

US ROCKIES REGION PLANNING

COLORADO NORTHERN CWP - 83

Phase 1 Pad 3

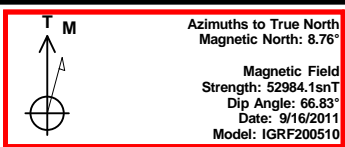
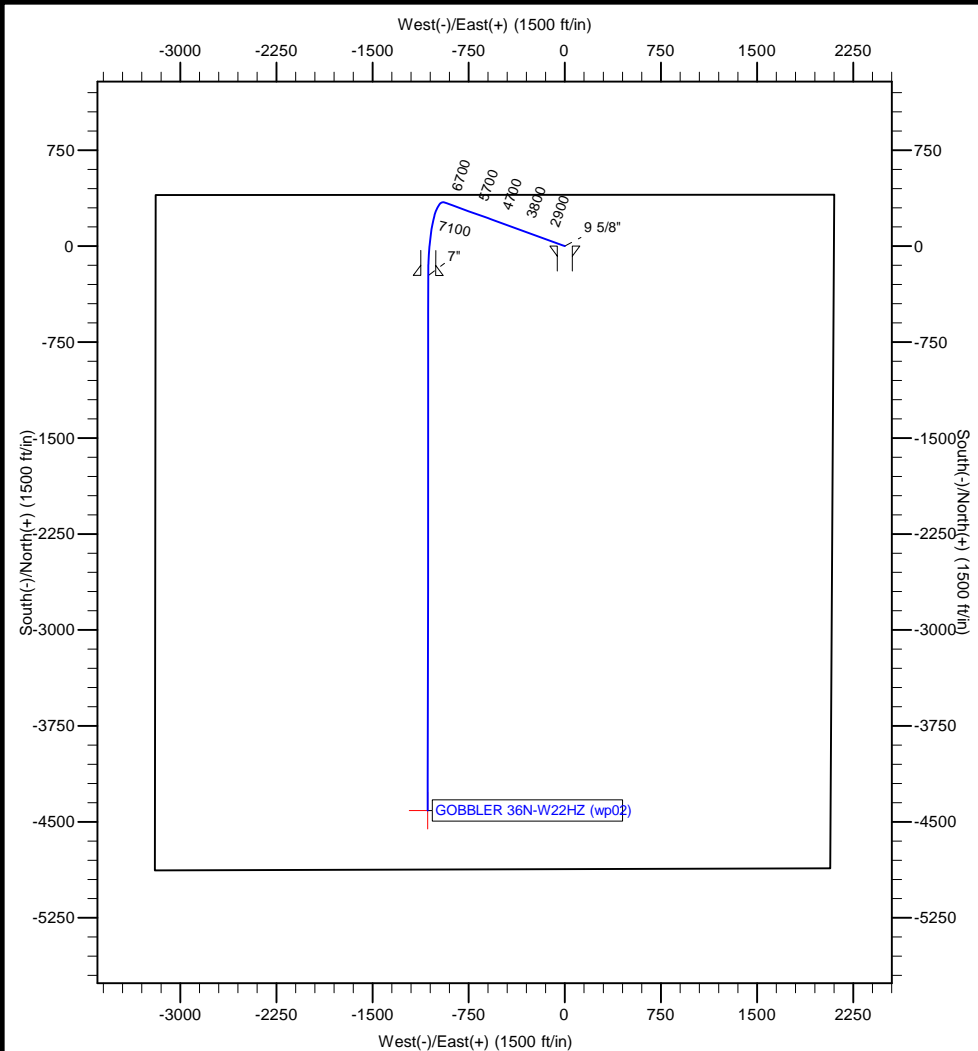
GOBBLER 36N-W22HZ

GOBBLER 36N-W22HZ

Plan: GOBBLER 36N-W22HZ (wp01)

Standard Planning Report

25 October, 2011



Project: COLORADO NORTHERN CWP - 83
 Site: Phase 1 Pad 3
 Well: GOBBLER 36N-W22HZ
 Wellbore: GOBBLER 36N-W22HZ
 Section:
 SHL:
 Design: GOBBLER 36N-W22HZ (wp01)
 Latitude: 40.129807
 Longitude: -104.761407
 GL: 5053.01
 KB: 17' RKB + 5053' GL @ 5070.01ft

WELL DETAILS: GOBBLER 36N-W22HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	5053.01 Latitude	Longitude	Slot
0.00	0.00	1290992.55	3206523.24	40.129807	-104.761407	

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
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00
2416.00	12.32	289.98	2411.27	22.54	-62.00	2.00	289.98	-7.31
6800.67	12.32	289.98	6694.96	342.25	-941.23	0.00	0.00	-111.03
7743.30	90.09	180.04	7297.01	-230.00	-1065.44	10.00	-109.50	474.38
7744.14	90.10	180.05	7297.01	-230.84	-1065.44	1.00	61.43	475.20
11925.79	90.10	180.05	7290.01	-4412.49	-1068.90	0.00	0.00	4540.11

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

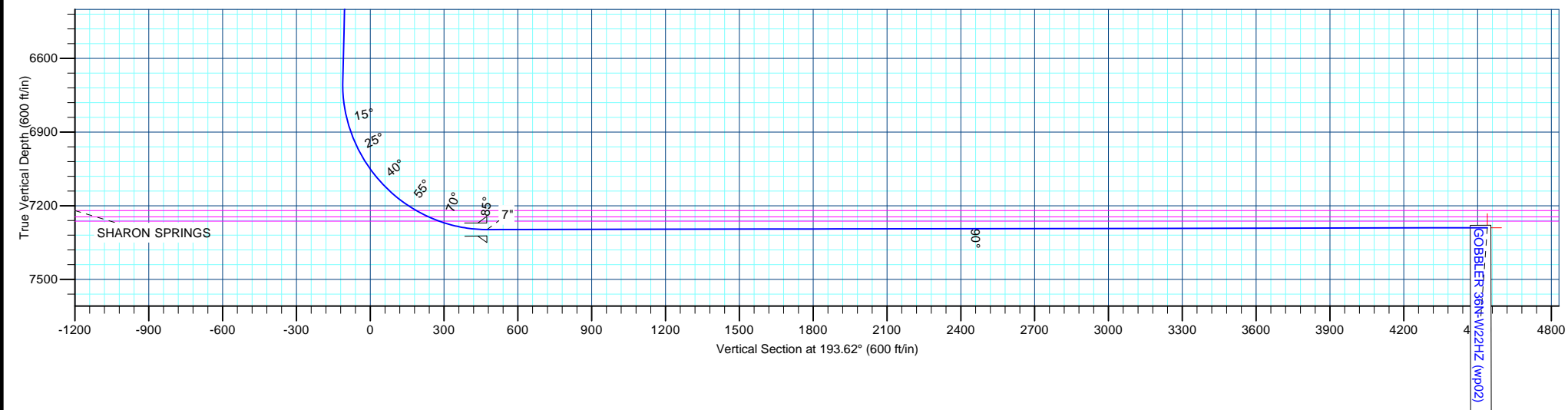
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
GOBBLER 36N-W22HZ bhl	7290.01	-4412.49	-1068.90	40.117694	-104.765229	Point

FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
4217.01	4264.31	PARKMAN
4748.01	4807.83	SUSSEX
7220.01	7438.69	SHARON SPRINGS
7245.01	7493.78	NIOBRARA A
7263.01	7541.91	NIOBRARA B

CASING DETAILS

TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
7297.01	7743.32	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 36N-W22HZ
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-W22HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 36N-W22HZ		
Design:	GOBBLER 36N-W22HZ (wp01)		

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-W22HZ, Phase 1 Pad 3			
Well Position	+N/-S	-0.01 ft	Northing:	1,290,992.55 usft
	+E/-W	-119.96 ft	Easting:	3,206,523.24 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:		Ground Level: 5,053.01 ft

Wellbore	GOBBLER 36N-W22HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/16/2011	8.76	66.83	52,984

Design	GOBBLER 36N-W22HZ (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	193.62

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	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,416.00	12.32	289.98	2,411.27	22.54	-62.00	2.00	2.00	0.00	289.98	
6,800.67	12.32	289.98	6,694.96	342.25	-941.23	0.00	0.00	0.00	0.00	
7,743.30	90.09	180.04	7,297.01	-230.00	-1,065.44	10.00	8.25	-11.66	-109.50	
7,744.14	90.10	180.05	7,297.01	-230.84	-1,065.44	1.00	0.48	0.88	61.43	
11,925.79	90.10	180.05	7,290.01	-4,412.49	-1,068.90	0.00	0.00	0.00	0.00	GOBBLER 36N-W22H

Anadarko Petroleum Corp

Planning Report

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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-W22HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 36N-W22HZ		
Design:	GOBBLER 36N-W22HZ (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
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
Start Build 2.00									
1,900.00	2.00	289.98	1,899.98	0.60	-1.64	-0.19	2.00	2.00	0.00
2,000.00	4.00	289.98	1,999.84	2.38	-6.56	-0.77	2.00	2.00	0.00
2,100.00	6.00	289.98	2,099.45	5.36	-14.75	-1.74	2.00	2.00	0.00
2,200.00	8.00	289.98	2,198.70	9.53	-26.20	-3.09	2.00	2.00	0.00
2,300.00	10.00	289.98	2,297.47	14.87	-40.90	-4.82	2.00	2.00	0.00
2,400.00	12.00	289.98	2,395.62	21.39	-58.83	-6.94	2.00	2.00	0.00
2,416.00	12.32	289.98	2,411.27	22.54	-62.00	-7.31	2.00	2.00	0.00
Start 4384.66 hold at 2416.00 MD									
2,500.00	12.32	289.98	2,493.33	28.67	-78.84	-9.30	0.00	0.00	0.00
2,600.00	12.32	289.98	2,591.03	35.96	-98.90	-11.67	0.00	0.00	0.00
2,700.00	12.32	289.98	2,688.72	43.25	-118.95	-14.03	0.00	0.00	0.00
2,800.00	12.32	289.98	2,786.42	50.54	-139.00	-16.40	0.00	0.00	0.00
2,900.00	12.32	289.98	2,884.12	57.84	-159.05	-18.76	0.00	0.00	0.00
3,000.00	12.32	289.98	2,981.82	65.13	-179.11	-21.13	0.00	0.00	0.00
3,100.00	12.32	289.98	3,079.51	72.42	-199.16	-23.49	0.00	0.00	0.00
3,200.00	12.32	289.98	3,177.21	79.71	-219.21	-25.86	0.00	0.00	0.00
3,300.00	12.32	289.98	3,274.91	87.00	-239.26	-28.22	0.00	0.00	0.00
3,400.00	12.32	289.98	3,372.60	94.29	-259.32	-30.59	0.00	0.00	0.00
3,500.00	12.32	289.98	3,470.30	101.58	-279.37	-32.96	0.00	0.00	0.00
3,600.00	12.32	289.98	3,568.00	108.88	-299.42	-35.32	0.00	0.00	0.00
3,700.00	12.32	289.98	3,665.70	116.17	-319.47	-37.69	0.00	0.00	0.00
3,800.00	12.32	289.98	3,763.39	123.46	-339.53	-40.05	0.00	0.00	0.00
3,900.00	12.32	289.98	3,861.09	130.75	-359.58	-42.42	0.00	0.00	0.00
4,000.00	12.32	289.98	3,958.79	138.04	-379.63	-44.78	0.00	0.00	0.00
4,100.00	12.32	289.98	4,056.48	145.33	-399.68	-47.15	0.00	0.00	0.00
4,200.00	12.32	289.98	4,154.18	152.62	-419.74	-49.51	0.00	0.00	0.00
4,264.31	12.32	289.98	4,217.01	157.31	-432.63	-51.04	0.00	0.00	0.00
PARKMAN									
4,300.00	12.32	289.98	4,251.88	159.92	-439.79	-51.88	0.00	0.00	0.00
4,400.00	12.32	289.98	4,349.58	167.21	-459.84	-54.24	0.00	0.00	0.00
4,500.00	12.32	289.98	4,447.27	174.50	-479.89	-56.61	0.00	0.00	0.00
4,600.00	12.32	289.98	4,544.97	181.79	-499.95	-58.98	0.00	0.00	0.00
4,700.00	12.32	289.98	4,642.67	189.08	-520.00	-61.34	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 36N-W22HZ
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-W22HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 36N-W22HZ		
Design:	GOBBLER 36N-W22HZ (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)
4,800.00	12.32	289.98	4,740.36	196.37	-540.05	-63.71	0.00	0.00	0.00
4,807.83	12.32	289.98	4,748.01	196.94	-541.62	-63.89	0.00	0.00	0.00
SUSSEX									
4,900.00	12.32	289.98	4,838.06	203.67	-560.10	-66.07	0.00	0.00	0.00
5,000.00	12.32	289.98	4,935.76	210.96	-580.16	-68.44	0.00	0.00	0.00
5,100.00	12.32	289.98	5,033.46	218.25	-600.21	-70.80	0.00	0.00	0.00
5,200.00	12.32	289.98	5,131.15	225.54	-620.26	-73.17	0.00	0.00	0.00
5,300.00	12.32	289.98	5,228.85	232.83	-640.31	-75.53	0.00	0.00	0.00
5,400.00	12.32	289.98	5,326.55	240.12	-660.37	-77.90	0.00	0.00	0.00
5,500.00	12.32	289.98	5,424.24	247.41	-680.42	-80.27	0.00	0.00	0.00
5,600.00	12.32	289.98	5,521.94	254.71	-700.47	-82.63	0.00	0.00	0.00
5,700.00	12.32	289.98	5,619.64	262.00	-720.52	-85.00	0.00	0.00	0.00
5,800.00	12.32	289.98	5,717.34	269.29	-740.58	-87.36	0.00	0.00	0.00
5,900.00	12.32	289.98	5,815.03	276.58	-760.63	-89.73	0.00	0.00	0.00
6,000.00	12.32	289.98	5,912.73	283.87	-780.68	-92.09	0.00	0.00	0.00
6,100.00	12.32	289.98	6,010.43	291.16	-800.73	-94.46	0.00	0.00	0.00
6,200.00	12.32	289.98	6,108.12	298.45	-820.79	-96.82	0.00	0.00	0.00
6,300.00	12.32	289.98	6,205.82	305.75	-840.84	-99.19	0.00	0.00	0.00
6,400.00	12.32	289.98	6,303.52	313.04	-860.89	-101.55	0.00	0.00	0.00
6,500.00	12.32	289.98	6,401.22	320.33	-880.94	-103.92	0.00	0.00	0.00
6,600.00	12.32	289.98	6,498.91	327.62	-901.00	-106.29	0.00	0.00	0.00
6,700.00	12.32	289.98	6,596.61	334.91	-921.05	-108.65	0.00	0.00	0.00
6,800.00	12.32	289.98	6,694.31	342.20	-941.10	-111.02	0.00	0.00	0.00
6,800.67	12.32	289.98	6,694.96	342.25	-941.23	-111.03	0.00	0.00	0.00
Start DLS 10.00 TFO -109.50									
6,900.00	12.94	243.41	6,792.13	340.89	-961.19	-105.01	10.00	0.62	-46.89
7,000.00	19.49	215.53	6,888.24	322.26	-980.94	-82.25	10.00	6.55	-27.88
7,100.00	28.09	202.68	6,979.72	286.87	-999.76	-43.43	10.00	8.61	-12.85
7,200.00	37.36	195.66	7,063.78	235.81	-1,017.07	10.28	10.00	9.27	-7.02
7,300.00	46.89	191.14	7,137.88	170.61	-1,032.36	77.24	10.00	9.53	-4.52
7,400.00	56.56	187.85	7,199.76	93.27	-1,045.14	155.42	10.00	9.66	-3.29
7,438.69	60.32	186.78	7,220.01	60.57	-1,049.33	188.18	10.00	9.72	-2.77
SHARON SPRINGS									
7,493.78	65.68	185.38	7,245.01	11.79	-1,054.52	236.81	10.00	9.74	-2.54
NIOBRARA A									
7,500.00	66.29	185.23	7,247.55	6.13	-1,055.04	242.44	10.00	9.75	-2.41
7,541.91	70.38	184.26	7,263.01	-32.68	-1,058.26	280.91	10.00	9.76	-2.33
NIOBRARA B									
7,578.28	73.94	183.45	7,274.16	-67.22	-1,060.58	315.02	10.00	9.77	-2.22
GOBBLER 36N-W22HZ heel									
7,600.00	76.06	182.98	7,279.78	-88.16	-1,061.76	335.66	10.00	9.78	-2.16
7,700.00	85.85	180.91	7,295.48	-186.74	-1,065.08	432.25	10.00	9.79	-2.07
7,743.30	90.09	180.04	7,297.01	-230.00	-1,065.44	474.38	10.00	9.80	-2.01
Start DLS 1.00 TFO 61.43									
7,743.32	90.09	180.04	7,297.01	-230.01	-1,065.44	474.39	0.00	0.00	0.00
7"									
7,744.14	90.10	180.05	7,297.01	-230.84	-1,065.44	475.20	1.02	0.49	0.89
Start 4181.65 hold at 7744.14 MD									
7,800.00	90.10	180.05	7,296.92	-286.70	-1,065.49	529.49	0.00	0.00	0.00
7,900.00	90.10	180.05	7,296.75	-386.70	-1,065.57	626.70	0.00	0.00	0.00
8,000.00	90.10	180.05	7,296.59	-486.70	-1,065.65	723.91	0.00	0.00	0.00
8,100.00	90.10	180.05	7,296.42	-586.70	-1,065.74	821.12	0.00	0.00	0.00
8,200.00	90.10	180.05	7,296.25	-686.70	-1,065.82	918.33	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 36N-W22HZ
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-W22HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 36N-W22HZ		
Design:	GOBBLER 36N-W22HZ (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)
8,300.00	90.10	180.05	7,296.08	-786.70	-1,065.90	1,015.53	0.00	0.00	0.00
8,400.00	90.10	180.05	7,295.92	-886.70	-1,065.99	1,112.74	0.00	0.00	0.00
8,500.00	90.10	180.05	7,295.75	-986.70	-1,066.07	1,209.95	0.00	0.00	0.00
8,600.00	90.10	180.05	7,295.58	-1,086.70	-1,066.15	1,307.16	0.00	0.00	0.00
8,700.00	90.10	180.05	7,295.41	-1,186.70	-1,066.23	1,404.37	0.00	0.00	0.00
8,800.00	90.10	180.05	7,295.25	-1,286.70	-1,066.32	1,501.58	0.00	0.00	0.00
8,900.00	90.10	180.05	7,295.08	-1,386.70	-1,066.40	1,598.78	0.00	0.00	0.00
9,000.00	90.10	180.05	7,294.91	-1,486.70	-1,066.48	1,695.99	0.00	0.00	0.00
9,100.00	90.10	180.05	7,294.74	-1,586.70	-1,066.56	1,793.20	0.00	0.00	0.00
9,200.00	90.10	180.05	7,294.58	-1,686.70	-1,066.65	1,890.41	0.00	0.00	0.00
9,300.00	90.10	180.05	7,294.41	-1,786.70	-1,066.73	1,987.62	0.00	0.00	0.00
9,400.00	90.10	180.05	7,294.24	-1,886.70	-1,066.81	2,084.83	0.00	0.00	0.00
9,500.00	90.10	180.05	7,294.07	-1,986.70	-1,066.90	2,182.03	0.00	0.00	0.00
9,600.00	90.10	180.05	7,293.91	-2,086.70	-1,066.98	2,279.24	0.00	0.00	0.00
9,700.00	90.10	180.05	7,293.74	-2,186.70	-1,067.06	2,376.45	0.00	0.00	0.00
9,800.00	90.10	180.05	7,293.57	-2,286.70	-1,067.14	2,473.66	0.00	0.00	0.00
9,900.00	90.10	180.05	7,293.41	-2,386.70	-1,067.23	2,570.87	0.00	0.00	0.00
10,000.00	90.10	180.05	7,293.24	-2,486.70	-1,067.31	2,668.08	0.00	0.00	0.00
10,100.00	90.10	180.05	7,293.07	-2,586.69	-1,067.39	2,765.28	0.00	0.00	0.00
10,200.00	90.10	180.05	7,292.90	-2,686.69	-1,067.47	2,862.49	0.00	0.00	0.00
10,300.00	90.10	180.05	7,292.74	-2,786.69	-1,067.56	2,959.70	0.00	0.00	0.00
10,400.00	90.10	180.05	7,292.57	-2,886.69	-1,067.64	3,056.91	0.00	0.00	0.00
10,500.00	90.10	180.05	7,292.40	-2,986.69	-1,067.72	3,154.12	0.00	0.00	0.00
10,600.00	90.10	180.05	7,292.23	-3,086.69	-1,067.80	3,251.33	0.00	0.00	0.00
10,700.00	90.10	180.05	7,292.07	-3,186.69	-1,067.89	3,348.53	0.00	0.00	0.00
10,800.00	90.10	180.05	7,291.90	-3,286.69	-1,067.97	3,445.74	0.00	0.00	0.00
10,900.00	90.10	180.05	7,291.73	-3,386.69	-1,068.05	3,542.95	0.00	0.00	0.00
11,000.00	90.10	180.05	7,291.56	-3,486.69	-1,068.14	3,640.16	0.00	0.00	0.00
11,100.00	90.10	180.05	7,291.40	-3,586.69	-1,068.22	3,737.37	0.00	0.00	0.00
11,200.00	90.10	180.05	7,291.23	-3,686.69	-1,068.30	3,834.58	0.00	0.00	0.00
11,300.00	90.10	180.05	7,291.06	-3,786.69	-1,068.38	3,931.78	0.00	0.00	0.00
11,400.00	90.10	180.05	7,290.89	-3,886.69	-1,068.47	4,028.99	0.00	0.00	0.00
11,500.00	90.10	180.05	7,290.73	-3,986.69	-1,068.55	4,126.20	0.00	0.00	0.00
11,600.00	90.10	180.05	7,290.56	-4,086.69	-1,068.63	4,223.41	0.00	0.00	0.00
11,700.00	90.10	180.05	7,290.39	-4,186.69	-1,068.71	4,320.62	0.00	0.00	0.00
11,800.00	90.10	180.05	7,290.23	-4,286.69	-1,068.80	4,417.83	0.00	0.00	0.00
11,900.00	90.10	180.05	7,290.06	-4,386.69	-1,068.88	4,515.03	0.00	0.00	0.00
11,925.79	90.10	180.05	7,290.01	-4,412.49	-1,068.90	4,540.11	0.00	0.00	0.00
TD at 11925.79 - GOBBLER 36N-W22HZ 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									
GOBBLER 36N-W22HZ	0.00	0.00	7,290.01	-4,412.49	-1,068.90	1,286,571.32	3,205,491.13	40.117694	-104.765229
- plan hits target center									
- Point									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 36N-W22HZ
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-W22HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 36N-W22HZ		
Design:	GOBBLER 36N-W22HZ (wp01)		

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
7,743.32	7,297.01	7"		7	8-3/4

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,264.31	4,217.01	PARKMAN		0.00	
4,807.83	4,748.01	SUSSEX		0.00	
7,438.69	7,220.01	SHARON SPRINGS		0.00	
7,493.78	7,245.01	NIOBRARA A		0.00	
7,541.91	7,263.01	NIOBRARA B		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,800.00	1,800.00	0.00	0.00	Start Build 2.00	
2,416.00	2,411.27	22.54	-62.00	Start 4384.66 hold at 2416.00 MD	
6,800.67	6,694.96	342.25	-941.23	Start DLS 10.00 TFO -109.50	
7,743.30	7,297.01	-230.00	-1,065.44	Start DLS 1.00 TFO 61.43	
7,744.14	7,297.01	-230.84	-1,065.44	Start 4181.65 hold at 7744.14 MD	
11,925.79	7,290.01	-4,412.49	-1,068.90	TD at 11925.79	