



# **US ROCKIES REGION PLANNING**

COLORADO NORTHERN ZONE - 83

WELD\_WIEDMAN PAD

P\_WIEDEMAN 6-5

P\_WIEDEMAN6-5

Plan: PLAN #1 5-25-10 RHS

## **Standard Planning Report**

26 May, 2010

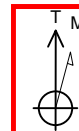




Project: COLORADO NORTHERN ZONE - 83  
 Site: WELD\_WIEDMAN PAD  
 Well: P\_WIEDEMAN 6-5  
 Wellbore: P\_WIEDEMAN6-5  
 Section: SECTION 5 T5N R65W  
 SHL: 1179 FNL 1390 FWL  
 Design: PLAN #1 5-25-10 RHS  
 Latitude: 40° 26' 1.917 N  
 Longitude: 104° 48' 24.721 W  
 GL: 4753.00  
 KB: WELL @ 4768.00ft (Original Well Elev)



**Weatherford®**



Azimuths to True North  
 Magnetic North: 9.03°

Magnetic Field  
 Strength: 53256.8nT  
 Dip Angle: 67.11°  
 Date: 5/25/2010  
 Model: IGRF2010

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3464.00	3516.33	PARKMAN
4174.00	4243.64	SUSSEX
6778.00	6876.57	NIO
7113.00	7211.57	CODELL
7190.00	7288.57	GREENHORN

#### CASING DETAILS

TVD	MD	Name	Size
800.00	800.00	8 5/8"	8.62

#### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	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	Start Build 2.00
1526.21	12.52	146.95	1521.24	-57.14	37.17	2.00	146.95	68.17	Start 3724.14 hold at 1526.21 MD
5250.36	12.52	146.95	5156.76	-734.10	477.55	0.00	0.00	875.76	Start Drop -2.00
5876.57	0.00	0.00	5778.00	-791.24	514.73	2.00	180.00	943.93	Start 1495.00 hold at 5876.57 MD
7371.57	0.00	0.00	7273.00	-791.24	514.73	0.00	0.00	943.93	TD at 7371.57

#### LEGEND

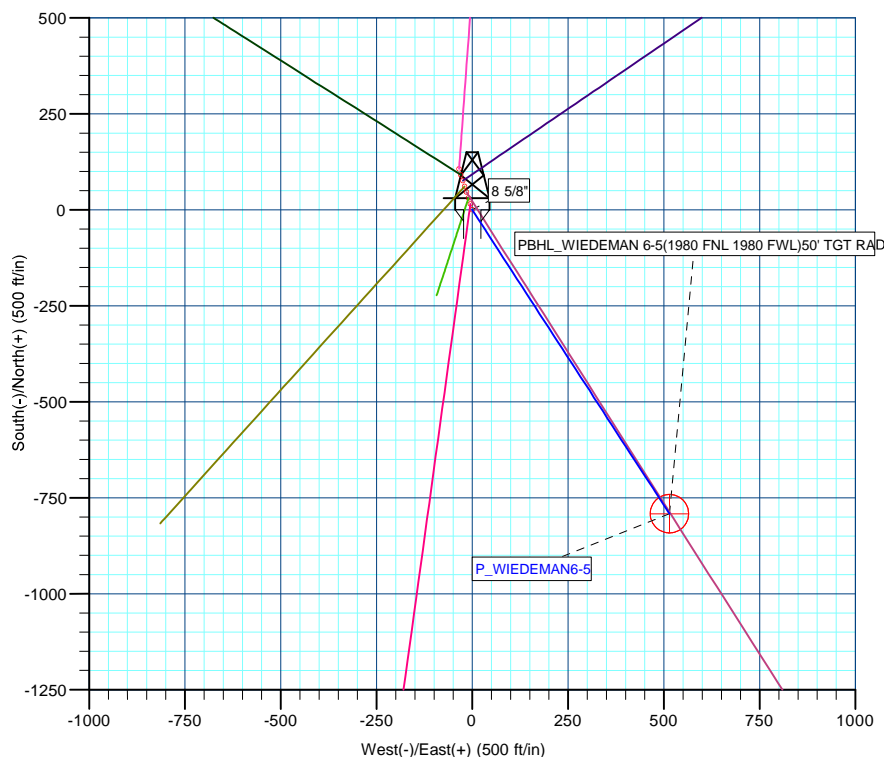
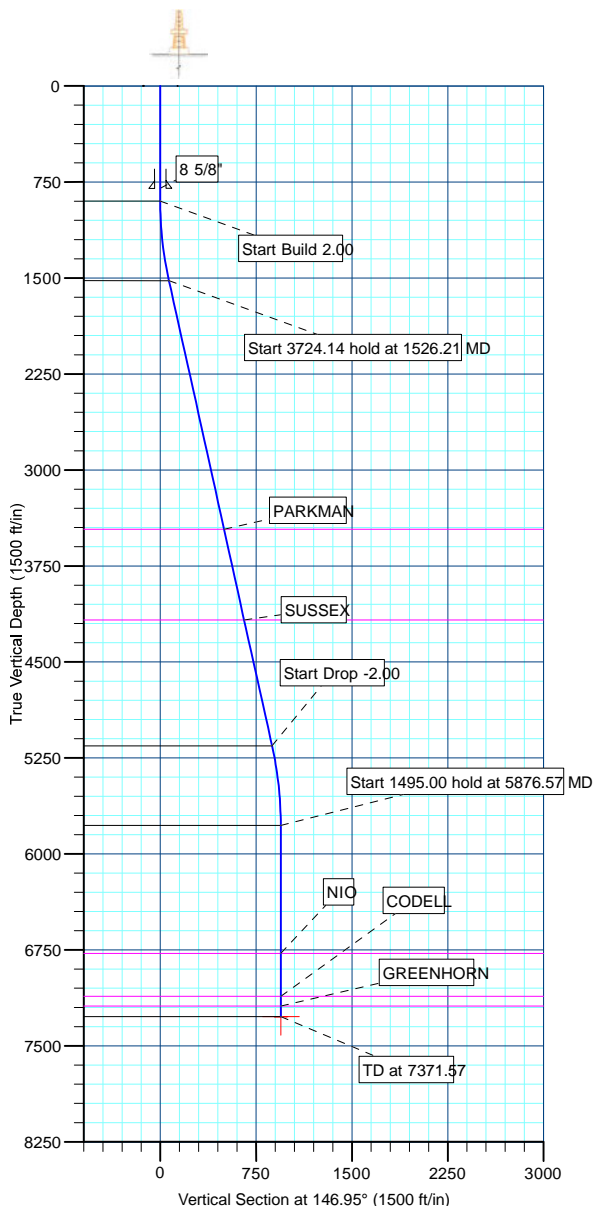
- P\_WIEDEMAN 18-5, P\_WIEDEMAN 18-5, PLAN #1 5-25-10 RHS V0
- P\_WIEDEMAN 22-5, P\_WIEDEMAN 22-5, PLAN #1 5-25-10 RHS V0
- P\_WIEDEMAN 25-5, P\_WIEDEMAN 25-5, PLAN #1 5-25-10 RHS V0
- P\_WIEDEMAN 29-5, P\_WIEDEMAN 29-5, PLAN #1 5-25-10 RHS V0
- P\_WIEDEMAN 3-5, P\_WIEDEMAN 3-5, PLAN #1 5-25-10 RHS V0
- P\_WIEDEMAN 4-5, P\_WIEDEMAN 4-5, PLAN #1 5-25-10 RHS V0
- P\_WIEDEMAN 5-5, P\_WIEDEMAN 5-5, PLAN #1 5-25-10 RHS V0
- PLAN #1 5-25-10 RHS

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	7273.00	-791.24	514.73	40° 25' 54.098 N	104° 48' 18.065 W	Circle (Radius: 50.00)

#### WELL DETAILS: P\_WIEDEMAN 6-5

+N/-S	+E/-W	Northing	Ground Level:	4753.00	Latitude	Longitude	Slot
0.00	0.00	1401651.80	Easting	3192946.32	40° 26' 1.917 N	104° 48' 24.721 W	



Plan: PLAN #1 5-25-10 RHS (P\_WIEDEMAN 6-5/P\_WIEDEMAN6-5)

Created By: Robert H. Scott Date: 8:57, May 26 2010

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WIEDEMAN 6-5
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4768.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4768.00ft (Original Well Elev)
Site:	WELD_WIEDMAN PAD	North Reference:	True
Well:	P_WIEDEMAN 6-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WIEDEMAN6-5		
Design:	PLAN #1 5-25-10 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_WIEDMAN PAD, SECTION 5 T5N R65W			
Site Position:		Northing:	1,401,682.33ft	Latitude:	40° 26' 2.220 N
From:	Lat/Long	Easting:	3,192,936.34ft	Longitude:	104° 48' 24.847 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.45 °

Well	P_WIEDEMAN 6-5					
Well Position	+N/-S	-30.61 ft	Northing:	1,401,651.80 ft	Latitude:	40° 26' 1.917 N
	+E/-W	9.74 ft	Easting:	3,192,946.32 ft	Longitude:	104° 48' 24.721 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,753.00 ft

Wellbore	P_WIEDEMAN6-5				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/25/2010	9.03	67.11	53,257

Design	PLAN #1 5-25-10 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	146.95

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	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,526.21	12.52	146.95	1,521.24	-57.14	37.17	2.00	2.00	0.00	146.95	
5,250.36	12.52	146.95	5,156.76	-734.10	477.55	0.00	0.00	0.00	0.00	
5,876.57	0.00	0.00	5,778.00	-791.24	514.73	2.00	-2.00	0.00	180.00	
7,371.57	0.00	0.00	7,273.00	-791.24	514.73	0.00	0.00	0.00	0.00	PBHL_WIEDEMAN

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WIEDEMAN 6-5
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4768.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4768.00ft (Original Well Elev)
Site:	WELD_WIEDMAN PAD	North Reference:	True
Well:	P_WIEDEMAN 6-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WIEDEMAN6-5		
Design:	PLAN #1 5-25-10 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)
Start Build 2.00									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	2.00	146.95	999.98	-1.46	0.95	1.75	2.00	2.00	0.00
1,100.00	4.00	146.95	1,099.84	-5.85	3.81	6.98	2.00	2.00	0.00
1,200.00	6.00	146.95	1,199.45	-13.16	8.56	15.69	2.00	2.00	0.00
1,300.00	8.00	146.95	1,298.70	-23.37	15.20	27.88	2.00	2.00	0.00
1,400.00	10.00	146.95	1,397.47	-36.48	23.73	43.52	2.00	2.00	0.00
1,500.00	12.00	146.95	1,495.62	-52.48	34.14	62.60	2.00	2.00	0.00
Start 3724.14 hold at 1526.21 MD									
1,526.21	12.52	146.95	1,521.24	-57.14	37.17	68.17	2.00	2.00	0.00
1,600.00	12.52	146.95	1,593.27	-70.56	45.90	84.17	0.00	0.00	0.00
1,700.00	12.52	146.95	1,690.89	-88.73	57.72	105.86	0.00	0.00	0.00
1,800.00	12.52	146.95	1,788.51	-106.91	69.55	127.54	0.00	0.00	0.00
1,900.00	12.52	146.95	1,886.13	-125.09	81.37	149.23	0.00	0.00	0.00
2,000.00	12.52	146.95	1,983.75	-143.27	93.20	170.91	0.00	0.00	0.00
2,100.00	12.52	146.95	2,081.37	-161.44	105.02	192.60	0.00	0.00	0.00
2,200.00	12.52	146.95	2,178.99	-179.62	116.85	214.28	0.00	0.00	0.00
2,300.00	12.52	146.95	2,276.61	-197.80	128.67	235.97	0.00	0.00	0.00
2,400.00	12.52	146.95	2,374.23	-215.98	140.50	257.65	0.00	0.00	0.00
2,500.00	12.52	146.95	2,471.85	-234.15	152.32	279.34	0.00	0.00	0.00
2,600.00	12.52	146.95	2,569.47	-252.33	164.15	301.02	0.00	0.00	0.00
2,700.00	12.52	146.95	2,667.09	-270.51	175.97	322.71	0.00	0.00	0.00
2,800.00	12.52	146.95	2,764.71	-288.69	187.80	344.39	0.00	0.00	0.00
2,900.00	12.52	146.95	2,862.33	-306.86	199.62	366.08	0.00	0.00	0.00
3,000.00	12.52	146.95	2,959.96	-325.04	211.45	387.77	0.00	0.00	0.00
3,100.00	12.52	146.95	3,057.58	-343.22	223.27	409.45	0.00	0.00	0.00
3,200.00	12.52	146.95	3,155.20	-361.40	235.10	431.14	0.00	0.00	0.00
3,300.00	12.52	146.95	3,252.82	-379.57	246.92	452.82	0.00	0.00	0.00
3,400.00	12.52	146.95	3,350.44	-397.75	258.75	474.51	0.00	0.00	0.00
3,500.00	12.52	146.95	3,448.06	-415.93	270.57	496.19	0.00	0.00	0.00
PARKMAN									
3,516.33	12.52	146.95	3,464.00	-418.90	272.50	499.73	0.00	0.00	0.00
3,600.00	12.52	146.95	3,545.68	-434.11	282.40	517.88	0.00	0.00	0.00
3,700.00	12.52	146.95	3,643.30	-452.28	294.22	539.56	0.00	0.00	0.00
3,800.00	12.52	146.95	3,740.92	-470.46	306.05	561.25	0.00	0.00	0.00
3,900.00	12.52	146.95	3,838.54	-488.64	317.87	582.93	0.00	0.00	0.00
4,000.00	12.52	146.95	3,936.16	-506.82	329.70	604.62	0.00	0.00	0.00
4,100.00	12.52	146.95	4,033.78	-524.99	341.52	626.30	0.00	0.00	0.00
4,200.00	12.52	146.95	4,131.40	-543.17	353.35	647.99	0.00	0.00	0.00
SUSSEX									
4,243.64	12.52	146.95	4,174.00	-551.10	358.51	657.45	0.00	0.00	0.00
4,300.00	12.52	146.95	4,229.02	-561.35	365.17	669.67	0.00	0.00	0.00
4,400.00	12.52	146.95	4,326.64	-579.53	377.00	691.36	0.00	0.00	0.00
4,500.00	12.52	146.95	4,424.26	-597.70	388.82	713.05	0.00	0.00	0.00
4,600.00	12.52	146.95	4,521.88	-615.88	400.65	734.73	0.00	0.00	0.00
4,700.00	12.52	146.95	4,619.50	-634.06	412.47	756.42	0.00	0.00	0.00
4,800.00	12.52	146.95	4,717.12	-652.24	424.30	778.10	0.00	0.00	0.00
4,900.00	12.52	146.95	4,814.74	-670.41	436.12	799.79	0.00	0.00	0.00
5,000.00	12.52	146.95	4,912.36	-688.59	447.95	821.47	0.00	0.00	0.00
5,100.00	12.52	146.95	5,009.98	-706.77	459.77	843.16	0.00	0.00	0.00
5,200.00	12.52	146.95	5,107.60	-724.95	471.60	864.84	0.00	0.00	0.00
Start Drop -2.00									
5,250.36	12.52	146.95	5,156.76	-734.10	477.55	875.76	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WIEDEMAN 6-5
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4768.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4768.00ft (Original Well Elev)
Site:	WELD_WIEDMAN PAD	North Reference:	True
Well:	P_WIEDEMAN 6-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WIEDEMAN6-5		
Design:	PLAN #1 5-25-10 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)
5,300.00	11.53	146.95	5,205.32	-742.77	483.19	886.11	2.00	-2.00	0.00
5,400.00	9.53	146.95	5,303.63	-758.09	493.16	904.38	2.00	-2.00	0.00
5,500.00	7.53	146.95	5,402.51	-770.53	501.25	919.22	2.00	-2.00	0.00
5,600.00	5.53	146.95	5,501.86	-780.06	507.45	930.59	2.00	-2.00	0.00
5,700.00	3.53	146.95	5,601.54	-786.68	511.76	938.49	2.00	-2.00	0.00
5,800.00	1.53	146.95	5,701.44	-790.38	514.17	942.91	2.00	-2.00	0.00
Start 1495.00 hold at 5876.57 MD									
5,876.57	0.00	0.00	5,778.00	-791.24	514.73	943.93	2.00	-2.00	0.00
5,900.00	0.00	0.00	5,801.43	-791.24	514.73	943.93	0.00	0.00	0.00
6,000.00	0.00	0.00	5,901.43	-791.24	514.73	943.93	0.00	0.00	0.00
6,100.00	0.00	0.00	6,001.43	-791.24	514.73	943.93	0.00	0.00	0.00
6,200.00	0.00	0.00	6,101.43	-791.24	514.73	943.93	0.00	0.00	0.00
6,300.00	0.00	0.00	6,201.43	-791.24	514.73	943.93	0.00	0.00	0.00
6,400.00	0.00	0.00	6,301.43	-791.24	514.73	943.93	0.00	0.00	0.00
6,500.00	0.00	0.00	6,401.43	-791.24	514.73	943.93	0.00	0.00	0.00
6,600.00	0.00	0.00	6,501.43	-791.24	514.73	943.93	0.00	0.00	0.00
6,700.00	0.00	0.00	6,601.43	-791.24	514.73	943.93	0.00	0.00	0.00
6,800.00	0.00	0.00	6,701.43	-791.24	514.73	943.93	0.00	0.00	0.00
NIO									
6,876.57	0.00	0.00	6,778.00	-791.24	514.73	943.93	0.00	0.00	0.00
6,900.00	0.00	0.00	6,801.43	-791.24	514.73	943.93	0.00	0.00	0.00
7,000.00	0.00	0.00	6,901.43	-791.24	514.73	943.93	0.00	0.00	0.00
7,100.00	0.00	0.00	7,001.43	-791.24	514.73	943.93	0.00	0.00	0.00
7,200.00	0.00	0.00	7,101.43	-791.24	514.73	943.93	0.00	0.00	0.00
CODELL									
7,211.57	0.00	0.00	7,113.00	-791.24	514.73	943.93	0.00	0.00	0.00
GREENHORN									
7,288.57	0.00	0.00	7,190.00	-791.24	514.73	943.93	0.00	0.00	0.00
7,300.00	0.00	0.00	7,201.43	-791.24	514.73	943.93	0.00	0.00	0.00
PBHL_WIEDEMAN 6-5(1980 FNL 1980 FWL)50' TGT RA									
7,371.57	0.00	0.00	7,273.00	-791.24	514.73	943.93	0.00	0.00	0.00

#### 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									
PBHL_WIEDEMAN 6- - plan hits target center - Circle (radius 50.00)	0.00	0.00	7,273.00	-791.24	514.73	1,400,864.60	3,193,467.21	40° 25' 54.098 N	104° 48' 18.065 W

#### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
800.00	800.00	8 5/8"	8.62	11.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well P_WIEDEMAN 6-5
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4768.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4768.00ft (Original Well Elev)
Site:	WELD_WIEDMAN PAD	North Reference:	True
Well:	P_WIEDEMAN 6-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_WIEDEMAN6-5		
Design:	PLAN #1 5-25-10 RHS		

#### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,516.33	3,464.00	PARKMAN			
4,243.64	4,174.00	SUSSEX			
6,876.57	6,778.00	NIO			
7,211.57	7,113.00	CODELL			
7,288.57	7,190.00	GREENHORN			

#### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
900.00	900.00	0.00	0.00	Start Build 2.00
1,526.21	1,521.24	-57.14	37.17	Start 3724.14 hold at 1526.21 MD
5,250.36	5,156.76	-734.10	477.55	Start Drop -2.00
5,876.57	5,778.00	-791.24	514.73	Start 1495.00 hold at 5876.57 MD
7,371.57	7,273.00	-791.24	514.73	TD at 7371.57