

US ROCKIES REGION PLANNING

COLORADO-NAD83-UTMFT13N

WELD_BELLA FED 11-8HZ

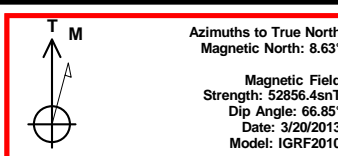
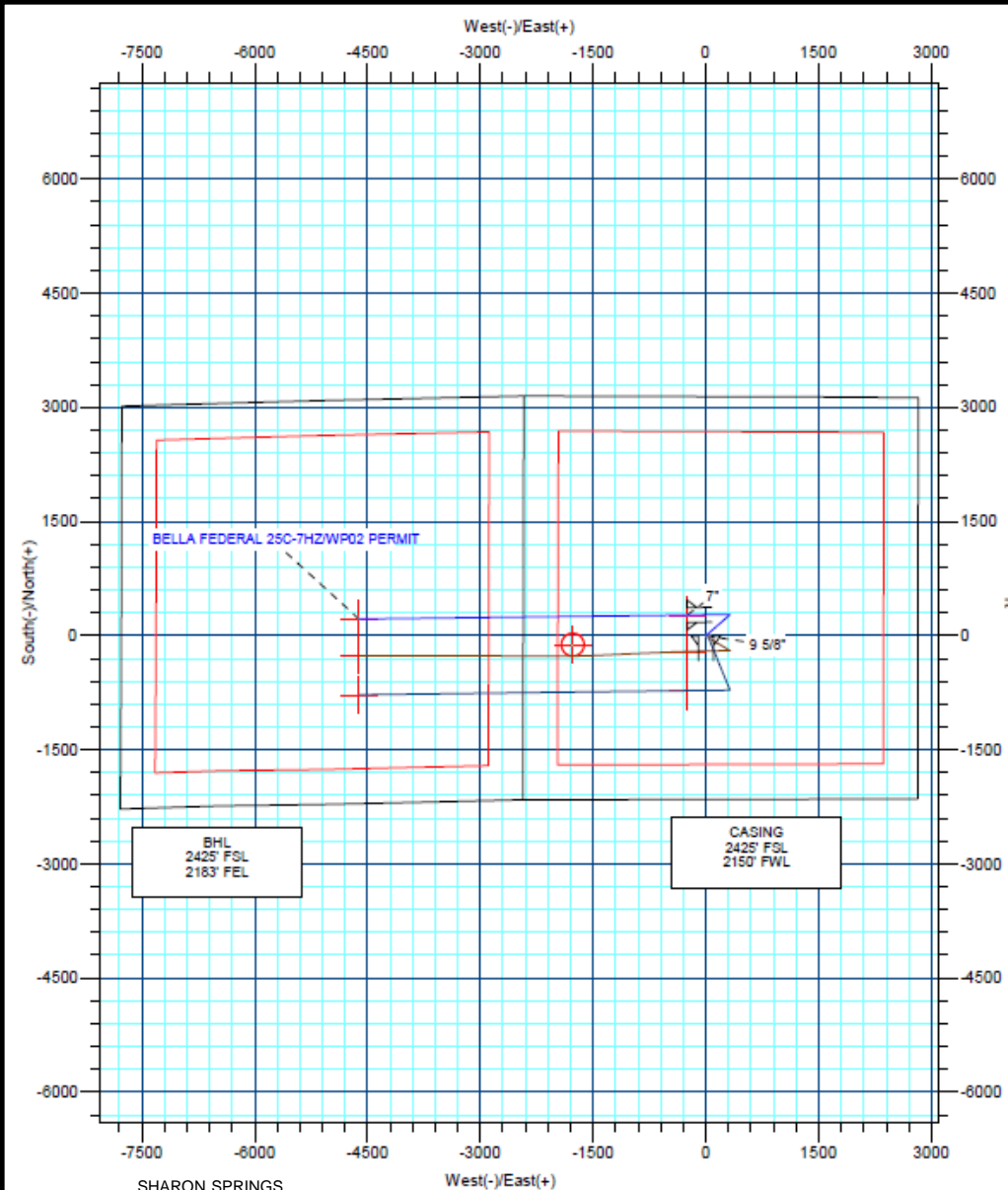
BELLA FEDERAL 25C-7HZ

Wellbore #1

Plan: WP02 PERMIT

Standard Planning Report

25 April, 2013



Project: COLORADO-NAD83-UTMFT13N
 Site: WELD BELLA FED 11-8HZ
 Well: BELLA FEDERAL 25C-7HZ
 Wellbore: Wellbore #1
 Design: WP02 PERMIT
 Latitude: 40.237945
 Longitude: -104.802028
 GL: 4863.00
 KB: 17'RKB+4863'GL @ 4880.00ft

WELL DETAILS: BELLA FEDERAL 25C-7HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	4863.00 Latitude	Longitude	Slot
0.00	0.00	14613442.29	1695666.01	40.237945	-104.802028	

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
1324.09	4.48	46.61	1323.86	6.02	6.37	2.00	46.61	-6.07
6293.60	4.48	46.61	6278.18	272.80	288.55	0.00	0.00	-275.31
6517.69	0.00	0.00	6502.04	278.82	294.92	2.00	180.00	-281.38
6817.69	0.00	0.00	6802.04	278.82	294.92	0.00	0.00	-281.38
7718.36	90.07	269.30	7375.00	271.77	-278.66	10.00	269.30	291.22
12049.80	90.07	269.30	7370.00	218.57	-4609.77	0.00	0.00	4614.95

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

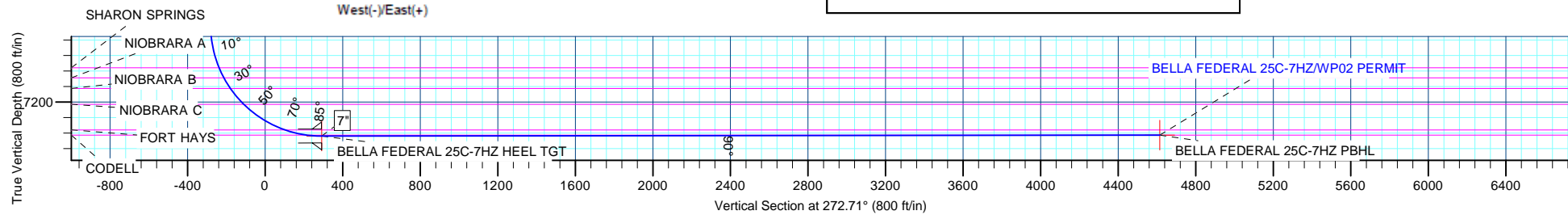
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
BELLA FEDERAL 25C-7HZ PBHL	7370.00	218.57	-4609.77	40.238544	-104.818546	Point
BELLA FEDERAL 25C-7HZ HEEL TGT	7375.00	271.78	-278.66	40.238691	-104.803027	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
846.00	846.00	FOX HILLS BASE
2466.00	2469.73	PARKMAN
3849.00	3856.97	SUSSEX
7023.00	7044.53	SHARON SPRINGS
7075.00	7102.20	NIOBRARA A
7129.00	7165.65	NIOBRARA B
7212.00	7274.55	NIOBRARA C
7344.00	7528.36	FORT HAYS
7370.00	7641.95	CODELL

CASING DETAILS

TVD	MD	Name	Size
896.00	896.00	9 5/8"	9-5/8
7375.00	7718.36	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well BELLA FEDERAL 25C-7HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17'RKB+4863'GL @ 4880.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17'RKB+4863'GL @ 4880.00ft
Site:	WELD_BELLA FED 11-8HZ	North Reference:	True
Well:	BELLA FEDERAL 25C-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 11-8HZ			
Site Position:		Northing:	14,613,420.87 usft	Latitude:	40.237886
From:	Lat/Long	Easting:	1,695,687.27 usft	Longitude:	-104.801952
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well	BELLA FEDERAL 25C-7HZ					
Well Position	+N/-S	21.47 ft	Northing:	14,613,442.29 usft	Latitude:	40.237945
	+E/-W	-21.21 ft	Easting:	1,695,666.01 usft	Longitude:	-104.802028
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,863.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/20/2013	8.63	66.85	52,856

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	272.71

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	
1,324.09	4.48	46.61	1,323.86	6.02	6.37	2.00	2.00	0.00	46.61	
6,293.60	4.48	46.61	6,278.18	272.80	288.55	0.00	0.00	0.00	0.00	
6,517.69	0.00	0.00	6,502.04	278.82	294.92	2.00	-2.00	0.00	180.00	
6,817.69	0.00	0.00	6,802.04	278.82	294.92	0.00	0.00	0.00	0.00	
7,718.36	90.07	269.30	7,375.00	271.77	-278.66	10.00	10.00	0.00	269.30	
12,049.80	90.07	269.30	7,370.00	218.57	-4,609.77	0.00	0.00	0.00	0.00	BELLA FEDERAL 25C

Anadarko Petroleum Corp

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well BELLA FEDERAL 25C-7HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17°RKB+4863'GL @ 4880.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17°RKB+4863'GL @ 4880.00ft
Site:	WELD_BELLA FED 11-8HZ	North Reference:	True
Well:	BELLA FEDERAL 25C-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
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
846.00	0.00	0.00	846.00	0.00	0.00	0.00	0.00	0.00	0.00
FOX HILLS BASE									
896.00	0.00	0.00	896.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
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	46.61	1,199.98	1.20	1.27	-1.21	2.00	2.00	0.00
1,300.00	4.00	46.61	1,299.84	4.79	5.07	-4.84	2.00	2.00	0.00
1,324.09	4.48	46.61	1,323.86	6.02	6.37	-6.07	2.00	2.00	0.00
BEGIN HOLD									
1,400.00	4.48	46.61	1,399.54	10.09	10.68	-10.19	0.00	0.00	0.00
1,500.00	4.48	46.61	1,499.23	15.46	16.35	-15.60	0.00	0.00	0.00
1,600.00	4.48	46.61	1,598.93	20.83	22.03	-21.02	0.00	0.00	0.00
1,700.00	4.48	46.61	1,698.62	26.20	27.71	-26.44	0.00	0.00	0.00
1,800.00	4.48	46.61	1,798.32	31.57	33.39	-31.86	0.00	0.00	0.00
1,900.00	4.48	46.61	1,898.01	36.93	39.07	-37.27	0.00	0.00	0.00
2,000.00	4.48	46.61	1,997.70	42.30	44.75	-42.69	0.00	0.00	0.00
2,100.00	4.48	46.61	2,097.40	47.67	50.42	-48.11	0.00	0.00	0.00
2,200.00	4.48	46.61	2,197.09	53.04	56.10	-53.53	0.00	0.00	0.00
2,300.00	4.48	46.61	2,296.79	58.41	61.78	-58.95	0.00	0.00	0.00
2,400.00	4.48	46.61	2,396.48	63.78	67.46	-64.36	0.00	0.00	0.00
2,469.73	4.48	46.61	2,466.00	67.52	71.42	-68.14	0.00	0.00	0.00
PARKMAN									
2,500.00	4.48	46.61	2,496.18	69.15	73.14	-69.78	0.00	0.00	0.00
2,600.00	4.48	46.61	2,595.87	74.51	78.82	-75.20	0.00	0.00	0.00
2,700.00	4.48	46.61	2,695.56	79.88	84.50	-80.62	0.00	0.00	0.00
2,800.00	4.48	46.61	2,795.26	85.25	90.17	-86.03	0.00	0.00	0.00
2,900.00	4.48	46.61	2,894.95	90.62	95.85	-91.45	0.00	0.00	0.00
3,000.00	4.48	46.61	2,994.65	95.99	101.53	-96.87	0.00	0.00	0.00
3,100.00	4.48	46.61	3,094.34	101.36	107.21	-102.29	0.00	0.00	0.00
3,200.00	4.48	46.61	3,194.04	106.72	112.89	-107.71	0.00	0.00	0.00
3,300.00	4.48	46.61	3,293.73	112.09	118.57	-113.12	0.00	0.00	0.00
3,400.00	4.48	46.61	3,393.42	117.46	124.24	-118.54	0.00	0.00	0.00
3,500.00	4.48	46.61	3,493.12	122.83	129.92	-123.96	0.00	0.00	0.00
3,600.00	4.48	46.61	3,592.81	128.20	135.60	-129.38	0.00	0.00	0.00
3,700.00	4.48	46.61	3,692.51	133.57	141.28	-134.79	0.00	0.00	0.00
3,800.00	4.48	46.61	3,792.20	138.93	146.96	-140.21	0.00	0.00	0.00
3,856.97	4.48	46.61	3,849.00	141.99	150.19	-143.30	0.00	0.00	0.00
SUSSEX									
3,900.00	4.48	46.61	3,891.89	144.30	152.64	-145.63	0.00	0.00	0.00
4,000.00	4.48	46.61	3,991.59	149.67	158.31	-151.05	0.00	0.00	0.00
4,100.00	4.48	46.61	4,091.28	155.04	163.99	-156.47	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well BELLA FEDERAL 25C-7HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17°RKB+4863'GL @ 4880.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17°RKB+4863'GL @ 4880.00ft
Site:	WELD_BELLA FED 11-8HZ	North Reference:	True
Well:	BELLA FEDERAL 25C-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)
4,200.00	4.48	46.61	4,190.98	160.41	169.67	-161.88	0.00	0.00	0.00
4,300.00	4.48	46.61	4,290.67	165.78	175.35	-167.30	0.00	0.00	0.00
4,400.00	4.48	46.61	4,390.37	171.14	181.03	-172.72	0.00	0.00	0.00
4,500.00	4.48	46.61	4,490.06	176.51	186.71	-178.14	0.00	0.00	0.00
4,600.00	4.48	46.61	4,589.75	181.88	192.38	-183.55	0.00	0.00	0.00
4,700.00	4.48	46.61	4,689.45	187.25	198.06	-188.97	0.00	0.00	0.00
4,800.00	4.48	46.61	4,789.14	192.62	203.74	-194.39	0.00	0.00	0.00
4,900.00	4.48	46.61	4,888.84	197.99	209.42	-199.81	0.00	0.00	0.00
5,000.00	4.48	46.61	4,988.53	203.35	215.10	-205.23	0.00	0.00	0.00
5,100.00	4.48	46.61	5,088.23	208.72	220.78	-210.64	0.00	0.00	0.00
5,200.00	4.48	46.61	5,187.92	214.09	226.46	-216.06	0.00	0.00	0.00
5,300.00	4.48	46.61	5,287.61	219.46	232.13	-221.48	0.00	0.00	0.00
5,400.00	4.48	46.61	5,387.31	224.83	237.81	-226.90	0.00	0.00	0.00
5,500.00	4.48	46.61	5,487.00	230.20	243.49	-232.31	0.00	0.00	0.00
5,600.00	4.48	46.61	5,586.70	235.56	249.17	-237.73	0.00	0.00	0.00
5,700.00	4.48	46.61	5,686.39	240.93	254.85	-243.15	0.00	0.00	0.00
5,800.00	4.48	46.61	5,786.09	246.30	260.53	-248.57	0.00	0.00	0.00
5,900.00	4.48	46.61	5,885.78	251.67	266.20	-253.99	0.00	0.00	0.00
6,000.00	4.48	46.61	5,985.47	257.04	271.88	-259.40	0.00	0.00	0.00
6,100.00	4.48	46.61	6,085.17	262.41	277.56	-264.82	0.00	0.00	0.00
6,200.00	4.48	46.61	6,184.86	267.77	283.24	-270.24	0.00	0.00	0.00
6,293.60	4.48	46.61	6,278.18	272.80	288.55	-275.31	0.00	0.00	0.00
BEGIN DROP									
6,300.00	4.35	46.61	6,284.56	273.14	288.91	-275.65	2.00	-2.00	0.00
6,400.00	2.35	46.61	6,384.38	277.16	293.16	-279.71	2.00	-2.00	0.00
6,500.00	0.35	46.61	6,484.35	278.78	294.88	-281.35	2.00	-2.00	0.00
6,517.69	0.00	0.00	6,502.04	278.82	294.92	-281.38	2.00	-2.00	0.00
BEGIN HOLD									
6,600.00	0.00	0.00	6,584.35	278.82	294.92	-281.38	0.00	0.00	0.00
6,700.00	0.00	0.00	6,684.35	278.82	294.92	-281.38	0.00	0.00	0.00
6,800.00	0.00	0.00	6,784.35	278.82	294.92	-281.38	0.00	0.00	0.00
6,817.69	0.00	0.00	6,802.04	278.82	294.92	-281.38	0.00	0.00	0.00
KOP									
6,850.00	3.23	269.30	6,834.33	278.81	294.01	-280.47	10.00	10.00	0.00
6,900.00	8.23	269.30	6,884.06	278.74	289.02	-275.49	10.00	10.00	0.00
6,950.00	13.23	269.30	6,933.17	278.63	279.71	-266.20	10.00	10.00	0.00
7,000.00	18.23	269.30	6,981.29	278.46	266.16	-252.68	10.00	10.00	0.00
7,044.53	22.68	269.30	7,023.00	278.27	250.60	-237.14	10.00	10.00	0.00
SHARON SPRINGS									
7,050.00	23.23	269.30	7,028.03	278.25	248.47	-235.01	10.00	10.00	0.00
7,100.00	28.23	269.30	7,073.06	277.98	226.77	-213.35	10.00	10.00	0.00
7,102.20	28.45	269.30	7,075.00	277.97	225.73	-212.31	10.00	10.00	0.00
NIOBRARA A									
7,150.00	33.23	269.30	7,116.03	277.67	201.23	-187.86	10.00	10.00	0.00
7,165.65	34.80	269.30	7,129.00	277.56	192.48	-179.12	10.00	10.00	0.00
NIOBRARA B									
7,200.00	38.23	269.30	7,156.60	277.31	172.04	-158.72	10.00	10.00	0.00
7,250.00	43.23	269.30	7,194.48	276.91	139.43	-126.16	10.00	10.00	0.00
7,274.55	45.69	269.30	7,212.00	276.70	122.24	-109.00	10.00	10.00	0.00
NIOBRARA C									
7,300.00	48.23	269.30	7,229.37	276.47	103.64	-90.43	10.00	10.00	0.00
7,350.00	53.23	269.30	7,261.01	275.99	64.95	-51.80	10.00	10.00	0.00
7,400.00	58.23	269.30	7,289.15	275.49	23.65	-10.57	10.00	10.00	0.00

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	17'RKB+4863'GL @ 4880.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17'RKB+4863'GL @ 4880.00ft
Site:	WELD_BELLA FED 11-8HZ	North Reference:	True
Well:	BELLA FEDERAL 25C-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)
7,450.00	63.23	269.30	7,313.59	274.95	-19.95	32.95	10.00	10.00	0.00
7,500.00	68.23	269.30	7,334.14	274.39	-65.52	78.44	10.00	10.00	0.00
7,528.36	71.07	269.30	7,344.00	274.06	-92.10	104.98	10.00	10.00	0.00
FORT HAYS									
7,550.00	73.23	269.30	7,350.63	273.81	-112.70	125.54	10.00	10.00	0.00
7,600.00	78.23	269.30	7,362.95	273.22	-161.14	173.89	10.00	10.00	0.00
7,641.95	82.43	269.30	7,370.00	272.71	-202.48	215.17	10.00	10.00	0.00
CODELL									
7,650.00	83.23	269.30	7,371.00	272.61	-210.46	223.14	10.00	10.00	0.00
7,700.00	88.23	269.30	7,374.73	272.00	-260.31	272.90	10.00	10.00	0.00
7,718.36	90.07	269.30	7,375.00	271.77	-278.66	291.22	10.00	10.00	0.00
BEGIN HOLD - 7" - BELLA FEDERAL 25C-7HZ HEEL TGT									
7,800.00	90.07	269.30	7,374.90	270.77	-360.29	372.71	0.00	0.00	0.00
7,900.00	90.07	269.30	7,374.79	269.54	-460.29	472.54	0.00	0.00	0.00
8,000.00	90.07	269.30	7,374.67	268.31	-560.28	572.36	0.00	0.00	0.00
8,100.00	90.07	269.30	7,374.56	267.08	-660.27	672.18	0.00	0.00	0.00
8,200.00	90.07	269.30	7,374.44	265.86	-760.26	772.00	0.00	0.00	0.00
8,300.00	90.07	269.30	7,374.33	264.63	-860.26	871.82	0.00	0.00	0.00
8,400.00	90.07	269.30	7,374.21	263.40	-960.25	971.65	0.00	0.00	0.00
8,500.00	90.07	269.30	7,374.10	262.17	-1,060.24	1,071.47	0.00	0.00	0.00
8,600.00	90.07	269.30	7,373.98	260.94	-1,160.23	1,171.29	0.00	0.00	0.00
8,700.00	90.07	269.30	7,373.87	259.72	-1,260.23	1,271.11	0.00	0.00	0.00
8,800.00	90.07	269.30	7,373.75	258.49	-1,360.22	1,370.93	0.00	0.00	0.00
8,900.00	90.07	269.30	7,373.64	257.26	-1,460.21	1,470.76	0.00	0.00	0.00
9,000.00	90.07	269.30	7,373.52	256.03	-1,560.20	1,570.58	0.00	0.00	0.00
9,100.00	90.07	269.30	7,373.40	254.80	-1,660.20	1,670.40	0.00	0.00	0.00
9,200.00	90.07	269.30	7,373.29	253.57	-1,760.19	1,770.22	0.00	0.00	0.00
9,300.00	90.07	269.30	7,373.17	252.35	-1,860.18	1,870.04	0.00	0.00	0.00
9,400.00	90.07	269.30	7,373.06	251.12	-1,960.17	1,969.87	0.00	0.00	0.00
9,500.00	90.07	269.30	7,372.94	249.89	-2,060.17	2,069.69	0.00	0.00	0.00
9,600.00	90.07	269.30	7,372.83	248.66	-2,160.16	2,169.51	0.00	0.00	0.00
9,700.00	90.07	269.30	7,372.71	247.43	-2,260.15	2,269.33	0.00	0.00	0.00
9,800.00	90.07	269.30	7,372.60	246.20	-2,360.14	2,369.15	0.00	0.00	0.00
9,900.00	90.07	269.30	7,372.48	244.98	-2,460.14	2,468.98	0.00	0.00	0.00
10,000.00	90.07	269.30	7,372.37	243.75	-2,560.13	2,568.80	0.00	0.00	0.00
10,100.00	90.07	269.30	7,372.25	242.52	-2,660.12	2,668.62	0.00	0.00	0.00
10,200.00	90.07	269.30	7,372.13	241.29	-2,760.11	2,768.44	0.00	0.00	0.00
10,300.00	90.07	269.30	7,372.02	240.06	-2,860.10	2,868.26	0.00	0.00	0.00
10,400.00	90.07	269.30	7,371.90	238.84	-2,960.10	2,968.09	0.00	0.00	0.00
10,500.00	90.07	269.30	7,371.79	237.61	-3,060.09	3,067.91	0.00	0.00	0.00
10,600.00	90.07	269.30	7,371.67	236.38	-3,160.08	3,167.73	0.00	0.00	0.00
10,700.00	90.07	269.30	7,371.56	235.15	-3,260.07	3,267.55	0.00	0.00	0.00
10,800.00	90.07	269.30	7,371.44	233.92	-3,360.07	3,367.37	0.00	0.00	0.00
10,900.00	90.07	269.30	7,371.33	232.69	-3,460.06	3,467.20	0.00	0.00	0.00
11,000.00	90.07	269.30	7,371.21	231.47	-3,560.05	3,567.02	0.00	0.00	0.00
11,100.00	90.07	269.30	7,371.10	230.24	-3,660.04	3,666.84	0.00	0.00	0.00
11,200.00	90.07	269.30	7,370.98	229.01	-3,760.04	3,766.66	0.00	0.00	0.00
11,300.00	90.07	269.30	7,370.87	227.78	-3,860.03	3,866.48	0.00	0.00	0.00
11,400.00	90.07	269.30	7,370.75	226.55	-3,960.02	3,966.31	0.00	0.00	0.00
11,500.00	90.07	269.30	7,370.63	225.33	-4,060.01	4,066.13	0.00	0.00	0.00
11,600.00	90.07	269.30	7,370.52	224.10	-4,160.01	4,165.95	0.00	0.00	0.00
11,700.00	90.07	269.30	7,370.40	222.87	-4,260.00	4,265.77	0.00	0.00	0.00
11,800.00	90.07	269.30	7,370.29	221.64	-4,359.99	4,365.60	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well BELLA FEDERAL 25C-7HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17'RKB+4863'GL @ 4880.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17'RKB+4863'GL @ 4880.00ft
Site:	WELD_BELLA FED 11-8HZ	North Reference:	True
Well:	BELLA FEDERAL 25C-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)
11,900.00	90.07	269.30	7,370.17	220.41	-4,459.98	4,465.42	0.00	0.00	0.00
12,000.00	90.07	269.30	7,370.06	219.18	-4,559.98	4,565.24	0.00	0.00	0.00
12,049.80	90.07	269.30	7,370.00	218.57	-4,609.77	4,614.95	0.00	0.00	0.00
TD - BELLA FEDERAL 25C-7HZ PBHL									

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									
BELLA FEDERAL 25C-7	0.00	0.00	7,370.00	218.57	-4,609.77	14,613,650.57	1,691,055.77	40.238544	-104.818546
- plan hits target center									
- Point									
BELLA FEDERAL 25C-7	0.00	0.00	7,375.00	271.78	-278.66	14,613,713.45	1,695,386.74	40.238691	-104.803027
- plan misses target center by 0.01ft at 7718.36ft MD (7375.00 TVD, 271.77 N, -278.66 E)									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
896.00	896.00	9 5/8"	9-5/8	12-1/4	
7,718.36	7,375.00	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
846.00	846.00	FOX HILLS BASE		0.00	
2,469.73	2,466.00	PARKMAN		0.00	
3,856.97	3,849.00	SUSSEX		0.00	
7,044.53	7,023.00	SHARON SPRINGS		0.00	
7,102.20	7,075.00	NIOBRARA A		0.00	
7,165.65	7,129.00	NIOBRARA B		0.00	
7,274.55	7,212.00	NIOBRARA C		0.00	
7,528.36	7,344.00	FORT HAYS		0.00	
7,641.95	7,370.00	CODELL		0.00	

Anadarko Petroleum Corp

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well BELLA FEDERAL 25C-7HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17'RKB+4863'GL @ 4880.00ft
Project:	COLORADO-NAD83-UTMFT13N	MD Reference:	17'RKB+4863'GL @ 4880.00ft
Site:	WELD_BELLA FED 11-8HZ	North Reference:	True
Well:	BELLA FEDERAL 25C-7HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	WP02 PERMIT		

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
1,324.09	1,323.86	6.02	6.37	BEGIN HOLD
6,293.60	6,278.18	272.80	288.55	BEGIN DROP
6,517.69	6,502.04	278.82	294.92	BEGIN HOLD
6,817.69	6,802.04	278.82	294.92	KOP
7,718.36	7,375.00	271.77	-278.66	BEGIN HOLD
12,049.80	7,370.00	218.57	-4,609.77	TD