

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_BROWN 16-35HZ Pad

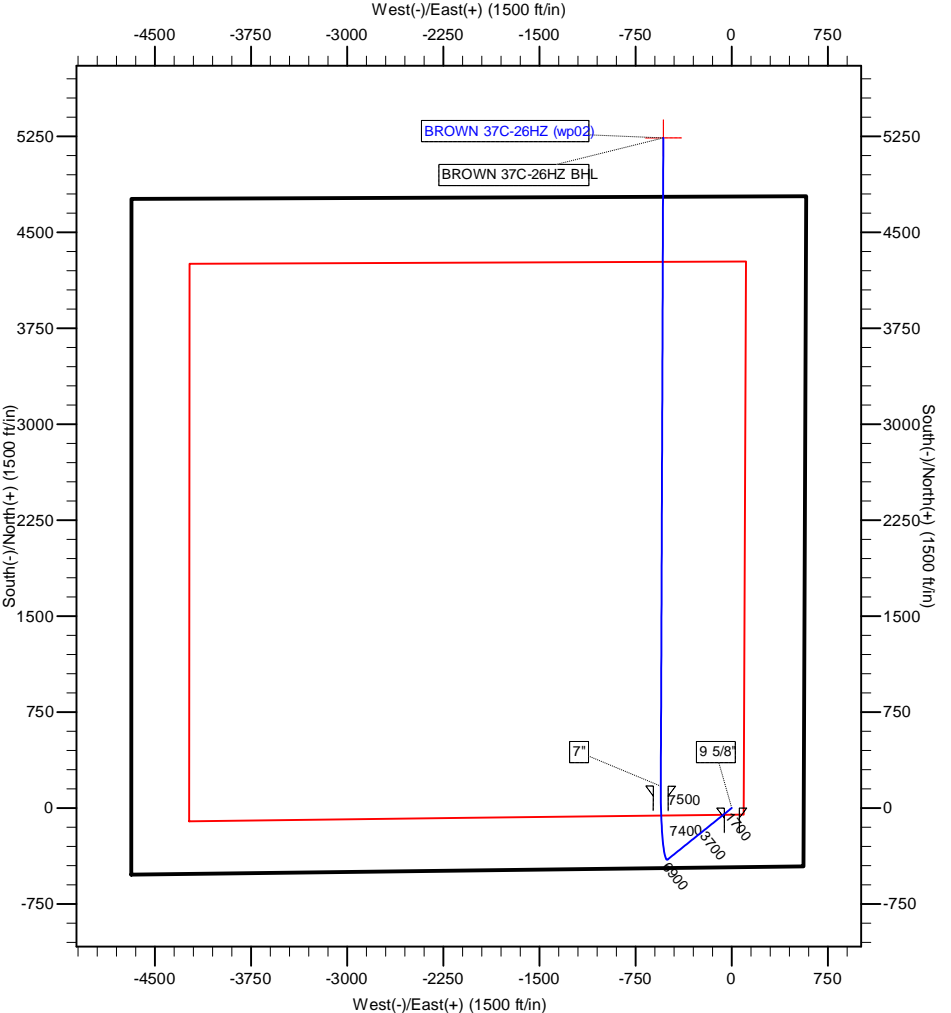
BROWN 37C-26HZ

BROWN 37C-26HZ

Plan: BROWN 37C-26HZ (wp02)

Standard Planning Report

03 January, 2012



Azimuths to True North
 Magnetic North: 8.76°
 Magnetic Field
 Strength: 52958.4snT
 Dip Angle: 66.86°
 Date: 12/27/2011
 Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_BROWN 16-35HZ Pad
 Well: BROWN 37C-26HZ
 Wellbore: BROWN 37C-26HZ
 Section:
 SHL:
 Design: BROWN 37C-26HZ (wp02)
 Latitude: 40.175888
 Longitude: -104.737007
 GL: 5053.00
 KB: GL + 17' RKB @ 5070.00ft

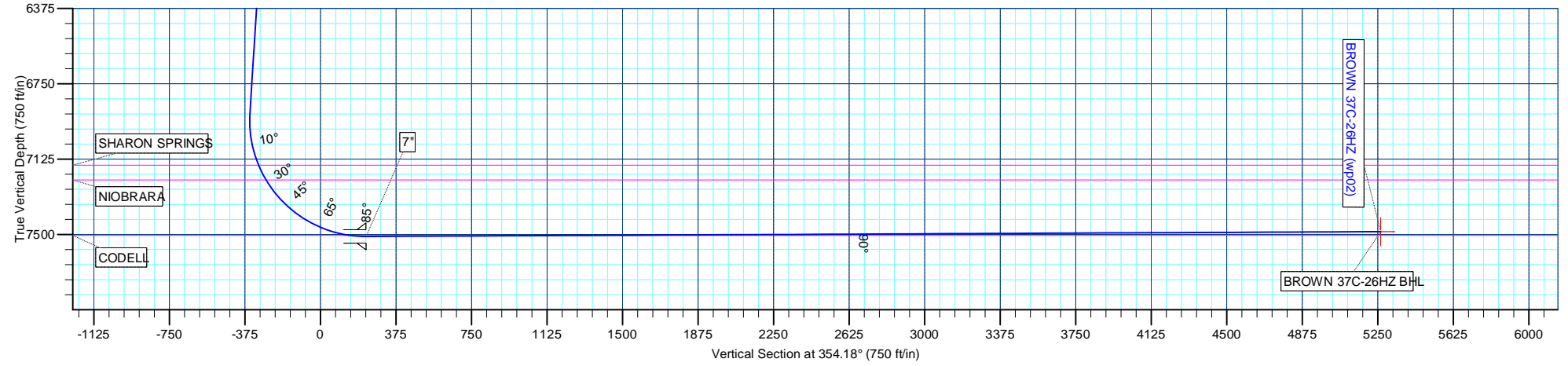
WELL DETAILS: BROWN 37C-26HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	5053.00 Latitude	Longitude	Slot
0.00	0.00	1307836.11	3213201.30	40.175888	-104.737007	

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	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	
1531.00	6.62	231.12	1530.26	-11.99	-14.87	2.00	231.12	-10.42	
6934.66	6.62	231.12	6897.89	-403.00	-499.81	0.00	0.00	-350.27	
7879.04	90.27	0.22	7510.00	171.34	-553.00	10.00	128.89	226.51	
7906.00	90.27	0.22	7509.87	198.30	-552.90	0.00	0.00	253.31	
12945.10	90.27	0.22	7486.00	5237.31	-533.60	0.00	0.00	5264.42	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
BROWN 37C-26HZ BHL	7486.00	5237.31	-533.60	40.190265	-104.738917	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3352.00	3364.96	PARKMAN
4540.00	4560.94	SUSSEX
7155.00	7198.36	SHARON SPRINGS
7229.00	7281.35	NIOBRARA
7505.00	7800.38	CODELL

CASING DETAILS			
TVD	MD	Name	Size
700.00	700.00	9 5/8"	9-5/8
7510.00	7879.04	7"	7"



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well BROWN 37C-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + 17' RKB @ 5070.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + 17' RKB @ 5070.00ft
Site:	WELD_BROWN 16-35HZ Pad	North Reference:	True
Well:	BROWN 37C-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	BROWN 37C-26HZ		
Design:	BROWN 37C-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 16-35HZ Pad				
Site Position:		Northing:	1,307,837.32 usft	Latitude:	40.175890
From:	Lat/Long	Easting:	3,213,256.34 usft	Longitude:	-104.736810
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	BROWN 37C-26HZ					
Well Position	+N/-S	-0.74 ft	Northing:	1,307,836.11 usft	Latitude:	40.175888
	+E/-W	-55.05 ft	Easting:	3,213,201.30 usft	Longitude:	-104.737007
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,053.00 ft

Wellbore	BROWN 37C-26HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/27/2011	8.76	66.86	52,958

Design	BROWN 37C-26HZ (wp02)			
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	354.18

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	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,531.00	6.62	231.12	1,530.26	-11.99	-14.87	2.00	2.00	0.00	231.12	
6,934.66	6.62	231.12	6,897.89	-403.00	-499.81	0.00	0.00	0.00	0.00	
7,879.04	90.27	0.22	7,510.00	171.34	-553.00	10.00	8.86	13.67	128.89	
7,906.00	90.27	0.22	7,509.87	198.30	-552.90	0.00	0.00	0.00	0.00	
12,945.10	90.27	0.22	7,486.00	5,237.31	-533.60	0.00	0.00	0.00	0.00	BROWN 37C-26HZ B

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + 17' RKB @ 5070.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + 17' RKB @ 5070.00ft
Site:	WELD_BROWN 16-35HZ Pad	North Reference:	True
Well:	BROWN 37C-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	BROWN 37C-26HZ		
Design:	BROWN 37C-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	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
1,300.00	2.00	231.12	1,299.98	-1.10	-1.36	-0.95	2.00	2.00	0.00	
1,400.00	4.00	231.12	1,399.84	-4.38	-5.43	-3.81	2.00	2.00	0.00	
1,500.00	6.00	231.12	1,499.45	-9.85	-12.22	-8.56	2.00	2.00	0.00	
1,531.00	6.62	231.12	1,530.26	-11.99	-14.87	-10.42	2.00	2.00	0.00	
Start 5403.66 hold at 1531.00 MD										
1,600.00	6.62	231.12	1,598.80	-16.98	-21.06	-14.76	0.00	0.00	0.00	
1,700.00	6.62	231.12	1,698.14	-24.22	-30.04	-21.05	0.00	0.00	0.00	
1,800.00	6.62	231.12	1,797.47	-31.45	-39.01	-27.34	0.00	0.00	0.00	
1,900.00	6.62	231.12	1,896.80	-38.69	-47.98	-33.63	0.00	0.00	0.00	
2,000.00	6.62	231.12	1,996.14	-45.93	-56.96	-39.92	0.00	0.00	0.00	
2,100.00	6.62	231.12	2,095.47	-53.16	-65.93	-46.21	0.00	0.00	0.00	
2,200.00	6.62	231.12	2,194.80	-60.40	-74.91	-52.50	0.00	0.00	0.00	
2,300.00	6.62	231.12	2,294.14	-67.63	-83.88	-58.78	0.00	0.00	0.00	
2,400.00	6.62	231.12	2,393.47	-74.87	-92.86	-65.07	0.00	0.00	0.00	
2,500.00	6.62	231.12	2,492.80	-82.11	-101.83	-71.36	0.00	0.00	0.00	
2,600.00	6.62	231.12	2,592.14	-89.34	-110.81	-77.65	0.00	0.00	0.00	
2,700.00	6.62	231.12	2,691.47	-96.58	-119.78	-83.94	0.00	0.00	0.00	
2,800.00	6.62	231.12	2,790.80	-103.81	-128.75	-90.23	0.00	0.00	0.00	
2,900.00	6.62	231.12	2,890.14	-111.05	-137.73	-96.52	0.00	0.00	0.00	
3,000.00	6.62	231.12	2,989.47	-118.29	-146.70	-102.81	0.00	0.00	0.00	
3,100.00	6.62	231.12	3,088.80	-125.52	-155.68	-109.10	0.00	0.00	0.00	
3,200.00	6.62	231.12	3,188.14	-132.76	-164.65	-115.39	0.00	0.00	0.00	
3,300.00	6.62	231.12	3,287.47	-139.99	-173.63	-121.68	0.00	0.00	0.00	
3,364.96	6.62	231.12	3,352.00	-144.70	-179.46	-125.76	0.00	0.00	0.00	
PARKMAN										
3,400.00	6.62	231.12	3,386.80	-147.23	-182.60	-127.97	0.00	0.00	0.00	
3,500.00	6.62	231.12	3,486.14	-154.47	-191.57	-134.26	0.00	0.00	0.00	
3,600.00	6.62	231.12	3,585.47	-161.70	-200.55	-140.54	0.00	0.00	0.00	
3,700.00	6.62	231.12	3,684.80	-168.94	-209.52	-146.83	0.00	0.00	0.00	
3,800.00	6.62	231.12	3,784.14	-176.18	-218.50	-153.12	0.00	0.00	0.00	
3,900.00	6.62	231.12	3,883.47	-183.41	-227.47	-159.41	0.00	0.00	0.00	
4,000.00	6.62	231.12	3,982.80	-190.65	-236.45	-165.70	0.00	0.00	0.00	
4,100.00	6.62	231.12	4,082.14	-197.88	-245.42	-171.99	0.00	0.00	0.00	
4,200.00	6.62	231.12	4,181.47	-205.12	-254.39	-178.28	0.00	0.00	0.00	
4,300.00	6.62	231.12	4,280.80	-212.36	-263.37	-184.57	0.00	0.00	0.00	
4,400.00	6.62	231.12	4,380.14	-219.59	-272.34	-190.86	0.00	0.00	0.00	
4,500.00	6.62	231.12	4,479.47	-226.83	-281.32	-197.15	0.00	0.00	0.00	
4,560.94	6.62	231.12	4,540.00	-231.24	-286.79	-200.98	0.00	0.00	0.00	
SUSSEX										

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Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well BROWN 37C-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + 17' RKB @ 5070.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + 17' RKB @ 5070.00ft
Site:	WELD_BROWN 16-35HZ Pad	North Reference:	True
Well:	BROWN 37C-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	BROWN 37C-26HZ		
Design:	BROWN 37C-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)
4,600.00	6.62	231.12	4,578.80	-234.06	-290.29	-203.44	0.00	0.00	0.00
4,700.00	6.62	231.12	4,678.14	-241.30	-299.27	-209.73	0.00	0.00	0.00
4,800.00	6.62	231.12	4,777.47	-248.54	-308.24	-216.02	0.00	0.00	0.00
4,900.00	6.62	231.12	4,876.80	-255.77	-317.22	-222.30	0.00	0.00	0.00
5,000.00	6.62	231.12	4,976.14	-263.01	-326.19	-228.59	0.00	0.00	0.00
5,100.00	6.62	231.12	5,075.47	-270.24	-335.16	-234.88	0.00	0.00	0.00
5,200.00	6.62	231.12	5,174.80	-277.48	-344.14	-241.17	0.00	0.00	0.00
5,300.00	6.62	231.12	5,274.14	-284.72	-353.11	-247.46	0.00	0.00	0.00
5,400.00	6.62	231.12	5,373.47	-291.95	-362.09	-253.75	0.00	0.00	0.00
5,500.00	6.62	231.12	5,472.80	-299.19	-371.06	-260.04	0.00	0.00	0.00
5,600.00	6.62	231.12	5,572.14	-306.42	-380.04	-266.33	0.00	0.00	0.00
5,700.00	6.62	231.12	5,671.47	-313.66	-389.01	-272.62	0.00	0.00	0.00
5,800.00	6.62	231.12	5,770.80	-320.90	-397.98	-278.91	0.00	0.00	0.00
5,900.00	6.62	231.12	5,870.14	-328.13	-406.96	-285.20	0.00	0.00	0.00
6,000.00	6.62	231.12	5,969.47	-335.37	-415.93	-291.49	0.00	0.00	0.00
6,100.00	6.62	231.12	6,068.80	-342.60	-424.91	-297.77	0.00	0.00	0.00
6,200.00	6.62	231.12	6,168.14	-349.84	-433.88	-304.06	0.00	0.00	0.00
6,300.00	6.62	231.12	6,267.47	-357.08	-442.86	-310.35	0.00	0.00	0.00
6,400.00	6.62	231.12	6,366.80	-364.31	-451.83	-316.64	0.00	0.00	0.00
6,500.00	6.62	231.12	6,466.13	-371.55	-460.80	-322.93	0.00	0.00	0.00
6,600.00	6.62	231.12	6,565.47	-378.78	-469.78	-329.22	0.00	0.00	0.00
6,700.00	6.62	231.12	6,664.80	-386.02	-478.75	-335.51	0.00	0.00	0.00
6,800.00	6.62	231.12	6,764.13	-393.26	-487.73	-341.80	0.00	0.00	0.00
6,900.00	6.62	231.12	6,863.47	-400.49	-496.70	-348.09	0.00	0.00	0.00
6,934.66	6.62	231.12	6,897.89	-403.00	-499.81	-350.27	0.00	0.00	0.00
Start DLS 10.00 TFO 128.89									
7,000.00	5.67	294.93	6,962.93	-404.01	-505.68	-350.67	10.00	-1.46	97.65
7,100.00	13.38	337.94	7,061.58	-391.17	-514.52	-337.01	10.00	7.72	43.01
7,198.36	22.76	347.80	7,155.00	-361.95	-522.84	-307.10	10.00	9.54	10.02
SHARON SPRINGS									
7,200.00	22.92	347.89	7,156.51	-361.33	-522.97	-306.46	10.00	9.73	5.95
7,281.35	30.89	351.53	7,229.00	-325.12	-529.38	-269.80	10.00	9.80	4.48
NIORARA									
7,300.00	32.73	352.14	7,244.85	-315.39	-530.77	-259.97	10.00	9.85	3.23
7,400.00	42.62	354.58	7,323.91	-254.75	-537.69	-198.94	10.00	9.89	2.44
7,500.00	52.55	356.24	7,391.28	-181.25	-543.51	-125.23	10.00	9.93	1.66
7,600.00	62.49	357.51	7,444.92	-97.13	-548.05	-41.08	10.00	9.94	1.27
7,700.00	72.44	358.56	7,483.20	-4.94	-551.19	50.95	10.00	9.95	1.06
7,707.93	73.23	358.64	7,485.54	2.64	-551.37	58.51	10.00	9.96	0.98
BROWN 37C-26HZ heel									
7,800.00	82.40	359.51	7,504.95	92.53	-552.81	148.08	10.00	9.96	0.94
7,800.38	82.44	359.51	7,505.00	92.90	-552.82	148.45	10.00	9.96	0.91
CODELL									
7,879.04	90.27	0.22	7,510.00	171.34	-553.00	226.51	10.00	9.96	0.90
Start 26.96 hold at 7879.04 MD - 7"									
7,900.00	90.27	0.22	7,509.90	192.30	-552.92	247.35	0.00	0.00	0.00
7,906.00	90.27	0.22	7,509.87	198.30	-552.90	253.31	0.00	0.00	0.00
Start 5039.10 hold at 7906.00 MD									
8,000.00	90.27	0.22	7,509.43	292.30	-552.54	346.79	0.00	0.00	0.00
8,100.00	90.27	0.22	7,508.96	392.30	-552.15	446.24	0.00	0.00	0.00
8,200.00	90.27	0.22	7,508.49	492.29	-551.77	545.68	0.00	0.00	0.00
8,300.00	90.27	0.22	7,508.02	592.29	-551.38	645.13	0.00	0.00	0.00
8,400.00	90.27	0.22	7,507.54	692.29	-551.00	744.57	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well BROWN 37C-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + 17' RKB @ 5070.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + 17' RKB @ 5070.00ft
Site:	WELD_BROWN 16-35HZ Pad	North Reference:	True
Well:	BROWN 37C-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	BROWN 37C-26HZ		
Design:	BROWN 37C-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)
8,500.00	90.27	0.22	7,507.07	792.29	-550.62	844.02	0.00	0.00	0.00
8,600.00	90.27	0.22	7,506.60	892.29	-550.23	943.46	0.00	0.00	0.00
8,700.00	90.27	0.22	7,506.13	992.29	-549.85	1,042.90	0.00	0.00	0.00
8,800.00	90.27	0.22	7,505.66	1,092.28	-549.46	1,142.35	0.00	0.00	0.00
8,900.00	90.27	0.22	7,505.19	1,192.28	-549.08	1,241.79	0.00	0.00	0.00
9,000.00	90.27	0.22	7,504.72	1,292.28	-548.70	1,341.24	0.00	0.00	0.00
9,100.00	90.27	0.22	7,504.25	1,392.28	-548.31	1,440.68	0.00	0.00	0.00
9,200.00	90.27	0.22	7,503.77	1,492.28	-547.93	1,540.13	0.00	0.00	0.00
9,300.00	90.27	0.22	7,503.30	1,592.27	-547.54	1,639.57	0.00	0.00	0.00
9,400.00	90.27	0.22	7,502.83	1,692.27	-547.16	1,739.01	0.00	0.00	0.00
9,500.00	90.27	0.22	7,502.36	1,792.27	-546.78	1,838.46	0.00	0.00	0.00
9,600.00	90.27	0.22	7,501.89	1,892.27	-546.39	1,937.90	0.00	0.00	0.00
9,700.00	90.27	0.22	7,501.42	1,992.27	-546.01	2,037.35	0.00	0.00	0.00
9,800.00	90.27	0.22	7,500.95	2,092.27	-545.62	2,136.79	0.00	0.00	0.00
9,900.00	90.27	0.22	7,500.48	2,192.26	-545.24	2,236.24	0.00	0.00	0.00
10,000.00	90.27	0.22	7,500.01	2,292.26	-544.86	2,335.68	0.00	0.00	0.00
10,100.00	90.27	0.22	7,499.53	2,392.26	-544.47	2,435.12	0.00	0.00	0.00
10,200.00	90.27	0.22	7,499.06	2,492.26	-544.09	2,534.57	0.00	0.00	0.00
10,300.00	90.27	0.22	7,498.59	2,592.26	-543.70	2,634.01	0.00	0.00	0.00
10,400.00	90.27	0.22	7,498.12	2,692.25	-543.32	2,733.46	0.00	0.00	0.00
10,500.00	90.27	0.22	7,497.65	2,792.25	-542.94	2,832.90	0.00	0.00	0.00
10,600.00	90.27	0.22	7,497.18	2,892.25	-542.55	2,932.35	0.00	0.00	0.00
10,700.00	90.27	0.22	7,496.71	2,992.25	-542.17	3,031.79	0.00	0.00	0.00
10,800.00	90.27	0.22	7,496.24	3,092.25	-541.78	3,131.23	0.00	0.00	0.00
10,900.00	90.27	0.22	7,495.76	3,192.24	-541.40	3,230.68	0.00	0.00	0.00
11,000.00	90.27	0.22	7,495.29	3,292.24	-541.02	3,330.12	0.00	0.00	0.00
11,100.00	90.27	0.22	7,494.82	3,392.24	-540.63	3,429.57	0.00	0.00	0.00
11,200.00	90.27	0.22	7,494.35	3,492.24	-540.25	3,529.01	0.00	0.00	0.00
11,300.00	90.27	0.22	7,493.88	3,592.24	-539.86	3,628.46	0.00	0.00	0.00
11,400.00	90.27	0.22	7,493.41	3,692.24	-539.48	3,727.90	0.00	0.00	0.00
11,500.00	90.27	0.22	7,492.94	3,792.23	-539.10	3,827.34	0.00	0.00	0.00
11,600.00	90.27	0.22	7,492.47	3,892.23	-538.71	3,926.79	0.00	0.00	0.00
11,700.00	90.27	0.22	7,491.99	3,992.23	-538.33	4,026.23	0.00	0.00	0.00
11,800.00	90.27	0.22	7,491.52	4,092.23	-537.94	4,125.68	0.00	0.00	0.00
11,900.00	90.27	0.22	7,491.05	4,192.23	-537.56	4,225.12	0.00	0.00	0.00
12,000.00	90.27	0.22	7,490.58	4,292.22	-537.18	4,324.57	0.00	0.00	0.00
12,100.00	90.27	0.22	7,490.11	4,392.22	-536.79	4,424.01	0.00	0.00	0.00
12,200.00	90.27	0.22	7,489.64	4,492.22	-536.41	4,523.45	0.00	0.00	0.00
12,300.00	90.27	0.22	7,489.17	4,592.22	-536.03	4,622.90	0.00	0.00	0.00
12,400.00	90.27	0.22	7,488.70	4,692.22	-535.64	4,722.34	0.00	0.00	0.00
12,500.00	90.27	0.22	7,488.22	4,792.22	-535.26	4,821.79	0.00	0.00	0.00
12,600.00	90.27	0.22	7,487.75	4,892.21	-534.87	4,921.23	0.00	0.00	0.00
12,700.00	90.27	0.22	7,487.28	4,992.21	-534.49	5,020.68	0.00	0.00	0.00
12,800.00	90.27	0.22	7,486.81	5,092.21	-534.11	5,120.12	0.00	0.00	0.00
12,900.00	90.27	0.22	7,486.34	5,192.21	-533.72	5,219.56	0.00	0.00	0.00
12,945.10	90.27	0.22	7,486.00	5,237.31	-533.60	5,264.42	0.00	0.00	0.00
TD at 12945.10 - BROWN 37C-26HZ BHL									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well BROWN 37C-26HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + 17' RKB @ 5070.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + 17' RKB @ 5070.00ft
Site:	WELD_BROWN 16-35HZ Pad	North Reference:	True
Well:	BROWN 37C-26HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	BROWN 37C-26HZ		
Design:	BROWN 37C-26HZ (wp02)		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
BROWN 37C-26HZ BHL - plan hits target center - Point	0.00	0.00	7,486.00	5,237.31	-533.60	1,313,068.63	3,212,622.66	40.190265	-104.738917

Casing Points					
Measured Depth	Vertical Depth		Name	Casing Diameter	Hole Diameter
(ft)	(ft)			(")	(")
700.00	700.00	9 5/8"		9-5/8	12-1/4
7,879.04	7,510.00	7"		7	8-3/4

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
3,364.96	3,352.00	PARKMAN		0.00		
4,560.94	4,540.00	SUSSEX		0.00		
7,198.36	7,155.00	SHARON SPRINGS		0.00		
7,281.35	7,229.00	NIOBRARA		0.00		
7,800.38	7,505.00	CODELL		0.00		

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
		(ft)	(ft)		
1,200.00	1,200.00	0.00	0.00	Start Build 2.00	
1,531.00	1,530.26	-11.99	-14.87	Start 5403.66 hold at 1531.00 MD	
6,934.66	6,897.89	-403.00	-499.81	Start DLS 10.00 TFO 128.89	
7,879.04	7,510.00	171.34	-553.00	Start 26.96 hold at 7879.04 MD	
7,906.00	7,509.87	198.30	-552.90	Start 5039.10 hold at 7906.00 MD	
12,945.10	7,486.00	5,237.31	-533.60	TD at 12945.10	