

US ROCKIES REGION PLANNING

COLORADO-NAD83-UTMFT13N

WELD_BELLA FED 36-8HZ

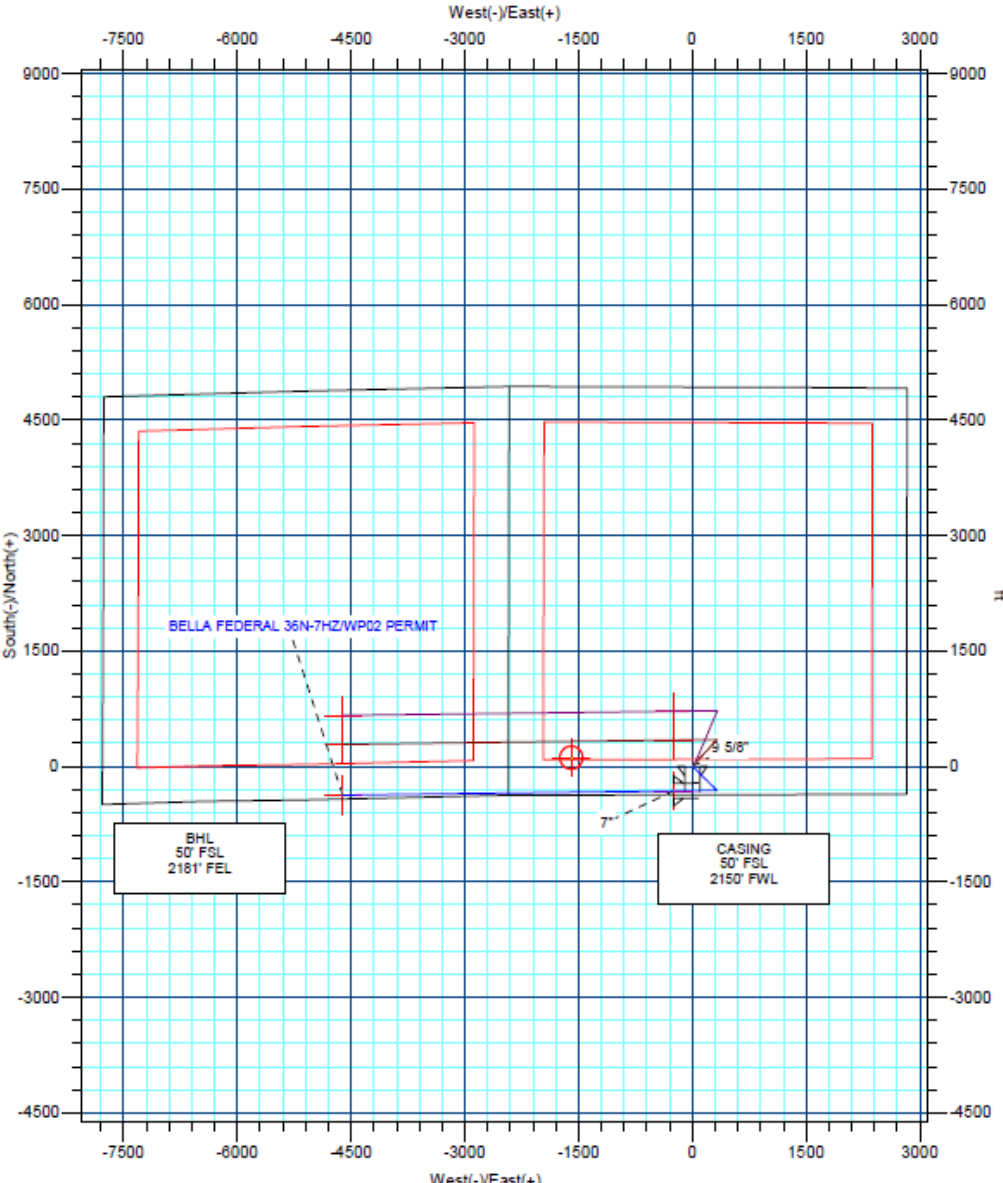
BELLA FEDERAL 36N-7HZ

Wellbore #1

Plan: WP02 PERMIT

Standard Planning Report

25 April, 2013



Azimuths to True North
 Magnetic North: 8.63°
 Magnetic Field Strength: 52853.4snT
 Dip Angle: 66.85°
 Date: 3/21/2013
 Model: IGRF2010



Project: COLORADO-NAD83-UTMFT13N
Site: WELD BELLA FED 36-8HZ
Well: BELLA FEDERAL 36N-7HZ
Wellbore: Wellbore #1
Design: WP02 PERMIT
Latitude: 40.233048
Longitude: -104.802044
GL: 4878.00
KB: 17'RKB+4878'GL @ 4895.00ft

WELL DETAILS: BELLA FEDERAL 36N-7HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	4878.00 Latitude	Longitude	Slot
0.00	0.00	14611659.02	1695665.53	40.233048	-104.802044	

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
1347.28	4.95	136.82	1346.97	-7.78	7.30	2.00	136.82	-6.65
6077.99	4.95	136.82	6060.07	-305.15	286.40	0.00	0.00	-260.84
6325.27	0.00	0.00	6307.04	-312.93	293.70	2.00	180.00	-267.49
6625.27	0.00	0.00	6607.04	-312.93	293.70	0.00	0.00	-267.49
7525.27	90.00	269.30	7180.00	-319.97	-279.22	10.00	269.30	304.13
11855.47	90.00	269.30	7180.00	-373.19	-4609.09	0.00	0.00	4624.18

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

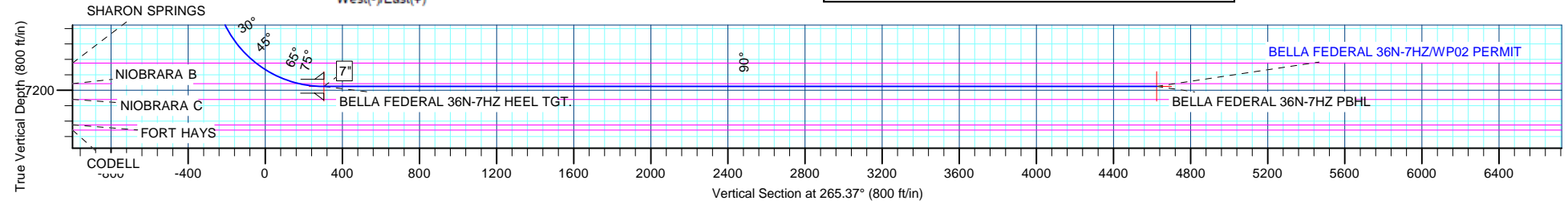
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
BELLA FEDERAL 36N-7HZ HEEL TGT.	7180.00	-319.97	-279.22	40.232169	-104.803044	Point
BELLA FEDERAL 36N-7HZ PBHL	7180.00	-373.19	-4609.09	40.232022	-104.818558	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
711.00	711.00	NIORARA A
861.00	861.00	FOX HILLS BASE
2502.00	2506.62	PARKMAN
3885.00	3894.79	SUSSEX
7059.00	7146.02	SHARON SPRINGS
7165.00	7393.88	NIORARA B

CASING DETAILS

TVD	MD	Name	Size
911.00	911.00	9 5/8"	9-5/8
7180.00	7525.27	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well BELLA FEDERAL 36N-7HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17'RKB+4878'GL @ 4895.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17'RKB+4878'GL @ 4895.00ft
Site:	WELD_BELLA FED 36-8HZ	North Reference:	True
Well:	BELLA FEDERAL 36N-7HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	WP02 PERMIT		

Project COLORADO-NAD83-UTMFT13N			
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site WELD_BELLA FED 36-8HZ			
Site Position:		Northing:	14,613,420.87 usft
From:	Lat/Long	Easting:	1,695,687.27 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	40.237886
		Longitude:	-104.801952
		Grid Convergence:	0.13 °

Well BELLA FEDERAL 36N-7HZ			
Well Position	+N/-S	-1,761.80 ft	Northing: 14,611,659.02 usft
	+E/-W	-25.68 ft	Easting: 1,695,665.52 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:
			Latitude: 40.233048
			Longitude: -104.802044
			Ground Level: 4,878.00 ft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/21/2013	8.63	66.85	52,853

Design WP02 PERMIT				
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	265.37

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	
1,347.28	4.95	136.82	1,346.97	-7.78	7.30	2.00	2.00	0.00	136.82	
6,077.99	4.95	136.82	6,060.07	-305.15	286.40	0.00	0.00	0.00	0.00	
6,325.27	0.00	0.00	6,307.04	-312.93	293.70	2.00	-2.00	0.00	180.00	
6,625.27	0.00	0.00	6,607.04	-312.93	293.70	0.00	0.00	0.00	0.00	
7,525.27	90.00	269.30	7,180.00	-319.97	-279.22	10.00	10.00	0.00	269.30	
11,855.47	90.00	269.30	7,180.00	-373.19	-4,609.09	0.00	0.00	0.00	0.00	BELLA FEDERAL 36I

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	17'RKB+4878'GL @ 4895.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17'RKB+4878'GL @ 4895.00ft
Site:	WELD_BELLA FED 36-8HZ	North Reference:	True
Well:	BELLA FEDERAL 36N-7HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	WP02 PERMIT		

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	
711.00	0.00	0.00	711.00	0.00	0.00	0.00	0.00	0.00	0.00	
NIORARA A										
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
861.00	0.00	0.00	861.00	0.00	0.00	0.00	0.00	0.00	0.00	
FOX HILLS BASE										
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
911.00	0.00	0.00	911.00	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	
BEGIN NUDGE										
1,200.00	2.00	136.82	1,199.98	-1.27	1.19	-1.09	2.00	2.00	0.00	
1,300.00	4.00	136.82	1,299.84	-5.09	4.78	-4.35	2.00	2.00	0.00	
1,347.28	4.95	136.82	1,346.97	-7.78	7.30	-6.65	2.00	2.00	0.00	
BEGIN HOLD										
1,400.00	4.95	136.82	1,399.50	-11.09	10.41	-9.48	0.00	0.00	0.00	
1,500.00	4.95	136.82	1,499.12	-17.38	16.31	-14.85	0.00	0.00	0.00	
1,600.00	4.95	136.82	1,598.75	-23.66	22.21	-20.23	0.00	0.00	0.00	
1,700.00	4.95	136.82	1,698.38	-29.95	28.11	-25.60	0.00	0.00	0.00	
1,800.00	4.95	136.82	1,798.01	-36.24	34.01	-30.97	0.00	0.00	0.00	
1,900.00	4.95	136.82	1,897.64	-42.52	39.91	-36.35	0.00	0.00	0.00	
2,000.00	4.95	136.82	1,997.26	-48.81	45.81	-41.72	0.00	0.00	0.00	
2,100.00	4.95	136.82	2,096.89	-55.09	51.71	-47.09	0.00	0.00	0.00	
2,200.00	4.95	136.82	2,196.52	-61.38	57.61	-52.47	0.00	0.00	0.00	
2,300.00	4.95	136.82	2,296.15	-67.67	63.51	-57.84	0.00	0.00	0.00	
2,400.00	4.95	136.82	2,395.77	-73.95	69.41	-63.21	0.00	0.00	0.00	
2,500.00	4.95	136.82	2,495.40	-80.24	75.31	-68.59	0.00	0.00	0.00	
2,506.62	4.95	136.82	2,502.00	-80.65	75.70	-68.94	0.00	0.00	0.00	
PARKMAN										
2,600.00	4.95	136.82	2,595.03	-86.52	81.21	-73.96	0.00	0.00	0.00	
2,700.00	4.95	136.82	2,694.66	-92.81	87.11	-79.33	0.00	0.00	0.00	
2,800.00	4.95	136.82	2,794.28	-99.10	93.01	-84.70	0.00	0.00	0.00	
2,900.00	4.95	136.82	2,893.91	-105.38	98.91	-90.08	0.00	0.00	0.00	
3,000.00	4.95	136.82	2,993.54	-111.67	104.81	-95.45	0.00	0.00	0.00	
3,100.00	4.95	136.82	3,093.17	-117.95	110.70	-100.82	0.00	0.00	0.00	
3,200.00	4.95	136.82	3,192.80	-124.24	116.60	-106.20	0.00	0.00	0.00	
3,300.00	4.95	136.82	3,292.42	-130.53	122.50	-111.57	0.00	0.00	0.00	
3,400.00	4.95	136.82	3,392.05	-136.81	128.40	-116.94	0.00	0.00	0.00	
3,500.00	4.95	136.82	3,491.68	-143.10	134.30	-122.32	0.00	0.00	0.00	
3,600.00	4.95	136.82	3,591.31	-149.38	140.20	-127.69	0.00	0.00	0.00	
3,700.00	4.95	136.82	3,690.93	-155.67	146.10	-133.06	0.00	0.00	0.00	
3,800.00	4.95	136.82	3,790.56	-161.96	152.00	-138.44	0.00	0.00	0.00	
3,894.79	4.95	136.82	3,885.00	-167.92	157.60	-143.53	0.00	0.00	0.00	
SUSSEX										
3,900.00	4.95	136.82	3,890.19	-168.24	157.90	-143.81	0.00	0.00	0.00	

Anadarko Petroleum Corp

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well BELLA FEDERAL 36N-7HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17°RKB+4878'GL @ 4895.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17°RKB+4878'GL @ 4895.00ft
Site:	WELD_BELLA FED 36-8HZ	North Reference:	True
Well:	BELLA FEDERAL 36N-7HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	WP02 PERMIT		

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)	
4,000.00	4.95	136.82	3,989.82	-174.53	163.80	-149.18	0.00	0.00	0.00	
4,100.00	4.95	136.82	4,089.44	-180.81	169.70	-154.56	0.00	0.00	0.00	
4,200.00	4.95	136.82	4,189.07	-187.10	175.60	-159.93	0.00	0.00	0.00	
4,300.00	4.95	136.82	4,288.70	-193.39	181.50	-165.30	0.00	0.00	0.00	
4,400.00	4.95	136.82	4,388.33	-199.67	187.40	-170.68	0.00	0.00	0.00	
4,500.00	4.95	136.82	4,487.96	-205.96	193.30	-176.05	0.00	0.00	0.00	
4,600.00	4.95	136.82	4,587.58	-212.24	199.20	-181.42	0.00	0.00	0.00	
4,700.00	4.95	136.82	4,687.21	-218.53	205.10	-186.80	0.00	0.00	0.00	
4,800.00	4.95	136.82	4,786.84	-224.82	211.00	-192.17	0.00	0.00	0.00	
4,900.00	4.95	136.82	4,886.47	-231.10	216.90	-197.54	0.00	0.00	0.00	
5,000.00	4.95	136.82	4,986.09	-237.39	222.80	-202.92	0.00	0.00	0.00	
5,100.00	4.95	136.82	5,085.72	-243.68	228.70	-208.29	0.00	0.00	0.00	
5,200.00	4.95	136.82	5,185.35	-249.96	234.60	-213.66	0.00	0.00	0.00	
5,300.00	4.95	136.82	5,284.98	-256.25	240.50	-219.03	0.00	0.00	0.00	
5,400.00	4.95	136.82	5,384.60	-262.53	246.40	-224.41	0.00	0.00	0.00	
5,500.00	4.95	136.82	5,484.23	-268.82	252.30	-229.78	0.00	0.00	0.00	
5,600.00	4.95	136.82	5,583.86	-275.11	258.20	-235.15	0.00	0.00	0.00	
5,700.00	4.95	136.82	5,683.49	-281.39	264.10	-240.53	0.00	0.00	0.00	
5,800.00	4.95	136.82	5,783.12	-287.68	270.00	-245.90	0.00	0.00	0.00	
5,900.00	4.95	136.82	5,882.74	-293.96	275.90	-251.27	0.00	0.00	0.00	
6,000.00	4.95	136.82	5,982.37	-300.25	281.80	-256.65	0.00	0.00	0.00	
6,077.99	4.95	136.82	6,060.07	-305.15	286.40	-260.84	0.00	0.00	0.00	
BEGIN DROP										
6,100.00	4.51	136.82	6,082.01	-306.47	287.64	-261.97	2.00	-2.00	0.00	
6,200.00	2.51	136.82	6,181.81	-310.93	291.82	-265.78	2.00	-2.00	0.00	
6,300.00	0.51	136.82	6,281.77	-312.85	293.62	-267.42	2.00	-2.00	0.00	
6,325.27	0.00	0.00	6,307.04	-312.93	293.70	-267.49	2.00	-2.00	0.00	
BEGIN HOLD										
6,400.00	0.00	0.00	6,381.77	-312.93	293.70	-267.49	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,481.77	-312.93	293.70	-267.49	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,581.77	-312.93	293.70	-267.49	0.00	0.00	0.00	
6,625.27	0.00	0.00	6,607.04	-312.93	293.70	-267.49	0.00	0.00	0.00	
KOP										
6,650.00	2.47	269.30	6,631.77	-312.94	293.16	-266.95	10.00	10.00	0.00	
6,700.00	7.47	269.30	6,681.56	-312.99	288.83	-262.63	10.00	10.00	0.00	
6,750.00	12.47	269.30	6,730.79	-313.10	280.17	-253.99	10.00	10.00	0.00	
6,800.00	17.47	269.30	6,779.08	-313.25	267.26	-241.11	10.00	10.00	0.00	
6,850.00	22.47	269.30	6,826.06	-313.46	250.19	-224.08	10.00	10.00	0.00	
6,900.00	27.47	269.30	6,871.37	-313.72	229.09	-203.02	10.00	10.00	0.00	
6,950.00	32.47	269.30	6,914.67	-314.03	204.12	-178.11	10.00	10.00	0.00	
7,000.00	37.47	269.30	6,955.62	-314.38	175.47	-149.52	10.00	10.00	0.00	
7,050.00	42.47	269.30	6,993.93	-314.78	143.36	-117.49	10.00	10.00	0.00	
7,100.00	47.47	269.30	7,029.29	-315.21	108.04	-82.24	10.00	10.00	0.00	
7,146.02	52.08	269.30	7,059.00	-315.64	72.91	-47.20	10.00	10.00	0.00	
SHARON SPRINGS										
7,150.00	52.47	269.30	7,061.44	-315.68	69.76	-44.06	10.00	10.00	0.00	
7,200.00	57.47	269.30	7,090.13	-316.18	28.83	-3.22	10.00	10.00	0.00	
7,250.00	62.47	269.30	7,115.14	-316.72	-14.44	39.95	10.00	10.00	0.00	
7,300.00	67.47	269.30	7,136.28	-317.27	-59.73	85.14	10.00	10.00	0.00	
7,350.00	72.47	269.30	7,153.40	-317.85	-106.68	131.99	10.00	10.00	0.00	
7,393.88	76.86	269.30	7,165.00	-318.37	-148.99	174.20	10.00	10.00	0.00	
NIOBRARA B										
7,400.00	77.47	269.30	7,166.36	-318.44	-154.95	180.15	10.00	10.00	0.00	
7,450.00	82.47	269.30	7,175.06	-319.05	-204.17	229.25	10.00	10.00	0.00	

Anadarko Petroleum Corp

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well BELLA FEDERAL 36N-7HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17'RKB+4878'GL @ 4895.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17'RKB+4878'GL @ 4895.00ft
Site:	WELD_BELLA FED 36-8HZ	North Reference:	True
Well:	BELLA FEDERAL 36N-7HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	WP02 PERMIT		

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)
7,500.00	87.47	269.30	7,179.44	-319.66	-253.96	278.93	10.00	10.00	0.00
7,525.27	90.00	269.30	7,180.00	-319.97	-279.22	304.13	10.00	10.00	0.00
BEGIN HOLD - 7" - BELLA FEDERAL 36N-7HZ HEEL TGT.									
7,600.00	90.00	269.30	7,180.00	-320.89	-353.94	378.69	0.00	0.00	0.00
7,700.00	90.00	269.30	7,180.00	-322.12	-453.94	478.45	0.00	0.00	0.00
7,800.00	90.00	269.30	7,180.00	-323.35	-553.93	578.22	0.00	0.00	0.00
7,900.00	90.00	269.30	7,180.00	-324.58	-653.92	677.98	0.00	0.00	0.00
8,000.00	90.00	269.30	7,180.00	-325.80	-753.91	777.75	0.00	0.00	0.00
8,100.00	90.00	269.30	7,180.00	-327.03	-853.91	877.51	0.00	0.00	0.00
8,200.00	90.00	269.30	7,180.00	-328.26	-953.90	977.28	0.00	0.00	0.00
8,300.00	90.00	269.30	7,180.00	-329.49	-1,053.89	1,077.04	0.00	0.00	0.00
8,400.00	90.00	269.30	7,180.00	-330.72	-1,153.88	1,176.81	0.00	0.00	0.00
8,500.00	90.00	269.30	7,180.00	-331.95	-1,253.88	1,276.58	0.00	0.00	0.00
8,600.00	90.00	269.30	7,180.00	-333.18	-1,353.87	1,376.34	0.00	0.00	0.00
8,700.00	90.00	269.30	7,180.00	-334.41	-1,453.86	1,476.11	0.00	0.00	0.00
8,800.00	90.00	269.30	7,180.00	-335.64	-1,553.85	1,575.87	0.00	0.00	0.00
8,900.00	90.00	269.30	7,180.00	-336.87	-1,653.85	1,675.64	0.00	0.00	0.00
9,000.00	90.00	269.30	7,180.00	-338.09	-1,753.84	1,775.40	0.00	0.00	0.00
9,100.00	90.00	269.30	7,180.00	-339.32	-1,853.83	1,875.17	0.00	0.00	0.00
9,200.00	90.00	269.30	7,180.00	-340.55	-1,953.82	1,974.93	0.00	0.00	0.00
9,300.00	90.00	269.30	7,180.00	-341.78	-2,053.82	2,074.70	0.00	0.00	0.00
9,400.00	90.00	269.30	7,180.00	-343.01	-2,153.81	2,174.47	0.00	0.00	0.00
9,500.00	90.00	269.30	7,180.00	-344.24	-2,253.80	2,274.23	0.00	0.00	0.00
9,600.00	90.00	269.30	7,180.00	-345.47	-2,353.79	2,374.00	0.00	0.00	0.00
9,700.00	90.00	269.30	7,180.00	-346.70	-2,453.79	2,473.76	0.00	0.00	0.00
9,800.00	90.00	269.30	7,180.00	-347.93	-2,553.78	2,573.53	0.00	0.00	0.00
9,900.00	90.00	269.30	7,180.00	-349.15	-2,653.77	2,673.29	0.00	0.00	0.00
10,000.00	90.00	269.30	7,180.00	-350.38	-2,753.76	2,773.06	0.00	0.00	0.00
10,100.00	90.00	269.30	7,180.00	-351.61	-2,853.76	2,872.82	0.00	0.00	0.00
10,200.00	90.00	269.30	7,180.00	-352.84	-2,953.75	2,972.59	0.00	0.00	0.00
10,300.00	90.00	269.30	7,180.00	-354.07	-3,053.74	3,072.35	0.00	0.00	0.00
10,400.00	90.00	269.30	7,180.00	-355.30	-3,153.73	3,172.12	0.00	0.00	0.00
10,500.00	90.00	269.30	7,180.00	-356.53	-3,253.73	3,271.89	0.00	0.00	0.00
10,600.00	90.00	269.30	7,180.00	-357.76	-3,353.72	3,371.65	0.00	0.00	0.00
10,700.00	90.00	269.30	7,180.00	-358.99	-3,453.71	3,471.42	0.00	0.00	0.00
10,800.00	90.00	269.30	7,180.00	-360.22	-3,553.70	3,571.18	0.00	0.00	0.00
10,900.00	90.00	269.30	7,180.00	-361.44	-3,653.70	3,670.95	0.00	0.00	0.00
11,000.00	90.00	269.30	7,180.00	-362.67	-3,753.69	3,770.71	0.00	0.00	0.00
11,100.00	90.00	269.30	7,180.00	-363.90	-3,853.68	3,870.48	0.00	0.00	0.00
11,200.00	90.00	269.30	7,180.00	-365.13	-3,953.67	3,970.24	0.00	0.00	0.00
11,300.00	90.00	269.30	7,180.00	-366.36	-4,053.67	4,070.01	0.00	0.00	0.00
11,400.00	90.00	269.30	7,180.00	-367.59	-4,153.66	4,169.77	0.00	0.00	0.00
11,500.00	90.00	269.30	7,180.00	-368.82	-4,253.65	4,269.54	0.00	0.00	0.00
11,600.00	90.00	269.30	7,180.00	-370.05	-4,353.64	4,369.31	0.00	0.00	0.00
11,700.00	90.00	269.30	7,180.00	-371.28	-4,453.63	4,469.07	0.00	0.00	0.00
11,800.00	90.00	269.30	7,180.00	-372.51	-4,553.63	4,568.84	0.00	0.00	0.00
11,855.47	90.00	269.30	7,180.00	-373.19	-4,609.09	4,624.18	0.00	0.00	0.00
TD - BELLA FEDERAL 36N-7HZ PBHL									

Anadarko Petroleum Corp

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well BELLA FEDERAL 36N-7HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17'RKB+4878'GL @ 4895.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17'RKB+4878'GL @ 4895.00ft
Site:	WELD_BELLA FED 36-8HZ	North Reference:	True
Well:	BELLA FEDERAL 36N-7HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	WP02 PERMIT		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BELLA FEDERAL 36N-7 - plan hits target center - Point	0.00	0.00	7,180.00	-373.19	-4,609.09	14,611,275.54	1,691,057.28	40.232022	-104.818558
BELLA FEDERAL 36N-7 - plan hits target center - Point	0.00	0.00	7,180.00	-319.97	-279.22	14,611,338.42	1,695,387.02	40.232169	-104.803045

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
911.00	911.00	9 5/8"	9-5/8	12-1/4	
7,525.27	7,180.00	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
711.00	696.00	NIOBRARA A		0.00	
861.00	846.00	FOX HILLS BASE		0.00	
2,506.62	2,487.00	PARKMAN		0.00	
3,894.79	3,870.00	SUSSEX		0.00	
7,146.02	7,044.00	SHARON SPRINGS		0.00	
7,393.88	7,150.00	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	BEGIN NUDGE	
1,347.28	1,346.97	-7.78	7.30	BEGIN HOLD	
6,077.99	6,060.07	-305.15	286.40	BEGIN DROP	
6,325.27	6,307.04	-312.93	293.70	BEGIN HOLD	
6,625.27	6,607.04	-312.93	293.70	KOP	
7,525.27	7,180.00	-319.97	-279.22	BEGIN HOLD	
11,855.47	7,180.00	-373.19	-4,609.09	TD	