

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_WEICHEL 36-14HZ PAD**

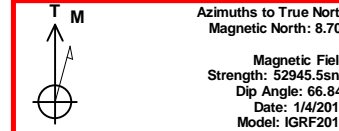
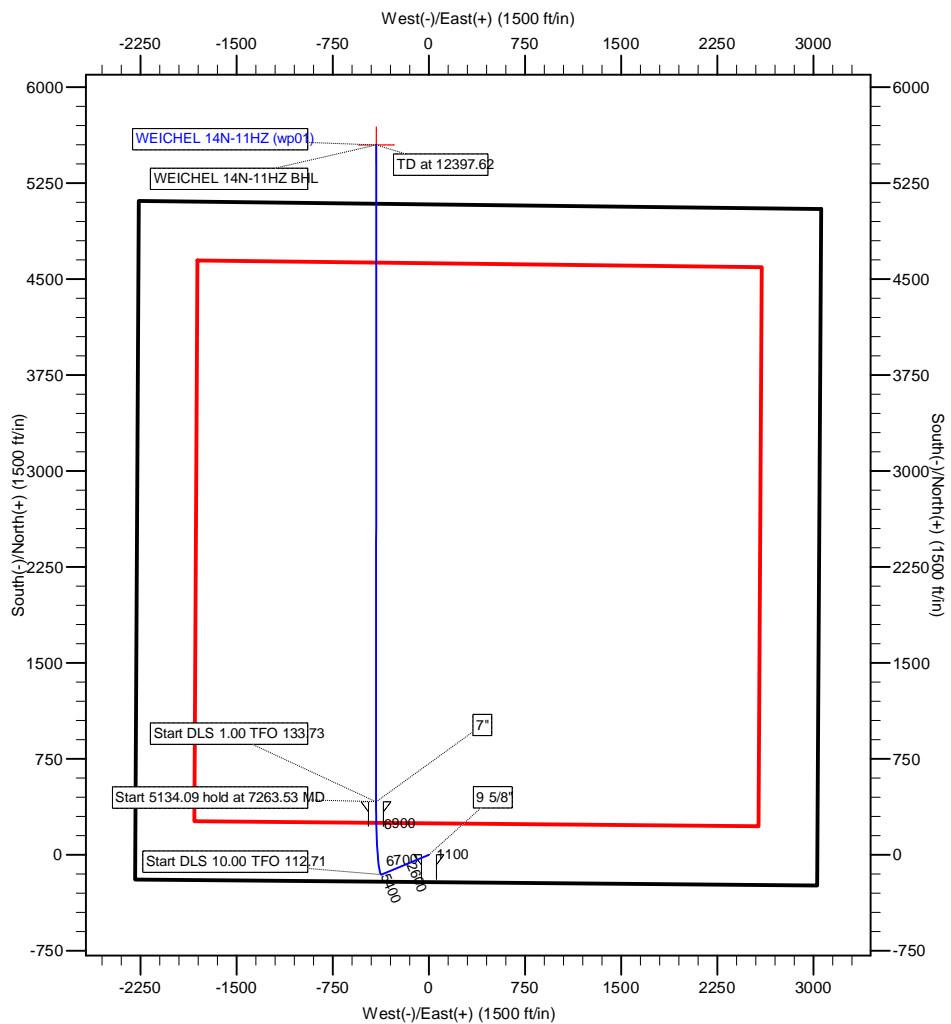
**WEICHEL 14N-11HZ**

**WEICHEL 14N-11HZ**

**Plan: WEICHEL 14N-11HZ (wp01)**

## **Standard Planning Report**

**04 January, 2012**



Project: COLORADO NORTHERN ZONE - 83  
 Site: WELD WEICHEL 36-14HZ PAD  
 Well: WEICHEL 14N-11HZ  
 Wellbore: WEICHEL 14N-11HZ  
 Section:  
 SHL:  
 Design: WEICHEL 14N-11HZ (wp01)  
 Latitude: 40.131907  
 Longitude: -104.632443  
 GL: 4885.00  
 KB: GL + 17' RKB @ 4902.00ft (Original Well Elev)

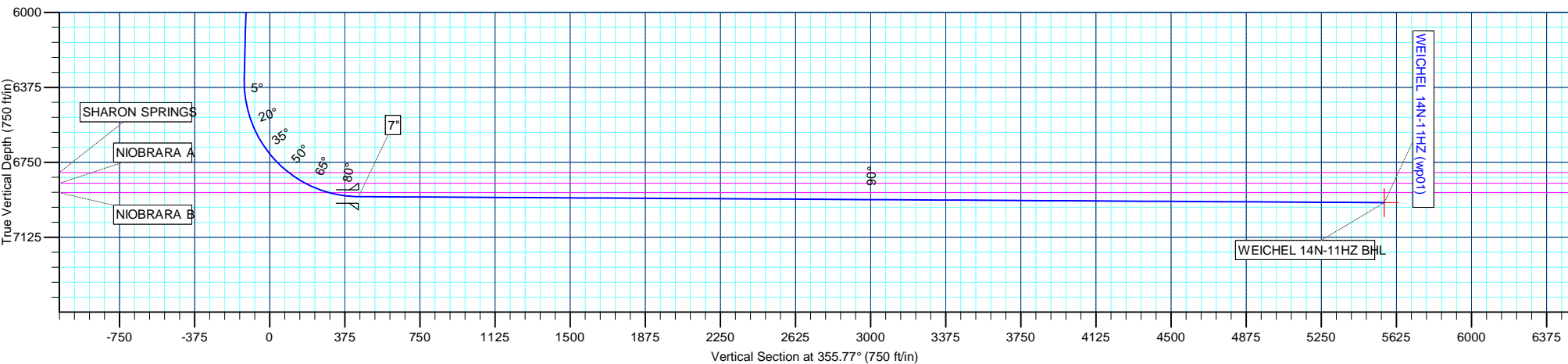
WELL DETAILS: WEICHEL 14N-11HZ						
+N-S	+E-W	Northing	Ground Level: Easting	4885.00 Latitude	Longitude	Slot
0.00	0.00	1292084.08	3242575.23	40.131907	-104.632443	

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
1323.86	4.48	247.26	1323.63	-3.38	-8.06	2.00	247.26	-2.77
6348.83	4.48	247.26	6333.27	-155.00	-369.83	0.00	0.00	-127.29
7262.84	89.67	0.01	6922.00	414.41	-412.00	10.00	112.71	443.69
7263.53	89.67	0.01	6922.00	415.10	-412.00	1.00	133.73	444.37
12397.62	89.67	0.01	6952.00	5549.10	-410.66	0.00	0.00	5564.28

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape
WEICHEL 14N-11HZ BHL	6952.00	5549.10	-410.66	40.147140	-104.633912	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4022.00	4030.49	PARKMAN
4266.00	4275.23	SUSSEX
6801.00	6886.37	SHARON SPRINGS
6855.00	6985.90	NIOBRARA A
6902.00	7114.08	NIOBRARA B

CASING DETAILS			
TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
6922.00	7262.84	7"	7



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well WEICHEL 14N-11HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL + 17' RKB @ 4902.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL + 17' RKB @ 4902.00ft (Original Well Elev)
<b>Site:</b>	WELD_WEICHEL 36-14HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	WEICHEL 14N-11HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WEICHEL 14N-11HZ		
<b>Design:</b>	WEICHEL 14N-11HZ (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		

Site		WELD_WEICHEL 36-14HZ PAD			
Site Position:		Northing:	1,292,084.09 usft	Latitude:	40.131907
From:	Lat/Long	Easting:	3,242,575.23 usft	Longitude:	-104.632443
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.56 °

Well		WEICHEL 14N-11HZ				
Well Position	+N/-S	-0.01 ft	Northing:	1,292,084.08 usft	Latitude:	40.131907
	+E/-W	0.00 ft	Easting:	3,242,575.23 usft	Longitude:	-104.632443
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,885.00 ft

<b>Wellbore</b>	WEICHEL 14N-11HZ				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	1/4/2012	8.70	66.84	52,946

<b>Design</b>	WEICHEL 14N-11HZ (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	355.77

<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	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,323.86	4.48	247.26	1,323.63	-3.38	-8.06	2.00	2.00	0.00	247.26	
6,348.83	4.48	247.26	6,333.27	-155.00	-369.83	0.00	0.00	0.00	0.00	
7,262.84	89.67	0.01	6,922.00	414.41	-412.00	10.00	9.32	12.34	112.71	
7,263.53	89.67	0.01	6,922.00	415.10	-412.00	1.00	-0.69	0.72	133.73	
12,397.62	89.67	0.01	6,952.00	5,549.10	-410.66	0.00	0.00	0.00	0.00	WEICHEL 14N-11HZ

# Anadarko Petroleum Corp

## Planning Report

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<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL + 17' RKB @ 4902.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL + 17' RKB @ 4902.00ft (Original Well Elev)
<b>Site:</b>	WELD_WEICHEL 36-14HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	WEICHEL 14N-11HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WEICHEL 14N-11HZ		
<b>Design:</b>	WEICHEL 14N-11HZ (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
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
9 5/8"									
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	247.26	1,199.98	-0.67	-1.61	-0.55	2.00	2.00	0.00
1,300.00	4.00	247.26	1,299.84	-2.70	-6.44	-2.22	2.00	2.00	0.00
1,323.86	4.48	247.26	1,323.63	-3.38	-8.06	-2.77	2.00	2.00	0.00
Start 5024.97 hold at 1323.86 MD									
1,400.00	4.48	247.26	1,399.54	-5.68	-13.54	-4.66	0.00	0.00	0.00
1,500.00	4.48	247.26	1,499.23	-8.69	-20.74	-7.14	0.00	0.00	0.00
1,600.00	4.48	247.26	1,598.93	-11.71	-27.94	-9.62	0.00	0.00	0.00
1,700.00	4.48	247.26	1,698.62	-14.73	-35.14	-12.10	0.00	0.00	0.00
1,800.00	4.48	247.26	1,798.32	-17.75	-42.34	-14.57	0.00	0.00	0.00
1,900.00	4.48	247.26	1,898.01	-20.76	-49.54	-17.05	0.00	0.00	0.00
2,000.00	4.48	247.26	1,997.71	-23.78	-56.74	-19.53	0.00	0.00	0.00
2,100.00	4.48	247.26	2,097.40	-26.80	-63.94	-22.01	0.00	0.00	0.00
2,200.00	4.48	247.26	2,197.10	-29.82	-71.14	-24.48	0.00	0.00	0.00
2,300.00	4.48	247.26	2,296.79	-32.83	-78.34	-26.96	0.00	0.00	0.00
2,400.00	4.48	247.26	2,396.49	-35.85	-85.54	-29.44	0.00	0.00	0.00
2,500.00	4.48	247.26	2,496.18	-38.87	-92.74	-31.92	0.00	0.00	0.00
2,600.00	4.48	247.26	2,595.88	-41.89	-99.94	-34.40	0.00	0.00	0.00
2,700.00	4.48	247.26	2,695.57	-44.90	-107.14	-36.87	0.00	0.00	0.00
2,800.00	4.48	247.26	2,795.27	-47.92	-114.34	-39.35	0.00	0.00	0.00
2,900.00	4.48	247.26	2,894.96	-50.94	-121.54	-41.83	0.00	0.00	0.00
3,000.00	4.48	247.26	2,994.66	-53.96	-128.73	-44.31	0.00	0.00	0.00
3,100.00	4.48	247.26	3,094.35	-56.97	-135.93	-46.79	0.00	0.00	0.00
3,200.00	4.48	247.26	3,194.05	-59.99	-143.13	-49.26	0.00	0.00	0.00
3,300.00	4.48	247.26	3,293.74	-63.01	-150.33	-51.74	0.00	0.00	0.00
3,400.00	4.48	247.26	3,393.44	-66.03	-157.53	-54.22	0.00	0.00	0.00
3,500.00	4.48	247.26	3,493.13	-69.04	-164.73	-56.70	0.00	0.00	0.00
3,600.00	4.48	247.26	3,592.83	-72.06	-171.93	-59.17	0.00	0.00	0.00
3,700.00	4.48	247.26	3,692.52	-75.08	-179.13	-61.65	0.00	0.00	0.00
3,800.00	4.48	247.26	3,792.22	-78.09	-186.33	-64.13	0.00	0.00	0.00
3,900.00	4.48	247.26	3,891.91	-81.11	-193.53	-66.61	0.00	0.00	0.00
4,000.00	4.48	247.26	3,991.61	-84.13	-200.73	-69.09	0.00	0.00	0.00
4,030.49	4.48	247.26	4,022.00	-85.05	-202.92	-69.84	0.00	0.00	0.00
PARKMAN									
4,100.00	4.48	247.26	4,091.30	-87.15	-207.93	-71.56	0.00	0.00	0.00
4,200.00	4.48	247.26	4,191.00	-90.16	-215.13	-74.04	0.00	0.00	0.00
4,275.23	4.48	247.26	4,266.00	-92.43	-220.54	-75.91	0.00	0.00	0.00
SUSSEX									

# Anadarko Petroleum Corp

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<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL + 17' RKB @ 4902.00ft (Original Well Elev)
<b>Site:</b>	WELD_WEICHEL 36-14HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	WEICHEL 14N-11HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WEICHEL 14N-11HZ		
<b>Design:</b>	WEICHEL 14N-11HZ (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)
4,300.00	4.48	247.26	4,290.69	-93.18	-222.33	-76.52	0.00	0.00	0.00
4,400.00	4.48	247.26	4,390.39	-96.20	-229.53	-79.00	0.00	0.00	0.00
4,500.00	4.48	247.26	4,490.08	-99.22	-236.73	-81.48	0.00	0.00	0.00
4,600.00	4.48	247.26	4,589.78	-102.23	-243.93	-83.95	0.00	0.00	0.00
4,700.00	4.48	247.26	4,689.47	-105.25	-251.13	-86.43	0.00	0.00	0.00
4,800.00	4.48	247.26	4,789.16	-108.27	-258.32	-88.91	0.00	0.00	0.00
4,900.00	4.48	247.26	4,888.86	-111.29	-265.52	-91.39	0.00	0.00	0.00
5,000.00	4.48	247.26	4,988.55	-114.30	-272.72	-93.86	0.00	0.00	0.00
5,100.00	4.48	247.26	5,088.25	-117.32	-279.92	-96.34	0.00	0.00	0.00
5,200.00	4.48	247.26	5,187.94	-120.34	-287.12	-98.82	0.00	0.00	0.00
5,300.00	4.48	247.26	5,287.64	-123.36	-294.32	-101.30	0.00	0.00	0.00
5,400.00	4.48	247.26	5,387.33	-126.37	-301.52	-103.78	0.00	0.00	0.00
5,500.00	4.48	247.26	5,487.03	-129.39	-308.72	-106.25	0.00	0.00	0.00
5,600.00	4.48	247.26	5,586.72	-132.41	-315.92	-108.73	0.00	0.00	0.00
5,700.00	4.48	247.26	5,686.42	-135.43	-323.12	-111.21	0.00	0.00	0.00
5,800.00	4.48	247.26	5,786.11	-138.44	-330.32	-113.69	0.00	0.00	0.00
5,900.00	4.48	247.26	5,885.81	-141.46	-337.52	-116.17	0.00	0.00	0.00
6,000.00	4.48	247.26	5,985.50	-144.48	-344.72	-118.64	0.00	0.00	0.00
6,100.00	4.48	247.26	6,085.20	-147.50	-351.92	-121.12	0.00	0.00	0.00
6,200.00	4.48	247.26	6,184.89	-150.51	-359.12	-123.60	0.00	0.00	0.00
6,300.00	4.48	247.26	6,284.59	-153.53	-366.32	-126.08	0.00	0.00	0.00
6,348.83	4.48	247.26	6,333.27	-155.00	-369.83	-127.29	0.00	0.00	0.00
Start DLS 10.00 TFO 112.71									
6,400.00	5.34	309.44	6,384.28	-154.26	-373.51	-126.28	10.00	1.68	121.51
6,500.00	14.00	343.20	6,482.83	-139.69	-380.62	-111.22	10.00	8.66	33.76
6,600.00	23.73	350.58	6,577.36	-108.19	-387.43	-79.30	10.00	9.73	7.38
6,700.00	33.61	353.80	6,665.00	-60.71	-393.73	-31.48	10.00	9.88	3.22
6,800.00	43.54	355.68	6,743.08	1.31	-399.33	30.78	10.00	9.93	1.88
6,886.37	52.14	356.82	6,801.00	65.14	-403.47	94.74	10.00	9.95	1.32
SHARON SPRINGS									
6,900.00	53.50	356.97	6,809.24	75.98	-404.06	105.60	10.00	9.96	1.13
6,985.90	62.05	357.84	6,855.00	148.51	-407.32	178.16	10.00	9.96	1.01
NIOBRARA A									
7,000.00	63.46	357.97	6,861.46	161.04	-407.78	190.69	10.00	9.97	0.91
7,100.00	73.43	358.80	6,898.15	253.89	-410.37	283.48	10.00	9.97	0.84
7,114.08	74.83	358.91	6,902.00	267.43	-410.64	297.01	10.00	9.97	0.78
NIOBRARA B									
7,200.00	83.40	359.56	6,918.21	351.72	-411.76	381.15	10.00	9.97	0.75
7,262.84	89.67	0.01	6,922.00	414.41	-412.00	443.69	10.00	9.97	0.72
Start DLS 1.00 TFO 133.73 - 7"									
7,263.53	89.67	0.01	6,922.00	415.10	-412.00	444.37	1.00	-0.69	0.72
Start 5134.09 hold at 7263.53 MD									
7,300.00	89.67	0.01	6,922.22	451.57	-411.99	480.74	0.00	0.00	0.00
7,400.00	89.67	0.01	6,922.80	551.57	-411.96	580.47	0.00	0.00	0.00
7,500.00	89.67	0.01	6,923.39	651.57	-411.94	680.19	0.00	0.00	0.00
7,600.00	89.67	0.01	6,923.97	751.56	-411.91	779.91	0.00	0.00	0.00
7,700.00	89.67	0.01	6,924.55	851.56	-411.89	879.64	0.00	0.00	0.00
7,800.00	89.67	0.01	6,925.14	951.56	-411.86	979.36	0.00	0.00	0.00
7,900.00	89.67	0.01	6,925.72	1,051.56	-411.83	1,079.09	0.00	0.00	0.00
8,000.00	89.67	0.01	6,926.31	1,151.56	-411.81	1,178.81	0.00	0.00	0.00
8,100.00	89.67	0.01	6,926.89	1,251.56	-411.78	1,278.53	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

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<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL + 17' RKB @ 4902.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL + 17' RKB @ 4902.00ft (Original Well Elev)
<b>Site:</b>	WELD_WEICHEL 36-14HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	WEICHEL 14N-11HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WEICHEL 14N-11HZ		
<b>Design:</b>	WEICHEL 14N-11HZ (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)
8,200.00	89.67	0.01	6,927.48	1,351.55	-411.76	1,378.26	0.00	0.00	0.00
8,300.00	89.67	0.01	6,928.06	1,451.55	-411.73	1,477.98	0.00	0.00	0.00
8,400.00	89.67	0.01	6,928.64	1,551.55	-411.70	1,577.70	0.00	0.00	0.00
8,500.00	89.67	0.01	6,929.23	1,651.55	-411.68	1,677.43	0.00	0.00	0.00
8,600.00	89.67	0.01	6,929.81	1,751.55	-411.65	1,777.15	0.00	0.00	0.00
8,700.00	89.67	0.01	6,930.40	1,851.55	-411.62	1,876.87	0.00	0.00	0.00
8,800.00	89.67	0.01	6,930.98	1,951.54	-411.60	1,976.60	0.00	0.00	0.00
8,900.00	89.67	0.01	6,931.57	2,051.54	-411.57	2,076.32	0.00	0.00	0.00
9,000.00	89.67	0.01	6,932.15	2,151.54	-411.55	2,176.05	0.00	0.00	0.00
9,100.00	89.67	0.01	6,932.73	2,251.54	-411.52	2,275.77	0.00	0.00	0.00
9,200.00	89.67	0.01	6,933.32	2,351.54	-411.49	2,375.49	0.00	0.00	0.00
9,300.00	89.67	0.01	6,933.90	2,451.53	-411.47	2,475.22	0.00	0.00	0.00
9,400.00	89.67	0.01	6,934.49	2,551.53	-411.44	2,574.94	0.00	0.00	0.00
9,500.00	89.67	0.01	6,935.07	2,651.53	-411.42	2,674.66	0.00	0.00	0.00
9,600.00	89.67	0.01	6,935.66	2,751.53	-411.39	2,774.39	0.00	0.00	0.00
9,700.00	89.67	0.01	6,936.24	2,851.53	-411.36	2,874.11	0.00	0.00	0.00
9,800.00	89.67	0.01	6,936.82	2,951.53	-411.34	2,973.83	0.00	0.00	0.00
9,900.00	89.67	0.01	6,937.41	3,051.52	-411.31	3,073.56	0.00	0.00	0.00
10,000.00	89.67	0.01	6,937.99	3,151.52	-411.28	3,173.28	0.00	0.00	0.00
10,100.00	89.67	0.01	6,938.58	3,251.52	-411.26	3,273.01	0.00	0.00	0.00
10,200.00	89.67	0.01	6,939.16	3,351.52	-411.23	3,372.73	0.00	0.00	0.00
10,300.00	89.67	0.01	6,939.74	3,451.52	-411.21	3,472.45	0.00	0.00	0.00
10,400.00	89.67	0.01	6,940.33	3,551.52	-411.18	3,572.18	0.00	0.00	0.00
10,500.00	89.67	0.01	6,940.91	3,651.51	-411.15	3,671.90	0.00	0.00	0.00
10,600.00	89.67	0.01	6,941.50	3,751.51	-411.13	3,771.62	0.00	0.00	0.00
10,700.00	89.67	0.01	6,942.08	3,851.51	-411.10	3,871.35	0.00	0.00	0.00
10,800.00	89.67	0.01	6,942.67	3,951.51	-411.08	3,971.07	0.00	0.00	0.00
10,900.00	89.67	0.01	6,943.25	4,051.51	-411.05	4,070.80	0.00	0.00	0.00
11,000.00	89.67	0.01	6,943.83	4,151.51	-411.02	4,170.52	0.00	0.00	0.00
11,100.00	89.67	0.01	6,944.42	4,251.50	-411.00	4,270.24	0.00	0.00	0.00
11,200.00	89.67	0.01	6,945.00	4,351.50	-410.97	4,369.97	0.00	0.00	0.00
11,300.00	89.67	0.01	6,945.59	4,451.50	-410.95	4,469.69	0.00	0.00	0.00
11,400.00	89.67	0.01	6,946.17	4,551.50	-410.92	4,569.41	0.00	0.00	0.00
11,500.00	89.67	0.01	6,946.76	4,651.50	-410.89	4,669.14	0.00	0.00	0.00
11,600.00	89.67	0.01	6,947.34	4,751.50	-410.87	4,768.86	0.00	0.00	0.00
11,700.00	89.67	0.01	6,947.92	4,851.49	-410.84	4,868.58	0.00	0.00	0.00
11,800.00	89.67	0.01	6,948.51	4,951.49	-410.81	4,968.31	0.00	0.00	0.00
11,900.00	89.67	0.01	6,949.09	5,051.49	-410.79	5,068.03	0.00	0.00	0.00
12,000.00	89.67	0.01	6,949.68	5,151.49	-410.76	5,167.76	0.00	0.00	0.00
12,100.00	89.67	0.01	6,950.26	5,251.49	-410.74	5,267.48	0.00	0.00	0.00
12,200.00	89.67	0.01	6,950.85	5,351.49	-410.71	5,367.20	0.00	0.00	0.00
12,300.00	89.67	0.01	6,951.43	5,451.48	-410.68	5,466.93	0.00	0.00	0.00
12,397.62	89.67	0.01	6,952.00	5,549.10	-410.66	5,564.28	0.00	0.00	0.00
TD at 12397.62 - WEICHEL 14N-11HZ BHL									

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well WEICHEL 14N-11HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL + 17' RKB @ 4902.00ft (Original Well Elev)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL + 17' RKB @ 4902.00ft (Original Well Elev)
<b>Site:</b>	WELD_WEICHEL 36-14HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	WEICHEL 14N-11HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WEICHEL 14N-11HZ		
<b>Design:</b>	WEICHEL 14N-11HZ (wp01)		

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									
WEICHEL 14N-11HZ Bf	0.00	0.00	6,952.00	5,549.10	-410.66	1,297,628.89	3,242,110.31	40.147140	-104.633912
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(")	(")
900.00	900.00	9 5/8"		9-5/8	13-1/2
7,262.84	6,922.00	7"		7	8-3/4

Formations						
Measured Depth	Vertical Depth	Name		Lithology	Dip	Dip Direction
(ft)	(ft)				(°)	(°)
4,030.49	4,022.00	PARKMAN			0.00	
4,275.23	4,266.00	SUSSEX			0.00	
6,886.37	6,801.00	SHARON SPRINGS			0.00	
6,985.90	6,855.00	NIOBRARA A			0.00	
7,114.08	6,902.00	NIOBRARA B			0.00	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
(ft)	(ft)	(ft)	(ft)		
1,100.00	1,100.00	0.00	0.00	Start Build 2.00	
1,323.86	1,323.63	-3.38	-8.06	Start 5024.97 hold at 1323.86 MD	
6,348.83	6,333.27	-155.00	-369.83	Start DLS 10.00 TFO 112.71	
7,262.84	6,922.00	414.41	-412.00	Start DLS 1.00 TFO 133.73	
7,263.53	6,922.00	415.10	-412.00	Start 5134.09 hold at 7263.53 MD	
12,397.62	6,952.00	5,549.10	-410.66	TD at 12397.62	