

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_BROWN 3 PAD**

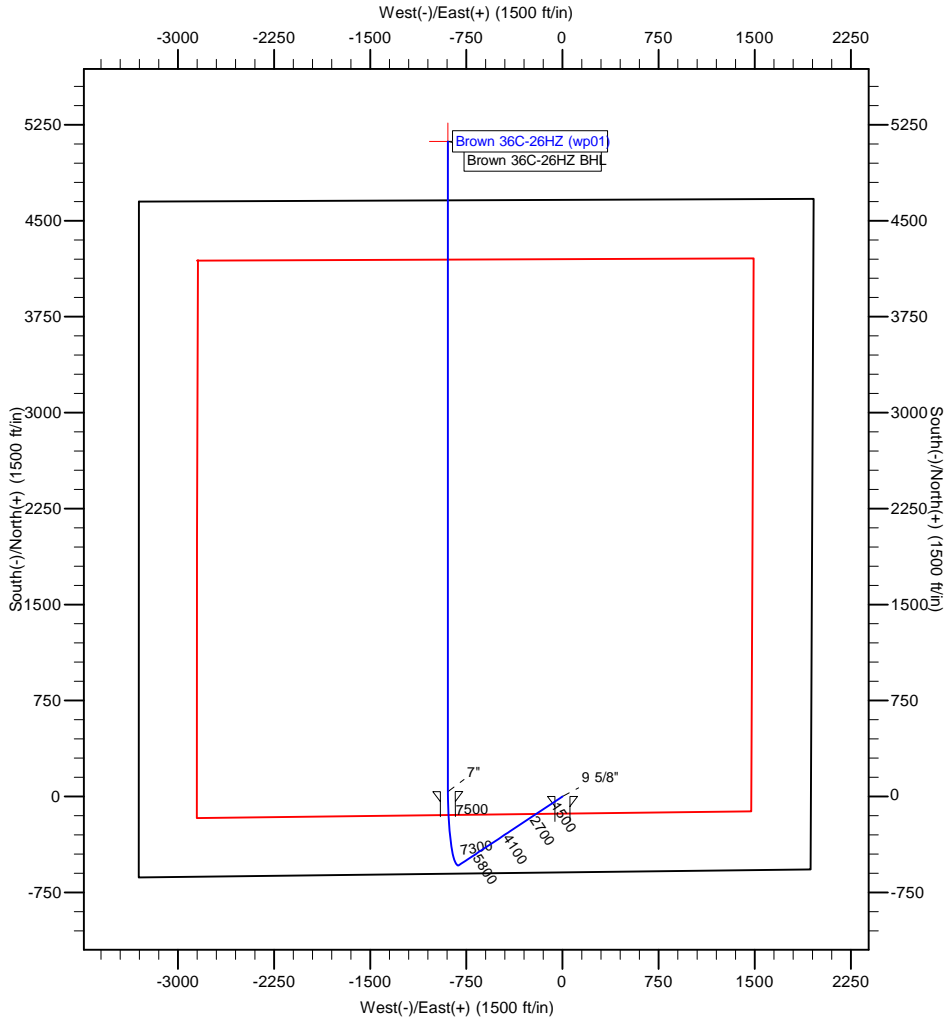
**Brown 36C-26HZ**

**Brown 36C-26HZ**

**Plan: Brown 36C-26HZ (wp01)**

## **Standard Planning Report**

**19 January, 2012**



**Azimuths to True North**  
 Magnetic North: 8.75°  
 Magnetic Field Strength: 52951.7snT  
 Dip Angle: 66.85°  
 Date: 1/18/2012  
 Model: IGRF2010



**Project: COLORADO NORTHERN ZONE - 83**  
**Site: WELD\_BROWN 3 PAD**  
**Well: Brown 36C-26HZ**  
**Wellbore: Brown 36C-26HZ**  
**Section:**  
**SHL:**  
**Design: Brown 36C-26HZ (wp01)**  
**Latitude: 40.176193**  
**Longitude: -104.741939**  
**GL: 5055.00**  
**KB: gl + rkb @ 5072.00ft**

**WELL DETAILS: Brown 36C-26HZ**

+N/-S	+E/-W	Northing	Ground Level: Easting	5055.00 Latitude	Longitude	Slot
0.00	0.00	1307935.38	3211822.24	40.176193	-104.741939	

**SECTION DETAILS**

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00
1323.42	9.47	236.39	1321.27	-21.61	-32.50	2.00	236.39	-15.69
6973.04	9.47	236.39	6893.92	-536.12	-806.47	0.00	0.00	-389.29
7928.83	90.36	359.98	7513.00	38.00	-893.22	10.00	123.18	191.19
7930.14	90.37	359.98	7512.99	39.30	-893.22	1.00	22.50	192.47
13010.24	90.37	359.98	7480.00	5119.31	-894.55	0.00	0.00	5196.87

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

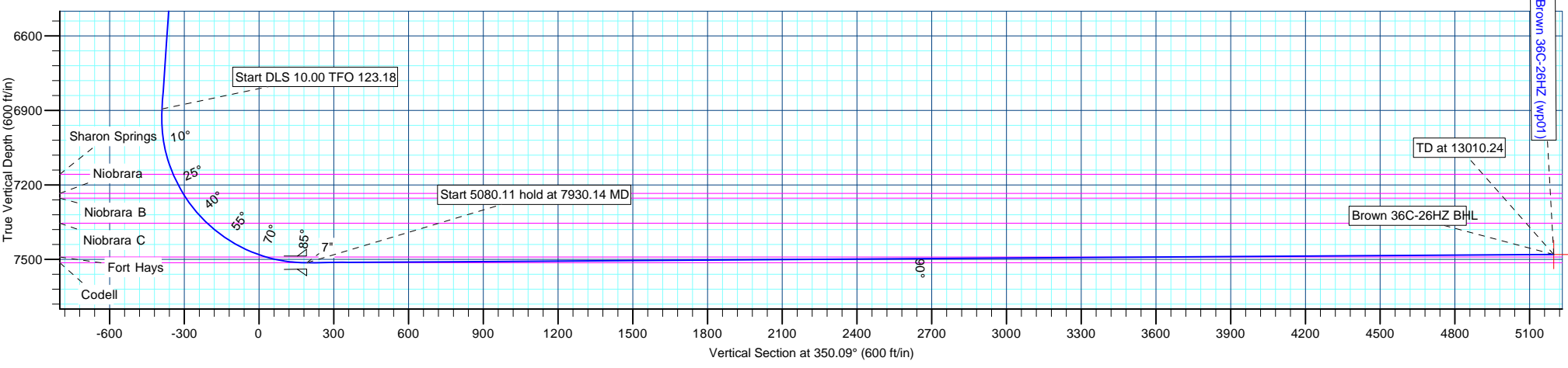
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Brown 36C-26HZ BHL	7480.00	5119.31	-894.55	40.190246	-104.745141	Point

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
706.00	706.00	Fox Hills
4161.00	4202.37	Parkman
4606.00	4653.52	Sussex
5176.00	5231.39	Shannon
7157.00	7244.00	Sharon Springs
7234.00	7330.74	Niobrara
7253.00	7353.28	Niobrara B
7354.00	7485.58	Niobrara C
7490.00	7761.48	Fort Hays
7513.00	7928.83	Codell

**CASING DETAILS**

TVD	MD	Name	Size
700.00	700.00	9 5/8"	9-5/8
7513.00	7928.83	7"	7



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Brown 36C-26HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 5072.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 5072.00ft
<b>Site:</b>	WELD_BROWN 3 PAD	<b>North Reference:</b>	True
<b>Well:</b>	Brown 36C-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Brown 36C-26HZ		
<b>Design:</b>	Brown 36C-26HZ (wp01)		

<b>Project</b>	COLORADO NORTHERN ZONE - 83		
<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		

<b>Site</b>	WELD_BROWN 3 PAD				
<b>Site Position:</b>		<b>Northing:</b>	1,307,936.02 usft	<b>Latitude:</b>	40.176194
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,211,852.14 usft	<b>Longitude:</b>	-104.741832
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.49 °

<b>Well</b>	Brown 36C-26HZ					
<b>Well Position</b>	<b>+N/-S</b>	-0.39 ft	<b>Northing:</b>	1,307,935.38 usft	<b>Latitude:</b>	40.176193
	<b>+E/-W</b>	-29.90 ft	<b>Easting:</b>	3,211,822.25 usft	<b>Longitude:</b>	-104.741939
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	5,055.00 ft

<b>Wellbore</b>	Brown 36C-26HZ				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	1/18/2012	8.75	66.85	52,952

<b>Design</b>	Brown 36C-26HZ (wp01)			
<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	350.09

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,323.42	9.47	236.39	1,321.27	-21.61	-32.50	2.00	2.00	0.00	236.39	
6,973.04	9.47	236.39	6,893.92	-536.12	-806.47	0.00	0.00	0.00	0.00	
7,928.83	90.36	359.98	7,513.00	38.00	-893.22	10.00	8.46	12.93	123.18	
7,930.14	90.37	359.98	7,512.99	39.30	-893.22	1.00	0.92	0.38	22.50	
13,010.24	90.37	359.98	7,480.00	5,119.31	-894.55	0.00	0.00	0.00	0.00	Brown 36C-26HZ BHI

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Brown 36C-26HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 5072.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 5072.00ft
<b>Site:</b>	WELD_BROWN 3 PAD	<b>North Reference:</b>	True
<b>Well:</b>	Brown 36C-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Brown 36C-26HZ		
<b>Design:</b>	Brown 36C-26HZ (wp01)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
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	
<b>9 5/8"</b>										
706.00	0.00	0.00	706.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Fox Hills</b>										
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	1.00	236.39	900.00	-0.24	-0.36	-0.18	2.00	2.00	0.00	
1,000.00	3.00	236.39	999.93	-2.17	-3.27	-1.58	2.00	2.00	0.00	
1,100.00	5.00	236.39	1,099.68	-6.04	-9.08	-4.38	2.00	2.00	0.00	
1,200.00	7.00	236.39	1,199.13	-11.82	-17.78	-8.58	2.00	2.00	0.00	
1,300.00	9.00	236.39	1,298.15	-19.53	-29.37	-14.18	2.00	2.00	0.00	
1,323.42	9.47	236.39	1,321.27	-21.61	-32.50	-15.69	2.00	2.00	0.00	
1,400.00	9.47	236.39	1,396.80	-28.58	-42.99	-20.75	0.00	0.00	0.00	
1,500.00	9.47	236.39	1,495.44	-37.69	-56.69	-27.37	0.00	0.00	0.00	
1,600.00	9.47	236.39	1,594.08	-46.79	-70.39	-33.98	0.00	0.00	0.00	
1,700.00	9.47	236.39	1,692.72	-55.90	-84.09	-40.59	0.00	0.00	0.00	
1,800.00	9.47	236.39	1,791.36	-65.01	-97.79	-47.21	0.00	0.00	0.00	
1,900.00	9.47	236.39	1,889.99	-74.12	-111.49	-53.82	0.00	0.00	0.00	
2,000.00	9.47	236.39	1,988.63	-83.22	-125.19	-60.43	0.00	0.00	0.00	
2,100.00	9.47	236.39	2,087.27	-92.33	-138.89	-67.04	0.00	0.00	0.00	
2,200.00	9.47	236.39	2,185.91	-101.44	-152.59	-73.66	0.00	0.00	0.00	
2,300.00	9.47	236.39	2,284.54	-110.54	-166.29	-80.27	0.00	0.00	0.00	
2,400.00	9.47	236.39	2,383.18	-119.65	-179.99	-86.88	0.00	0.00	0.00	
2,500.00	9.47	236.39	2,481.82	-128.76	-193.69	-93.50	0.00	0.00	0.00	
2,600.00	9.47	236.39	2,580.46	-137.86	-207.39	-100.11	0.00	0.00	0.00	
2,700.00	9.47	236.39	2,679.09	-146.97	-221.09	-106.72	0.00	0.00	0.00	
2,800.00	9.47	236.39	2,777.73	-156.08	-234.78	-113.33	0.00	0.00	0.00	
2,900.00	9.47	236.39	2,876.37	-165.19	-248.48	-119.95	0.00	0.00	0.00	
3,000.00	9.47	236.39	2,975.01	-174.29	-262.18	-126.56	0.00	0.00	0.00	
3,100.00	9.47	236.39	3,073.65	-183.40	-275.88	-133.17	0.00	0.00	0.00	
3,200.00	9.47	236.39	3,172.28	-192.51	-289.58	-139.79	0.00	0.00	0.00	
3,300.00	9.47	236.39	3,270.92	-201.61	-303.28	-146.40	0.00	0.00	0.00	
3,400.00	9.47	236.39	3,369.56	-210.72	-316.98	-153.01	0.00	0.00	0.00	
3,500.00	9.47	236.39	3,468.20	-219.83	-330.68	-159.63	0.00	0.00	0.00	
3,600.00	9.47	236.39	3,566.83	-228.93	-344.38	-166.24	0.00	0.00	0.00	
3,700.00	9.47	236.39	3,665.47	-238.04	-358.08	-172.85	0.00	0.00	0.00	
3,800.00	9.47	236.39	3,764.11	-247.15	-371.78	-179.46	0.00	0.00	0.00	
3,900.00	9.47	236.39	3,862.75	-256.26	-385.48	-186.08	0.00	0.00	0.00	
4,000.00	9.47	236.39	3,961.38	-265.36	-399.18	-192.69	0.00	0.00	0.00	
4,100.00	9.47	236.39	4,060.02	-274.47	-412.88	-199.30	0.00	0.00	0.00	
4,200.00	9.47	236.39	4,158.66	-283.58	-426.58	-205.92	0.00	0.00	0.00	
4,202.37	9.47	236.39	4,161.00	-283.79	-426.90	-206.07	0.00	0.00	0.00	
<b>Parkman</b>										
4,300.00	9.47	236.39	4,257.30	-292.68	-440.28	-212.53	0.00	0.00	0.00	
4,400.00	9.47	236.39	4,355.93	-301.79	-453.98	-219.14	0.00	0.00	0.00	
4,500.00	9.47	236.39	4,454.57	-310.90	-467.67	-225.75	0.00	0.00	0.00	

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## Planning Report

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<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 5072.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 5072.00ft
<b>Site:</b>	WELD_BROWN 3 PAD	<b>North Reference:</b>	True
<b>Well:</b>	Brown 36C-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Brown 36C-26HZ		
<b>Design:</b>	Brown 36C-26HZ (wp01)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,600.00	9.47	236.39	4,553.21	-320.00	-481.37	-232.37	0.00	0.00	0.00	
4,653.52	9.47	236.39	4,606.00	-324.88	-488.71	-235.91	0.00	0.00	0.00	
<b>Sussex</b>										
4,700.00	9.47	236.39	4,651.85	-329.11	-495.07	-238.98	0.00	0.00	0.00	
4,800.00	9.47	236.39	4,750.49	-338.22	-508.77	-245.59	0.00	0.00	0.00	
4,900.00	9.47	236.39	4,849.12	-347.32	-522.47	-252.21	0.00	0.00	0.00	
5,000.00	9.47	236.39	4,947.76	-356.43	-536.17	-258.82	0.00	0.00	0.00	
5,100.00	9.47	236.39	5,046.40	-365.54	-549.87	-265.43	0.00	0.00	0.00	
5,200.00	9.47	236.39	5,145.04	-374.65	-563.57	-272.04	0.00	0.00	0.00	
5,231.39	9.47	236.39	5,176.00	-377.50	-567.87	-274.12	0.00	0.00	0.00	
<b>Shannon</b>										
5,300.00	9.47	236.39	5,243.67	-383.75	-577.27	-278.66	0.00	0.00	0.00	
5,400.00	9.47	236.39	5,342.31	-392.86	-590.97	-285.27	0.00	0.00	0.00	
5,500.00	9.47	236.39	5,440.95	-401.97	-604.67	-291.88	0.00	0.00	0.00	
5,600.00	9.47	236.39	5,539.59	-411.07	-618.37	-298.50	0.00	0.00	0.00	
5,700.00	9.47	236.39	5,638.22	-420.18	-632.07	-305.11	0.00	0.00	0.00	
5,800.00	9.47	236.39	5,736.86	-429.29	-645.77	-311.72	0.00	0.00	0.00	
5,900.00	9.47	236.39	5,835.50	-438.39	-659.47	-318.34	0.00	0.00	0.00	
6,000.00	9.47	236.39	5,934.14	-447.50	-673.17	-324.95	0.00	0.00	0.00	
6,100.00	9.47	236.39	6,032.78	-456.61	-686.87	-331.56	0.00	0.00	0.00	
6,200.00	9.47	236.39	6,131.41	-465.72	-700.56	-338.17	0.00	0.00	0.00	
6,300.00	9.47	236.39	6,230.05	-474.82	-714.26	-344.79	0.00	0.00	0.00	
6,400.00	9.47	236.39	6,328.69	-483.93	-727.96	-351.40	0.00	0.00	0.00	
6,500.00	9.47	236.39	6,427.33	-493.04	-741.66	-358.01	0.00	0.00	0.00	
6,600.00	9.47	236.39	6,525.96	-502.14	-755.36	-364.63	0.00	0.00	0.00	
6,700.00	9.47	236.39	6,624.60	-511.25	-769.06	-371.24	0.00	0.00	0.00	
6,800.00	9.47	236.39	6,723.24	-520.36	-782.76	-377.85	0.00	0.00	0.00	
6,900.00	9.47	236.39	6,821.88	-529.46	-796.46	-384.46	0.00	0.00	0.00	
6,973.04	9.47	236.39	6,893.92	-536.12	-806.47	-389.29	0.00	0.00	0.00	
7,000.00	8.30	252.21	6,920.56	-537.94	-810.17	-390.45	10.00	-4.32	58.68	
7,100.00	10.87	313.57	7,019.39	-533.63	-823.91	-383.85	10.00	2.57	61.37	
7,200.00	19.14	336.32	7,115.98	-512.07	-837.36	-360.29	10.00	8.26	22.74	
7,244.00	23.20	341.01	7,157.00	-497.26	-843.08	-344.72	10.00	9.24	10.66	
<b>Sharon Springs</b>										
7,300.00	28.51	345.10	7,207.38	-473.89	-850.11	-320.49	10.00	9.48	7.32	
7,330.74	31.47	346.80	7,234.00	-458.99	-853.83	-305.17	10.00	9.61	5.52	
<b>Niobrara</b>										
7,353.28	33.65	347.87	7,253.00	-447.15	-856.49	-293.05	10.00	9.67	4.76	
<b>Niobrara B</b>										
7,400.00	38.19	349.75	7,290.83	-420.28	-861.78	-265.66	10.00	9.72	4.02	
7,485.58	46.56	352.37	7,354.00	-363.34	-870.63	-208.06	10.00	9.79	3.06	
<b>Niobrara C</b>										
7,500.00	47.98	352.73	7,363.78	-352.84	-872.00	-197.47	10.00	9.82	2.55	
7,600.00	57.83	354.91	7,424.03	-273.64	-880.47	-117.99	10.00	9.85	2.18	
7,700.00	67.71	356.66	7,469.74	-185.07	-886.93	-29.64	10.00	9.88	1.75	
7,761.48	73.79	357.61	7,490.00	-127.13	-889.82	27.93	10.00	9.89	1.55	
<b>Fort Hays</b>										
7,762.57	73.90	357.63	7,490.30	-126.09	-889.86	28.97	10.00	9.90	1.49	
<b>Brown 36C-26HZ heel</b>										
7,800.00	77.60	358.18	7,499.52	-89.84	-891.19	64.91	10.00	9.90	1.47	
7,900.00	87.50	359.58	7,512.46	9.18	-893.11	162.77	10.00	9.90	1.40	
7,928.83	90.36	359.98	7,513.00	38.00	-893.22	191.18	10.00	9.90	1.38	
<b>Codell - 7"</b>										

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Brown 36C-26HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 5072.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 5072.00ft
<b>Site:</b>	WELD_BROWN 3 PAD	<b>North Reference:</b>	True
<b>Well:</b>	Brown 36C-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Brown 36C-26HZ		
<b>Design:</b>	Brown 36C-26HZ (wp01)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,930.14	90.37	359.98	7,512.99	39.30	-893.22	192.47	1.01	0.94	0.38
8,000.00	90.37	359.98	7,512.54	109.17	-893.24	261.29	0.00	0.00	0.00
8,100.00	90.37	359.98	7,511.89	209.16	-893.26	359.80	0.00	0.00	0.00
8,200.00	90.37	359.98	7,511.24	309.16	-893.29	458.31	0.00	0.00	0.00
8,300.00	90.37	359.98	7,510.59	409.16	-893.32	556.82	0.00	0.00	0.00
8,400.00	90.37	359.98	7,509.94	509.16	-893.34	655.33	0.00	0.00	0.00
8,500.00	90.37	359.98	7,509.29	609.16	-893.37	753.84	0.00	0.00	0.00
8,600.00	90.37	359.98	7,508.64	709.15	-893.40	852.35	0.00	0.00	0.00
8,700.00	90.37	359.98	7,507.99	809.15	-893.42	950.86	0.00	0.00	0.00
8,800.00	90.37	359.98	7,507.34	909.15	-893.45	1,049.37	0.00	0.00	0.00
8,900.00	90.37	359.98	7,506.69	1,009.15	-893.47	1,147.88	0.00	0.00	0.00
9,000.00	90.37	359.98	7,506.04	1,109.15	-893.50	1,246.39	0.00	0.00	0.00
9,100.00	90.37	359.98	7,505.39	1,209.14	-893.53	1,344.90	0.00	0.00	0.00
9,200.00	90.37	359.98	7,504.74	1,309.14	-893.55	1,443.41	0.00	0.00	0.00
9,300.00	90.37	359.98	7,504.10	1,409.14	-893.58	1,541.92	0.00	0.00	0.00
9,400.00	90.37	359.98	7,503.45	1,509.14	-893.61	1,640.43	0.00	0.00	0.00
9,500.00	90.37	359.98	7,502.80	1,609.13	-893.63	1,738.94	0.00	0.00	0.00
9,600.00	90.37	359.98	7,502.15	1,709.13	-893.66	1,837.45	0.00	0.00	0.00
9,700.00	90.37	359.98	7,501.50	1,809.13	-893.68	1,935.96	0.00	0.00	0.00
9,800.00	90.37	359.98	7,500.85	1,909.13	-893.71	2,034.47	0.00	0.00	0.00
9,900.00	90.37	359.98	7,500.20	2,009.13	-893.74	2,132.98	0.00	0.00	0.00
10,000.00	90.37	359.98	7,499.55	2,109.12	-893.76	2,231.49	0.00	0.00	0.00
10,100.00	90.37	359.98	7,498.90	2,209.12	-893.79	2,330.00	0.00	0.00	0.00
10,200.00	90.37	359.98	7,498.25	2,309.12	-893.82	2,428.51	0.00	0.00	0.00
10,300.00	90.37	359.98	7,497.60	2,409.12	-893.84	2,527.02	0.00	0.00	0.00
10,400.00	90.37	359.98	7,496.95	2,509.12	-893.87	2,625.53	0.00	0.00	0.00
10,500.00	90.37	359.98	7,496.30	2,609.11	-893.89	2,724.04	0.00	0.00	0.00
10,600.00	90.37	359.98	7,495.65	2,709.11	-893.92	2,822.55	0.00	0.00	0.00
10,700.00	90.37	359.98	7,495.00	2,809.11	-893.95	2,921.06	0.00	0.00	0.00
10,800.00	90.37	359.98	7,494.35	2,909.11	-893.97	3,019.57	0.00	0.00	0.00
10,900.00	90.37	359.98	7,493.70	3,009.11	-894.00	3,118.08	0.00	0.00	0.00
11,000.00	90.37	359.98	7,493.06	3,109.10	-894.02	3,216.59	0.00	0.00	0.00
11,100.00	90.37	359.98	7,492.41	3,209.10	-894.05	3,315.10	0.00	0.00	0.00
11,200.00	90.37	359.98	7,491.76	3,309.10	-894.08	3,413.61	0.00	0.00	0.00
11,300.00	90.37	359.98	7,491.11	3,409.10	-894.10	3,512.12	0.00	0.00	0.00
11,400.00	90.37	359.98	7,490.46	3,509.09	-894.13	3,610.63	0.00	0.00	0.00
11,500.00	90.37	359.98	7,489.81	3,609.09	-894.16	3,709.14	0.00	0.00	0.00
11,600.00	90.37	359.98	7,489.16	3,709.09	-894.18	3,807.65	0.00	0.00	0.00
11,700.00	90.37	359.98	7,488.51	3,809.09	-894.21	3,906.16	0.00	0.00	0.00
11,800.00	90.37	359.98	7,487.86	3,909.09	-894.23	4,004.67	0.00	0.00	0.00
11,900.00	90.37	359.98	7,487.21	4,009.08	-894.26	4,103.18	0.00	0.00	0.00
12,000.00	90.37	359.98	7,486.56	4,109.08	-894.29	4,201.68	0.00	0.00	0.00
12,100.00	90.37	359.98	7,485.91	4,209.08	-894.31	4,300.19	0.00	0.00	0.00
12,200.00	90.37	359.98	7,485.26	4,309.08	-894.34	4,398.70	0.00	0.00	0.00
12,300.00	90.37	359.98	7,484.61	4,409.08	-894.37	4,497.21	0.00	0.00	0.00
12,400.00	90.37	359.98	7,483.96	4,509.07	-894.39	4,595.72	0.00	0.00	0.00
12,500.00	90.37	359.98	7,483.31	4,609.07	-894.42	4,694.23	0.00	0.00	0.00
12,600.00	90.37	359.98	7,482.66	4,709.07	-894.44	4,792.74	0.00	0.00	0.00
12,700.00	90.37	359.98	7,482.01	4,809.07	-894.47	4,891.25	0.00	0.00	0.00
12,800.00	90.37	359.98	7,481.37	4,909.07	-894.50	4,989.76	0.00	0.00	0.00
12,900.00	90.37	359.98	7,480.72	5,009.06	-894.52	5,088.27	0.00	0.00	0.00
13,000.00	90.37	359.98	7,480.07	5,109.06	-894.55	5,186.78	0.00	0.00	0.00
13,010.24	90.37	359.98	7,480.00	5,119.31	-894.55	5,196.87	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well Brown 36C-26HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	gl + rkb @ 5072.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	gl + rkb @ 5072.00ft
<b>Site:</b>	WELD_BROWN 3 PAD	<b>North Reference:</b>	True
<b>Well:</b>	Brown 36C-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Brown 36C-26HZ		
<b>Design:</b>	Brown 36C-26HZ (wp01)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Brown 36C-26HZ BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Brown 36C-26HZ BHL	0.00	0.00	7,480.00	5,119.31	-894.55	1,313,046.84	3,210,883.97	40.190246	-104.745141
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
700.00	700.00	9 5/8"	9-5/8	12-1/4	
7,928.83	7,513.00	7"	7	8-3/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
706.00	706.00	Fox Hills				
4,202.37	4,161.00	Parkman				
4,653.52	4,606.00	Sussex				
5,231.39	5,176.00	Shannon				
7,244.00	7,157.00	Sharon Springs				
7,330.74	7,234.00	Niobrara				
7,353.28	7,253.00	Niobrara B				
7,485.58	7,354.00	Niobrara C				
7,761.48	7,490.00	Fort Hays				
7,928.83	7,513.00	Codell				