

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_GOBBLER 14-23HZ PAD

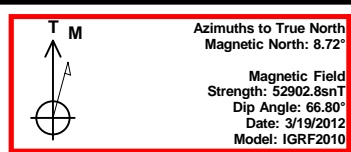
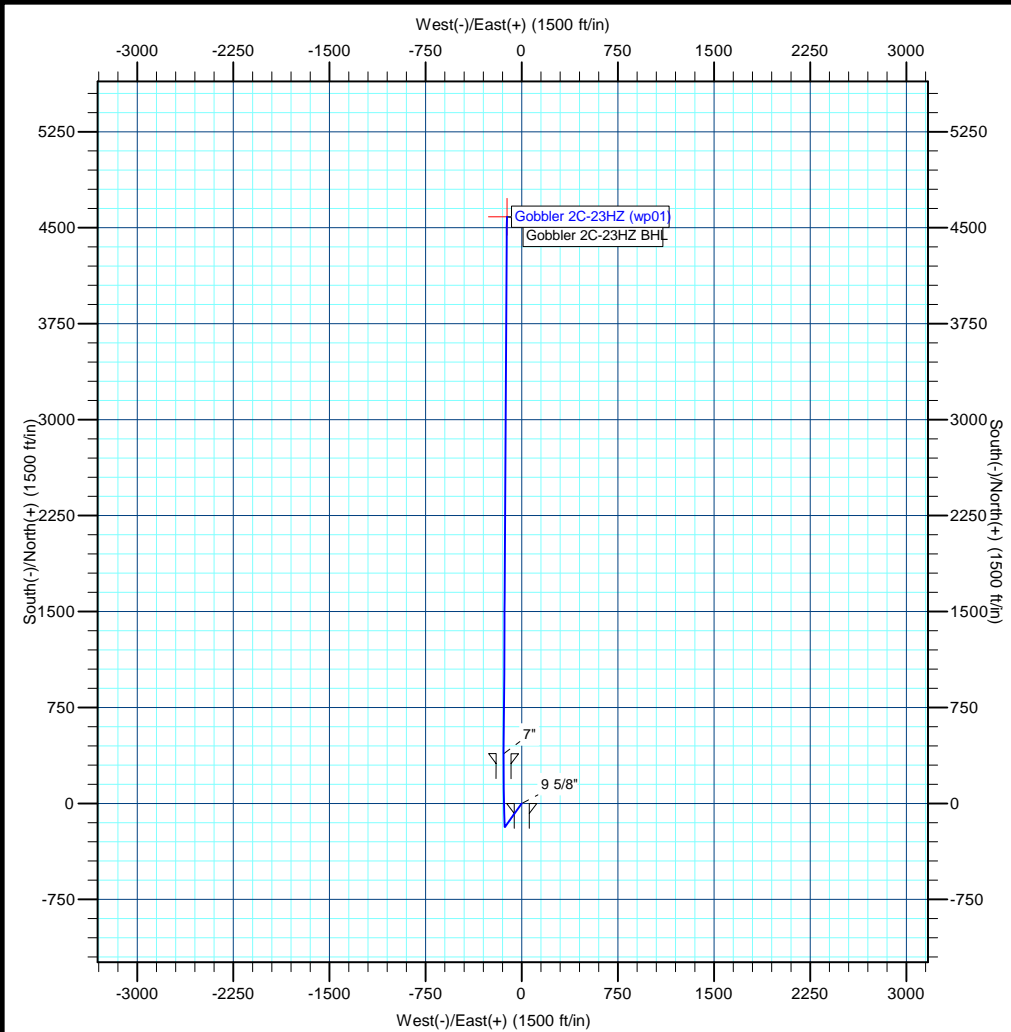
Gobbler 2C-23HZ

Gobbler 2C-23HZ

Plan: Gobbler 2C-23HZ (wp01)

Standard Planning Report

19 March, 2012



Project: COLORADO NORTHERN ZONE - 83
Site: WELD GOBBLER 14-23HZ PAD
Well: Gobbler 2C-23HZ
Wellbore: Gobbler 2C-23HZ
Section:
SHL:
Design: Gobbler 2C-23HZ (wp01)
Latitude: 40.117146
Longitude: -104.740657
GL: 5094.00
KB: GL + RKB @ 5111.00ft

WELL DETAILS: Gobbler 2C-23HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	5094.00 Latitude	40.117146 Longitude	Slot
0.00	0.00	1286429.60	3212364.65	40.117146	-104.740657	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1150.00	0.00	0.00	1150.00	0.00	0.00	0.00	0.00	0.00
1262.29	2.25	215.39	1262.26	-1.79	-1.27	2.00	215.39	-1.76
6969.23	2.25	215.39	6964.82	-184.10	-130.79	0.00	0.00	-180.74
7886.98	89.94	0.31	7556.00	388.00	-141.00	10.00	144.90	391.44
7890.49	89.93	0.34	7556.00	391.50	-140.98	1.00	99.50	394.94
2083.89	89.93	0.34	7561.00	4584.83	-115.76	0.00	0.00	4586.29

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

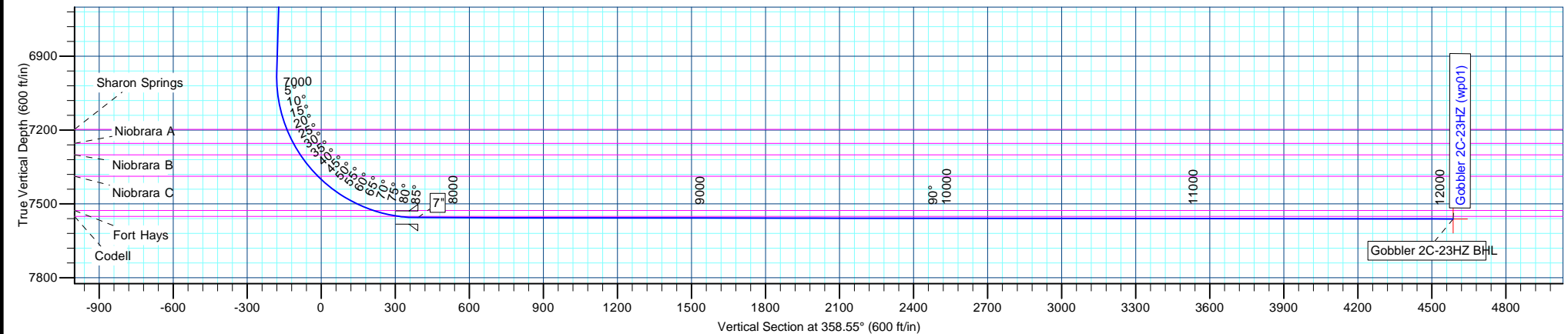
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Gobbler 2C-23HZ BHL	7561.00	4584.83	-115.76	40.129732	-104.741071	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4206.00	4208.29	Parkman
4609.00	4611.60	Sussex
7197.00	7206.78	Sharon Springs
7254.00	7269.75	Niobrara A
7301.00	7324.60	Niobrara B
7388.00	7437.29	Niobrara C
7527.00	7704.51	Fort Hays
7551.00	7811.85	Codell

CASING DETAILS

TVD	MD	Name	Size
1000.00	1000.00	9 5/8"	9-5/8
7556.00	7886.98	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Gobbler 2C-23HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 5111.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 5111.00ft
Site:	WELD_GOBBLER 14-23HZ PAD	North Reference:	True
Well:	Gobbler 2C-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gobbler 2C-23HZ		
Design:	Gobbler 2C-23HZ (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_GOBBLER 14-23HZ PAD			
Site Position:		Northing:	1,286,429.60 usft	Latitude: 40.117146
From:	Lat/Long	Easting:	3,212,364.65 usft	Longitude: -104.740657
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.49 °

Well	Gobbler 2C-23HZ			
Well Position	+N/-S	0.00 ft	Northing:	1,286,429.59 usft
	+E/-W	0.00 ft	Easting:	3,212,364.65 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Ground Level: 5,094.00 ft

Wellbore	Gobbler 2C-23HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/19/2012	8.72	66.80	52,903

Design	Gobbler 2C-23HZ (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	358.55

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	
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,262.29	2.25	215.39	1,262.26	-1.79	-1.27	2.00	2.00	0.00	215.39	
6,969.23	2.25	215.39	6,964.82	-184.10	-130.79	0.00	0.00	0.00	0.00	
7,886.98	89.94	0.31	7,556.00	388.00	-141.00	10.00	9.56	15.79	144.90	
7,890.49	89.93	0.34	7,556.00	391.50	-140.98	1.00	-0.16	0.99	99.50	
12,083.89	89.93	0.34	7,561.00	4,584.83	-115.76	0.00	0.00	0.00	0.00	Gobbler 2C-23HZ BH

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Gobbler 2C-23HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 5111.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 5111.00ft
Site:	WELD_GOBBLER 14-23HZ PAD	North Reference:	True
Well:	Gobbler 2C-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gobbler 2C-23HZ		
Design:	Gobbler 2C-23HZ (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
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,200.00	1.00	215.39	1,200.00	-0.36	-0.25	-0.35	2.00	2.00	0.00
1,262.29	2.25	215.39	1,262.26	-1.79	-1.27	-1.76	2.00	2.00	0.00
Start 5706.94 hold at 1262.29 MD									
1,300.00	2.25	215.39	1,299.94	-3.00	-2.13	-2.94	0.00	0.00	0.00
1,400.00	2.25	215.39	1,399.87	-6.19	-4.40	-6.08	0.00	0.00	0.00
1,500.00	2.25	215.39	1,499.79	-9.39	-6.67	-9.22	0.00	0.00	0.00
1,600.00	2.25	215.39	1,599.71	-12.58	-8.94	-12.35	0.00	0.00	0.00
1,700.00	2.25	215.39	1,699.64	-15.78	-11.21	-15.49	0.00	0.00	0.00
1,800.00	2.25	215.39	1,799.56	-18.97	-13.48	-18.62	0.00	0.00	0.00
1,900.00	2.25	215.39	1,899.48	-22.17	-15.75	-21.76	0.00	0.00	0.00
2,000.00	2.25	215.39	1,999.40	-25.36	-18.02	-24.90	0.00	0.00	0.00
2,100.00	2.25	215.39	2,099.33	-28.55	-20.29	-28.03	0.00	0.00	0.00
2,200.00	2.25	215.39	2,199.25	-31.75	-22.55	-31.17	0.00	0.00	0.00
2,300.00	2.25	215.39	2,299.17	-34.94	-24.82	-34.31	0.00	0.00	0.00
2,400.00	2.25	215.39	2,399.10	-38.14	-27.09	-37.44	0.00	0.00	0.00
2,500.00	2.25	215.39	2,499.02	-41.33	-29.36	-40.58	0.00	0.00	0.00
2,600.00	2.25	215.39	2,598.94	-44.53	-31.63	-43.71	0.00	0.00	0.00
2,700.00	2.25	215.39	2,698.87	-47.72	-33.90	-46.85	0.00	0.00	0.00
2,800.00	2.25	215.39	2,798.79	-50.92	-36.17	-49.99	0.00	0.00	0.00
2,900.00	2.25	215.39	2,898.71	-54.11	-38.44	-53.12	0.00	0.00	0.00
3,000.00	2.25	215.39	2,998.64	-57.31	-40.71	-56.26	0.00	0.00	0.00
3,100.00	2.25	215.39	3,098.56	-60.50	-42.98	-59.40	0.00	0.00	0.00
3,200.00	2.25	215.39	3,198.48	-63.69	-45.25	-62.53	0.00	0.00	0.00
3,300.00	2.25	215.39	3,298.41	-66.89	-47.52	-65.67	0.00	0.00	0.00
3,400.00	2.25	215.39	3,398.33	-70.08	-49.79	-68.80	0.00	0.00	0.00
3,500.00	2.25	215.39	3,498.25	-73.28	-52.06	-71.94	0.00	0.00	0.00
3,600.00	2.25	215.39	3,598.18	-76.47	-54.33	-75.08	0.00	0.00	0.00
3,700.00	2.25	215.39	3,698.10	-79.67	-56.59	-78.21	0.00	0.00	0.00
3,800.00	2.25	215.39	3,798.02	-82.86	-58.86	-81.35	0.00	0.00	0.00
3,900.00	2.25	215.39	3,897.95	-86.06	-61.13	-84.49	0.00	0.00	0.00
4,000.00	2.25	215.39	3,997.87	-89.25	-63.40	-87.62	0.00	0.00	0.00
4,100.00	2.25	215.39	4,097.79	-92.45	-65.67	-90.76	0.00	0.00	0.00
4,200.00	2.25	215.39	4,197.72	-95.64	-67.94	-93.89	0.00	0.00	0.00
4,208.29	2.25	215.39	4,206.00	-95.90	-68.13	-94.15	0.00	0.00	0.00
Parkman									
4,300.00	2.25	215.39	4,297.64	-98.83	-70.21	-97.03	0.00	0.00	0.00
4,400.00	2.25	215.39	4,397.56	-102.03	-72.48	-100.17	0.00	0.00	0.00
4,500.00	2.25	215.39	4,497.48	-105.22	-74.75	-103.30	0.00	0.00	0.00
4,600.00	2.25	215.39	4,597.41	-108.42	-77.02	-106.44	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Gobbler 2C-23HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 5111.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 5111.00ft
Site:	WELD_GOBBLER 14-23HZ PAD	North Reference:	True
Well:	Gobbler 2C-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gobbler 2C-23HZ		
Design:	Gobbler 2C-23HZ (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)
4,611.60	2.25	215.39	4,609.00	-108.79	-77.28	-106.80	0.00	0.00	0.00
Sussex									
4,700.00	2.25	215.39	4,697.33	-111.61	-79.29	-109.58	0.00	0.00	0.00
4,800.00	2.25	215.39	4,797.25	-114.81	-81.56	-112.71	0.00	0.00	0.00
4,900.00	2.25	215.39	4,897.18	-118.00	-83.83	-115.85	0.00	0.00	0.00
5,000.00	2.25	215.39	4,997.10	-121.20	-86.10	-118.98	0.00	0.00	0.00
5,100.00	2.25	215.39	5,097.02	-124.39	-88.37	-122.12	0.00	0.00	0.00
5,200.00	2.25	215.39	5,196.95	-127.58	-90.64	-125.26	0.00	0.00	0.00
5,300.00	2.25	215.39	5,296.87	-130.78	-92.90	-128.39	0.00	0.00	0.00
5,400.00	2.25	215.39	5,396.79	-133.97	-95.17	-131.53	0.00	0.00	0.00
5,500.00	2.25	215.39	5,496.72	-137.17	-97.44	-134.67	0.00	0.00	0.00
5,600.00	2.25	215.39	5,596.64	-140.36	-99.71	-137.80	0.00	0.00	0.00
5,700.00	2.25	215.39	5,696.56	-143.56	-101.98	-140.94	0.00	0.00	0.00
5,800.00	2.25	215.39	5,796.49	-146.75	-104.25	-144.07	0.00	0.00	0.00
5,900.00	2.25	215.39	5,896.41	-149.95	-106.52	-147.21	0.00	0.00	0.00
6,000.00	2.25	215.39	5,996.33	-153.14	-108.79	-150.35	0.00	0.00	0.00
6,100.00	2.25	215.39	6,096.26	-156.34	-111.06	-153.48	0.00	0.00	0.00
6,200.00	2.25	215.39	6,196.18	-159.53	-113.33	-156.62	0.00	0.00	0.00
6,300.00	2.25	215.39	6,296.10	-162.72	-115.60	-159.75	0.00	0.00	0.00
6,400.00	2.25	215.39	6,396.03	-165.92	-117.87	-162.89	0.00	0.00	0.00
6,500.00	2.25	215.39	6,495.95	-169.11	-120.14	-166.03	0.00	0.00	0.00
6,600.00	2.25	215.39	6,595.87	-172.31	-122.41	-169.16	0.00	0.00	0.00
6,700.00	2.25	215.39	6,695.79	-175.50	-124.68	-172.30	0.00	0.00	0.00
6,800.00	2.25	215.39	6,795.72	-178.70	-126.95	-175.44	0.00	0.00	0.00
6,900.00	2.25	215.39	6,895.64	-181.89	-129.21	-178.57	0.00	0.00	0.00
6,969.23	2.25	215.39	6,964.82	-184.10	-130.79	-180.74	0.00	0.00	0.00
Start DLS 10.00 TFO 144.90									
7,000.00	1.79	314.15	6,995.58	-184.26	-131.48	-180.88	10.00	-1.48	320.95
7,100.00	11.31	353.84	7,094.83	-173.39	-133.66	-169.96	10.00	9.52	39.70
7,200.00	21.28	356.99	7,190.70	-145.45	-135.67	-141.98	10.00	9.96	3.15
7,206.78	21.95	357.11	7,197.00	-142.96	-135.79	-139.49	10.00	9.98	1.66
Sharon Springs									
7,269.75	28.24	357.91	7,254.00	-116.29	-136.93	-112.79	10.00	9.99	1.27
Niobrara A									
7,300.00	31.26	358.18	7,280.26	-101.29	-137.44	-97.79	10.00	9.99	0.92
7,324.60	33.72	358.38	7,301.00	-88.08	-137.84	-84.57	10.00	9.99	0.78
Niobrara B									
7,400.00	41.26	358.84	7,360.79	-42.24	-138.94	-38.72	10.00	9.99	0.61
7,437.29	44.98	359.02	7,388.00	-16.76	-139.41	-13.24	10.00	9.99	0.48
Niobrara C									
7,500.00	51.25	359.28	7,429.85	29.90	-140.10	33.43	10.00	10.00	0.41
7,600.00	61.25	359.60	7,485.34	112.94	-140.90	116.46	10.00	10.00	0.33
7,700.00	71.24	359.87	7,525.57	204.35	-141.31	207.85	10.00	10.00	0.27
7,704.51	71.70	359.88	7,527.00	208.63	-141.32	212.13	10.00	10.00	0.25
Fort Hays									
7,800.00	81.24	0.11	7,549.32	301.36	-141.32	304.83	10.00	10.00	0.24
7,811.85	82.43	0.14	7,551.00	313.08	-141.29	316.55	10.00	10.00	0.23
Codell									
7,886.98	89.94	0.31	7,556.00	388.00	-141.00	391.43	10.00	10.00	0.23
Start DLS 1.00 TFO 99.50 - 7"									
7,890.49	89.93	0.34	7,556.00	391.50	-140.98	394.94	1.00	-0.15	0.99
Start 4193.41 hold at 7890.49 MD									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Gobbler 2C-23HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 5111.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 5111.00ft
Site:	WELD_GOBBLER 14-23HZ PAD	North Reference:	True
Well:	Gobbler 2C-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gobbler 2C-23HZ		
Design:	Gobbler 2C-23HZ (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)
7,900.00	89.93	0.34	7,556.02	401.02	-140.92	404.45	0.00	0.00	0.00
8,000.00	89.93	0.34	7,556.13	501.01	-140.32	504.40	0.00	0.00	0.00
8,100.00	89.93	0.34	7,556.25	601.01	-139.72	604.35	0.00	0.00	0.00
8,200.00	89.93	0.34	7,556.37	701.01	-139.12	704.30	0.00	0.00	0.00
8,300.00	89.93	0.34	7,556.49	801.01	-138.52	804.25	0.00	0.00	0.00
8,400.00	89.93	0.34	7,556.61	901.01	-137.92	904.20	0.00	0.00	0.00
8,500.00	89.93	0.34	7,556.73	1,001.01	-137.31	1,004.15	0.00	0.00	0.00
8,600.00	89.93	0.34	7,556.85	1,101.00	-136.71	1,104.10	0.00	0.00	0.00
8,700.00	89.93	0.34	7,556.97	1,201.00	-136.11	1,204.05	0.00	0.00	0.00
8,800.00	89.93	0.34	7,557.09	1,301.00	-135.51	1,304.01	0.00	0.00	0.00
8,900.00	89.93	0.34	7,557.21	1,401.00	-134.91	1,403.96	0.00	0.00	0.00
9,000.00	89.93	0.34	7,557.33	1,501.00	-134.31	1,503.91	0.00	0.00	0.00
9,100.00	89.93	0.34	7,557.45	1,600.99	-133.71	1,603.86	0.00	0.00	0.00
9,200.00	89.93	0.34	7,557.56	1,700.99	-133.11	1,703.81	0.00	0.00	0.00
9,300.00	89.93	0.34	7,557.68	1,800.99	-132.50	1,803.76	0.00	0.00	0.00
9,400.00	89.93	0.34	7,557.80	1,900.99	-131.90	1,903.71	0.00	0.00	0.00
9,500.00	89.93	0.34	7,557.92	2,000.99	-131.30	2,003.66	0.00	0.00	0.00
9,600.00	89.93	0.34	7,558.04	2,100.98	-130.70	2,103.61	0.00	0.00	0.00
9,700.00	89.93	0.34	7,558.16	2,200.98	-130.10	2,203.57	0.00	0.00	0.00
9,800.00	89.93	0.34	7,558.28	2,300.98	-129.50	2,303.52	0.00	0.00	0.00
9,900.00	89.93	0.34	7,558.40	2,400.98	-128.90	2,403.47	0.00	0.00	0.00
10,000.00	89.93	0.34	7,558.52	2,500.98	-128.29	2,503.42	0.00	0.00	0.00
10,100.00	89.93	0.34	7,558.64	2,600.97	-127.69	2,603.37	0.00	0.00	0.00
10,200.00	89.93	0.34	7,558.76	2,700.97	-127.09	2,703.32	0.00	0.00	0.00
10,300.00	89.93	0.34	7,558.87	2,800.97	-126.49	2,803.27	0.00	0.00	0.00
10,400.00	89.93	0.34	7,558.99	2,900.97	-125.89	2,903.22	0.00	0.00	0.00
10,500.00	89.93	0.34	7,559.11	3,000.97	-125.29	3,003.17	0.00	0.00	0.00
10,600.00	89.93	0.34	7,559.23	3,100.97	-124.69	3,103.12	0.00	0.00	0.00
10,700.00	89.93	0.34	7,559.35	3,200.96	-124.09	3,203.08	0.00	0.00	0.00
10,800.00	89.93	0.34	7,559.47	3,300.96	-123.48	3,303.03	0.00	0.00	0.00
10,900.00	89.93	0.34	7,559.59	3,400.96	-122.88	3,402.98	0.00	0.00	0.00
11,000.00	89.93	0.34	7,559.71	3,500.96	-122.28	3,502.93	0.00	0.00	0.00
11,100.00	89.93	0.34	7,559.83	3,600.96	-121.68	3,602.88	0.00	0.00	0.00
11,200.00	89.93	0.34	7,559.95	3,700.95	-121.08	3,702.83	0.00	0.00	0.00
11,300.00	89.93	0.34	7,560.07	3,800.95	-120.48	3,802.78	0.00	0.00	0.00
11,400.00	89.93	0.34	7,560.19	3,900.95	-119.88	3,902.73	0.00	0.00	0.00
11,500.00	89.93	0.34	7,560.30	4,000.95	-119.27	4,002.68	0.00	0.00	0.00
11,600.00	89.93	0.34	7,560.42	4,100.95	-118.67	4,102.64	0.00	0.00	0.00
11,700.00	89.93	0.34	7,560.54	4,200.94	-118.07	4,202.59	0.00	0.00	0.00
11,800.00	89.93	0.34	7,560.66	4,300.94	-117.47	4,302.54	0.00	0.00	0.00
11,900.00	89.93	0.34	7,560.78	4,400.94	-116.87	4,402.49	0.00	0.00	0.00
12,000.00	89.93	0.34	7,560.90	4,500.94	-116.27	4,502.44	0.00	0.00	0.00
12,083.89	89.93	0.34	7,561.00	4,584.83	-115.76	4,586.29	0.00	0.00	0.00
TD at 12083.89 - Gobbler 2C-23HZ BHL									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Gobbler 2C-23HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 5111.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 5111.00ft
Site:	WELD_GOBBLER 14-23HZ PAD	North Reference:	True
Well:	Gobbler 2C-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gobbler 2C-23HZ		
Design:	Gobbler 2C-23HZ (wp01)		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
Gobbler 2C-23HZ BHL	0.00	0.00	7,561.00	4,584.83	-115.76	1,291,013.26	3,212,209.63	40.129732	-104.741071
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(")	(")
1,000.00	1,000.00	9 5/8"		9-5/8	12-1/4
7,886.98	7,556.00	7"		7	8-3/4

Formations						
Measured Depth	Vertical Depth	Name		Lithology	Dip	Dip Direction
(ft)	(ft)				(°)	(°)
4,208.29	4,206.00	Parkman				
4,611.60	4,609.00	Sussex				
7,206.78	7,197.00	Sharon Springs				
7,269.75	7,254.00	Niobrara A				
7,324.60	7,301.00	Niobrara B				
7,437.29	7,388.00	Niobrara C				
7,704.51	7,527.00	Fort Hays				
7,811.85	7,551.00	Codell				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
(ft)	(ft)	(ft)	(ft)		
1,150.00	1,150.00	0.00	0.00	Start Build 2.00	
1,262.29	1,262.26	-1.79	-1.27	Start 5706.94 hold at 1262.29 MD	
6,969.23	6,964.82	-184.10	-130.79	Start DLS 10.00 TFO 144.90	
7,886.98	7,556.00	388.00	-141.00	Start DLS 1.00 TFO 99.50	
7,890.49	7,556.00	391.50	-140.98	Start 4193.41 hold at 7890.49 MD	
12,083.89	7,561.00	4,584.83	-115.76	TD at 12083.89	