

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_WEICHEL 36-14HZ PAD

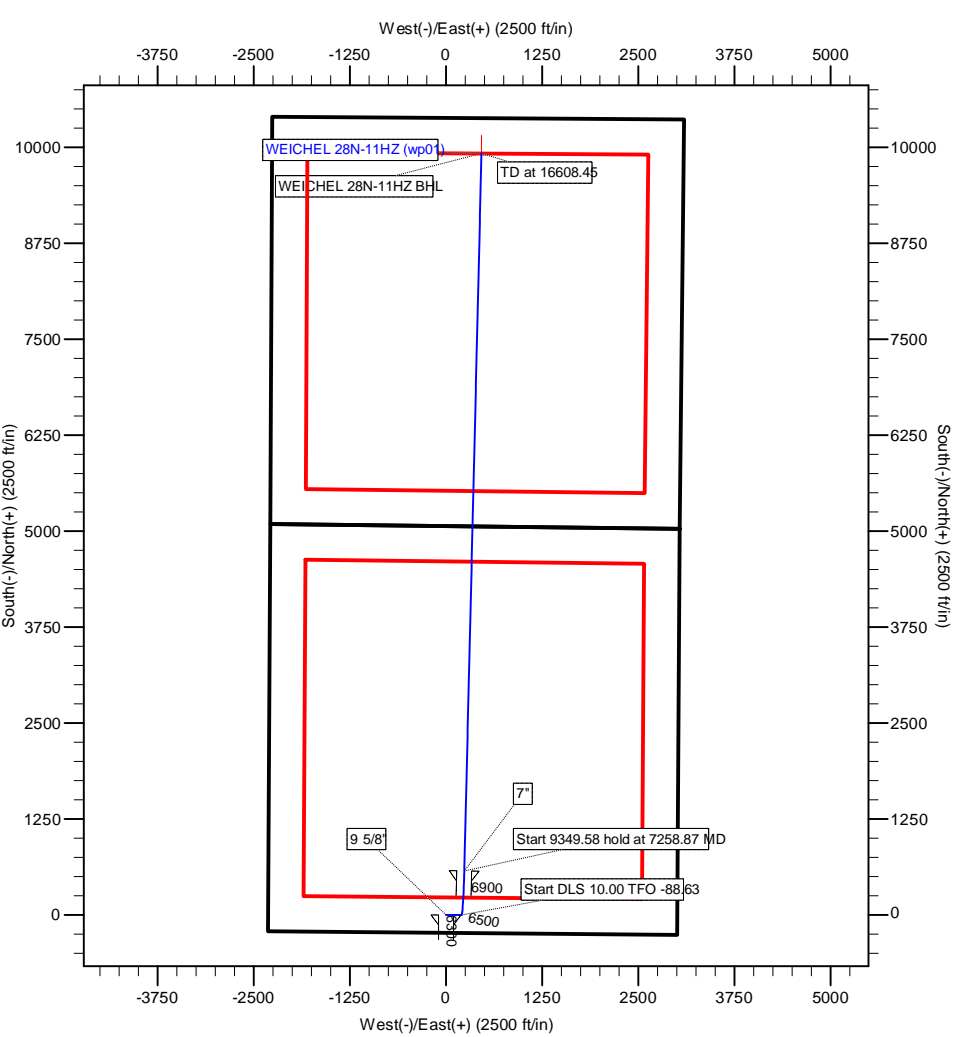
WEICHEL 28N-11HZ

WEICHEL 28N-11HZ

Plan: WEICHEL 28N-11HZ (wp01)

Standard Planning Report

05 January, 2012



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Azimuths to True North

Magnetic North: 8.70°

Magnetic Field

Strength: 52945.6snT

Dip Angle: 66.84°

Date: 1/4/2012

Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83

Site: WELD WEICHEL 36-14HZ PAD

Well: WEICHEL 28N-11HZ

Wellbore: WEICHEL 28N-11HZ

Section:

SHL:

Design: WEICHEL 28N-11HZ (wp01)

Latitude: 40.131956

Longitude: -104.632357

GL: 4885.00

KB: WELL @ 4902.00ft (Original Well Elev)

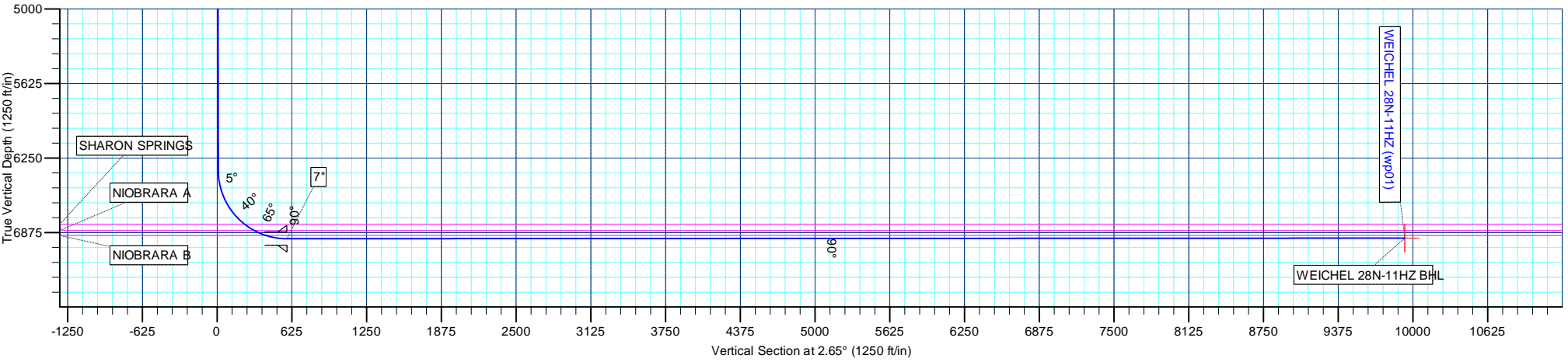
WELL DETAILS: WEICHEL 28N-11HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4885.00 Latitude	40.131956 Longitude	Slot
0.00	0.00	1292102.17	3242599.10			

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
1210.28	2.21	90.00	1210.25	0.00	2.12	2.00	90.00	0.10
6358.83	2.21	90.00	6354.99	0.00	200.27	0.00	0.00	9.27
7258.60	90.03	1.37	6927.00	572.56	236.00	10.00	-88.63	582.86
7258.87	90.03	1.37	6927.00	572.83	236.01	1.00	-47.11	583.13
16608.45	90.03	1.37	6922.00	9919.75	459.22	0.00	0.00	9930.37

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
WEICHEL 28N-11HZ BHL	6922.00	9919.75	459.22	40.159187	-104.630714	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3900.00	3902.02	PARKMAN
4268.00	4270.29	SUSSEX
6805.00	6877.29	SHARON SPRINGS
6858.00	6974.11	NIOBRARA A
6899.00	7078.38	NIOBRARA B

CASING DETAILS			
TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
6927.00	7258.60	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 28N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4902.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4902.00ft (Original Well Elev)
Site:	WELD_WEICHEL 36-14HZ PAD	North Reference:	True
Well:	WEICHEL 28N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 28N-11HZ		
Design:	WEICHEL 28N-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 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 28N-11HZ					
Well Position	+N/-S	17.84 ft	Northing:	1,292,102.17 usft	Latitude:	40.131956
	+E/-W	24.05 ft	Easting:	3,242,599.11 usft	Longitude:	-104.632357
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,885.00 ft

Wellbore	WEICHEL 28N-11HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/4/2012	8.70	66.84	52,946

Design	WEICHEL 28N-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	2.65

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	
1,210.28	2.21	90.00	1,210.25	0.00	2.12	2.00	2.00	0.00	90.00	
6,358.83	2.21	90.00	6,354.99	0.00	200.27	0.00	0.00	0.00	0.00	
7,258.60	90.03	1.37	6,927.00	572.56	236.00	10.00	9.76	-9.85	-88.63	
7,258.87	90.03	1.37	6,927.00	572.83	236.01	1.00	0.68	-0.73	-47.11	
16,608.45	90.03	1.37	6,922.00	9,919.75	459.22	0.00	0.00	0.00	0.00	WEICHEL 28N-11HZ

Anadarko Petroleum Corp

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4902.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4902.00ft (Original Well Elev)
Site:	WELD_WEICHEL 36-14HZ PAD	North Reference:	True
Well:	WEICHEL 28N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 28N-11HZ		
Design:	WEICHEL 28N-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	90.00	1,199.98	0.00	1.75	0.08	2.00	2.00	0.00
1,210.28	2.21	90.00	1,210.25	0.00	2.12	0.10	2.00	2.00	0.00
Start 5148.55 hold at 1210.28 MD									
1,300.00	2.21	90.00	1,299.91	0.00	5.58	0.26	0.00	0.00	0.00
1,400.00	2.21	90.00	1,399.83	0.00	9.42	0.44	0.00	0.00	0.00
1,500.00	2.21	90.00	1,499.76	0.00	13.27	0.61	0.00	0.00	0.00
1,600.00	2.21	90.00	1,599.68	0.00	17.12	0.79	0.00	0.00	0.00
1,700.00	2.21	90.00	1,699.61	0.00	20.97	0.97	0.00	0.00	0.00
1,800.00	2.21	90.00	1,799.54	0.00	24.82	1.15	0.00	0.00	0.00
1,900.00	2.21	90.00	1,899.46	0.00	28.67	1.33	0.00	0.00	0.00
2,000.00	2.21	90.00	1,999.39	0.00	32.51	1.50	0.00	0.00	0.00
2,100.00	2.21	90.00	2,099.31	0.00	36.36	1.68	0.00	0.00	0.00
2,200.00	2.21	90.00	2,199.24	0.00	40.21	1.86	0.00	0.00	0.00
2,300.00	2.21	90.00	2,299.17	0.00	44.06	2.04	0.00	0.00	0.00
2,400.00	2.21	90.00	2,399.09	0.00	47.91	2.22	0.00	0.00	0.00
2,500.00	2.21	90.00	2,499.02	0.00	51.76	2.39	0.00	0.00	0.00
2,600.00	2.21	90.00	2,598.94	0.00	55.61	2.57	0.00	0.00	0.00
2,700.00	2.21	90.00	2,698.87	0.00	59.45	2.75	0.00	0.00	0.00
2,800.00	2.21	90.00	2,798.80	0.00	63.30	2.93	0.00	0.00	0.00
2,900.00	2.21	90.00	2,898.72	0.00	67.15	3.11	0.00	0.00	0.00
3,000.00	2.21	90.00	2,998.65	0.00	71.00	3.28	0.00	0.00	0.00
3,100.00	2.21	90.00	3,098.57	0.00	74.85	3.46	0.00	0.00	0.00
3,200.00	2.21	90.00	3,198.50	0.00	78.70	3.64	0.00	0.00	0.00
3,300.00	2.21	90.00	3,298.42	0.00	82.55	3.82	0.00	0.00	0.00
3,400.00	2.21	90.00	3,398.35	0.00	86.39	4.00	0.00	0.00	0.00
3,500.00	2.21	90.00	3,498.28	0.00	90.24	4.18	0.00	0.00	0.00
3,600.00	2.21	90.00	3,598.20	0.00	94.09	4.35	0.00	0.00	0.00
3,700.00	2.21	90.00	3,698.13	0.00	97.94	4.53	0.00	0.00	0.00
3,800.00	2.21	90.00	3,798.05	0.00	101.79	4.71	0.00	0.00	0.00
3,900.00	2.21	90.00	3,897.98	0.00	105.64	4.89	0.00	0.00	0.00
3,902.02	2.21	90.00	3,900.00	0.00	105.71	4.89	0.00	0.00	0.00
PARKMAN									
4,000.00	2.21	90.00	3,997.91	0.00	109.49	5.07	0.00	0.00	0.00
4,100.00	2.21	90.00	4,097.83	0.00	113.33	5.24	0.00	0.00	0.00
4,200.00	2.21	90.00	4,197.76	0.00	117.18	5.42	0.00	0.00	0.00
4,270.29	2.21	90.00	4,268.00	0.00	119.89	5.55	0.00	0.00	0.00
SUSSEX									
4,300.00	2.21	90.00	4,297.68	0.00	121.03	5.60	0.00	0.00	0.00
4,400.00	2.21	90.00	4,397.61	0.00	124.88	5.78	0.00	0.00	0.00
4,500.00	2.21	90.00	4,497.54	0.00	128.73	5.96	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4902.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4902.00ft (Original Well Elev)
Site:	WELD_WEICHEL 36-14HZ PAD	North Reference:	True
Well:	WEICHEL 28N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 28N-11HZ		
Design:	WEICHEL 28N-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)
4,600.00	2.21	90.00	4,597.46	0.00	132.58	6.13	0.00	0.00	0.00
4,700.00	2.21	90.00	4,697.39	0.00	136.43	6.31	0.00	0.00	0.00
4,800.00	2.21	90.00	4,797.31	0.00	140.27	6.49	0.00	0.00	0.00
4,900.00	2.21	90.00	4,897.24	0.00	144.12	6.67	0.00	0.00	0.00
5,000.00	2.21	90.00	4,997.17	0.00	147.97	6.85	0.00	0.00	0.00
5,100.00	2.21	90.00	5,097.09	0.00	151.82	7.02	0.00	0.00	0.00
5,200.00	2.21	90.00	5,197.02	0.00	155.67	7.20	0.00	0.00	0.00
5,300.00	2.21	90.00	5,296.94	0.00	159.52	7.38	0.00	0.00	0.00
5,400.00	2.21	90.00	5,396.87	0.00	163.36	7.56	0.00	0.00	0.00
5,500.00	2.21	90.00	5,496.79	0.00	167.21	7.74	0.00	0.00	0.00
5,600.00	2.21	90.00	5,596.72	0.00	171.06	7.91	0.00	0.00	0.00
5,700.00	2.21	90.00	5,696.65	0.00	174.91	8.09	0.00	0.00	0.00
5,800.00	2.21	90.00	5,796.57	0.00	178.76	8.27	0.00	0.00	0.00
5,900.00	2.21	90.00	5,896.50	0.00	182.61	8.45	0.00	0.00	0.00
6,000.00	2.21	90.00	5,996.42	0.00	186.46	8.63	0.00	0.00	0.00
6,100.00	2.21	90.00	6,096.35	0.00	190.30	8.80	0.00	0.00	0.00
6,200.00	2.21	90.00	6,196.28	0.00	194.15	8.98	0.00	0.00	0.00
6,300.00	2.21	90.00	6,296.20	0.00	198.00	9.16	0.00	0.00	0.00
6,358.83	2.21	90.00	6,354.99	0.00	200.27	9.27	0.00	0.00	0.00
Start DLS 10.00 TFO -88.63									
6,400.00	4.72	29.20	6,396.09	1.48	201.88	10.82	10.00	6.10	-147.70
6,500.00	14.34	10.04	6,494.62	17.30	206.06	26.81	10.00	9.62	-19.16
6,600.00	24.26	6.27	6,588.88	50.00	210.47	59.68	10.00	9.93	-3.76
6,700.00	34.23	4.62	6,676.02	98.58	214.99	108.42	10.00	9.97	-1.66
6,800.00	44.21	3.64	6,753.40	161.58	219.48	171.55	10.00	9.98	-0.98
6,877.29	51.93	3.10	6,805.00	218.93	222.84	229.00	10.00	9.99	-0.70
SHARON SPRINGS									
6,900.00	54.20	2.96	6,818.65	237.06	223.80	247.16	10.00	9.99	-0.60
6,974.11	61.60	2.56	6,858.00	299.73	226.81	309.89	10.00	9.99	-0.54
NIOBRARA A									
7,000.00	64.19	2.44	6,869.80	322.75	227.82	332.94	10.00	9.99	-0.49
7,078.38	72.02	2.09	6,899.00	395.36	230.68	405.61	10.00	9.99	-0.45
NIOBRARA B									
7,100.00	74.18	2.00	6,905.28	416.04	231.42	426.29	10.00	9.99	-0.42
7,200.00	84.17	1.60	6,924.04	514.08	234.49	524.38	10.00	9.99	-0.40
7,258.60	90.03	1.37	6,927.00	572.56	236.00	582.86	10.00	9.99	-0.39
7"									
7,258.87	90.03	1.37	6,927.00	572.83	236.01	583.13	1.01	0.69	-0.74
Start 9349.58 hold at 7258.87 MD									
7,300.00	90.03	1.37	6,926.98	613.95	236.99	624.25	0.00	0.00	0.00
7,400.00	90.03	1.37	6,926.92	713.92	239.38	724.23	0.00	0.00	0.00
7,500.00	90.03	1.37	6,926.87	813.89	241.76	824.20	0.00	0.00	0.00
7,600.00	90.03	1.37	6,926.82	913.87	244.15	924.18	0.00	0.00	0.00
7,700.00	90.03	1.37	6,926.76	1,013.84	246.54	1,024.15	0.00	0.00	0.00
7,800.00	90.03	1.37	6,926.71	1,113.81	248.93	1,124.13	0.00	0.00	0.00
7,900.00	90.03	1.37	6,926.66	1,213.78	251.31	1,224.10	0.00	0.00	0.00
8,000.00	90.03	1.37	6,926.60	1,313.75	253.70	1,324.08	0.00	0.00	0.00
8,100.00	90.03	1.37	6,926.55	1,413.72	256.09	1,424.05	0.00	0.00	0.00
8,200.00	90.03	1.37	6,926.50	1,513.70	258.48	1,524.03	0.00	0.00	0.00
8,300.00	90.03	1.37	6,926.44	1,613.67	260.86	1,624.00	0.00	0.00	0.00
8,400.00	90.03	1.37	6,926.39	1,713.64	263.25	1,723.98	0.00	0.00	0.00
8,500.00	90.03	1.37	6,926.34	1,813.61	265.64	1,823.95	0.00	0.00	0.00
8,600.00	90.03	1.37	6,926.28	1,913.58	268.02	1,923.93	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4902.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4902.00ft (Original Well Elev)
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Well:	WEICHEL 28N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 28N-11HZ		
Design:	WEICHEL 28N-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)
8,700.00	90.03	1.37	6,926.23	2,013.55	270.41	2,023.90	0.00	0.00	0.00
8,800.00	90.03	1.37	6,926.18	2,113.52	272.80	2,123.88	0.00	0.00	0.00
8,900.00	90.03	1.37	6,926.12	2,213.50	275.19	2,223.85	0.00	0.00	0.00
9,000.00	90.03	1.37	6,926.07	2,313.47	277.57	2,323.83	0.00	0.00	0.00
9,100.00	90.03	1.37	6,926.02	2,413.44	279.96	2,423.80	0.00	0.00	0.00
9,200.00	90.03	1.37	6,925.96	2,513.41	282.35	2,523.78	0.00	0.00	0.00
9,300.00	90.03	1.37	6,925.91	2,613.38	284.74	2,623.75	0.00	0.00	0.00
9,400.00	90.03	1.37	6,925.86	2,713.35	287.12	2,723.73	0.00	0.00	0.00
9,500.00	90.03	1.37	6,925.80	2,813.32	289.51	2,823.70	0.00	0.00	0.00
9,600.00	90.03	1.37	6,925.75	2,913.30	291.90	2,923.68	0.00	0.00	0.00
9,700.00	90.03	1.37	6,925.69	3,013.27	294.29	3,023.65	0.00	0.00	0.00
9,800.00	90.03	1.37	6,925.64	3,113.24	296.67	3,123.63	0.00	0.00	0.00
9,900.00	90.03	1.37	6,925.59	3,213.21	299.06	3,223.60	0.00	0.00	0.00
10,000.00	90.03	1.37	6,925.53	3,313.18	301.45	3,323.58	0.00	0.00	0.00
10,100.00	90.03	1.37	6,925.48	3,413.15	303.84	3,423.55	0.00	0.00	0.00
10,200.00	90.03	1.37	6,925.43	3,513.12	306.22	3,523.53	0.00	0.00	0.00
10,300.00	90.03	1.37	6,925.37	3,613.10	308.61	3,623.50	0.00	0.00	0.00
10,400.00	90.03	1.37	6,925.32	3,713.07	311.00	3,723.48	0.00	0.00	0.00
10,500.00	90.03	1.37	6,925.27	3,813.04	313.39	3,823.45	0.00	0.00	0.00
10,600.00	90.03	1.37	6,925.21	3,913.01	315.77	3,923.43	0.00	0.00	0.00
10,700.00	90.03	1.37	6,925.16	4,012.98	318.16	4,023.40	0.00	0.00	0.00
10,800.00	90.03	1.37	6,925.11	4,112.95	320.55	4,123.38	0.00	0.00	0.00
10,900.00	90.03	1.37	6,925.05	4,212.93	322.94	4,223.35	0.00	0.00	0.00
11,000.00	90.03	1.37	6,925.00	4,312.90	325.32	4,323.33	0.00	0.00	0.00
11,100.00	90.03	1.37	6,924.95	4,412.87	327.71	4,423.30	0.00	0.00	0.00
11,200.00	90.03	1.37	6,924.89	4,512.84	330.10	4,523.28	0.00	0.00	0.00
11,300.00	90.03	1.37	6,924.84	4,612.81	332.48	4,623.25	0.00	0.00	0.00
11,400.00	90.03	1.37	6,924.79	4,712.78	334.87	4,723.23	0.00	0.00	0.00
11,500.00	90.03	1.37	6,924.73	4,812.75	337.26	4,823.20	0.00	0.00	0.00
11,600.00	90.03	1.37	6,924.68	4,912.73	339.65	4,923.18	0.00	0.00	0.00
11,700.00	90.03	1.37	6,924.63	5,012.70	342.03	5,023.15	0.00	0.00	0.00
11,800.00	90.03	1.37	6,924.57	5,112.67	344.42	5,123.13	0.00	0.00	0.00
11,900.00	90.03	1.37	6,924.52	5,212.64	346.81	5,223.10	0.00	0.00	0.00
12,000.00	90.03	1.37	6,924.46	5,312.61	349.20	5,323.08	0.00	0.00	0.00
12,100.00	90.03	1.37	6,924.41	5,412.58	351.58	5,423.05	0.00	0.00	0.00
12,200.00	90.03	1.37	6,924.36	5,512.55	353.97	5,523.03	0.00	0.00	0.00
12,300.00	90.03	1.37	6,924.30	5,612.53	356.36	5,623.00	0.00	0.00	0.00
12,400.00	90.03	1.37	6,924.25	5,712.50	358.75	5,722.98	0.00	0.00	0.00
12,500.00	90.03	1.37	6,924.20	5,812.47	361.13	5,822.95	0.00	0.00	0.00
12,600.00	90.03	1.37	6,924.14	5,912.44	363.52	5,922.93	0.00	0.00	0.00
12,700.00	90.03	1.37	6,924.09	6,012.41	365.91	6,022.90	0.00	0.00	0.00
12,800.00	90.03	1.37	6,924.04	6,112.38	368.30	6,122.88	0.00	0.00	0.00
12,900.00	90.03	1.37	6,923.98	6,212.36	370.68	6,222.85	0.00	0.00	0.00
13,000.00	90.03	1.37	6,923.93	6,312.33	373.07	6,322.83	0.00	0.00	0.00
13,100.00	90.03	1.37	6,923.88	6,412.30	375.46	6,422.80	0.00	0.00	0.00
13,200.00	90.03	1.37	6,923.82	6,512.27	377.85	6,522.78	0.00	0.00	0.00
13,300.00	90.03	1.37	6,923.77	6,612.24	380.23	6,622.75	0.00	0.00	0.00
13,400.00	90.03	1.37	6,923.72	6,712.21	382.62	6,722.73	0.00	0.00	0.00
13,500.00	90.03	1.37	6,923.66	6,812.18	385.01	6,822.70	0.00	0.00	0.00
13,600.00	90.03	1.37	6,923.61	6,912.16	387.39	6,922.68	0.00	0.00	0.00
13,700.00	90.03	1.37	6,923.56	7,012.13	389.78	7,022.65	0.00	0.00	0.00
13,800.00	90.03	1.37	6,923.50	7,112.10	392.17	7,122.63	0.00	0.00	0.00
13,900.00	90.03	1.37	6,923.45	7,212.07	394.56	7,222.60	0.00	0.00	0.00
14,000.00	90.03	1.37	6,923.40	7,312.04	396.94	7,322.58	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 28N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4902.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4902.00ft (Original Well Elev)
Site:	WELD_WEICHEL 36-14HZ PAD	North Reference:	True
Well:	WEICHEL 28N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 28N-11HZ		
Design:	WEICHEL 28N-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)
14,100.00	90.03	1.37	6,923.34	7,412.01	399.33	7,422.55	0.00	0.00	0.00
14,200.00	90.03	1.37	6,923.29	7,511.98	401.72	7,522.52	0.00	0.00	0.00
14,300.00	90.03	1.37	6,923.23	7,611.96	404.11	7,622.50	0.00	0.00	0.00
14,400.00	90.03	1.37	6,923.18	7,711.93	406.49	7,722.47	0.00	0.00	0.00
14,500.00	90.03	1.37	6,923.13	7,811.90	408.88	7,822.45	0.00	0.00	0.00
14,600.00	90.03	1.37	6,923.07	7,911.87	411.27	7,922.42	0.00	0.00	0.00
14,700.00	90.03	1.37	6,923.02	8,011.84	413.66	8,022.40	0.00	0.00	0.00
14,800.00	90.03	1.37	6,922.97	8,111.81	416.04	8,122.37	0.00	0.00	0.00
14,900.00	90.03	1.37	6,922.91	8,211.78	418.43	8,222.35	0.00	0.00	0.00
15,000.00	90.03	1.37	6,922.86	8,311.76	420.82	8,322.32	0.00	0.00	0.00
15,100.00	90.03	1.37	6,922.81	8,411.73	423.21	8,422.30	0.00	0.00	0.00
15,200.00	90.03	1.37	6,922.75	8,511.70	425.59	8,522.27	0.00	0.00	0.00
15,300.00	90.03	1.37	6,922.70	8,611.67	427.98	8,622.25	0.00	0.00	0.00
15,400.00	90.03	1.37	6,922.65	8,711.64	430.37	8,722.22	0.00	0.00	0.00
15,500.00	90.03	1.37	6,922.59	8,811.61	432.76	8,822.20	0.00	0.00	0.00
15,600.00	90.03	1.37	6,922.54	8,911.59	435.14	8,922.17	0.00	0.00	0.00
15,700.00	90.03	1.37	6,922.49	9,011.56	437.53	9,022.15	0.00	0.00	0.00
15,800.00	90.03	1.37	6,922.43	9,111.53	439.92	9,122.12	0.00	0.00	0.00
15,900.00	90.03	1.37	6,922.38	9,211.50	442.31	9,222.10	0.00	0.00	0.00
16,000.00	90.03	1.37	6,922.33	9,311.47	444.69	9,322.07	0.00	0.00	0.00
16,100.00	90.03	1.37	6,922.27	9,411.44	447.08	9,422.05	0.00	0.00	0.00
16,200.00	90.03	1.37	6,922.22	9,511.41	449.47	9,522.02	0.00	0.00	0.00
16,300.00	90.03	1.37	6,922.17	9,611.39	451.85	9,622.00	0.00	0.00	0.00
16,400.00	90.03	1.37	6,922.11	9,711.36	454.24	9,721.97	0.00	0.00	0.00
16,500.00	90.03	1.37	6,922.06	9,811.33	456.63	9,821.95	0.00	0.00	0.00
16,600.00	90.03	1.37	6,922.00	9,911.30	459.02	9,921.92	0.00	0.00	0.00
16,608.45	90.03	1.37	6,922.00	9,919.75	459.22	9,930.37	0.00	0.00	0.00
TD at 16608.45 - WEICHEL 28N-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 28N-11HZ BHL	0.00	0.00	6,922.00	9,919.75	459.22	1,302,025.91	3,242,961.24	40.159187	-104.630714
- 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	13-1/2	
7,258.60	6,927.00	7"	7	8-3/4	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 28N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 4902.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 4902.00ft (Original Well Elev)
Site:	WELD_WEICHEL 36-14HZ PAD	North Reference:	True
Well:	WEICHEL 28N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 28N-11HZ		
Design:	WEICHEL 28N-11HZ (wp01)		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,902.02	3,900.00	PARKMAN		0.00	
4,270.29	4,268.00	SUSSEX		0.00	
6,877.29	6,805.00	SHARON SPRINGS		0.00	
6,974.11	6,858.00	NIOBRARA A		0.00	
7,078.38	6,899.00	NIOBRARA B		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
1,210.28	1,210.25	0.00	2.12	Start 5148.55 hold at 1210.28 MD
6,358.83	6,354.99	0.00	200.27	Start DLS 10.00 TFO -88.63
7,258.87	6,927.00	572.83	236.01	Start 9349.58 hold at 7258.87 MD
16,608.45	6,922.00	9,919.75	459.22	TD at 16608.45