00	0.00	0.00
3,000.00	11.58	123.62	2,970.20	-173.56	260.99	313.43	0.00	0.00	0.00
3,100.00	11.58	123.62	3,068.16	-184.67	277.71	333.50	0.00	0.00	0.00
3,200.00	11.58	123.62	3,166.13	-195.78	294.42	353.58	0.00	0.00	0.00
3,300.00	11.58	123.62	3,264.09	-206.90	311.14	373.65	0.00	0.00	0.00
3,400.00	11.58	123.62	3,362.06	-218.01	327.85	393.72	0.00	0.00	0.00
3,500.00	11.58	123.62	3,460.02	-229.13	344.56	413.79	0.00	0.00	0.00
3,600.00	11.58	123.62	3,557.99	-240.24	361.28	433.86	0.00	0.00	0.00
3,700.00	11.58	123.62	3,655.95	-251.36	377.99	453.94	0.00	0.00	0.00
3,800.00	11.58	123.62	3,753.92	-262.47	394.71	474.01	0.00	0.00	0.00
3,900.00	11.58	123.62	3,851.88	-273.59	411.42	494.08	0.00	0.00	0.00
4,000.00	11.58	123.62	3,949.85	-284.70	428.14	514.15	0.00	0.00	0.00
4,100.00	11.58	123.62	4,047.81	-295.82	444.85	534.23	0.00	0.00	0.00
4,200.00	11.58	123.62	4,145.78	-306.93	461.56	554.30	0.00	0.00	0.00
4,300.00	11.58	123.62	4,243.74	-318.04	478.28	574.37	0.00	0.00	0.00
4,332.93	11.58	123.62	4,276.00	-321.70	483.78	580.98	0.00	0.00	0.00
PARKMAN									
4,400.00	11.58	123.62	4,341.71	-329.16	494.99	594.44	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 16-26
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5082.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5082.00ft (Original Well Elev)
Site:	WELD_BADDING 20-26 PAD	North Reference:	True
Well:	P_Badding 16-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 16-26		
Design:	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)
4,500.00	11.58	123.62	4,439.67	-340.27	511.71	614.52	0.00	0.00	0.00
4,600.00	11.58	123.62	4,537.64	-351.39	528.42	634.59	0.00	0.00	0.00
4,700.00	11.58	123.62	4,635.60	-362.50	545.13	654.66	0.00	0.00	0.00
4,759.61	11.58	123.62	4,694.00	-369.13	555.10	666.63	0.00	0.00	0.00
SUSSEX									
4,800.00	11.58	123.62	4,733.57	-373.62	561.85	674.73	0.00	0.00	0.00
4,900.00	11.58	123.62	4,831.53	-384.73	578.56	694.80	0.00	0.00	0.00
5,000.00	11.58	123.62	4,929.49	-395.85	595.28	714.88	0.00	0.00	0.00
5,100.00	11.58	123.62	5,027.46	-406.96	611.99	734.95	0.00	0.00	0.00
5,200.00	11.58	123.62	5,125.42	-418.08	628.71	755.02	0.00	0.00	0.00
5,300.00	11.58	123.62	5,223.39	-429.19	645.42	775.09	0.00	0.00	0.00
5,400.00	11.58	123.62	5,321.35	-440.31	662.13	795.17	0.00	0.00	0.00
5,500.00	11.58	123.62	5,419.32	-451.42	678.85	815.24	0.00	0.00	0.00
5,600.00	11.58	123.62	5,517.28	-462.53	695.56	835.31	0.00	0.00	0.00
5,700.00	11.58	123.62	5,615.25	-473.65	712.28	855.38	0.00	0.00	0.00
5,706.86	11.58	123.62	5,621.97	-474.41	713.42	856.76	0.00	0.00	0.00
Start Drop -2.00									
5,800.00	9.72	123.62	5,713.50	-483.94	727.75	873.97	2.00	-2.00	0.00
5,900.00	7.72	123.62	5,812.34	-492.33	740.37	889.12	2.00	-2.00	0.00
6,000.00	5.72	123.62	5,911.65	-498.81	750.11	900.82	2.00	-2.00	0.00
6,100.00	3.72	123.62	6,011.31	-503.36	756.96	909.04	2.00	-2.00	0.00
6,200.00	1.72	123.62	6,111.19	-505.98	760.90	913.78	2.00	-2.00	0.00
6,285.82	0.00	0.00	6,197.00	-506.70	761.97	915.07	2.00	-2.00	-144.04
Start 1920.00 hold at 6285.82 MD									
6,300.00	0.00	0.00	6,211.18	-506.70	761.97	915.07	0.00	0.00	0.00
6,400.00	0.00	0.00	6,311.18	-506.70	761.97	915.07	0.00	0.00	0.00
6,500.00	0.00	0.00	6,411.18	-506.70	761.97	915.07	0.00	0.00	0.00
6,600.00	0.00	0.00	6,511.18	-506.70	761.97	915.07	0.00	0.00	0.00
6,700.00	0.00	0.00	6,611.18	-506.70	761.97	915.07	0.00	0.00	0.00
6,800.00	0.00	0.00	6,711.18	-506.70	761.97	915.07	0.00	0.00	0.00
6,900.00	0.00	0.00	6,811.18	-506.70	761.97	915.07	0.00	0.00	0.00
7,000.00	0.00	0.00	6,911.18	-506.70	761.97	915.07	0.00	0.00	0.00
7,100.00	0.00	0.00	7,011.18	-506.70	761.97	915.07	0.00	0.00	0.00
7,200.00	0.00	0.00	7,111.18	-506.70	761.97	915.07	0.00	0.00	0.00
7,285.82	0.00	0.00	7,197.00	-506.70	761.97	915.07	0.00	0.00	0.00
NIO									
7,300.00	0.00	0.00	7,211.18	-506.70	761.97	915.07	0.00	0.00	0.00
7,400.00	0.00	0.00	7,311.18	-506.70	761.97	915.07	0.00	0.00	0.00
7,500.00	0.00	0.00	7,411.18	-506.70	761.97	915.07	0.00	0.00	0.00
7,600.00	0.00	0.00	7,511.18	-506.70	761.97	915.07	0.00	0.00	0.00
7,610.82	0.00	0.00	7,522.00	-506.70	761.97	915.07	0.00	0.00	0.00
CODELL									
7,700.00	0.00	0.00	7,611.18	-506.70	761.97	915.07	0.00	0.00	0.00
7,700.82	0.00	0.00	7,612.00	-506.70	761.97	915.07	0.00	0.00	0.00
GREENHORN									
7,800.00	0.00	0.00	7,711.18	-506.70	761.97	915.07	0.00	0.00	0.00
7,900.00	0.00	0.00	7,811.18	-506.70	761.97	915.07	0.00	0.00	0.00
8,000.00	0.00	0.00	7,911.18	-506.70	761.97	915.07	0.00	0.00	0.00
8,055.82	0.00	0.00	7,967.00	-506.70	761.97	915.07	0.00	0.00	0.00
JSAND									
8,100.00	0.00	0.00	8,011.18	-506.70	761.97	915.07	0.00	0.00	0.00
8,200.00	0.00	0.00	8,111.18	-506.70	761.97	915.07	0.00	0.00	0.00
8,205.82	0.00	0.00	8,117.00	-506.70	761.97	915.07	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_Badding 16-26
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5082.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5082.00ft (Original Well Elev)
Site:	WELD_BADDING 20-26 PAD	North Reference:	True
Well:	P_Badding 16-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_Badding 16-26		
Design:	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)
TD at 8205.82 - PBHL_Badding 16-26(810 FSL 510 FEL)									

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude
PBHL_Badding 16-26	- plan hits target center	0.00	0.00	8,117.00	-506.70	761.97	1,281,747.74	3,213,512.22	40° 6' 15.361 N 104° 44' 12.113 W
	- Circle (radius 50.00)								

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,050.00	1,050.00	8 5/8"	8.620	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,285.82	7,197.00	NIO				
7,700.82	7,612.00	GREENHORN				
7,610.82	7,522.00	CODELL				
8,055.82	7,967.00	JSAND				
4,332.93	4,276.00	PARKMAN				
4,759.61	4,694.00	SUSSEX				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,150.00	1,150.00	0.00	0.00	Start Build 2.00	
1,728.96	1,725.03	-32.28	48.55	Start 3977.90 hold at 1728.96 MD	
5,706.86	5,621.97	-474.41	713.42	Start Drop -2.00	
6,285.82	6,197.00	-506.70	761.97	Start 1920.00 hold at 6285.82 MD	
8,205.82	8,117.00	-506.70	761.97	TD at 8205.82	