

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_GOBBLER 15-23HZ

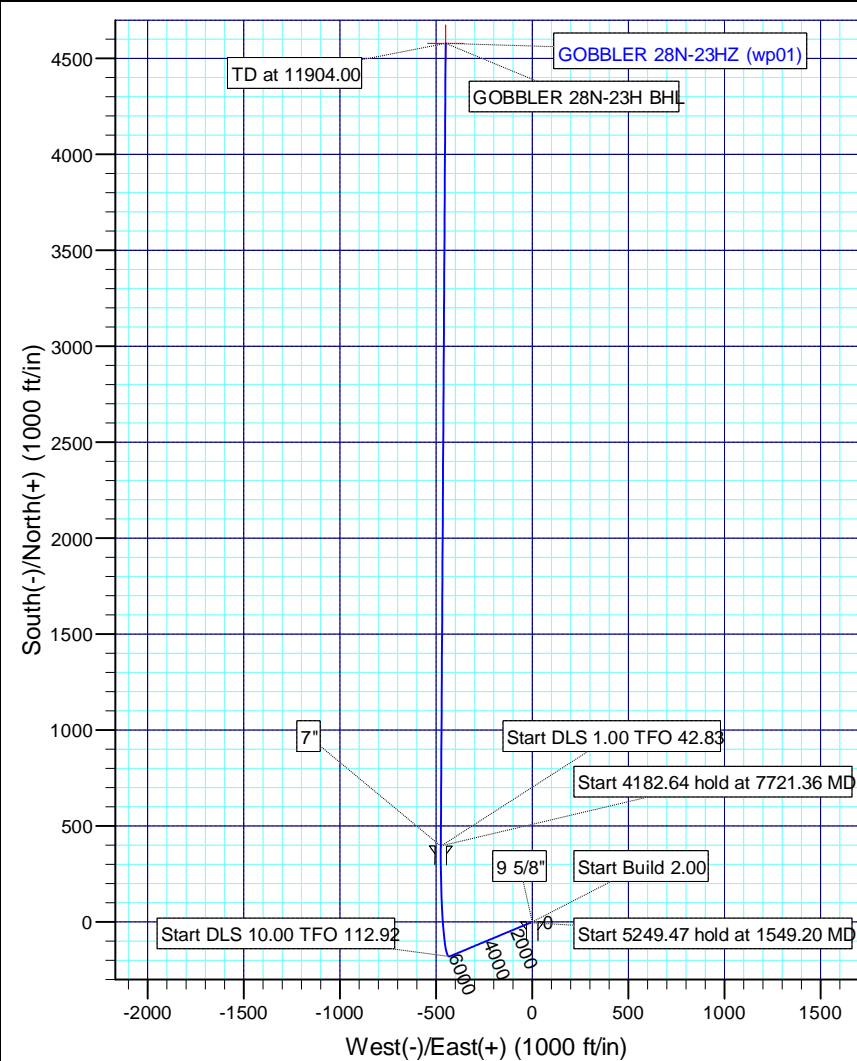
GOBBLER 28N-23HZ

GOBBLER 28N-23HZ

Plan: GOBBLER 28N-23HZ (wp01)

Standard Planning Report

20 March, 2012



PROJECT DETAILS: COLORADO NORTHERN ZONE - 83	
Site:	WELD GOBBLER 15-23HZ
Well:	GOBBLER 28N-23HZ
Wellbore:	GOBBLER 28N-23HZ
Design:	GOBBLER 28N-23HZ (wp01)
Latitude:	40.117142
Longitude:	-104.742502
GL:	5102.00
KB:	17' RKB + GL @ 5119.00ft



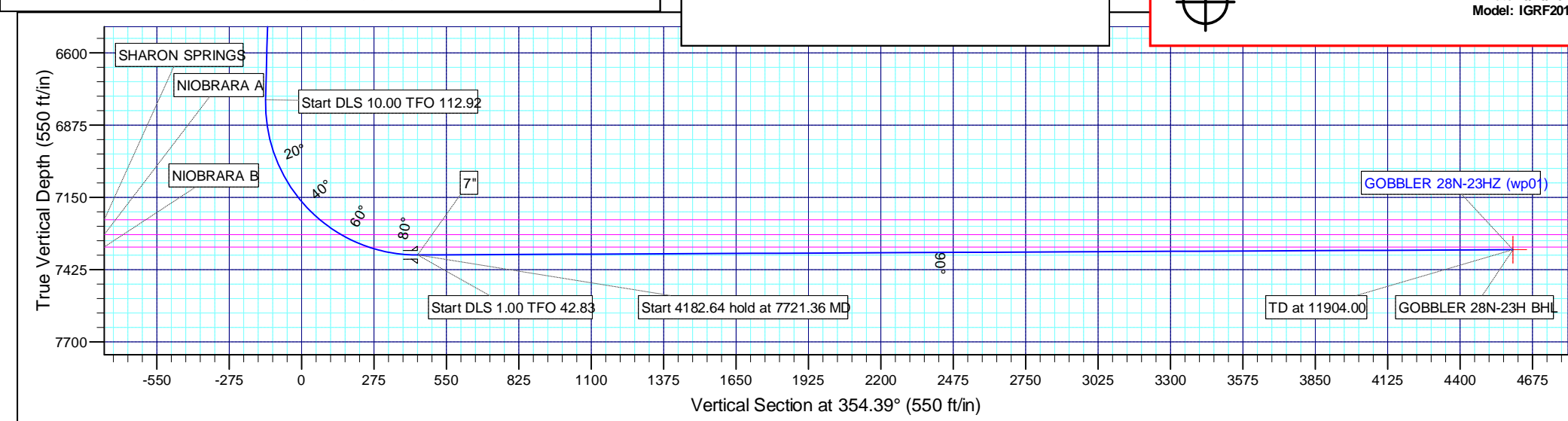
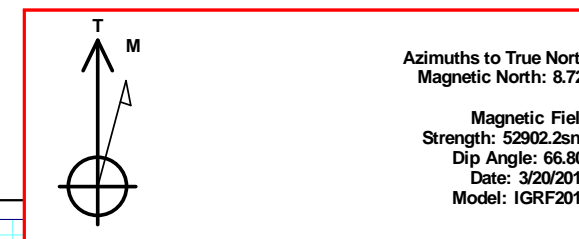
WELL DETAILS: GOBBLER 28N-23HZ						
		Ground Level:	5102.00			
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1286423.72	3211848.69	40.117142	-104.742502	

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape
GOBBLER 28N-23H BHL	7349.00	4578.65	-449.91	40.129711	-104.744111	Point

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	
3	1549.20	4.98	247.32	1548.88	-4.18	-9.99	2.00	247.32	-3.18	
4	6798.66	4.98	247.32	6778.50	-180.00	-430.79	0.00	0.00	-137.01	
5	7720.82	90.27	0.34	7369.00	395.59	-475.00	10.00	112.92	440.15	
6	7721.36	90.27	0.34	7369.00	396.13	-475.00	1.00	42.83	440.68	
7	11904.00	90.27	0.34	7349.00	4578.65	-449.91	0.00	0.00	4600.70	GOBBLER 28N-23H BHL

CASING DETAILS				
	TVD	MD	Name	Size
	1000.00	1000.00	9 5/8"	9-5/8
	7369.00	7720.82	7"	7

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4244.00	4254.54	PARKMAN
4647.00	4659.07	SUSSEX
7235.00	7317.51	SHARON SPRINGS
7292.00	7417.13	NIOBRARA A
7339.00	7531.56	NIOBRARA B



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 28N-23HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + GL @ 5119.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + GL @ 5119.00ft
Site:	WELD_GOBBLER 15-23HZ	North Reference:	True
Well:	GOBBLER 28N-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 28N-23HZ		
Design:	GOBBLER 28N-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 15-23HZ			
Site Position:		Northing:	1,286,423.73 usft	Latitude:	40.117142
From:	Lat/Long	Easting:	3,211,848.69 usft	Longitude:	-104.742502
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well		GOBBLER 28N-23HZ				
Well Position	+N/-S	-0.01 ft	Northing:	1,286,423.72 usft	Latitude:	40.117142
	+E/-W	0.00 ft	Easting:	3,211,848.69 usft	Longitude:	-104.742502
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,102.00 ft

Wellbore	GOBBLER 28N-23HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/20/2012	8.72	66.80	52,902

Design	GOBBLER 28N-23HZ (wp01)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	354.39

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	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,549.20	4.98	247.32	1,548.88	-4.18	-9.99	2.00	2.00	0.00	247.32	
6,798.66	4.98	247.32	6,778.50	-180.00	-430.79	0.00	0.00	0.00	0.00	
7,720.82	90.27	0.34	7,369.00	395.59	-475.00	10.00	9.25	12.26	112.92	
7,721.36	90.27	0.34	7,369.00	396.13	-475.00	1.00	0.73	0.68	42.83	
11,904.00	90.27	0.34	7,349.00	4,578.65	-449.91	0.00	0.00	0.00	0.00	GOBBLER 28N-23H I

Anadarko Petroleum Corp

Planning Report

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + GL @ 5119.00ft
Site:	WELD_GOBBLER 15-23HZ	North Reference:	True
Well:	GOBBLER 28N-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 28N-23HZ		
Design:	GOBBLER 28N-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
1,200.00	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
Start Build 2.00									
1,400.00	2.00	247.32	1,399.98	-0.67	-1.61	-0.51	2.00	2.00	0.00
1,500.00	4.00	247.32	1,499.84	-2.69	-6.44	-2.05	2.00	2.00	0.00
1,549.20	4.98	247.32	1,548.88	-4.18	-9.99	-3.18	2.00	2.00	0.00
Start 5249.47 hold at 1549.20 MD									
1,600.00	4.98	247.32	1,599.49	-5.88	-14.07	-4.47	0.00	0.00	0.00
1,700.00	4.98	247.32	1,699.12	-9.23	-22.08	-7.02	0.00	0.00	0.00
1,800.00	4.98	247.32	1,798.74	-12.58	-30.10	-9.57	0.00	0.00	0.00
1,900.00	4.98	247.32	1,898.36	-15.93	-38.11	-12.12	0.00	0.00	0.00
2,000.00	4.98	247.32	1,997.98	-19.28	-46.13	-14.67	0.00	0.00	0.00
2,100.00	4.98	247.32	2,097.60	-22.62	-54.15	-17.22	0.00	0.00	0.00
2,200.00	4.98	247.32	2,197.23	-25.97	-62.16	-19.77	0.00	0.00	0.00
2,300.00	4.98	247.32	2,296.85	-29.32	-70.18	-22.32	0.00	0.00	0.00
2,400.00	4.98	247.32	2,396.47	-32.67	-78.19	-24.87	0.00	0.00	0.00
2,500.00	4.98	247.32	2,496.09	-36.02	-86.21	-27.42	0.00	0.00	0.00
2,600.00	4.98	247.32	2,595.71	-39.37	-94.23	-29.97	0.00	0.00	0.00
2,700.00	4.98	247.32	2,695.33	-42.72	-102.24	-32.52	0.00	0.00	0.00
2,800.00	4.98	247.32	2,794.96	-46.07	-110.26	-35.07	0.00	0.00	0.00
2,900.00	4.98	247.32	2,894.58	-49.42	-118.28	-37.62	0.00	0.00	0.00
3,000.00	4.98	247.32	2,994.20	-52.77	-126.29	-40.17	0.00	0.00	0.00
3,100.00	4.98	247.32	3,093.82	-56.12	-134.31	-42.72	0.00	0.00	0.00
3,200.00	4.98	247.32	3,193.44	-59.47	-142.32	-45.26	0.00	0.00	0.00
3,300.00	4.98	247.32	3,293.07	-62.82	-150.34	-47.81	0.00	0.00	0.00
3,400.00	4.98	247.32	3,392.69	-66.17	-158.36	-50.36	0.00	0.00	0.00
3,500.00	4.98	247.32	3,492.31	-69.52	-166.37	-52.91	0.00	0.00	0.00
3,600.00	4.98	247.32	3,591.93	-72.87	-174.39	-55.46	0.00	0.00	0.00
3,700.00	4.98	247.32	3,691.55	-76.22	-182.40	-58.01	0.00	0.00	0.00
3,800.00	4.98	247.32	3,791.18	-79.56	-190.42	-60.56	0.00	0.00	0.00
3,900.00	4.98	247.32	3,890.80	-82.91	-198.44	-63.11	0.00	0.00	0.00
4,000.00	4.98	247.32	3,990.42	-86.26	-206.45	-65.66	0.00	0.00	0.00
4,100.00	4.98	247.32	4,090.04	-89.61	-214.47	-68.21	0.00	0.00	0.00
4,200.00	4.98	247.32	4,189.66	-92.96	-222.48	-70.76	0.00	0.00	0.00
4,254.54	4.98	247.32	4,244.00	-94.79	-226.86	-72.15	0.00	0.00	0.00
PARKMAN									
4,300.00	4.98	247.32	4,289.29	-96.31	-230.50	-73.31	0.00	0.00	0.00
4,400.00	4.98	247.32	4,388.91	-99.66	-238.52	-75.86	0.00	0.00	0.00
4,500.00	4.98	247.32	4,488.53	-103.01	-246.53	-78.41	0.00	0.00	0.00
4,600.00	4.98	247.32	4,588.15	-106.36	-254.55	-80.96	0.00	0.00	0.00
4,659.07	4.98	247.32	4,647.00	-108.34	-259.28	-82.46	0.00	0.00	0.00

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Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + GL @ 5119.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + GL @ 5119.00ft
Site:	WELD_GOBBLER 15-23HZ	North Reference:	True
Well:	GOBBLER 28N-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 28N-23HZ		
Design:	GOBBLER 28N-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)
SUSSEX									
4,700.00	4.98	247.32	4,687.77	-109.71	-262.56	-83.51	0.00	0.00	0.00
4,800.00	4.98	247.32	4,787.39	-113.06	-270.58	-86.06	0.00	0.00	0.00
4,900.00	4.98	247.32	4,887.02	-116.41	-278.60	-88.61	0.00	0.00	0.00
5,000.00	4.98	247.32	4,986.64	-119.76	-286.61	-91.16	0.00	0.00	0.00
5,100.00	4.98	247.32	5,086.26	-123.11	-294.63	-93.70	0.00	0.00	0.00
5,200.00	4.98	247.32	5,185.88	-126.46	-302.64	-96.25	0.00	0.00	0.00
5,300.00	4.98	247.32	5,285.50	-129.81	-310.66	-98.80	0.00	0.00	0.00
5,400.00	4.98	247.32	5,385.13	-133.16	-318.68	-101.35	0.00	0.00	0.00
5,500.00	4.98	247.32	5,484.75	-136.50	-326.69	-103.90	0.00	0.00	0.00
5,600.00	4.98	247.32	5,584.37	-139.85	-334.71	-106.45	0.00	0.00	0.00
5,700.00	4.98	247.32	5,683.99	-143.20	-342.72	-109.00	0.00	0.00	0.00
5,800.00	4.98	247.32	5,783.61	-146.55	-350.74	-111.55	0.00	0.00	0.00
5,900.00	4.98	247.32	5,883.24	-149.90	-358.76	-114.10	0.00	0.00	0.00
6,000.00	4.98	247.32	5,982.86	-153.25	-366.77	-116.65	0.00	0.00	0.00
6,100.00	4.98	247.32	6,082.48	-156.60	-374.79	-119.20	0.00	0.00	0.00
6,200.00	4.98	247.32	6,182.10	-159.95	-382.80	-121.75	0.00	0.00	0.00
6,300.00	4.98	247.32	6,281.72	-163.30	-390.82	-124.30	0.00	0.00	0.00
6,400.00	4.98	247.32	6,381.35	-166.65	-398.84	-126.85	0.00	0.00	0.00
6,500.00	4.98	247.32	6,480.97	-170.00	-406.85	-129.40	0.00	0.00	0.00
6,600.00	4.98	247.32	6,580.59	-173.35	-414.87	-131.95	0.00	0.00	0.00
6,700.00	4.98	247.32	6,680.21	-176.70	-422.89	-134.50	0.00	0.00	0.00
6,798.66	4.98	247.32	6,778.50	-180.00	-430.79	-137.01	0.00	0.00	0.00
Start DLS 10.00 TFO 112.92									
6,800.00	4.93	248.75	6,779.83	-180.05	-430.90	-137.04	10.00	-3.78	107.11
6,900.00	9.38	331.24	6,879.23	-174.45	-438.85	-130.69	10.00	4.45	82.49
7,000.00	18.74	346.63	6,976.16	-151.62	-446.50	-107.22	10.00	9.36	15.39
7,100.00	28.53	351.83	7,067.67	-112.25	-453.63	-67.35	10.00	9.79	5.20
7,200.00	38.42	354.51	7,150.98	-57.54	-460.02	-12.28	10.00	9.89	2.68
7,300.00	48.35	356.22	7,223.57	10.84	-465.46	56.31	10.00	9.93	1.71
7,317.51	50.09	356.47	7,235.00	24.07	-466.31	69.56	10.00	9.94	1.40
SHARON SPRINGS									
7,400.00	58.30	357.48	7,283.22	90.83	-469.81	136.33	10.00	9.95	1.22
7,417.13	60.01	357.66	7,292.00	105.52	-470.43	151.02	10.00	9.96	1.09
NIORARA A									
7,500.00	68.26	358.48	7,328.12	179.98	-472.92	225.37	10.00	9.96	0.99
7,531.56	71.41	358.77	7,339.00	209.60	-473.63	254.91	10.00	9.96	0.91
NIORARA B									
7,600.00	78.23	359.36	7,356.91	275.60	-474.70	320.70	10.00	9.97	0.86
7,700.00	88.19	0.17	7,368.72	374.77	-475.09	419.43	10.00	9.97	0.81
7,720.82	90.27	0.34	7,369.00	395.59	-475.00	440.14	10.00	9.97	0.80
Start DLS 1.00 TFO 42.83 - 7"									
7,721.36	90.27	0.34	7,369.00	396.13	-475.00	440.68	1.04	0.79	0.68
Start 4182.64 hold at 7721.36 MD									
7,800.00	90.27	0.34	7,368.62	474.76	-474.53	518.89	0.00	0.00	0.00
7,900.00	90.27	0.34	7,368.14	574.76	-473.93	618.35	0.00	0.00	0.00
8,000.00	90.27	0.34	7,367.67	674.76	-473.33	717.81	0.00	0.00	0.00
8,100.00	90.27	0.34	7,367.19	774.76	-472.73	817.27	0.00	0.00	0.00
8,200.00	90.27	0.34	7,366.71	874.75	-472.13	916.73	0.00	0.00	0.00
8,300.00	90.27	0.34	7,366.23	974.75	-471.53	1,016.19	0.00	0.00	0.00
8,400.00	90.27	0.34	7,365.75	1,074.75	-470.93	1,115.65	0.00	0.00	0.00
8,500.00	90.27	0.34	7,365.27	1,174.74	-470.33	1,215.11	0.00	0.00	0.00
8,600.00	90.27	0.34	7,364.80	1,274.74	-469.73	1,314.57	0.00	0.00	0.00

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + GL @ 5119.00ft
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Wellbore:	GOBBLER 28N-23HZ		
Design:	GOBBLER 28N-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)
8,700.00	90.27	0.34	7,364.32	1,374.74	-469.13	1,414.03	0.00	0.00	0.00
8,800.00	90.27	0.34	7,363.84	1,474.73	-468.53	1,513.48	0.00	0.00	0.00
8,900.00	90.27	0.34	7,363.36	1,574.73	-467.93	1,612.94	0.00	0.00	0.00
9,000.00	90.27	0.34	7,362.88	1,674.73	-467.33	1,712.40	0.00	0.00	0.00
9,100.00	90.27	0.34	7,362.41	1,774.73	-466.73	1,811.86	0.00	0.00	0.00
9,200.00	90.27	0.34	7,361.93	1,874.72	-466.13	1,911.32	0.00	0.00	0.00
9,300.00	90.27	0.34	7,361.45	1,974.72	-465.53	2,010.78	0.00	0.00	0.00
9,400.00	90.27	0.34	7,360.97	2,074.72	-464.93	2,110.24	0.00	0.00	0.00
9,500.00	90.27	0.34	7,360.49	2,174.71	-464.33	2,209.70	0.00	0.00	0.00
9,600.00	90.27	0.34	7,360.02	2,274.71	-463.73	2,309.16	0.00	0.00	0.00
9,700.00	90.27	0.34	7,359.54	2,374.71	-463.13	2,408.62	0.00	0.00	0.00
9,800.00	90.27	0.34	7,359.06	2,474.71	-462.53	2,508.08	0.00	0.00	0.00
9,900.00	90.27	0.34	7,358.58	2,574.70	-461.93	2,607.53	0.00	0.00	0.00
10,000.00	90.27	0.34	7,358.10	2,674.70	-461.33	2,706.99	0.00	0.00	0.00
10,100.00	90.27	0.34	7,357.63	2,774.70	-460.73	2,806.45	0.00	0.00	0.00
10,200.00	90.27	0.34	7,357.15	2,874.69	-460.13	2,905.91	0.00	0.00	0.00
10,300.00	90.27	0.34	7,356.67	2,974.69	-459.53	3,005.37	0.00	0.00	0.00
10,400.00	90.27	0.34	7,356.19	3,074.69	-458.93	3,104.83	0.00	0.00	0.00
10,500.00	90.27	0.34	7,355.71	3,174.68	-458.33	3,204.29	0.00	0.00	0.00
10,600.00	90.27	0.34	7,355.23	3,274.68	-457.73	3,303.75	0.00	0.00	0.00
10,700.00	90.27	0.34	7,354.76	3,374.68	-457.13	3,403.21	0.00	0.00	0.00
10,800.00	90.27	0.34	7,354.28	3,474.68	-456.53	3,502.67	0.00	0.00	0.00
10,900.00	90.27	0.34	7,353.80	3,574.67	-455.93	3,602.13	0.00	0.00	0.00
11,000.00	90.27	0.34	7,353.32	3,674.67	-455.33	3,701.58	0.00	0.00	0.00
11,100.00	90.27	0.34	7,352.84	3,774.67	-454.73	3,801.04	0.00	0.00	0.00
11,200.00	90.27	0.34	7,352.37	3,874.66	-454.13	3,900.50	0.00	0.00	0.00
11,300.00	90.27	0.34	7,351.89	3,974.66	-453.53	3,999.96	0.00	0.00	0.00
11,400.00	90.27	0.34	7,351.41	4,074.66	-452.93	4,099.42	0.00	0.00	0.00
11,500.00	90.27	0.34	7,350.93	4,174.66	-452.33	4,198.88	0.00	0.00	0.00
11,600.00	90.27	0.34	7,350.45	4,274.65	-451.73	4,298.34	0.00	0.00	0.00
11,700.00	90.27	0.34	7,349.98	4,374.65	-451.13	4,397.80	0.00	0.00	0.00
11,800.00	90.27	0.34	7,349.50	4,474.65	-450.53	4,497.26	0.00	0.00	0.00
11,900.00	90.27	0.34	7,349.02	4,574.64	-449.93	4,596.72	0.00	0.00	0.00
11,904.00	90.27	0.34	7,349.00	4,578.64	-449.91	4,600.69	0.00	0.00	0.00
TD at 11904.00 - GOBBLER 28N-23H BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
GOBBLER 28N-23H BH	0.00	0.00	7,349.00	4,578.65	-449.91	1,290,998.35	3,211,359.68	40.129711	-104.744111
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
1,000.00	1,000.00	9 5/8"	9-5/8	12-1/4	
7,720.82	7,369.00	7"	7	8-3/4	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 28N-23HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + GL @ 5119.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + GL @ 5119.00ft
Site:	WELD_GOBBLER 15-23HZ	North Reference:	True
Well:	GOBBLER 28N-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	GOBBLER 28N-23HZ		
Design:	GOBBLER 28N-23HZ (wp01)		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,254.54	4,244.00	PARKMAN		0.00	
4,659.07	4,647.00	SUSSEX		0.00	
7,317.51	7,235.00	SHARON SPRINGS		0.00	
7,417.13	7,292.00	NIOBRARA A		0.00	
7,531.56	7,339.00	NIOBRARA B		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,300.00	1,300.00	0.00	0.00	Start Build 2.00
1,549.20	1,548.88	-4.18	-9.99	Start 5249.47 hold at 1549.20 MD
6,798.66	6,778.50	-180.00	-430.79	Start DLS 10.00 TFO 112.92
7,720.82	7,369.00	395.59	-475.00	Start DLS 1.00 TFO 42.83
7,721.36	7,369.00	396.13	-475.00	Start 4182.64 hold at 7721.36 MD
11,904.00	7,349.00	4,578.64	-449.91	TD at 11904.00