

WELL DETAILS: P_BADDING 34-35

WELL @ 5123.00ft (Original Well Elev) 5108.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1276562.22	3210377.84	40° 5' 24.381 N	104° 44' 53.016 W

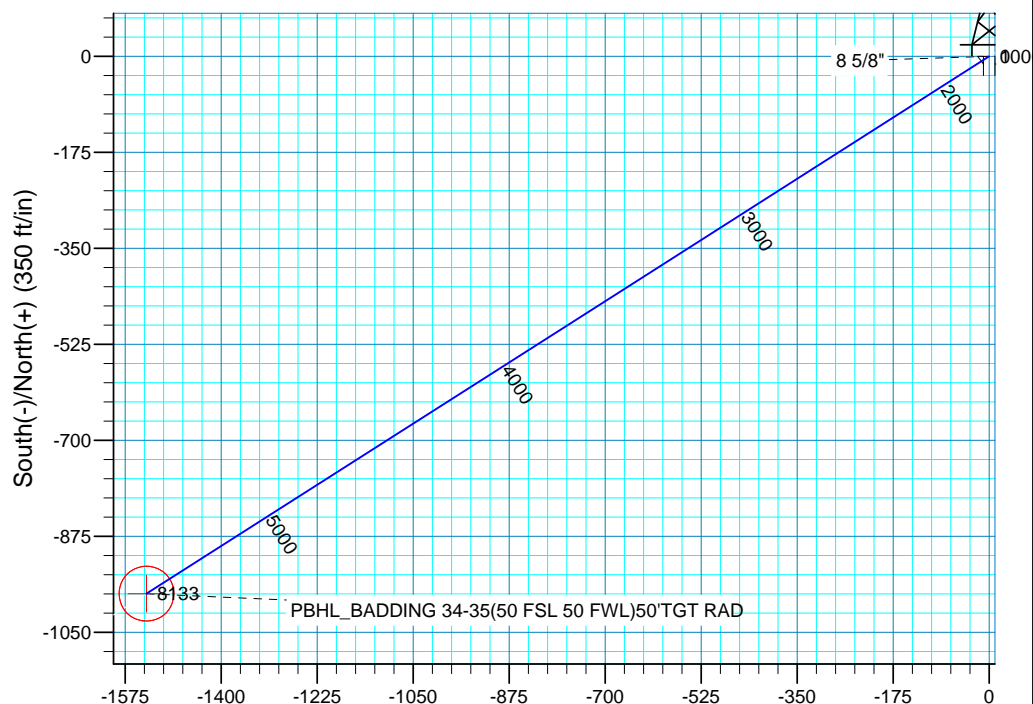
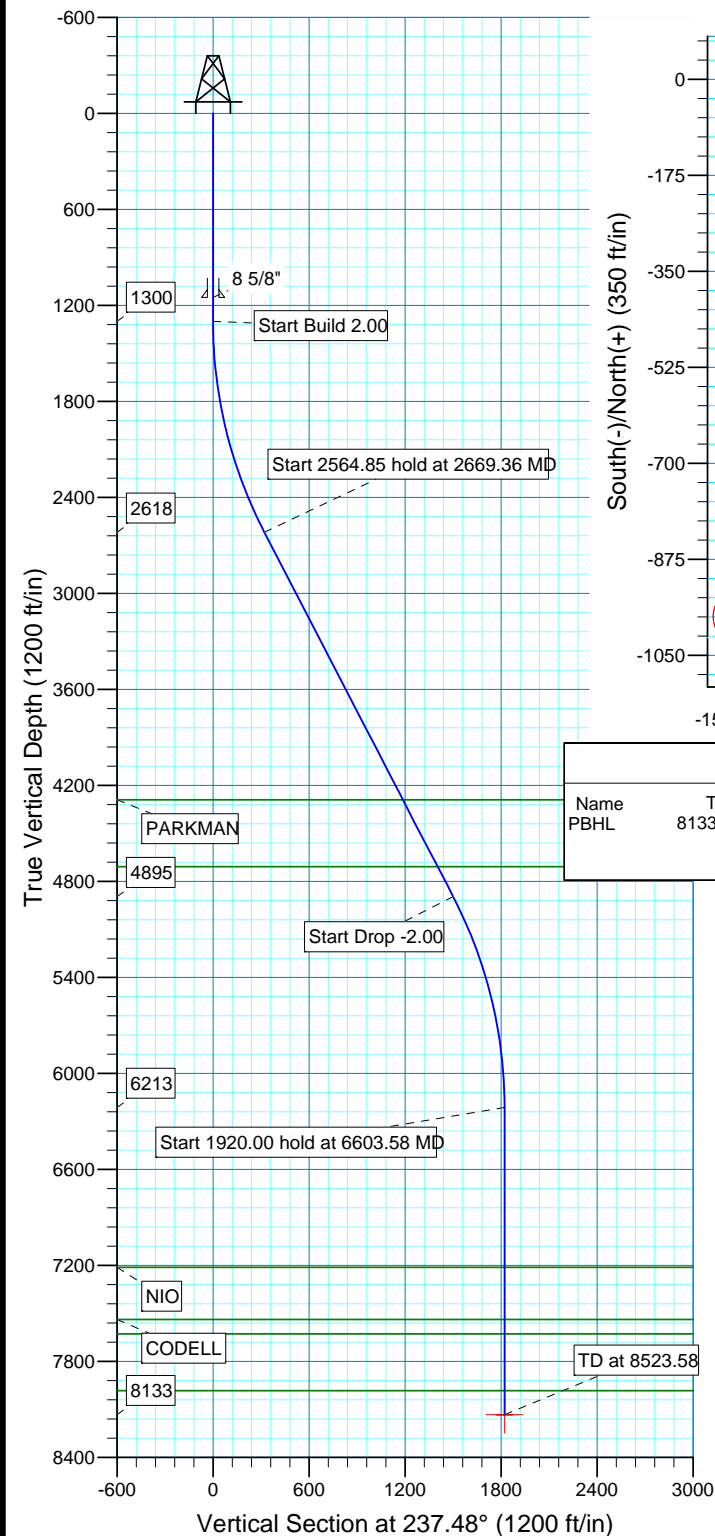
SECTION DETAILS

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	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	
3	2669.36	27.39	237.48	2617.81	-172.61	-270.75	2.00	237.48	321.09	
4	5234.22	27.39	237.48	4895.19	-806.87	-1265.61	0.00	0.00	1500.93	
5	6603.58	0.00	0.00	6213.00	-979.48	-1536.35	2.00	180.00	1822.02	
6	8523.58	0.00	0.00	8133.00	-979.48	-1536.35	0.00	0.00	1822.02	PBHL_BADDING 34-35(50 FSL 50 FWL)50'TGT RAD



Azimuths to True North
Magnetic North: 8.99°

Magnetic Field
Strength: 53140.5nT
Dip Angle: 66.86°
Date: 12/31/2009
Model: IGRF200510



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8133.00	-979.48	-1536.35	1275569.74	3208849.85	40° 5' 14.701 N	104° 45' 12.784 W	Circle (Radius: 50.00)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4290.00	4552.64	PARKMAN
4708.00	5023.40	SUSSEX
7213.00	7603.58	NIO
7538.00	7928.58	CODELL
7628.00	8018.58	GREENHORN
7983.00	8373.58	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 35 T2N R66W
System Datum: Mean Sea Level
Local North: True

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BADDING 19-35 PAD

P_BADDING 34-35

P_BADDING 34-35

Plan: PLAN #1 7-16-10 RHS

Standard Planning Report

20 July, 2010

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 34-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5123.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5123.00ft (Original Well Elev)
Site:	WELD_BADDING 19-35 PAD	North Reference:	True
Well:	P_BADDING 34-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 34-35		
Design:	PLAN #1 7-16-10 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 19-35 PAD, SECTION 35 T2N R66W			
Site Position:		Northing:		1,276,562.14 ft	
From:	Lat/Long	Easting:		3,210,367.76 ft	
Position Uncertainty:		Slot Radius:		in	
0.00 ft				Grid Convergence:	
				40° 5' 24.382 N	
				104° 44' 53.146 W	
				0.49 °	

Well	P_BADDING 34-35, 1017 FSL 1587 FWL					
Well Position	+N-S	0.00 ft	Northing:	1,276,562.22 ft	Latitude:	40° 5' 24.381 N
	+E-W	0.00 ft	Easting:	3,210,377.84 ft	Longitude:	104° 44' 53.016 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,108.00 ft

Wellbore	P_BADDING 34-35				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.99	66.86	53,140

Design	PLAN #1 7-16-10 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	237.48

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	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,669.36	27.39	237.48	2,617.81	-172.61	-270.75	2.00	2.00	0.00	237.48	
5,234.22	27.39	237.48	4,895.19	-806.87	-1,265.61	0.00	0.00	0.00	0.00	
6,603.58	0.00	0.00	6,213.00	-979.48	-1,536.35	2.00	-2.00	0.00	180.00	
8,523.58	0.00	0.00	8,133.00	-979.48	-1,536.35	0.00	0.00	0.00	0.00	PBHL_BADDING 3

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well P_BADDING 34-35
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5123.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5123.00ft (Original Well Elev)
Site:	WELD_BADDING 19-35 PAD	North Reference:	True
Well:	P_BADDING 34-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 34-35		
Design:	PLAN #1 7-16-10 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
1,100.00	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
8 5/8"									
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
Start Build 2.00									
1,400.00	2.00	237.48	1,399.98	-0.94	-1.47	1.75	2.00	2.00	0.00
1,500.00	4.00	237.48	1,499.84	-3.75	-5.88	6.98	2.00	2.00	0.00
1,600.00	6.00	237.48	1,599.45	-8.44	-13.23	15.69	2.00	2.00	0.00
1,700.00	8.00	237.48	1,698.70	-14.99	-23.51	27.88	2.00	2.00	0.00
1,800.00	10.00	237.48	1,797.47	-23.40	-36.70	43.52	2.00	2.00	0.00
1,900.00	12.00	237.48	1,895.62	-33.65	-52.79	62.60	2.00	2.00	0.00
2,000.00	14.00	237.48	1,993.06	-45.75	-71.75	85.10	2.00	2.00	0.00
2,100.00	16.00	237.48	2,089.64	-59.66	-93.58	110.98	2.00	2.00	0.00
2,200.00	18.00	237.48	2,185.27	-75.38	-118.23	140.21	2.00	2.00	0.00
2,300.00	20.00	237.48	2,279.82	-92.88	-145.68	172.77	2.00	2.00	0.00
2,400.00	22.00	237.48	2,373.17	-112.14	-175.90	208.60	2.00	2.00	0.00
2,500.00	24.00	237.48	2,465.21	-133.14	-208.84	247.67	2.00	2.00	0.00
2,600.00	26.00	237.48	2,555.84	-155.86	-244.48	289.93	2.00	2.00	0.00
2,669.36	27.39	237.48	2,617.81	-172.61	-270.75	321.09	2.00	2.00	0.00
Start 2564.85 hold at 2669.36 MD									
2,700.00	27.39	237.48	2,645.01	-180.19	-282.63	335.19	0.00	0.00	0.00
2,800.00	27.39	237.48	2,733.80	-204.92	-321.42	381.19	0.00	0.00	0.00
2,900.00	27.39	237.48	2,822.60	-229.65	-360.21	427.19	0.00	0.00	0.00
3,000.00	27.39	237.48	2,911.39	-254.38	-399.00	473.19	0.00	0.00	0.00
3,100.00	27.39	237.48	3,000.18	-279.10	-437.78	519.19	0.00	0.00	0.00
3,200.00	27.39	237.48	3,088.97	-303.83	-476.57	565.19	0.00	0.00	0.00
3,300.00	27.39	237.48	3,177.76	-328.56	-515.36	611.19	0.00	0.00	0.00
3,400.00	27.39	237.48	3,266.56	-353.29	-554.15	657.19	0.00	0.00	0.00
3,500.00	27.39	237.48	3,355.35	-378.02	-592.94	703.19	0.00	0.00	0.00
3,600.00	27.39	237.48	3,444.14	-402.75	-631.72	749.19	0.00	0.00	0.00
3,700.00	27.39	237.48	3,532.93	-427.48	-670.51	795.19	0.00	0.00	0.00
3,800.00	27.39	237.48	3,621.72	-452.21	-709.30	841.19	0.00	0.00	0.00
3,900.00	27.39	237.48	3,710.51	-476.93	-748.09	887.19	0.00	0.00	0.00
4,000.00	27.39	237.48	3,799.31	-501.66	-786.88	933.19	0.00	0.00	0.00
4,100.00	27.39	237.48	3,888.10	-526.39	-825.66	979.19	0.00	0.00	0.00
4,200.00	27.39	237.48	3,976.89	-551.12	-864.45	1,025.19	0.00	0.00	0.00
4,300.00	27.39	237.48	4,065.68	-575.85	-903.24	1,071.19	0.00	0.00	0.00
4,400.00	27.39	237.48	4,154.47	-600.58	-942.03	1,117.19	0.00	0.00	0.00
4,500.00	27.39	237.48	4,243.26	-625.31	-980.82	1,163.19	0.00	0.00	0.00
4,552.64	27.39	237.48	4,290.00	-638.32	-1,001.23	1,187.40	0.00	0.00	0.00
PARKMAN									

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5123.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5123.00ft (Original Well Elev)
Site:	WELD_BADDING 19-35 PAD	North Reference:	True
Well:	P_BADDING 34-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 34-35		
Design:	PLAN #1 7-16-10 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	27.39	237.48	4,332.06	-650.04	-1,019.60	1,209.19	0.00	0.00	0.00
4,700.00	27.39	237.48	4,420.85	-674.76	-1,058.39	1,255.19	0.00	0.00	0.00
4,800.00	27.39	237.48	4,509.64	-699.49	-1,097.18	1,301.19	0.00	0.00	0.00
4,900.00	27.39	237.48	4,598.43	-724.22	-1,135.97	1,347.19	0.00	0.00	0.00
5,000.00	27.39	237.48	4,687.22	-748.95	-1,174.76	1,393.19	0.00	0.00	0.00
5,023.40	27.39	237.48	4,708.00	-754.74	-1,183.83	1,403.96	0.00	0.00	0.00
SUSSEX									
5,100.00	27.39	237.48	4,776.01	-773.68	-1,213.55	1,439.19	0.00	0.00	0.00
5,200.00	27.39	237.48	4,864.81	-798.41	-1,252.33	1,485.19	0.00	0.00	0.00
5,234.22	27.39	237.48	4,895.19	-806.87	-1,265.61	1,500.93	0.00	0.00	0.00
Start Drop -2.00									
5,300.00	26.07	237.48	4,953.94	-822.78	-1,290.55	1,530.52	2.00	-2.00	0.00
5,400.00	24.07	237.48	5,044.51	-845.55	-1,326.28	1,572.89	2.00	-2.00	0.00
5,500.00	22.07	237.48	5,136.51	-866.62	-1,359.33	1,612.08	2.00	-2.00	0.00
5,600.00	20.07	237.48	5,229.82	-885.95	-1,389.64	1,648.03	2.00	-2.00	0.00
5,700.00	18.07	237.48	5,324.33	-903.51	-1,417.19	1,680.70	2.00	-2.00	0.00
5,800.00	16.07	237.48	5,419.91	-919.29	-1,441.94	1,710.06	2.00	-2.00	0.00
5,900.00	14.07	237.48	5,516.47	-933.27	-1,463.87	1,736.06	2.00	-2.00	0.00
6,000.00	12.07	237.48	5,613.87	-945.43	-1,482.94	1,758.68	2.00	-2.00	0.00
6,100.00	10.07	237.48	5,712.01	-955.75	-1,499.13	1,777.88	2.00	-2.00	0.00
6,200.00	8.07	237.48	5,810.75	-964.23	-1,512.42	1,793.64	2.00	-2.00	0.00
6,300.00	6.07	237.48	5,909.99	-970.84	-1,522.80	1,805.95	2.00	-2.00	0.00
6,400.00	4.07	237.48	6,009.59	-975.60	-1,530.26	1,814.79	2.00	-2.00	0.00
6,500.00	2.07	237.48	6,109.44	-978.48	-1,534.78	1,820.15	2.00	-2.00	0.00
6,600.00	0.07	237.48	6,209.42	-979.48	-1,536.35	1,822.02	2.00	-2.00	0.00
6,603.58	0.00	0.00	6,213.00	-979.48	-1,536.35	1,822.02	2.00	-2.00	0.00
Start 1920.00 hold at 6603.58 MD									
6,700.00	0.00	0.00	6,309.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
6,800.00	0.00	0.00	6,409.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
6,900.00	0.00	0.00	6,509.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,000.00	0.00	0.00	6,609.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,100.00	0.00	0.00	6,709.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,200.00	0.00	0.00	6,809.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,300.00	0.00	0.00	6,909.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,400.00	0.00	0.00	7,009.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,500.00	0.00	0.00	7,109.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,600.00	0.00	0.00	7,209.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,603.58	0.00	0.00	7,213.00	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
NIO									
7,700.00	0.00	0.00	7,309.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,800.00	0.00	0.00	7,409.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,900.00	0.00	0.00	7,509.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
7,928.58	0.00	0.00	7,538.00	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
CODELL									
8,000.00	0.00	0.00	7,609.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
8,018.58	0.00	0.00	7,628.00	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
GREENHORN									
8,100.00	0.00	0.00	7,709.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
8,200.00	0.00	0.00	7,809.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
8,300.00	0.00	0.00	7,909.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
8,373.58	0.00	0.00	7,983.00	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
JSAND									
8,400.00	0.00	0.00	8,009.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5123.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5123.00ft (Original Well Elev)
Site:	WELD_BADDING 19-35 PAD	North Reference:	True
Well:	P_BADDING 34-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_BADDING 34-35		
Design:	PLAN #1 7-16-10 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)
8,500.00	0.00	0.00	8,109.42	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
8,523.58	0.00	0.00	8,133.00	-979.48	-1,536.35	1,822.02	0.00	0.00	0.00
PBHL_BADDING 34-35(50 FSL 50 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_BADDING 34-35	- plan hits target center	0.00	0.48	8,133.00	-979.48	-1,536.35	1,275,569.74	3,208,849.85	40° 5' 14.701 N 104° 45' 12.784 W
	- Circle (radius 50.00)								

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,150.00	1,150.00	8 5/8"	8.620	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,928.58	7,538.00	CODELL			
8,373.58	7,983.00	JSAND			
8,018.58	7,628.00	GREENHORN			
7,603.58	7,213.00	NIO			
5,023.40	4,708.00	SUSSEX			
4,552.64	4,290.00	PARKMAN			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,300.00	1,300.00	0.00	0.00	Start Build 2.00
2,669.36	2,617.81	-172.61	-270.75	Start 2564.85 hold at 2669.36 MD
5,234.22	4,895.19	-806.87	-1,265.61	Start Drop -2.00
6,603.58	6,213.00	-979.48	-1,536.35	Start 1920.00 hold at 6603.58 MD
8,523.58	8,133.00	-979.48	-1,536.35	TD at 8523.58