

US ROCKIES REGION PLANNING

COLORADO NORTHERN CWP - 83

Phase 1 Pad 3

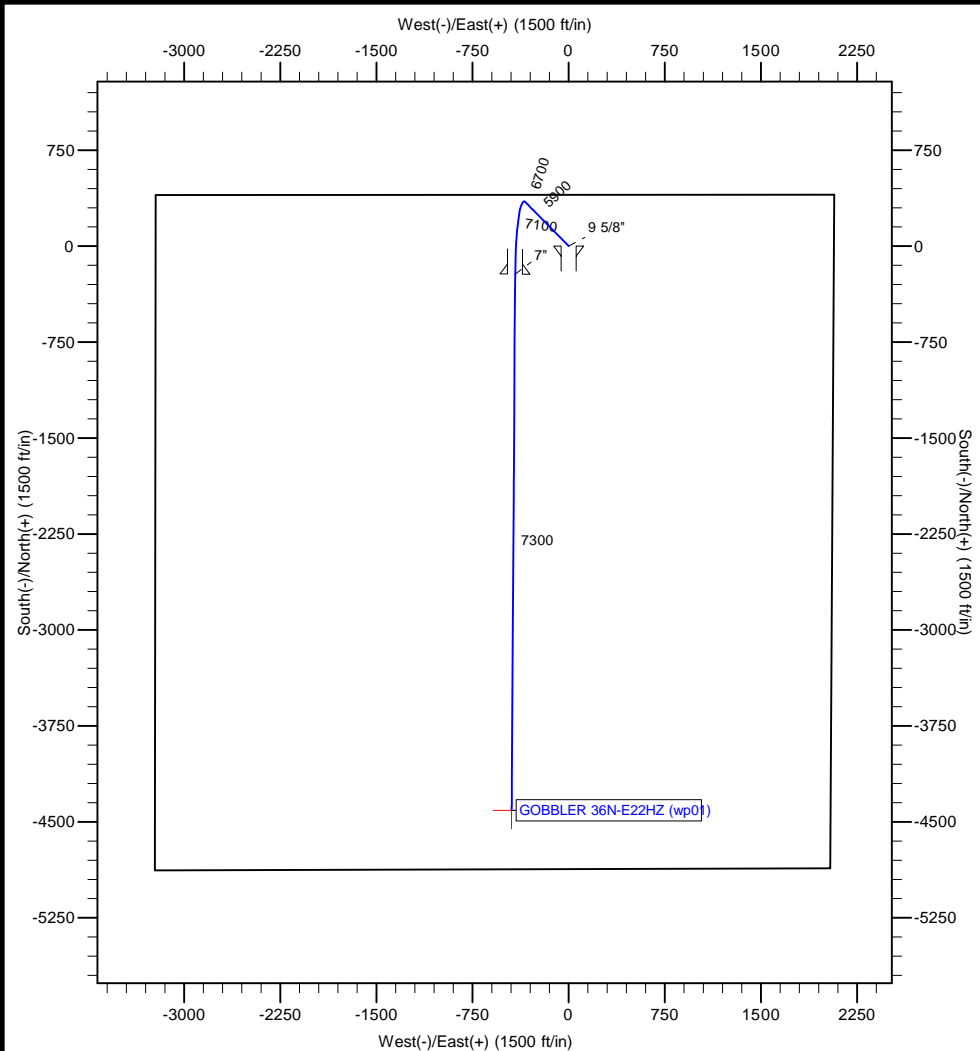
GOBBLER 36N-E22HZ

GOBBLER 36N-E22HZ

Plan: GOBBLER 36N-E22HZ (wp02)

Standard Planning Report

25 October, 2011



Project: COLORADO NORTHERN CWP - 83
Site: Phase 1 Pad 3
Well: GOBBLER 36N-E22HZ
Wellbore: GOBBLER 36N-E22HZ
Section:
SHL:
Design: GOBBLER 36N-E22HZ (wp01)
Latitude: 40.129807
Longitude: -104.761299
GL: 5053.01
KB: 17' RKB + 5053' GL @ 5070.01ft

WELL DETAILS: GOBBLER 36N-E22HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	5053.01 Latitude	Longitude	Slot
0.00	0.00	1290992.80	3206553.44	40.129807	-104.761299	

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
3500.01	0.00	0.00	3500.01	0.00	0.00	0.00	0.00	0.00
3972.14	9.44	315.47	3970.01	27.67	-27.22	2.00	315.47	-24.80
6693.78	9.44	315.47	6654.77	346.00	-340.34	0.00	0.00	-310.10
7657.94	89.74	180.35	7290.01	-220.00	-418.00	10.00	-134.76	260.84
7660.10	89.73	180.37	7290.02	-222.16	-418.01	1.00	120.74	262.99
11848.76	89.73	180.37	7310.01	-4410.68	-444.96	0.00	0.00	4433.07

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

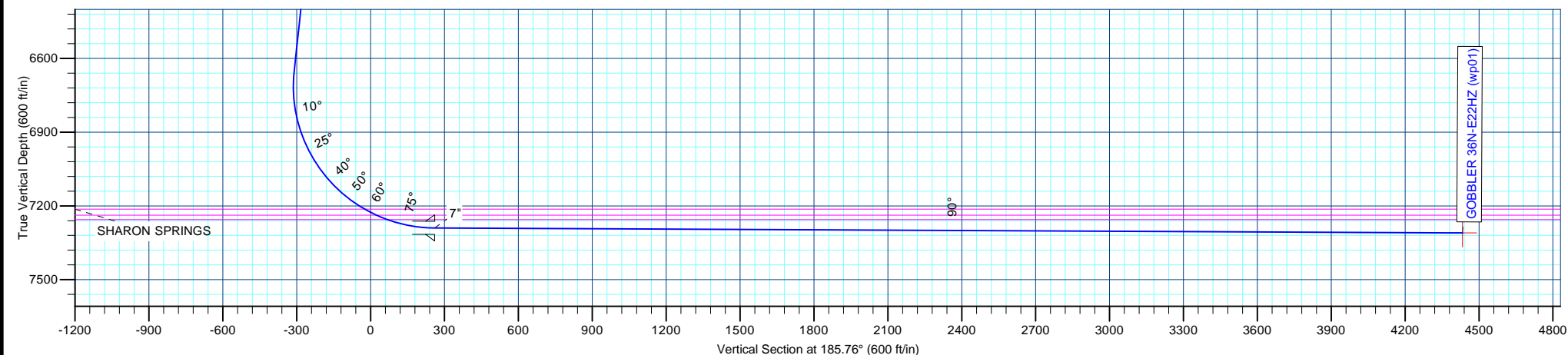
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
GOBBLER 36N-E22HZ BHL	7310.01	-4410.68	-444.96	40.117699	-104.762890	Point

FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
4210.01	4215.44	PARKMAN
4741.01	4753.73	SUSSEX
7213.01	7359.04	SHARON SPRINGS
7238.01	7413.72	NIOBRARA A
7256.01	7461.50	NIOBRARA B

CASING DETAILS

TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
7290.01	7657.92	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 36N-E22HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 5053' GL @ 5070.01ft
Project:	COLORADO NORTHERN CWP - 83	MD Reference:	17' RKB + 5053' GL @ 5070.01ft
Site:	Phase 1 Pad 3	North Reference:	True
Well:	GOBBLER 36N-E22HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 36N-E22HZ		
Design:	GOBBLER 36N-E22HZ (wp02)		

Project	COLORADO NORTHERN CWP - 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Phase 1 Pad 3			
Site Position:		Northing:	1,290,993.56 usft	Latitude: 40.129807
From:	Lat/Long	Easting:	3,206,643.20 usft	Longitude: -104.760978
Position Uncertainty:	0.00 ft	Slot Radius:	0 "	Grid Convergence: 0.48 °

Well	GOBBLER 36N-E22HZ, Phase 1 Pad 3			
Well Position	+N/-S	-0.01 ft	Northing:	1,290,992.80 usft
	+E/-W	-89.76 ft	Easting:	3,206,553.44 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Latitude: 40.129807
				Longitude: -104.761299
				Ground Level: 5,053.01 ft

Wellbore	GOBBLER 36N-E22HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/16/2011	8.76	66.83	52,984

Design	GOBBLER 36N-E22HZ (wp02)			
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	185.76

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	
3,500.01	0.00	0.00	3,500.01	0.00	0.00	0.00	0.00	0.00	0.00	
3,972.14	9.44	315.47	3,970.01	27.67	-27.22	2.00	2.00	0.00	315.47	
6,693.78	9.44	315.47	6,654.77	346.00	-340.34	0.00	0.00	0.00	0.00	
7,657.94	89.74	180.35	7,290.01	-220.00	-418.00	10.00	8.33	-14.01	-134.76	
7,660.10	89.73	180.37	7,290.02	-222.16	-418.01	1.00	-0.51	0.86	120.74	
11,848.76	89.73	180.37	7,310.01	-4,410.68	-444.96	0.00	0.00	0.00	0.00	GOBBLER 36N-E22H

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 36N-E22HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 5053' GL @ 5070.01ft
Project:	COLORADO NORTHERN CWP - 83	MD Reference:	17' RKB + 5053' GL @ 5070.01ft
Site:	Phase 1 Pad 3	North Reference:	True
Well:	GOBBLER 36N-E22HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 36N-E22HZ		
Design:	GOBBLER 36N-E22HZ (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
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
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.01	0.00	0.00	3,500.01	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
3,600.00	2.00	315.47	3,599.98	1.24	-1.22	-1.11	2.00	2.00	0.00
3,700.00	4.00	315.47	3,699.84	4.97	-4.89	-4.46	2.00	2.00	0.00
3,800.00	6.00	315.47	3,799.45	11.19	-11.00	-10.03	2.00	2.00	0.00
3,900.00	8.00	315.47	3,898.70	19.88	-19.55	-17.81	2.00	2.00	0.00
3,972.14	9.44	315.47	3,970.01	27.67	-27.22	-24.80	2.00	2.00	0.00
Start 2721.64 hold at 3972.14 MD									
4,000.00	9.44	315.47	3,997.49	30.93	-30.43	-27.72	0.00	0.00	0.00
4,100.00	9.44	315.47	4,096.13	42.63	-41.93	-38.20	0.00	0.00	0.00
4,200.00	9.44	315.47	4,194.78	54.32	-53.44	-48.69	0.00	0.00	0.00
4,215.44	9.44	315.47	4,210.01	56.13	-55.21	-50.31	0.00	0.00	0.00
PARKMAN									
4,300.00	9.44	315.47	4,293.42	66.02	-64.94	-59.17	0.00	0.00	0.00
4,400.00	9.44	315.47	4,392.07	77.72	-76.44	-69.65	0.00	0.00	0.00
4,500.00	9.44	315.47	4,490.71	89.41	-87.95	-80.13	0.00	0.00	0.00
4,600.00	9.44	315.47	4,589.36	101.11	-99.45	-90.62	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 36N-E22HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 5053' GL @ 5070.01ft
Project:	COLORADO NORTHERN CWP - 83	MD Reference:	17' RKB + 5053' GL @ 5070.01ft
Site:	Phase 1 Pad 3	North Reference:	True
Well:	GOBBLER 36N-E22HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 36N-E22HZ		
Design:	GOBBLER 36N-E22HZ (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)
4,700.00	9.44	315.47	4,688.00	112.81	-110.96	-101.10	0.00	0.00	0.00
4,753.73	9.44	315.47	4,741.01	119.09	-117.14	-106.73	0.00	0.00	0.00
SUSSEX									
4,800.00	9.44	315.47	4,786.65	124.50	-122.46	-111.58	0.00	0.00	0.00
4,900.00	9.44	315.47	4,885.29	136.20	-133.97	-122.06	0.00	0.00	0.00
5,000.00	9.44	315.47	4,983.94	147.89	-145.47	-132.55	0.00	0.00	0.00
5,100.00	9.44	315.47	5,082.58	159.59	-156.98	-143.03	0.00	0.00	0.00
5,200.00	9.44	315.47	5,181.23	171.29	-168.48	-153.51	0.00	0.00	0.00
5,300.00	9.44	315.47	5,279.87	182.98	-179.99	-163.99	0.00	0.00	0.00
5,400.00	9.44	315.47	5,378.52	194.68	-191.49	-174.48	0.00	0.00	0.00
5,500.00	9.44	315.47	5,477.16	206.38	-203.00	-184.96	0.00	0.00	0.00
5,600.00	9.44	315.47	5,575.81	218.07	-214.50	-195.44	0.00	0.00	0.00
5,700.00	9.44	315.47	5,674.45	229.77	-226.01	-205.92	0.00	0.00	0.00
5,800.00	9.44	315.47	5,773.10	241.46	-237.51	-216.41	0.00	0.00	0.00
5,900.00	9.44	315.47	5,871.74	253.16	-249.02	-226.89	0.00	0.00	0.00
6,000.00	9.44	315.47	5,970.39	264.86	-260.52	-237.37	0.00	0.00	0.00
6,100.00	9.44	315.47	6,069.03	276.55	-272.03	-247.85	0.00	0.00	0.00
6,200.00	9.44	315.47	6,167.68	288.25	-283.53	-258.33	0.00	0.00	0.00
6,300.00	9.44	315.47	6,266.32	299.95	-295.04	-268.82	0.00	0.00	0.00
6,400.00	9.44	315.47	6,364.97	311.64	-306.54	-279.30	0.00	0.00	0.00
6,500.00	9.44	315.47	6,463.61	323.34	-318.05	-289.78	0.00	0.00	0.00
6,600.00	9.44	315.47	6,562.26	335.03	-329.55	-300.26	0.00	0.00	0.00
6,693.78	9.44	315.47	6,654.77	346.00	-340.34	-310.10	0.00	0.00	0.00
Start DLS 10.00 TFO -134.76									
6,700.00	9.02	312.65	6,660.91	346.70	-341.06	-310.71	10.00	-6.87	-45.33
6,800.00	7.76	239.71	6,760.08	348.61	-352.68	-311.45	10.00	-1.26	-72.94
6,900.00	15.44	205.46	6,858.07	333.15	-364.26	-294.90	10.00	7.68	-34.26
7,000.00	24.81	195.02	6,951.89	300.79	-375.44	-261.59	10.00	9.37	-10.44
7,100.00	34.52	190.14	7,038.70	252.51	-385.89	-212.51	10.00	9.71	-4.88
7,200.00	44.35	187.21	7,115.85	189.79	-395.29	-149.16	10.00	9.83	-2.93
7,300.00	54.23	185.17	7,181.00	114.53	-403.35	-73.46	10.00	9.88	-2.04
7,359.04	60.07	184.19	7,213.01	65.12	-407.38	-23.90	10.00	9.90	-1.65
SHARON SPRINGS									
7,400.00	64.13	183.58	7,232.18	29.01	-409.83	12.28	10.00	9.91	-1.49
7,413.72	65.49	183.38	7,238.01	16.61	-410.58	24.68	10.00	9.92	-1.42
NIOBRARA A									
7,461.50	70.23	182.73	7,256.01	-27.57	-412.94	68.88	10.00	9.92	-1.36
NIOBRARA B									
7,500.00	74.05	182.24	7,267.82	-64.17	-414.53	105.45	10.00	9.92	-1.29
7,500.23	74.05	182.24	7,267.88	-64.39	-414.54	105.68	0.00	0.00	0.00
GOBBLER 36N-E22HZ heel									
7,600.00	83.98	181.03	7,286.84	-162.18	-417.31	203.24	10.02	9.95	-1.21
7,657.92	89.74	180.35	7,290.01	-219.98	-418.00	260.82	10.00	9.93	-1.17
7"									
7,657.94	89.74	180.35	7,290.01	-220.00	-418.00	260.85	10.00	9.93	-1.16
Start DLS 1.00 TFO 120.74									
7,660.10	89.73	180.37	7,290.02	-222.16	-418.01	262.99	1.00	-0.51	0.86
Start 4188.66 hold at 7660.10 MD									
7,700.00	89.73	180.37	7,290.22	-262.06	-418.27	302.72	0.00	0.00	0.00
7,800.00	89.73	180.37	7,290.69	-362.06	-418.91	402.28	0.00	0.00	0.00
7,900.00	89.73	180.37	7,291.17	-462.05	-419.56	501.83	0.00	0.00	0.00
8,000.00	89.73	180.37	7,291.65	-562.05	-420.20	601.39	0.00	0.00	0.00
8,100.00	89.73	180.37	7,292.12	-662.05	-420.84	700.94	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 36N-E22HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 5053' GL @ 5070.01ft
Project:	COLORADO NORTHERN CWP - 83	MD Reference:	17' RKB + 5053' GL @ 5070.01ft
Site:	Phase 1 Pad 3	North Reference:	True
Well:	GOBBLER 36N-E22HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 36N-E22HZ		
Design:	GOBBLER 36N-E22HZ (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)
8,200.00	89.73	180.37	7,292.60	-762.04	-421.49	800.50	0.00	0.00	0.00
8,300.00	89.73	180.37	7,293.08	-862.04	-422.13	900.06	0.00	0.00	0.00
8,400.00	89.73	180.37	7,293.56	-962.04	-422.77	999.61	0.00	0.00	0.00
8,500.00	89.73	180.37	7,294.03	-1,062.03	-423.42	1,099.17	0.00	0.00	0.00
8,600.00	89.73	180.37	7,294.51	-1,162.03	-424.06	1,198.73	0.00	0.00	0.00
8,700.00	89.73	180.37	7,294.99	-1,262.03	-424.70	1,298.28	0.00	0.00	0.00
8,800.00	89.73	180.37	7,295.46	-1,362.02	-425.35	1,397.84	0.00	0.00	0.00
8,900.00	89.73	180.37	7,295.94	-1,462.02	-425.99	1,497.40	0.00	0.00	0.00
9,000.00	89.73	180.37	7,296.42	-1,562.02	-426.63	1,596.95	0.00	0.00	0.00
9,100.00	89.73	180.37	7,296.90	-1,662.01	-427.28	1,696.51	0.00	0.00	0.00
9,200.00	89.73	180.37	7,297.37	-1,762.01	-427.92	1,796.06	0.00	0.00	0.00
9,300.00	89.73	180.37	7,297.85	-1,862.01	-428.56	1,895.62	0.00	0.00	0.00
9,400.00	89.73	180.37	7,298.33	-1,962.01	-429.21	1,995.18	0.00	0.00	0.00
9,500.00	89.73	180.37	7,298.81	-2,062.00	-429.85	2,094.73	0.00	0.00	0.00
9,600.00	89.73	180.37	7,299.28	-2,162.00	-430.49	2,194.29	0.00	0.00	0.00
9,700.00	89.73	180.37	7,299.76	-2,262.00	-431.14	2,293.85	0.00	0.00	0.00
9,800.00	89.73	180.37	7,300.24	-2,361.99	-431.78	2,393.40	0.00	0.00	0.00
9,900.00	89.73	180.37	7,300.71	-2,461.99	-432.42	2,492.96	0.00	0.00	0.00
10,000.00	89.73	180.37	7,301.19	-2,561.99	-433.06	2,592.52	0.00	0.00	0.00
10,100.00	89.73	180.37	7,301.67	-2,661.98	-433.71	2,692.07	0.00	0.00	0.00
10,200.00	89.73	180.37	7,302.15	-2,761.98	-434.35	2,791.63	0.00	0.00	0.00
10,300.00	89.73	180.37	7,302.62	-2,861.98	-434.99	2,891.18	0.00	0.00	0.00
10,400.00	89.73	180.37	7,303.10	-2,961.97	-435.64	2,990.74	0.00	0.00	0.00
10,500.00	89.73	180.37	7,303.58	-3,061.97	-436.28	3,090.30	0.00	0.00	0.00
10,600.00	89.73	180.37	7,304.06	-3,161.97	-436.92	3,189.85	0.00	0.00	0.00
10,700.00	89.73	180.37	7,304.53	-3,261.96	-437.57	3,289.41	0.00	0.00	0.00
10,800.00	89.73	180.37	7,305.01	-3,361.96	-438.21	3,388.97	0.00	0.00	0.00
10,900.00	89.73	180.37	7,305.49	-3,461.96	-438.85	3,488.52	0.00	0.00	0.00
11,000.00	89.73	180.37	7,305.96	-3,561.95	-439.50	3,588.08	0.00	0.00	0.00
11,100.00	89.73	180.37	7,306.44	-3,661.95	-440.14	3,687.64	0.00	0.00	0.00
11,200.00	89.73	180.37	7,306.92	-3,761.95	-440.78	3,787.19	0.00	0.00	0.00
11,300.00	89.73	180.37	7,307.40	-3,861.94	-441.43	3,886.75	0.00	0.00	0.00
11,400.00	89.73	180.37	7,307.87	-3,961.94	-442.07	3,986.30	0.00	0.00	0.00
11,500.00	89.73	180.37	7,308.35	-4,061.94	-442.71	4,085.86	0.00	0.00	0.00
11,600.00	89.73	180.37	7,308.83	-4,161.93	-443.36	4,185.42	0.00	0.00	0.00
11,700.00	89.73	180.37	7,309.30	-4,261.93	-444.00	4,284.97	0.00	0.00	0.00
11,800.00	89.73	180.37	7,309.78	-4,361.93	-444.64	4,384.53	0.00	0.00	0.00
11,848.76	89.73	180.37	7,310.01	-4,410.68	-444.96	4,433.07	0.00	0.00	0.00
TD at 11848.76 - GOBBLER 36N-E22HZ BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
GOBBLER 36N-E22HZ I	0.00	0.00	7,310.01	-4,410.68	-444.96	1,286,578.57	3,206,145.24	40.117699	-104.762890
- hit/miss target									
- Shape									
- Point									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 36N-E22HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 5053' GL @ 5070.01ft
Project:	COLORADO NORTHERN CWP - 83	MD Reference:	17' RKB + 5053' GL @ 5070.01ft
Site:	Phase 1 Pad 3	North Reference:	True
Well:	GOBBLER 36N-E22HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 36N-E22HZ		
Design:	GOBBLER 36N-E22HZ (wp02)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
900.00	900.00	9 5/8"		9-5/8	12-1/4
7,657.92	7,290.01	7"		7	8-3/4

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,215.44	4,210.01	PARKMAN		0.00	
4,753.73	4,741.01	SUSSEX		0.00	
7,359.04	7,213.01	SHARON SPRINGS		0.00	
7,413.72	7,238.01	NIOBRARA A		0.00	
7,461.50	7,256.01	NIOBRARA B		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
3,500.01	3,500.01	0.00	0.00	Start Build 2.00	
3,972.14	3,970.01	27.67	-27.22	Start 2721.64 hold at 3972.14 MD	
6,693.78	6,654.77	346.00	-340.34	Start DLS 10.00 TFO -134.76	
7,657.94	7,290.01	-220.00	-418.00	Start DLS 1.00 TFO 120.74	
7,660.10	7,290.02	-222.16	-418.01	Start 4188.66 hold at 7660.10 MD	
11,848.76	7,310.01	-4,410.68	-444.96	TD at 11848.76	