

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_WEISS PAD**

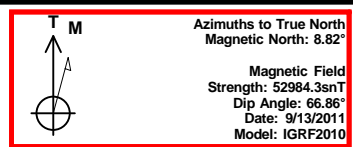
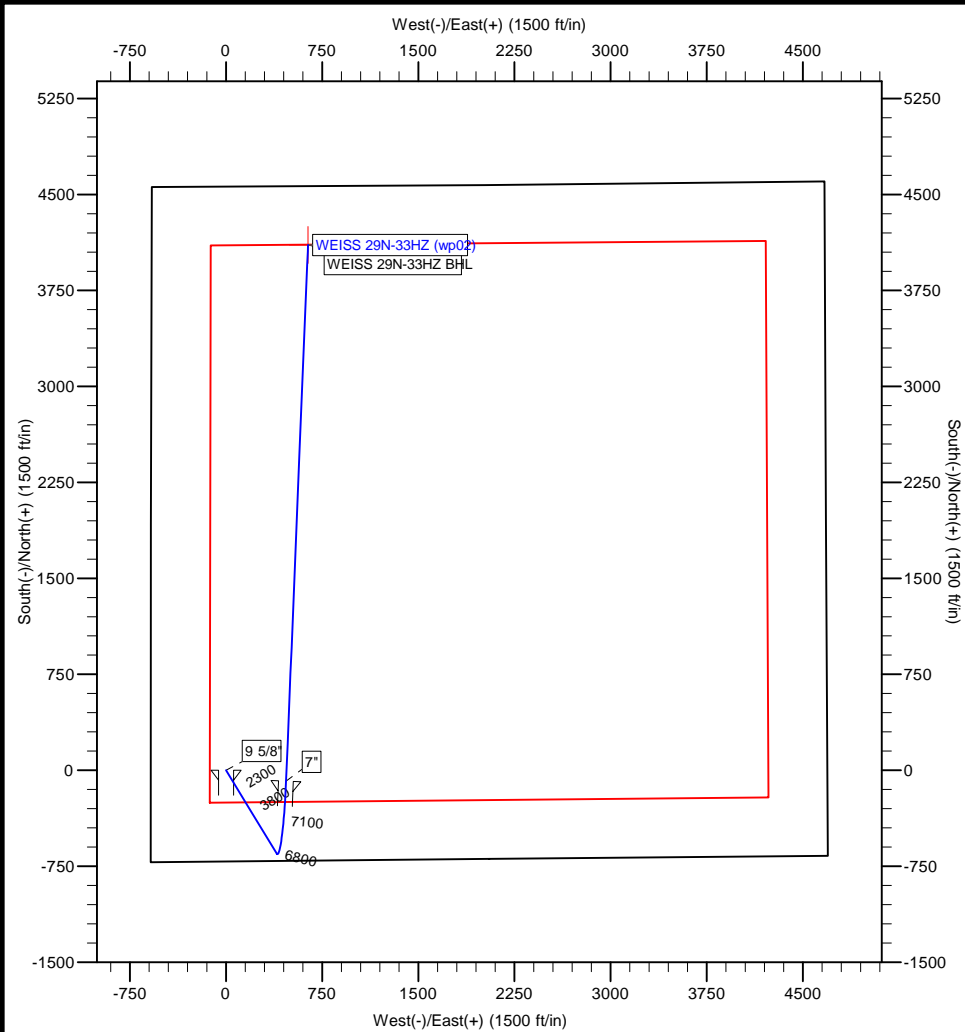
**WEISS 29N-33HZ**

**WEISS 29N-33HZ**

**Plan: WEISS 29N-33HZ (wp02)**

## **Standard Planning Report**

**08 December, 2011**



Project: COLORADO NORTHERN ZONE - 83  
Site: WELD WEISS PAD  
Well: WEISS 29N-33HZ  
Wellbore: WEISS 29N-33HZ  
Section:  
SHL:  
Design: WEISS 29N-33HZ (wp02)  
Latitude: 40.176157  
Longitude: -104.789531  
GL: 4914.01  
KB: 17' RKB + 4914' GL @ 4931.01ft

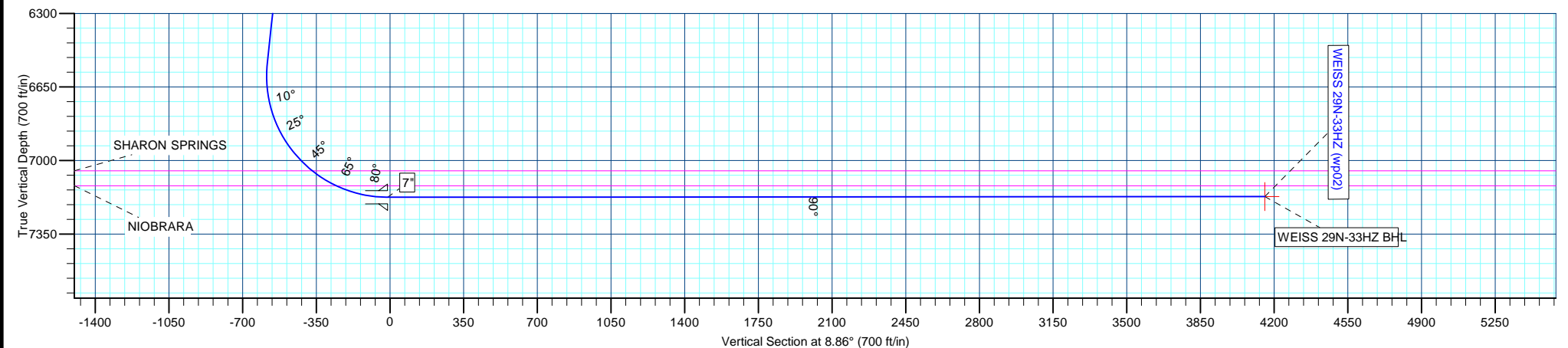
WELL DETAILS: WEISS 29N-33HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4914.01 Latitude	Longitude	Slot
0.00	0.00	1307812.15	3198524.18	40.176157	-104.789531	

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
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00
1245.79	7.92	148.68	1244.54	-23.32	14.19	2.00	148.68	-20.86
6590.44	7.92	148.68	6538.26	-652.12	396.79	0.00	0.00	-583.23
7556.69	90.04	2.33	7175.01	-85.00	469.00	10.00	-146.09	-11.75
7557.41	90.04	2.34	7175.01	-84.27	469.03	1.00	90.00	-11.03
11751.40	90.04	2.34	7172.01	4106.23	640.07	0.00	0.00	4155.81

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)							
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	Point
WEISS 29N-33HZ BHL	7172.01	4106.23	640.07	40.187429	-104.787240		

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3133.01	3152.43	PARKMAN
4385.01	4416.48	SUSSEX
7049.01	7168.36	SHARON SPRINGS
7121.01	7305.14	NIOBRARA

CASING DETAILS			
TVD	MD	Name	Size
700.00	700.00	9 5/8"	9-5/8
7175.01	7556.69	7"	7



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well WEISS 29N-33HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	17' RKB + 4914' GL @ 4931.01ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	17' RKB + 4914' GL @ 4931.01ft
<b>Site:</b>	WELD_WEISS PAD	<b>North Reference:</b>	True
<b>Well:</b>	WEISS 29N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WEISS 29N-33HZ		
<b>Design:</b>	WEISS 29N-33HZ (wp02)		

<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_WEISS PAD			
Site Position:		Northing:	1,307,811.68 usft	Latitude:	40.176156
From:	Lat/Long	Easting:	3,198,507.98 usft	Longitude:	-104.789589
Position Uncertainty:	0.00 ft	Slot Radius:	0 "	Grid Convergence:	0.46 °

Well	WEISS 29N-33HZ					
Well Position	+N-S	0.34 ft	Northing:	1,307,812.15 usft	Latitude:	40.176157
	+E-W	16.21 ft	Easting:	3,198,524.18 usft	Longitude:	-104.789531
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,914.01 ft

<b>Wellbore</b>	WEISS 29N-33HZ				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	9/13/2011	8.82	66.86	52,984

<b>Design</b>	WEISS 29N-33HZ (wp02)			
<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	8.86

<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	
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,245.79	7.92	148.68	1,244.54	-23.32	14.19	2.00	2.00	0.00	148.68	
6,590.44	7.92	148.68	6,538.26	-652.12	396.79	0.00	0.00	0.00	0.00	
7,556.69	90.04	2.33	7,175.01	-85.00	469.00	10.00	8.50	-15.15	-146.09	
7,557.41	90.04	2.34	7,175.01	-84.27	469.03	1.00	0.00	1.00	90.00	
11,751.40	90.04	2.34	7,172.01	4,106.23	640.07	0.00	0.00	0.00	0.00	WEISS 29N-33HZ BH

# Anadarko Petroleum Corp

## Planning Report

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<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	17' RKB + 4914' GL @ 4931.01ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	17' RKB + 4914' GL @ 4931.01ft
<b>Site:</b>	WELD_ WEISS PAD	<b>North Reference:</b>	True
<b>Well:</b>	WEISS 29N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WEISS 29N-33HZ		
<b>Design:</b>	WEISS 29N-33HZ (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
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
900.00	1.00	148.68	900.00	-0.37	0.23	-0.33	2.00	2.00	0.00
1,000.00	3.00	148.68	999.93	-3.35	2.04	-3.00	2.00	2.00	0.00
1,100.00	5.00	148.68	1,099.68	-9.31	5.67	-8.33	2.00	2.00	0.00
1,200.00	7.00	148.68	1,199.13	-18.24	11.10	-16.31	2.00	2.00	0.00
1,245.79	7.92	148.68	1,244.54	-23.32	14.19	-20.86	2.00	2.00	0.00
Start 5344.65 hold at 1245.79 MD									
1,300.00	7.92	148.68	1,298.23	-29.70	18.07	-26.56	0.00	0.00	0.00
1,400.00	7.92	148.68	1,397.27	-41.46	25.23	-37.08	0.00	0.00	0.00
1,500.00	7.92	148.68	1,496.32	-53.23	32.39	-47.60	0.00	0.00	0.00
1,600.00	7.92	148.68	1,595.37	-64.99	39.55	-58.13	0.00	0.00	0.00
1,700.00	7.92	148.68	1,694.41	-76.76	46.70	-68.65	0.00	0.00	0.00
1,800.00	7.92	148.68	1,793.46	-88.52	53.86	-79.17	0.00	0.00	0.00
1,900.00	7.92	148.68	1,892.51	-100.29	61.02	-89.69	0.00	0.00	0.00
2,000.00	7.92	148.68	1,991.56	-112.05	68.18	-100.21	0.00	0.00	0.00
2,100.00	7.92	148.68	2,090.60	-123.82	75.34	-110.74	0.00	0.00	0.00
2,200.00	7.92	148.68	2,189.65	-135.58	82.50	-121.26	0.00	0.00	0.00
2,300.00	7.92	148.68	2,288.70	-147.35	89.66	-131.78	0.00	0.00	0.00
2,400.00	7.92	148.68	2,387.74	-159.11	96.81	-142.30	0.00	0.00	0.00
2,500.00	7.92	148.68	2,486.79	-170.88	103.97	-152.83	0.00	0.00	0.00
2,600.00	7.92	148.68	2,585.84	-182.64	111.13	-163.35	0.00	0.00	0.00
2,700.00	7.92	148.68	2,684.89	-194.41	118.29	-173.87	0.00	0.00	0.00
2,800.00	7.92	148.68	2,783.93	-206.17	125.45	-184.39	0.00	0.00	0.00
2,900.00	7.92	148.68	2,882.98	-217.94	132.61	-194.91	0.00	0.00	0.00
3,000.00	7.92	148.68	2,982.03	-229.70	139.77	-205.44	0.00	0.00	0.00
3,100.00	7.92	148.68	3,081.07	-241.47	146.92	-215.96	0.00	0.00	0.00
3,152.43	7.92	148.68	3,133.01	-247.64	150.68	-221.48	0.00	0.00	0.00
PARKMAN									
3,200.00	7.92	148.68	3,180.12	-253.23	154.08	-226.48	0.00	0.00	0.00
3,300.00	7.92	148.68	3,279.17	-265.00	161.24	-237.00	0.00	0.00	0.00
3,400.00	7.92	148.68	3,378.22	-276.76	168.40	-247.53	0.00	0.00	0.00
3,500.00	7.92	148.68	3,477.26	-288.53	175.56	-258.05	0.00	0.00	0.00
3,600.00	7.92	148.68	3,576.31	-300.29	182.72	-268.57	0.00	0.00	0.00
3,700.00	7.92	148.68	3,675.36	-312.06	189.88	-279.09	0.00	0.00	0.00
3,800.00	7.92	148.68	3,774.40	-323.82	197.03	-289.61	0.00	0.00	0.00
3,900.00	7.92	148.68	3,873.45	-335.59	204.19	-300.14	0.00	0.00	0.00
4,000.00	7.92	148.68	3,972.50	-347.35	211.35	-310.66	0.00	0.00	0.00
4,100.00	7.92	148.68	4,071.55	-359.12	218.51	-321.18	0.00	0.00	0.00
4,200.00	7.92	148.68	4,170.59	-370.89	225.67	-331.70	0.00	0.00	0.00
4,300.00	7.92	148.68	4,269.64	-382.65	232.83	-342.22	0.00	0.00	0.00
4,400.00	7.92	148.68	4,368.69	-394.42	239.99	-352.75	0.00	0.00	0.00
4,416.48	7.92	148.68	4,385.01	-396.35	241.17	-354.48	0.00	0.00	0.00
SUSSEX									

# Anadarko Petroleum Corp

## Planning Report

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<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	17' RKB + 4914' GL @ 4931.01ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	17' RKB + 4914' GL @ 4931.01ft
<b>Site:</b>	WELD_WEISS PAD	<b>North Reference:</b>	True
<b>Well:</b>	WEISS 29N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WEISS 29N-33HZ		
<b>Design:</b>	WEISS 29N-33HZ (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)
4,500.00	7.92	148.68	4,467.73	-406.18	247.14	-363.27	0.00	0.00	0.00
4,600.00	7.92	148.68	4,566.78	-417.95	254.30	-373.79	0.00	0.00	0.00
4,700.00	7.92	148.68	4,665.83	-429.71	261.46	-384.31	0.00	0.00	0.00
4,800.00	7.92	148.68	4,764.88	-441.48	268.62	-394.84	0.00	0.00	0.00
4,900.00	7.92	148.68	4,863.92	-453.24	275.78	-405.36	0.00	0.00	0.00
5,000.00	7.92	148.68	4,962.97	-465.01	282.94	-415.88	0.00	0.00	0.00
5,100.00	7.92	148.68	5,062.02	-476.77	290.10	-426.40	0.00	0.00	0.00
5,200.00	7.92	148.68	5,161.06	-488.54	297.25	-436.92	0.00	0.00	0.00
5,300.00	7.92	148.68	5,260.11	-500.30	304.41	-447.45	0.00	0.00	0.00
5,400.00	7.92	148.68	5,359.16	-512.07	311.57	-457.97	0.00	0.00	0.00
5,500.00	7.92	148.68	5,458.21	-523.83	318.73	-468.49	0.00	0.00	0.00
5,600.00	7.92	148.68	5,557.25	-535.60	325.89	-479.01	0.00	0.00	0.00
5,700.00	7.92	148.68	5,656.30	-547.36	333.05	-489.54	0.00	0.00	0.00
5,800.00	7.92	148.68	5,755.35	-559.13	340.21	-500.06	0.00	0.00	0.00
5,900.00	7.92	148.68	5,854.39	-570.89	347.36	-510.58	0.00	0.00	0.00
6,000.00	7.92	148.68	5,953.44	-582.66	354.52	-521.10	0.00	0.00	0.00
6,100.00	7.92	148.68	6,052.49	-594.42	361.68	-531.62	0.00	0.00	0.00
6,200.00	7.92	148.68	6,151.54	-606.19	368.84	-542.15	0.00	0.00	0.00
6,300.00	7.92	148.68	6,250.58	-617.95	376.00	-552.67	0.00	0.00	0.00
6,400.00	7.92	148.68	6,349.63	-629.72	383.16	-563.19	0.00	0.00	0.00
6,500.00	7.92	148.68	6,448.68	-641.48	390.32	-573.71	0.00	0.00	0.00
6,590.44	7.92	148.68	6,538.26	-652.12	396.79	-583.23	0.00	0.00	0.00
Start DLS 10.00 TFO -146.09									
6,600.00	7.14	144.39	6,547.73	-653.17	397.48	-584.16	10.00	-8.09	-44.90
6,700.00	6.20	47.47	6,647.31	-654.57	405.10	-584.37	10.00	-0.94	-96.92
6,800.00	15.02	19.02	6,745.55	-638.63	413.33	-567.35	10.00	8.81	-28.44
6,900.00	24.74	11.96	6,839.49	-605.82	421.91	-533.61	10.00	9.72	-7.06
7,000.00	34.62	8.74	6,926.27	-557.15	430.58	-484.18	10.00	9.88	-3.22
7,100.00	44.55	6.82	7,003.25	-494.09	439.09	-420.56	10.00	9.93	-1.92
7,168.36	51.34	5.87	7,049.01	-443.67	444.67	-369.89	10.00	9.95	-1.40
SHARON SPRINGS									
7,200.00	54.49	5.48	7,068.09	-418.55	447.16	-344.69	10.00	9.95	-1.21
7,300.00	64.45	4.44	7,118.82	-332.84	454.57	-258.86	10.00	9.96	-1.04
7,305.14	64.97	4.40	7,121.01	-328.21	454.93	-254.22	10.00	9.96	-0.94
NIOBRARA									
7,400.00	74.42	3.56	7,153.90	-239.56	461.07	-165.69	10.00	9.97	-0.88
7,500.00	84.39	2.77	7,172.26	-141.54	466.48	-68.00	10.00	9.97	-0.80
7,556.69	90.04	2.33	7,175.01	-85.00	469.00	-11.75	10.00	9.97	-0.77
Start DLS 1.00 TFO 90.00 - 7"									
7,557.41	90.04	2.34	7,175.01	-84.27	469.03	-11.03	1.01	0.00	1.01
Start 4193.99 hold at 7557.41 MD									
7,600.00	90.04	2.34	7,174.98	-41.72	470.77	31.28	0.00	0.00	0.00
7,700.00	90.04	2.34	7,174.91	58.20	474.84	130.64	0.00	0.00	0.00
7,800.00	90.04	2.34	7,174.84	158.11	478.92	229.99	0.00	0.00	0.00
7,900.00	90.04	2.34	7,174.77	258.03	483.00	329.34	0.00	0.00	0.00
8,000.00	90.04	2.34	7,174.70	357.95	487.08	428.69	0.00	0.00	0.00
8,100.00	90.04	2.34	7,174.63	457.86	491.16	528.05	0.00	0.00	0.00
8,200.00	90.04	2.34	7,174.55	557.78	495.24	627.40	0.00	0.00	0.00
8,300.00	90.04	2.34	7,174.48	657.70	499.31	726.75	0.00	0.00	0.00
8,400.00	90.04	2.34	7,174.41	757.61	503.39	826.10	0.00	0.00	0.00
8,500.00	90.04	2.34	7,174.34	857.53	507.47	925.46	0.00	0.00	0.00
8,600.00	90.04	2.34	7,174.27	957.45	511.55	1,024.81	0.00	0.00	0.00
8,700.00	90.04	2.34	7,174.20	1,057.36	515.63	1,124.16	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>	17' RKB + 4914' GL @ 4931.01ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	17' RKB + 4914' GL @ 4931.01ft
<b>Site:</b>	WELD_WEISS PAD	<b>North Reference:</b>	True
<b>Well:</b>	WEISS 29N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WEISS 29N-33HZ		
<b>Design:</b>	WEISS 29N-33HZ (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)	
8,800.00	90.04	2.34	7,174.13	1,157.28	519.70	1,223.52	0.00	0.00	0.00	
8,900.00	90.04	2.34	7,174.05	1,257.20	523.78	1,322.87	0.00	0.00	0.00	
9,000.00	90.04	2.34	7,173.98	1,357.11	527.86	1,422.22	0.00	0.00	0.00	
9,100.00	90.04	2.34	7,173.91	1,457.03	531.94	1,521.57	0.00	0.00	0.00	
9,200.00	90.04	2.34	7,173.84	1,556.95	536.02	1,620.93	0.00	0.00	0.00	
9,300.00	90.04	2.34	7,173.77	1,656.86	540.10	1,720.28	0.00	0.00	0.00	
9,400.00	90.04	2.34	7,173.70	1,756.78	544.17	1,819.63	0.00	0.00	0.00	
9,500.00	90.04	2.34	7,173.62	1,856.70	548.25	1,918.98	0.00	0.00	0.00	
9,600.00	90.04	2.34	7,173.55	1,956.61	552.33	2,018.34	0.00	0.00	0.00	
9,700.00	90.04	2.34	7,173.48	2,056.53	556.41	2,117.69	0.00	0.00	0.00	
9,800.00	90.04	2.34	7,173.41	2,156.45	560.49	2,217.04	0.00	0.00	0.00	
9,900.00	90.04	2.34	7,173.34	2,256.36	564.57	2,316.40	0.00	0.00	0.00	
10,000.00	90.04	2.34	7,173.27	2,356.28	568.64	2,415.75	0.00	0.00	0.00	
10,100.00	90.04	2.34	7,173.20	2,456.20	572.72	2,515.10	0.00	0.00	0.00	
10,200.00	90.04	2.34	7,173.12	2,556.12	576.80	2,614.45	0.00	0.00	0.00	
10,300.00	90.04	2.34	7,173.05	2,656.03	580.88	2,713.81	0.00	0.00	0.00	
10,400.00	90.04	2.34	7,172.98	2,755.95	584.96	2,813.16	0.00	0.00	0.00	
10,500.00	90.04	2.34	7,172.91	2,855.87	589.03	2,912.51	0.00	0.00	0.00	
10,600.00	90.04	2.34	7,172.84	2,955.78	593.11	3,011.86	0.00	0.00	0.00	
10,700.00	90.04	2.34	7,172.77	3,055.70	597.19	3,111.22	0.00	0.00	0.00	
10,800.00	90.04	2.34	7,172.69	3,155.62	601.27	3,210.57	0.00	0.00	0.00	
10,900.00	90.04	2.34	7,172.62	3,255.53	605.35	3,309.92	0.00	0.00	0.00	
11,000.00	90.04	2.34	7,172.55	3,355.45	609.43	3,409.27	0.00	0.00	0.00	
11,100.00	90.04	2.34	7,172.48	3,455.37	613.50	3,508.63	0.00	0.00	0.00	
11,200.00	90.04	2.34	7,172.41	3,555.28	617.58	3,607.98	0.00	0.00	0.00	
11,300.00	90.04	2.34	7,172.34	3,655.20	621.66	3,707.33	0.00	0.00	0.00	
11,400.00	90.04	2.34	7,172.27	3,755.12	625.74	3,806.69	0.00	0.00	0.00	
11,500.00	90.04	2.34	7,172.19	3,855.03	629.82	3,906.04	0.00	0.00	0.00	
11,600.00	90.04	2.34	7,172.12	3,954.95	633.89	4,005.39	0.00	0.00	0.00	
11,700.00	90.04	2.34	7,172.05	4,054.87	637.97	4,104.74	0.00	0.00	0.00	
11,751.40	90.04	2.34	7,172.01	4,106.23	640.07	4,155.81	0.00	0.00	0.00	
TD at 11751.40 - WEISS 29N-33HZ 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									
WEISS 29N-33HZ BHL	0.00	0.00	7,172.01	4,106.23	640.07	1,311,923.36	3,199,131.33	40.187429	-104.787240
- plan hits target center									
- Point									

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	
7,556.69	7,175.01	7"	7	8-3/4	

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well WEISS 29N-33HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	17' RKB + 4914' GL @ 4931.01ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	17' RKB + 4914' GL @ 4931.01ft
<b>Site:</b>	WELD_WEISS PAD	<b>North Reference:</b>	True
<b>Well:</b>	WEISS 29N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	WEISS 29N-33HZ		
<b>Design:</b>	WEISS 29N-33HZ (wp02)		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,152.43	3,133.01	PARKMAN		0.00	
4,416.48	4,385.01	SUSSEX		0.00	
7,168.36	7,049.01	SHARON SPRINGS		0.00	
7,305.14	7,121.01	NIOBRARA		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
850.00	850.00	0.00	0.00	Start Build 2.00
1,245.79	1,244.54	-23.32	14.19	Start 5344.65 hold at 1245.79 MD
6,590.44	6,538.26	-652.12	396.79	Start DLS 10.00 TFO -146.09
7,556.69	7,175.01	-85.00	469.00	Start DLS 1.00 TFO 90.00
7,557.41	7,175.01	-84.27	469.03	Start 4193.99 hold at 7557.41 MD
11,751.40	7,172.01	4,106.23	640.07	TD at 11751.40