

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_WEICHEL PAD

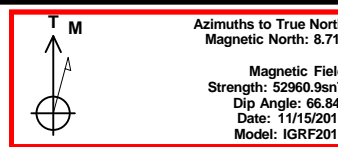
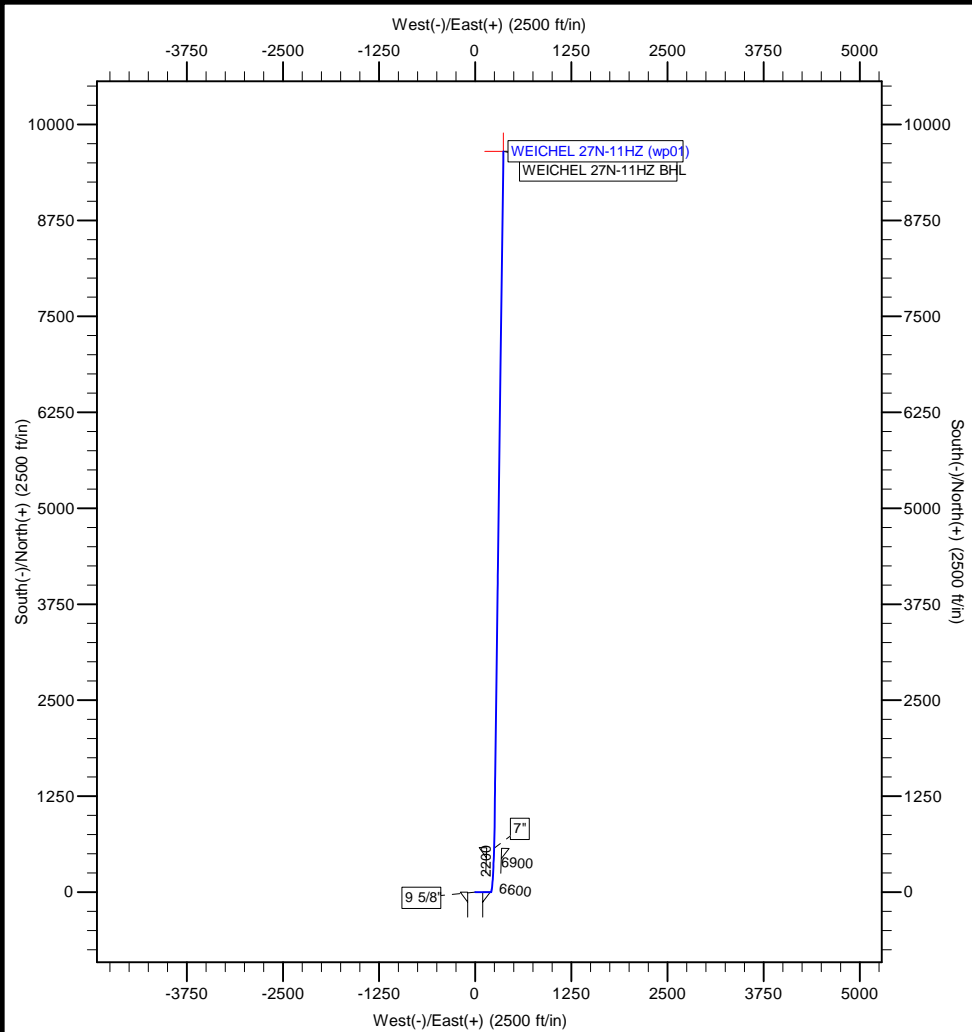
WEICHEL 27N-11HZ

WEICHEL 27N-11HZ

Plan: WEICHEL 27N-11HZ (wp01)

Standard Planning Report

15 November, 2011



Project: COLORADO NORTHERN ZONE - 83
Site: WELD WEICHEL PAD
Well: WEICHEL 27N-11HZ
Wellbore: WEICHEL 27N-11HZ
Section:
SHL:
Design: WEICHEL 27N-11HZ (wp01)
Latitude: 40.132676
Longitude: -104.627649
GL: 4882.00
KB: GL + RKB @ 4899.00ft

WELL DETAILS: WEICHEL 27N-11HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	4882.00 Latitude	40.132676 Longitude	Slot
0.00	0.00	1292377.35	3243912.87	40.132676	-104.627649	

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
1050.00	0.00	0.00	1050.00	0.00	0.00	0.00	0.00	0.00
1161.96	2.24	90.05	1161.93	0.00	2.19	2.00	90.05	0.08
6352.18	2.24	90.05	6348.19	-0.17	204.98	0.00	0.00	7.59
7252.71	90.12	1.86	6920.00	573.00	246.00	10.00	-88.18	581.90
7364.09	90.13	0.75	6919.75	684.35	248.53	1.00	-89.56	693.26
16329.97	90.13	0.75	6899.00	9649.44	365.31	0.00	0.00	9656.36

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

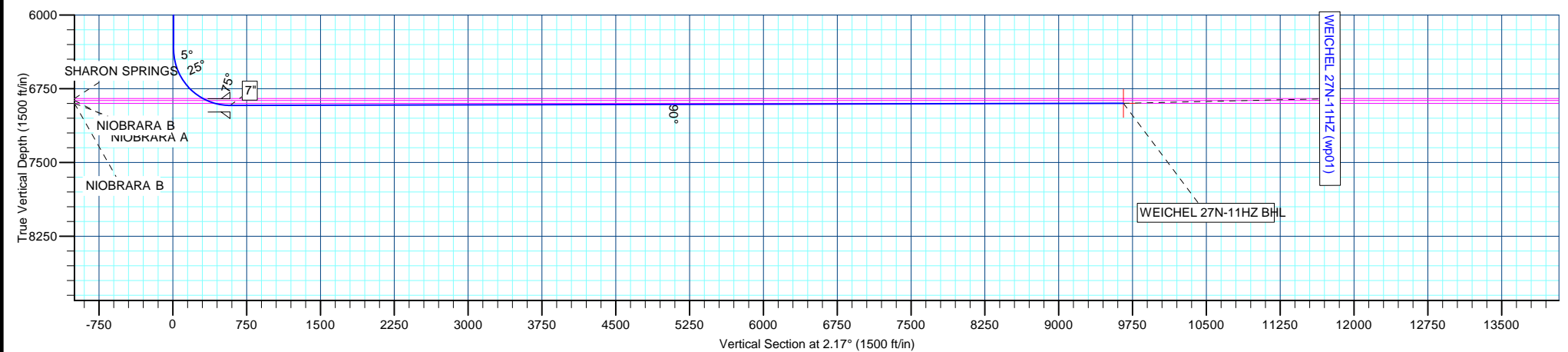
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
WEICHEL 27N-11HZ BHL	6899.00	9649.44	365.31	40.159165	-104.626342	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4020.00	4022.21	PARKMAN
4332.00	4334.45	SUSSEX
6849.00	6963.09	SHARON SPRINGS
6871.00	7012.69	NIOBRARA A
6899.00	7095.80	NIOBRARA B

CASING DETAILS

TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
6920.00	7252.71	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 27N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4899.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4899.00ft
Site:	WELD_WEICHEL PAD	North Reference:	True
Well:	WEICHEL 27N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 27N-11HZ		
Design:	WEICHEL 27N-11HZ (wp01)		

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_WEICHEL PAD			
Site Position:		Northing:	1,292,377.36 usft	Latitude:	40.132676
From:	Lat/Long	Easting:	3,243,912.87 usft	Longitude:	-104.627649
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.56 °

Well		WEICHEL 27N-11HZ				
Well Position	+N/-S	0.00 ft	Northing:	1,292,377.35 usft	Latitude:	40.132676
	+E/-W	0.00 ft	Easting:	3,243,912.87 usft	Longitude:	-104.627649
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,882.00 ft

Wellbore	WEICHEL 27N-11HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/15/2011	8.71	66.84	52,961

Design	WEICHEL 27N-11HZ (wp01)			
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	2.17

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	
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,161.96	2.24	90.05	1,161.93	0.00	2.19	2.00	2.00	0.00	90.05	
6,352.18	2.24	90.05	6,348.19	-0.17	204.98	0.00	0.00	0.00	0.00	
7,252.71	90.12	1.86	6,920.00	573.00	246.00	10.00	9.76	-9.79	-88.18	
7,364.09	90.13	0.75	6,919.75	684.35	248.53	1.00	0.01	-1.00	-89.56	
16,329.97	90.13	0.75	6,899.00	9,649.45	365.31	0.00	0.00	0.00	0.00	WEICHEL 27N-11HZ

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 27N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4899.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4899.00ft
Site:	WELD_WEICHEL PAD	North Reference:	True
Well:	WEICHEL 27N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 27N-11HZ		
Design:	WEICHEL 27N-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
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	1.00	90.05	1,100.00	0.00	0.44	0.02	2.00	2.00	0.00
1,161.96	2.24	90.05	1,161.93	0.00	2.19	0.08	2.00	2.00	0.00
1,200.00	2.24	90.05	1,199.94	0.00	3.67	0.14	0.00	0.00	0.00
1,300.00	2.24	90.05	1,299.87	-0.01	7.58	0.28	0.00	0.00	0.00
1,400.00	2.24	90.05	1,399.79	-0.01	11.49	0.43	0.00	0.00	0.00
1,500.00	2.24	90.05	1,499.71	-0.01	15.40	0.57	0.00	0.00	0.00
1,600.00	2.24	90.05	1,599.64	-0.02	19.30	0.71	0.00	0.00	0.00
1,700.00	2.24	90.05	1,699.56	-0.02	23.21	0.86	0.00	0.00	0.00
1,800.00	2.24	90.05	1,799.48	-0.02	27.12	1.00	0.00	0.00	0.00
1,900.00	2.24	90.05	1,899.41	-0.03	31.02	1.15	0.00	0.00	0.00
2,000.00	2.24	90.05	1,999.33	-0.03	34.93	1.29	0.00	0.00	0.00
2,100.00	2.24	90.05	2,099.26	-0.03	38.84	1.44	0.00	0.00	0.00
2,200.00	2.24	90.05	2,199.18	-0.04	42.75	1.58	0.00	0.00	0.00
2,300.00	2.24	90.05	2,299.10	-0.04	46.65	1.73	0.00	0.00	0.00
2,400.00	2.24	90.05	2,399.03	-0.04	50.56	1.87	0.00	0.00	0.00
2,500.00	2.24	90.05	2,498.95	-0.04	54.47	2.02	0.00	0.00	0.00
2,600.00	2.24	90.05	2,598.87	-0.05	58.37	2.16	0.00	0.00	0.00
2,700.00	2.24	90.05	2,698.80	-0.05	62.28	2.31	0.00	0.00	0.00
2,800.00	2.24	90.05	2,798.72	-0.05	66.19	2.45	0.00	0.00	0.00
2,900.00	2.24	90.05	2,898.64	-0.06	70.10	2.59	0.00	0.00	0.00
3,000.00	2.24	90.05	2,998.57	-0.06	74.00	2.74	0.00	0.00	0.00
3,100.00	2.24	90.05	3,098.49	-0.06	77.91	2.88	0.00	0.00	0.00
3,200.00	2.24	90.05	3,198.42	-0.07	81.82	3.03	0.00	0.00	0.00
3,300.00	2.24	90.05	3,298.34	-0.07	85.72	3.17	0.00	0.00	0.00
3,400.00	2.24	90.05	3,398.26	-0.07	89.63	3.32	0.00	0.00	0.00
3,500.00	2.24	90.05	3,498.19	-0.08	93.54	3.46	0.00	0.00	0.00
3,600.00	2.24	90.05	3,598.11	-0.08	97.45	3.61	0.00	0.00	0.00
3,700.00	2.24	90.05	3,698.03	-0.08	101.35	3.75	0.00	0.00	0.00
3,800.00	2.24	90.05	3,797.96	-0.09	105.26	3.90	0.00	0.00	0.00
3,900.00	2.24	90.05	3,897.88	-0.09	109.17	4.04	0.00	0.00	0.00
4,000.00	2.24	90.05	3,997.80	-0.09	113.07	4.18	0.00	0.00	0.00
4,022.21	2.24	90.05	4,020.00	-0.09	113.94	4.22	0.00	0.00	0.00
PARKMAN									
4,100.00	2.24	90.05	4,097.73	-0.10	116.98	4.33	0.00	0.00	0.00
4,200.00	2.24	90.05	4,197.65	-0.10	120.89	4.47	0.00	0.00	0.00
4,300.00	2.24	90.05	4,297.58	-0.10	124.80	4.62	0.00	0.00	0.00
4,334.45	2.24	90.05	4,332.00	-0.10	126.14	4.67	0.00	0.00	0.00
SUSSEX									
4,400.00	2.24	90.05	4,397.50	-0.11	128.70	4.76	0.00	0.00	0.00
4,500.00	2.24	90.05	4,497.42	-0.11	132.61	4.91	0.00	0.00	0.00
4,600.00	2.24	90.05	4,597.35	-0.11	136.52	5.05	0.00	0.00	0.00
4,700.00	2.24	90.05	4,697.27	-0.12	140.43	5.20	0.00	0.00	0.00
4,800.00	2.24	90.05	4,797.19	-0.12	144.33	5.34	0.00	0.00	0.00
4,900.00	2.24	90.05	4,897.12	-0.12	148.24	5.49	0.00	0.00	0.00
5,000.00	2.24	90.05	4,997.04	-0.12	152.15	5.63	0.00	0.00	0.00
5,100.00	2.24	90.05	5,096.96	-0.13	156.05	5.78	0.00	0.00	0.00
5,200.00	2.24	90.05	5,196.89	-0.13	159.96	5.92	0.00	0.00	0.00
5,300.00	2.24	90.05	5,296.81	-0.13	163.87	6.06	0.00	0.00	0.00
5,400.00	2.24	90.05	5,396.74	-0.14	167.78	6.21	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 27N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4899.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4899.00ft
Site:	WELD_WEICHEL PAD	North Reference:	True
Well:	WEICHEL 27N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 27N-11HZ		
Design:	WEICHEL 27N-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)
5,500.00	2.24	90.05	5,496.66	-0.14	171.68	6.35	0.00	0.00	0.00
5,600.00	2.24	90.05	5,596.58	-0.14	175.59	6.50	0.00	0.00	0.00
5,700.00	2.24	90.05	5,696.51	-0.15	179.50	6.64	0.00	0.00	0.00
5,800.00	2.24	90.05	5,796.43	-0.15	183.40	6.79	0.00	0.00	0.00
5,900.00	2.24	90.05	5,896.35	-0.15	187.31	6.93	0.00	0.00	0.00
6,000.00	2.24	90.05	5,996.28	-0.16	191.22	7.08	0.00	0.00	0.00
6,100.00	2.24	90.05	6,096.20	-0.16	195.13	7.22	0.00	0.00	0.00
6,200.00	2.24	90.05	6,196.12	-0.16	199.03	7.37	0.00	0.00	0.00
6,300.00	2.24	90.05	6,296.05	-0.17	202.94	7.51	0.00	0.00	0.00
6,352.18	2.24	90.05	6,348.19	-0.17	204.98	7.59	0.00	0.00	0.00
6,400.00	5.34	26.57	6,395.91	1.82	206.91	9.65	10.00	6.49	-132.75
6,500.00	15.02	10.24	6,494.24	18.78	211.31	26.76	10.00	9.67	-16.32
6,600.00	24.95	6.68	6,588.10	52.56	216.08	60.70	10.00	9.93	-3.56
6,700.00	34.92	5.07	6,674.66	102.14	221.08	110.43	10.00	9.97	-1.61
6,784.78	43.38	4.24	6,740.35	155.44	225.38	163.85	10.00	9.98	-0.99
WEICHEL 27N-11HZ heel									
6,800.00	44.90	4.11	6,751.27	166.01	226.15	174.44	10.00	9.98	-0.81
6,900.00	54.88	3.44	6,815.62	242.23	231.15	250.80	10.00	9.99	-0.67
6,963.09	61.19	3.10	6,849.00	295.64	234.19	304.28	10.00	9.99	-0.54
SHARON SPRINGS									
7,000.00	64.87	2.92	6,865.74	328.48	235.92	337.17	10.00	9.99	-0.49
7,012.69	66.14	2.86	6,871.00	340.02	236.50	348.72	10.00	9.99	-0.47
NIOBRARA A									
7,095.80	74.45	2.49	6,899.00	418.11	240.14	426.89	10.00	9.99	-0.44
NIOBRARA B									
7,100.00	74.86	2.47	6,900.11	422.15	240.31	430.94	10.00	9.99	-0.42
7,200.00	84.86	2.07	6,917.69	520.39	244.20	529.25	10.00	9.99	-0.40
7,252.71	90.12	1.86	6,920.00	573.00	246.00	581.89	10.00	9.99	-0.39
7"									
7,300.00	90.13	1.39	6,919.90	620.27	247.34	629.18	1.00	0.01	-1.00
7,364.09	90.13	0.75	6,919.75	684.35	248.53	693.26	1.00	0.01	-1.00
7,400.00	90.13	0.75	6,919.67	720.25	249.00	729.16	0.00	0.00	0.00
7,500.00	90.13	0.75	6,919.44	820.24	250.30	829.13	0.00	0.00	0.00
7,600.00	90.13	0.75	6,919.20	920.23	251.61	929.09	0.00	0.00	0.00
7,700.00	90.13	0.75	6,918.97	1,020.23	252.91	1,029.06	0.00	0.00	0.00
7,800.00	90.13	0.75	6,918.74	1,120.22	254.21	1,129.03	0.00	0.00	0.00
7,900.00	90.13	0.75	6,918.51	1,220.21	255.51	1,229.00	0.00	0.00	0.00
8,000.00	90.13	0.75	6,918.28	1,320.20	256.82	1,328.97	0.00	0.00	0.00
8,100.00	90.13	0.75	6,918.05	1,420.19	258.12	1,428.94	0.00	0.00	0.00
8,200.00	90.13	0.75	6,917.82	1,520.18	259.42	1,528.91	0.00	0.00	0.00
8,300.00	90.13	0.75	6,917.58	1,620.17	260.72	1,628.88	0.00	0.00	0.00
8,400.00	90.13	0.75	6,917.35	1,720.16	262.02	1,728.85	0.00	0.00	0.00
8,500.00	90.13	0.75	6,917.12	1,820.16	263.33	1,828.82	0.00	0.00	0.00
8,600.00	90.13	0.75	6,916.89	1,920.15	264.63	1,928.78	0.00	0.00	0.00
8,700.00	90.13	0.75	6,916.66	2,020.14	265.93	2,028.75	0.00	0.00	0.00
8,800.00	90.13	0.75	6,916.43	2,120.13	267.23	2,128.72	0.00	0.00	0.00
8,900.00	90.13	0.75	6,916.20	2,220.12	268.54	2,228.69	0.00	0.00	0.00
9,000.00	90.13	0.75	6,915.96	2,320.11	269.84	2,328.66	0.00	0.00	0.00
9,100.00	90.13	0.75	6,915.73	2,420.10	271.14	2,428.63	0.00	0.00	0.00
9,200.00	90.13	0.75	6,915.50	2,520.09	272.44	2,528.60	0.00	0.00	0.00
9,300.00	90.13	0.75	6,915.27	2,620.09	273.75	2,628.57	0.00	0.00	0.00
9,400.00	90.13	0.75	6,915.04	2,720.08	275.05	2,728.54	0.00	0.00	0.00
9,500.00	90.13	0.75	6,914.81	2,820.07	276.35	2,828.50	0.00	0.00	0.00
9,600.00	90.13	0.75	6,914.58	2,920.06	277.65	2,928.47	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 27N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4899.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4899.00ft
Site:	WELD_WEICHEL PAD	North Reference:	True
Well:	WEICHEL 27N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 27N-11HZ		
Design:	WEICHEL 27N-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)
9,700.00	90.13	0.75	6,914.34	3,020.05	278.96	3,028.44	0.00	0.00	0.00
9,800.00	90.13	0.75	6,914.11	3,120.04	280.26	3,128.41	0.00	0.00	0.00
9,900.00	90.13	0.75	6,913.88	3,220.03	281.56	3,228.38	0.00	0.00	0.00
10,000.00	90.13	0.75	6,913.65	3,320.02	282.86	3,328.35	0.00	0.00	0.00
10,100.00	90.13	0.75	6,913.42	3,420.02	284.17	3,428.32	0.00	0.00	0.00
10,200.00	90.13	0.75	6,913.19	3,520.01	285.47	3,528.29	0.00	0.00	0.00
10,300.00	90.13	0.75	6,912.96	3,620.00	286.77	3,628.26	0.00	0.00	0.00
10,400.00	90.13	0.75	6,912.72	3,719.99	288.07	3,728.23	0.00	0.00	0.00
10,500.00	90.13	0.75	6,912.49	3,819.98	289.38	3,828.19	0.00	0.00	0.00
10,600.00	90.13	0.75	6,912.26	3,919.97	290.68	3,928.16	0.00	0.00	0.00
10,700.00	90.13	0.75	6,912.03	4,019.96	291.98	4,028.13	0.00	0.00	0.00
10,800.00	90.13	0.75	6,911.80	4,119.95	293.28	4,128.10	0.00	0.00	0.00
10,900.00	90.13	0.75	6,911.57	4,219.95	294.59	4,228.07	0.00	0.00	0.00
11,000.00	90.13	0.75	6,911.34	4,319.94	295.89	4,328.04	0.00	0.00	0.00
11,100.00	90.13	0.75	6,911.10	4,419.93	297.19	4,428.01	0.00	0.00	0.00
11,200.00	90.13	0.75	6,910.87	4,519.92	298.49	4,527.98	0.00	0.00	0.00
11,300.00	90.13	0.75	6,910.64	4,619.91	299.80	4,627.95	0.00	0.00	0.00
11,400.00	90.13	0.75	6,910.41	4,719.90	301.10	4,727.91	0.00	0.00	0.00
11,500.00	90.13	0.75	6,910.18	4,819.89	302.40	4,827.88	0.00	0.00	0.00
11,600.00	90.13	0.75	6,909.95	4,919.88	303.70	4,927.85	0.00	0.00	0.00
11,700.00	90.13	0.75	6,909.72	5,019.88	305.00	5,027.82	0.00	0.00	0.00
11,800.00	90.13	0.75	6,909.48	5,119.87	306.31	5,127.79	0.00	0.00	0.00
11,900.00	90.13	0.75	6,909.25	5,219.86	307.61	5,227.76	0.00	0.00	0.00
12,000.00	90.13	0.75	6,909.02	5,319.85	308.91	5,327.73	0.00	0.00	0.00
12,100.00	90.13	0.75	6,908.79	5,419.84	310.21	5,427.70	0.00	0.00	0.00
12,200.00	90.13	0.75	6,908.56	5,519.83	311.52	5,527.67	0.00	0.00	0.00
12,300.00	90.13	0.75	6,908.33	5,619.82	312.82	5,627.64	0.00	0.00	0.00
12,400.00	90.13	0.75	6,908.10	5,719.81	314.12	5,727.60	0.00	0.00	0.00
12,500.00	90.13	0.75	6,907.86	5,819.81	315.42	5,827.57	0.00	0.00	0.00
12,600.00	90.13	0.75	6,907.63	5,919.80	316.73	5,927.54	0.00	0.00	0.00
12,700.00	90.13	0.75	6,907.40	6,019.79	318.03	6,027.51	0.00	0.00	0.00
12,800.00	90.13	0.75	6,907.17	6,119.78	319.33	6,127.48	0.00	0.00	0.00
12,900.00	90.13	0.75	6,906.94	6,219.77	320.63	6,227.45	0.00	0.00	0.00
13,000.00	90.13	0.75	6,906.71	6,319.76	321.94	6,327.42	0.00	0.00	0.00
13,100.00	90.13	0.75	6,906.48	6,419.75	323.24	6,427.39	0.00	0.00	0.00
13,200.00	90.13	0.75	6,906.24	6,519.74	324.54	6,527.36	0.00	0.00	0.00
13,300.00	90.13	0.75	6,906.01	6,619.74	325.84	6,627.32	0.00	0.00	0.00
13,400.00	90.13	0.75	6,905.78	6,719.73	327.15	6,727.29	0.00	0.00	0.00
13,500.00	90.13	0.75	6,905.55	6,819.72	328.45	6,827.26	0.00	0.00	0.00
13,600.00	90.13	0.75	6,905.32	6,919.71	329.75	6,927.23	0.00	0.00	0.00
13,700.00	90.13	0.75	6,905.09	7,019.70	331.05	7,027.20	0.00	0.00	0.00
13,800.00	90.13	0.75	6,904.86	7,119.69	332.36	7,127.17	0.00	0.00	0.00
13,900.00	90.13	0.75	6,904.62	7,219.68	333.66	7,227.14	0.00	0.00	0.00
14,000.00	90.13	0.75	6,904.39	7,319.67	334.96	7,327.11	0.00	0.00	0.00
14,100.00	90.13	0.75	6,904.16	7,419.67	336.26	7,427.08	0.00	0.00	0.00
14,200.00	90.13	0.75	6,903.93	7,519.66	337.57	7,527.04	0.00	0.00	0.00
14,300.00	90.13	0.75	6,903.70	7,619.65	338.87	7,627.01	0.00	0.00	0.00
14,400.00	90.13	0.75	6,903.47	7,719.64	340.17	7,726.98	0.00	0.00	0.00
14,500.00	90.13	0.75	6,903.24	7,819.63	341.47	7,826.95	0.00	0.00	0.00
14,600.00	90.13	0.75	6,903.00	7,919.62	342.78	7,926.92	0.00	0.00	0.00
14,700.00	90.13	0.75	6,902.77	8,019.61	344.08	8,026.89	0.00	0.00	0.00
14,800.00	90.13	0.75	6,902.54	8,119.61	345.38	8,126.86	0.00	0.00	0.00
14,900.00	90.13	0.75	6,902.31	8,219.60	346.68	8,226.83	0.00	0.00	0.00
15,000.00	90.13	0.75	6,902.08	8,319.59	347.98	8,326.80	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 27N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4899.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4899.00ft
Site:	WELD_WEICHEL PAD	North Reference:	True
Well:	WEICHEL 27N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 27N-11HZ		
Design:	WEICHEL 27N-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)
15,100.00	90.13	0.75	6,901.85	8,419.58	349.29	8,426.77	0.00	0.00	0.00
15,200.00	90.13	0.75	6,901.62	8,519.57	350.59	8,526.73	0.00	0.00	0.00
15,300.00	90.13	0.75	6,901.38	8,619.56	351.89	8,626.70	0.00	0.00	0.00
15,400.00	90.13	0.75	6,901.15	8,719.55	353.19	8,726.67	0.00	0.00	0.00
15,500.00	90.13	0.75	6,900.92	8,819.54	354.50	8,826.64	0.00	0.00	0.00
15,600.00	90.13	0.75	6,900.69	8,919.54	355.80	8,926.61	0.00	0.00	0.00
15,700.00	90.13	0.75	6,900.46	9,019.53	357.10	9,026.58	0.00	0.00	0.00
15,800.00	90.13	0.75	6,900.23	9,119.52	358.40	9,126.55	0.00	0.00	0.00
15,900.00	90.13	0.75	6,900.00	9,219.51	359.71	9,226.52	0.00	0.00	0.00
16,000.00	90.13	0.75	6,899.76	9,319.50	361.01	9,326.49	0.00	0.00	0.00
16,100.00	90.13	0.75	6,899.53	9,419.49	362.31	9,426.45	0.00	0.00	0.00
16,200.00	90.13	0.75	6,899.30	9,519.48	363.61	9,526.42	0.00	0.00	0.00
16,300.00	90.13	0.75	6,899.07	9,619.47	364.92	9,626.39	0.00	0.00	0.00
16,329.97	90.13	0.75	6,899.00	9,649.45	365.31	9,656.36	0.00	0.00	0.00
WEICHEL 27N-11HZ BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
WEICHEL 27N-11HZ BHL	0.00	0.00	6,899.00	9,649.45	365.31	1,302,029.91	3,244,183.24	40.159165	-104.626342
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
900.00	900.00	9 5/8"	9-5/8	12-1/4	
7,252.71	6,920.00	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,022.21	4,020.00	PARKMAN		0.00	
4,334.45	4,332.00	SUSSEX		0.00	
6,963.09	6,849.00	SHARON SPRINGS		0.00	
7,012.69	6,871.00	NIOBRARA A		0.00	
7,095.80	6,899.00	NIOBRARA B		0.00	