

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BROWN 5 PAD

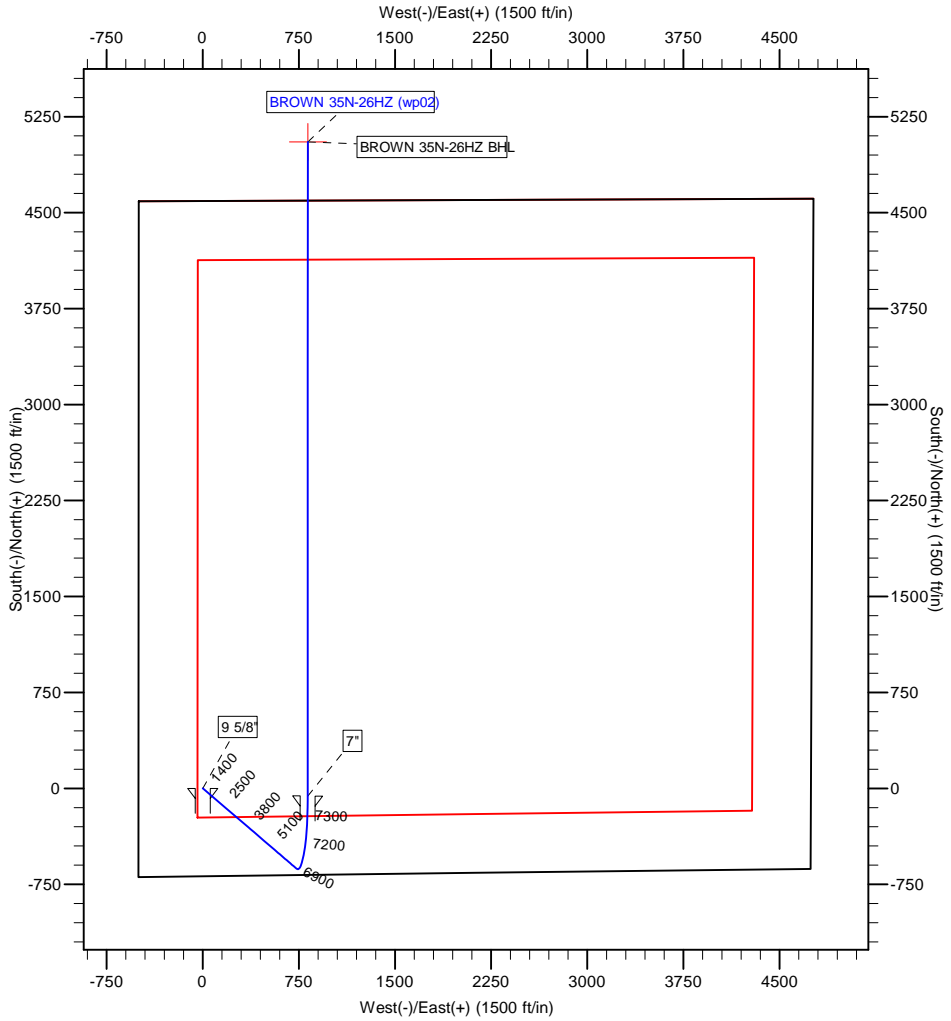
BROWN 35N-26HZ

BROWN 35N-26HZ

Plan: BROWN 35N-26HZ (wp02)

Standard Planning Report

16 December, 2011



Azimuths to True North
 Magnetic North: 8.78°
 Magnetic Field
 Strength: 52971.4snT
 Dip Angle: 66.86°
 Date: 11/8/2011
 Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83
Site: WELD_BROWN 5 PAD
Well: BROWN 35N-26HZ
Wellbore: BROWN 35N-26HZ
Section:
SHL:
Design: BROWN 35N-26HZ (wp02)
Latitude: 40.176362
Longitude: -104.751976
GL: 5020.00
KB: GL + 25' RKB @ 5045.00ft

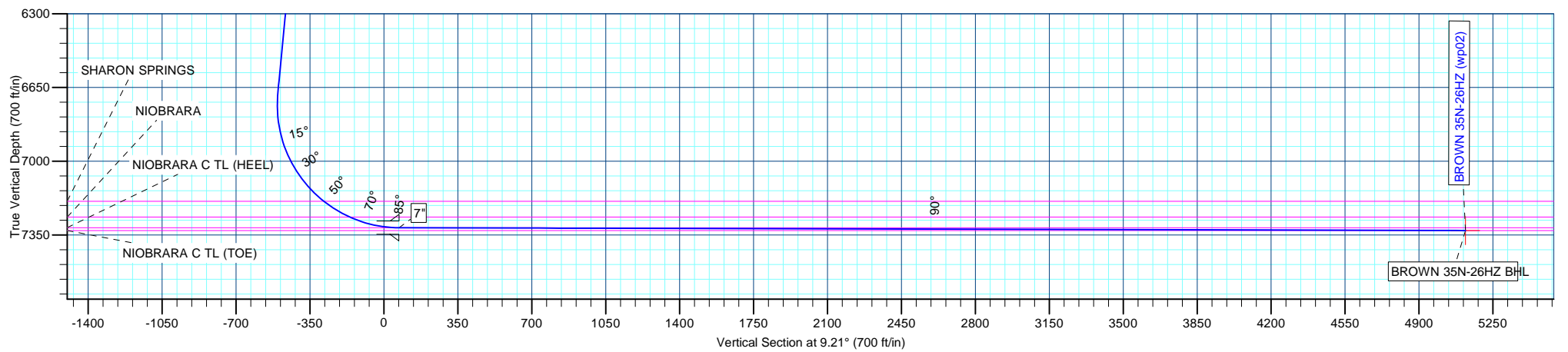
WELL DETAILS: BROWN 35N-26HZ						
+N-S	+E-W	Northing	Ground Level: Easting	5020.00	Latitude	Longitude
0.00	0.00	1307973.14	3209017.19	40.176362	-104.751976	Slot

SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
1613.33	10.27	130.62	1610.59	-29.86	34.81	2.00	130.62	-23.91	
6767.76	10.27	130.62	6682.49	-628.00	732.09	0.00	0.00	-502.72	
7732.91	89.85	0.00	7316.00	-60.40	819.00	10.00	-130.18	71.47	
7733.34	89.85	0.00	7316.00	-59.97	819.00	1.00	1.33	71.90	
12846.68	89.85	0.00	7329.00	5053.35	819.40	0.00	0.00	5119.36	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)							
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape	Point
BROWN 35N-26HZ BHL	7329.00	5053.35	819.40	40.190234	-104.749043		

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3388.00	3419.66	PARKMAN
4576.00	4626.99	SUSSEX
7191.00	7346.82	SHARON SPRINGS
7265.00	7489.68	NIOBRARA
7316.00	7732.91	NIOBRARA C TL (HEEL)
7329.00	12846.68	NIOBRARA C TL (TOE)

CASING DETAILS			
TVD	MD	Name	Size
700.00	700.00	9 5/8"	9-5/8
7316.00	7732.91	7"	7"



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well BROWN 35N-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + 25' RKB @ 5045.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + 25' RKB @ 5045.00ft
Site:	WELD_BROWN 5 PAD	North Reference:	True
Well:	BROWN 35N-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	BROWN 35N-26HZ		
Design:	BROWN 35N-26HZ (wp02)		

Project COLORADO NORTHERN ZONE - 83			
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site WELD_BROWN 5 PAD			
Site Position:		Northing:	1,307,923.32 usft
From:	Lat/Long	Easting:	3,208,983.52 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	40.176226
		Longitude:	-104.752098
		Grid Convergence:	0.48 °

Well BROWN 35N-26HZ			
Well Position	+N/-S	49.53 ft	Northing:
	+E/-W	34.09 ft	1,307,973.14 usft
			Latitude:
			40.176362
			Longitude:
			-104.751976
Position Uncertainty		0.00 ft	Wellhead Elevation:
			Ground Level:
			5,020.00 ft

Wellbore BROWN 35N-26HZ					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/8/2011	8.78	66.86	52,971

Design BROWN 35N-26HZ (wp02)			
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	8.00	0.00	0.00
			Direction (°) 9.21

Plan Sections										
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	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,613.33	10.27	130.62	1,610.59	-29.86	34.81	2.00	2.00	0.00	130.62	
6,767.76	10.27	130.62	6,682.49	-628.00	732.09	0.00	0.00	0.00	0.00	
7,732.91	89.85	0.00	7,316.00	-60.40	819.00	10.00	8.25	-13.53	-130.18	
7,733.34	89.85	0.00	7,316.00	-59.97	819.00	1.00	1.00	0.02	1.33	
12,846.68	89.85	0.00	7,329.00	5,053.36	819.40	0.00	0.00	0.00	0.00	BROWN 35N-26HZ B

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + 25' RKB @ 5045.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + 25' RKB @ 5045.00ft
Site:	WELD_BROWN 5 PAD	North Reference:	True
Well:	BROWN 35N-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	BROWN 35N-26HZ		
Design:	BROWN 35N-26HZ (wp02)		

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	
9 5/8"										
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	
Start Build 2.00										
1,200.00	2.00	130.62	1,199.98	-1.14	1.32	-0.91	2.00	2.00	0.00	
1,300.00	4.00	130.62	1,299.84	-4.54	5.30	-3.64	2.00	2.00	0.00	
1,400.00	6.00	130.62	1,399.45	-10.22	11.91	-8.18	2.00	2.00	0.00	
1,500.00	8.00	130.62	1,498.70	-18.15	21.16	-14.53	2.00	2.00	0.00	
1,600.00	10.00	130.62	1,597.47	-28.34	33.03	-22.68	2.00	2.00	0.00	
1,613.33	10.27	130.62	1,610.59	-29.86	34.81	-23.91	2.00	2.00	0.00	
Start 5154.43 hold at 1613.33 MD										
1,700.00	10.27	130.62	1,695.87	-39.92	46.54	-31.96	0.00	0.00	0.00	
1,800.00	10.27	130.62	1,794.27	-51.53	60.07	-41.25	0.00	0.00	0.00	
1,900.00	10.27	130.62	1,892.67	-63.13	73.59	-50.54	0.00	0.00	0.00	
2,000.00	10.27	130.62	1,991.07	-74.73	87.12	-59.83	0.00	0.00	0.00	
2,100.00	10.27	130.62	2,089.47	-86.34	100.65	-69.12	0.00	0.00	0.00	
2,200.00	10.27	130.62	2,187.86	-97.94	114.18	-78.40	0.00	0.00	0.00	
2,300.00	10.27	130.62	2,286.26	-109.55	127.70	-87.69	0.00	0.00	0.00	
2,400.00	10.27	130.62	2,384.66	-121.15	141.23	-96.98	0.00	0.00	0.00	
2,500.00	10.27	130.62	2,483.06	-132.76	154.76	-106.27	0.00	0.00	0.00	
2,600.00	10.27	130.62	2,581.46	-144.36	168.29	-115.56	0.00	0.00	0.00	
2,700.00	10.27	130.62	2,679.86	-155.96	181.82	-124.85	0.00	0.00	0.00	
2,800.00	10.27	130.62	2,778.26	-167.57	195.34	-134.14	0.00	0.00	0.00	
2,900.00	10.27	130.62	2,876.66	-179.17	208.87	-143.43	0.00	0.00	0.00	
3,000.00	10.27	130.62	2,975.06	-190.78	222.40	-152.72	0.00	0.00	0.00	
3,100.00	10.27	130.62	3,073.45	-202.38	235.93	-162.01	0.00	0.00	0.00	
3,200.00	10.27	130.62	3,171.85	-213.98	249.45	-171.30	0.00	0.00	0.00	
3,300.00	10.27	130.62	3,270.25	-225.59	262.98	-180.59	0.00	0.00	0.00	
3,400.00	10.27	130.62	3,368.65	-237.19	276.51	-189.88	0.00	0.00	0.00	
3,419.66	10.27	130.62	3,388.00	-239.48	279.17	-191.70	0.00	0.00	0.00	
PARKMAN										
3,500.00	10.27	130.62	3,467.05	-248.80	290.04	-199.17	0.00	0.00	0.00	
3,600.00	10.27	130.62	3,565.45	-260.40	303.56	-208.46	0.00	0.00	0.00	
3,700.00	10.27	130.62	3,663.85	-272.01	317.09	-217.75	0.00	0.00	0.00	
3,800.00	10.27	130.62	3,762.25	-283.61	330.62	-227.04	0.00	0.00	0.00	
3,900.00	10.27	130.62	3,860.65	-295.21	344.15	-236.32	0.00	0.00	0.00	
4,000.00	10.27	130.62	3,959.04	-306.82	357.67	-245.61	0.00	0.00	0.00	
4,100.00	10.27	130.62	4,057.44	-318.42	371.20	-254.90	0.00	0.00	0.00	
4,200.00	10.27	130.62	4,155.84	-330.03	384.73	-264.19	0.00	0.00	0.00	
4,300.00	10.27	130.62	4,254.24	-341.63	398.26	-273.48	0.00	0.00	0.00	
4,400.00	10.27	130.62	4,352.64	-353.24	411.79	-282.77	0.00	0.00	0.00	
4,500.00	10.27	130.62	4,451.04	-364.84	425.31	-292.06	0.00	0.00	0.00	
4,600.00	10.27	130.62	4,549.44	-376.44	438.84	-301.35	0.00	0.00	0.00	
4,626.99	10.27	130.62	4,576.00	-379.58	442.49	-303.86	0.00	0.00	0.00	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well BROWN 35N-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + 25' RKB @ 5045.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + 25' RKB @ 5045.00ft
Site:	WELD_BROWN 5 PAD	North Reference:	True
Well:	BROWN 35N-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	BROWN 35N-26HZ		
Design:	BROWN 35N-26HZ (wp02)		

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)
SUSSEX									
4,700.00	10.27	130.62	4,647.84	-388.05	452.37	-310.64	0.00	0.00	0.00
4,800.00	10.27	130.62	4,746.24	-399.65	465.90	-319.93	0.00	0.00	0.00
4,900.00	10.27	130.62	4,844.63	-411.26	479.42	-329.22	0.00	0.00	0.00
5,000.00	10.27	130.62	4,943.03	-422.86	492.95	-338.51	0.00	0.00	0.00
5,100.00	10.27	130.62	5,041.43	-434.47	506.48	-347.80	0.00	0.00	0.00
5,200.00	10.27	130.62	5,139.83	-446.07	520.01	-357.09	0.00	0.00	0.00
5,300.00	10.27	130.62	5,238.23	-457.67	533.53	-366.38	0.00	0.00	0.00
5,400.00	10.27	130.62	5,336.63	-469.28	547.06	-375.67	0.00	0.00	0.00
5,500.00	10.27	130.62	5,435.03	-480.88	560.59	-384.95	0.00	0.00	0.00
5,600.00	10.27	130.62	5,533.43	-492.49	574.12	-394.24	0.00	0.00	0.00
5,700.00	10.27	130.62	5,631.83	-504.09	587.65	-403.53	0.00	0.00	0.00
5,800.00	10.27	130.62	5,730.22	-515.70	601.17	-412.82	0.00	0.00	0.00
5,900.00	10.27	130.62	5,828.62	-527.30	614.70	-422.11	0.00	0.00	0.00
6,000.00	10.27	130.62	5,927.02	-538.90	628.23	-431.40	0.00	0.00	0.00
6,100.00	10.27	130.62	6,025.42	-550.51	641.76	-440.69	0.00	0.00	0.00
6,200.00	10.27	130.62	6,123.82	-562.11	655.28	-449.98	0.00	0.00	0.00
6,300.00	10.27	130.62	6,222.22	-573.72	668.81	-459.27	0.00	0.00	0.00
6,400.00	10.27	130.62	6,320.62	-585.32	682.34	-468.56	0.00	0.00	0.00
6,500.00	10.27	130.62	6,419.02	-596.92	695.87	-477.85	0.00	0.00	0.00
6,600.00	10.27	130.62	6,517.42	-608.53	709.39	-487.14	0.00	0.00	0.00
6,700.00	10.27	130.62	6,615.81	-620.13	722.92	-496.43	0.00	0.00	0.00
6,767.76	10.27	130.62	6,682.49	-628.00	732.09	-502.72	0.00	0.00	0.00
Start DLS 10.00 TFO -130.18									
6,800.00	8.55	113.82	6,714.30	-630.83	736.46	-504.82	10.00	-5.34	-52.13
6,900.00	10.20	49.81	6,813.21	-628.12	750.05	-499.96	10.00	1.65	-64.01
7,000.00	18.27	24.59	6,910.14	-608.10	763.37	-478.08	10.00	8.07	-25.22
7,100.00	27.61	15.22	7,002.17	-571.40	776.01	-439.83	10.00	9.34	-9.37
7,200.00	37.27	10.39	7,086.48	-519.13	787.58	-386.37	10.00	9.67	-4.83
7,300.00	47.06	7.33	7,160.51	-452.87	797.74	-319.35	10.00	9.79	-3.06
7,346.82	51.67	6.22	7,191.00	-417.59	801.92	-283.86	10.00	9.84	-2.37
SHARON SPRINGS									
7,400.00	56.91	5.12	7,222.03	-374.64	806.17	-240.78	10.00	9.86	-2.07
7,489.68	65.77	3.53	7,265.00	-296.26	812.06	-162.46	10.00	9.88	-1.78
NIORRARA									
7,500.00	66.79	3.36	7,269.15	-286.82	812.63	-153.06	10.00	9.89	-1.62
7,600.00	76.69	1.85	7,300.45	-192.08	816.90	-58.85	10.00	9.90	-1.51
7,700.00	86.59	0.45	7,314.98	-93.29	818.87	38.98	10.00	9.90	-1.39
7,732.91	89.85	0.00	7,316.00	-60.40	819.00	71.47	10.00	9.91	-1.36
NIORRARA C TL (HEEL) - 7"									
7,733.34	89.85	0.00	7,316.00	-59.97	819.00	71.90	1.01	1.01	0.02
Start 5113.34 hold at 7733.34 MD									
7,800.00	89.85	0.00	7,316.17	6.69	819.01	137.70	0.00	0.00	0.00
7,900.00	89.85	0.00	7,316.42	106.69	819.01	236.41	0.00	0.00	0.00
8,000.00	89.85	0.00	7,316.68	206.69	819.02	335.12	0.00	0.00	0.00
8,100.00	89.85	0.00	7,316.93	306.69	819.03	433.83	0.00	0.00	0.00
8,200.00	89.85	0.00	7,317.19	406.69	819.04	532.54	0.00	0.00	0.00
8,300.00	89.85	0.00	7,317.44	506.69	819.04	631.25	0.00	0.00	0.00
8,400.00	89.85	0.00	7,317.70	606.69	819.05	729.97	0.00	0.00	0.00
8,500.00	89.85	0.00	7,317.95	706.69	819.06	828.68	0.00	0.00	0.00
8,600.00	89.85	0.00	7,318.20	806.69	819.07	927.39	0.00	0.00	0.00
8,700.00	89.85	0.00	7,318.46	906.69	819.08	1,026.10	0.00	0.00	0.00
8,800.00	89.85	0.00	7,318.71	1,006.69	819.08	1,124.81	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + 25' RKB @ 5045.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + 25' RKB @ 5045.00ft
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Well:	BROWN 35N-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	BROWN 35N-26HZ		
Design:	BROWN 35N-26HZ (wp02)		

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)	
8,900.00	89.85	0.00	7,318.97	1,106.69	819.09	1,223.52	0.00	0.00	0.00	
9,000.00	89.85	0.00	7,319.22	1,206.69	819.10	1,322.24	0.00	0.00	0.00	
9,100.00	89.85	0.00	7,319.48	1,306.69	819.11	1,420.95	0.00	0.00	0.00	
9,200.00	89.85	0.00	7,319.73	1,406.69	819.11	1,519.66	0.00	0.00	0.00	
9,300.00	89.85	0.00	7,319.98	1,506.69	819.12	1,618.37	0.00	0.00	0.00	
9,400.00	89.85	0.00	7,320.24	1,606.69	819.13	1,717.08	0.00	0.00	0.00	
9,500.00	89.85	0.00	7,320.49	1,706.69	819.14	1,815.79	0.00	0.00	0.00	
9,600.00	89.85	0.00	7,320.75	1,806.69	819.15	1,914.51	0.00	0.00	0.00	
9,700.00	89.85	0.00	7,321.00	1,906.69	819.15	2,013.22	0.00	0.00	0.00	
9,800.00	89.85	0.00	7,321.26	2,006.69	819.16	2,111.93	0.00	0.00	0.00	
9,900.00	89.85	0.00	7,321.51	2,106.69	819.17	2,210.64	0.00	0.00	0.00	
10,000.00	89.85	0.00	7,321.76	2,206.69	819.18	2,309.35	0.00	0.00	0.00	
10,100.00	89.85	0.00	7,322.02	2,306.69	819.19	2,408.06	0.00	0.00	0.00	
10,200.00	89.85	0.00	7,322.27	2,406.69	819.19	2,506.78	0.00	0.00	0.00	
10,300.00	89.85	0.00	7,322.53	2,506.68	819.20	2,605.49	0.00	0.00	0.00	
10,400.00	89.85	0.00	7,322.78	2,606.68	819.21	2,704.20	0.00	0.00	0.00	
10,500.00	89.85	0.00	7,323.03	2,706.68	819.22	2,802.91	0.00	0.00	0.00	
10,600.00	89.85	0.00	7,323.29	2,806.68	819.22	2,901.62	0.00	0.00	0.00	
10,700.00	89.85	0.00	7,323.54	2,906.68	819.23	3,000.33	0.00	0.00	0.00	
10,800.00	89.85	0.00	7,323.80	3,006.68	819.24	3,099.05	0.00	0.00	0.00	
10,900.00	89.85	0.00	7,324.05	3,106.68	819.25	3,197.76	0.00	0.00	0.00	
11,000.00	89.85	0.00	7,324.31	3,206.68	819.26	3,296.47	0.00	0.00	0.00	
11,100.00	89.85	0.00	7,324.56	3,306.68	819.26	3,395.18	0.00	0.00	0.00	
11,200.00	89.85	0.00	7,324.81	3,406.68	819.27	3,493.89	0.00	0.00	0.00	
11,300.00	89.85	0.00	7,325.07	3,506.68	819.28	3,592.60	0.00	0.00	0.00	
11,400.00	89.85	0.00	7,325.32	3,606.68	819.29	3,691.32	0.00	0.00	0.00	
11,500.00	89.85	0.00	7,325.58	3,706.68	819.29	3,790.03	0.00	0.00	0.00	
11,600.00	89.85	0.00	7,325.83	3,806.68	819.30	3,888.74	0.00	0.00	0.00	
11,700.00	89.85	0.00	7,326.09	3,906.68	819.31	3,987.45	0.00	0.00	0.00	
11,800.00	89.85	0.00	7,326.34	4,006.68	819.32	4,086.16	0.00	0.00	0.00	
11,900.00	89.85	0.00	7,326.59	4,106.68	819.33	4,184.87	0.00	0.00	0.00	
12,000.00	89.85	0.00	7,326.85	4,206.68	819.33	4,283.59	0.00	0.00	0.00	
12,100.00	89.85	0.00	7,327.10	4,306.68	819.34	4,382.30	0.00	0.00	0.00	
12,200.00	89.85	0.00	7,327.36	4,406.68	819.35	4,481.01	0.00	0.00	0.00	
12,300.00	89.85	0.00	7,327.61	4,506.68	819.36	4,579.72	0.00	0.00	0.00	
12,400.00	89.85	0.00	7,327.86	4,606.68	819.37	4,678.43	0.00	0.00	0.00	
12,500.00	89.85	0.00	7,328.12	4,706.68	819.37	4,777.14	0.00	0.00	0.00	
12,600.00	89.85	0.00	7,328.37	4,806.68	819.38	4,875.86	0.00	0.00	0.00	
12,700.00	89.85	0.00	7,328.63	4,906.68	819.39	4,974.57	0.00	0.00	0.00	
12,800.00	89.85	0.00	7,328.88	5,006.68	819.40	5,073.28	0.00	0.00	0.00	
12,846.68	89.85	0.00	7,329.00	5,053.36	819.40	5,119.36	0.00	0.00	0.00	
TD at 12846.68 - BROWN 35N-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 35N-26HZ BHL	0.00	0.00	7,329.00	5,053.36	819.40	1,313,033.22	3,209,793.93	40.190234	-104.749043	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well BROWN 35N-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + 25' RKB @ 5045.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + 25' RKB @ 5045.00ft
Site:	WELD_BROWN 5 PAD	North Reference:	True
Well:	BROWN 35N-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	BROWN 35N-26HZ		
Design:	BROWN 35N-26HZ (wp02)		

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	
7,732.91	7,316.00	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,419.66	3,388.00	PARKMAN		0.00	
4,626.99	4,576.00	SUSSEX		0.00	
7,346.82	7,191.00	SHARON SPRINGS		0.00	
7,489.68	7,265.00	NIOBRARA		0.00	
7,732.91	7,316.00	NIOBRARA C TL (HEEL)		0.00	
12,846.68	7,329.00	NIOBRARA C TL (TOE)		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,100.00	1,100.00	0.00	0.00	Start Build 2.00	
1,613.33	1,610.59	-29.86	34.81	Start 5154.43 hold at 1613.33 MD	
6,767.76	6,682.49	-628.00	732.09	Start DLS 10.00 TFO -130.18	
7,733.34	7,316.00	-59.97	819.00	Start 5113.34 hold at 7733.34 MD	
12,846.68	7,329.00	5,053.36	819.40	TD at 12846.68	