



Weatherford®

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_GOBBLER 15-23HZ PAD

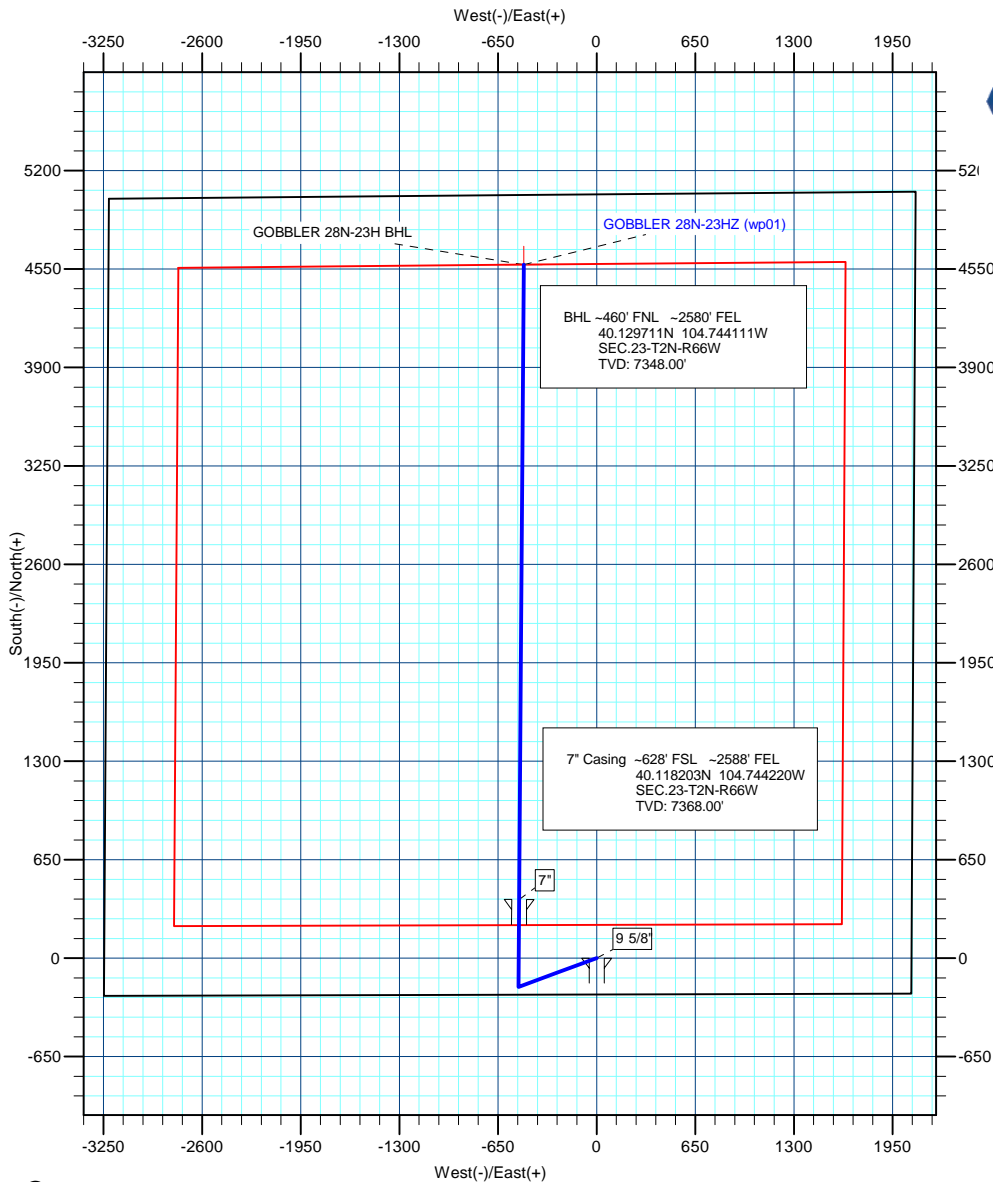
GOBBLER 28N-23HZ

Wellbore #1

Plan: GOBBLER 28N-23HZ (wp01)

Standard Planning Report

26 February, 2013



Weatherford®

Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_GOBBLER 15-23HZ PAD
 Well: GOBBLER 28N-23HZ
 Wellbore: Wellbore #1
 Section: Sec.23-T2N-R66W
 SHL: 240' FSL 2074' FEL
 Design: GOBBLER 28N-23HZ (wp01)
 Latitude: 40.117143
 Longitude: -104.742394
 GL: 5101.00
 KB: 17' RKB + GL @ 5118.00ft



Azimuths to True North
 Magnetic North: 8.72°
 Magnetic Field
 Strength: 52902.2snT
 Dip Angle: 66.80°
 Date: 3/20/2012
 Model: IGRF2010

WELL DETAILS: GOBBLER 28N-23HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	5101.00 Latitude	Longitude	Slot
0.00	0.00	1286424.33	3211878.89	40.117143	-104.742394	

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
1600.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	Start DLS 2.00 TFO 249.80
2165.59	2169.34	11.39	249.80	-19.47	-52.92	-13.85	56.39	Start 2207.86 hold at 2169.34 MD
4330.00	4377.20	11.39	249.80	-170.00	-462.00	-120.89	492.28	Start Drop -2.00
4895.59	4946.53	0.00	0.00	-189.47	-514.92	-134.74	548.67	Start 1899.45 hold at 4946.53 MD
6795.04	6845.98	0.00	0.00	-189.47	-514.92	-134.74	548.67	Start Build 10.00
7368.00	7748.72	90.27	0.42	386.20	-510.72	437.36	1124.36	Start 4192.24 hold at 7748.72 MD
7348.00	11940.96	90.27	0.42	4578.29	-480.11	4603.39	5316.56	TD at 11940.96

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

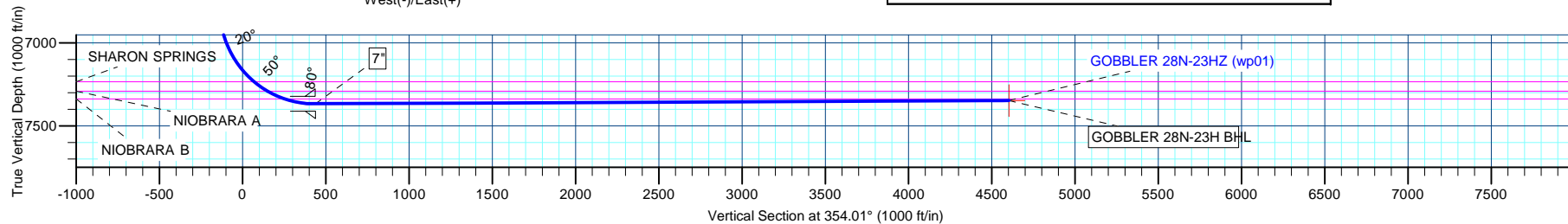
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
GOBBLER 28N-23H BHL	7348.00	4578.29	-480.11	40.129711	-104.744111	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4243.00	4288.45	PARKMAN
4646.00	4696.62	SUSSEX
7234.00	7346.05	SHARON SPRINGS
7291.00	7445.50	NIOBRARA A
7338.00	7559.74	NIOBRARA B

CASING DETAILS

TVD	MD	Name	Size
1017.00	1017.00	9 5/8"	9-5/8
7368.00	7748.72	7"	7



Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 28N-23HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + GL @ 5118.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + GL @ 5118.00ft
Site:	WELD_GOBBLER 15-23HZ PAD	North Reference:	True
Well:	GOBBLER 28N-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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 PAD, Sec.23-T2N-R66W			
Site Position:		Northing:	1,286,424.35 usft	Latitude:	40.117143
From:	Lat/Long	Easting:	3,211,878.89 usft	Longitude:	-104.742394
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	GOBBLER 28N-23HZ					
Well Position	+N/-S	-0.02 ft	Northing:	1,286,424.33 usft	Latitude:	40.117143
	+E/-W	0.00 ft	Easting:	3,211,878.89 usft	Longitude:	-104.742394
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,101.00 ft

Wellbore	Wellbore #1				
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	354.01	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	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	
2,169.34	11.39	249.80	2,165.59	-19.47	-52.92	2.00	2.00	-19.36	249.80	
4,377.20	11.39	249.80	4,330.00	-170.00	-462.00	0.00	0.00	0.00	0.00	
4,946.53	0.00	0.00	4,895.59	-189.47	-514.92	2.00	-2.00	0.00	180.00	
6,845.98	0.00	0.00	6,795.04	-189.47	-514.92	0.00	0.00	0.00	0.00	
7,748.72	90.27	0.42	7,368.00	386.20	-510.72	10.00	10.00	0.00	0.42	
11,940.96	90.27	0.42	7,348.00	4,578.29	-480.11	0.00	0.00	0.00	0.00	GOBBLER 28N-23H I

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 28N-23HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + GL @ 5118.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + GL @ 5118.00ft
Site:	WELD_GOBBLER 15-23HZ PAD	North Reference:	True
Well:	GOBBLER 28N-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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
1,017.00	0.00	0.00	1,017.00	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
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
Start DLS 2.00 TFO 249.80									
1,700.00	2.00	249.80	1,699.98	-0.60	-1.64	-0.43	2.00	2.00	0.00
1,800.00	4.00	249.80	1,799.84	-2.41	-6.55	-1.71	2.00	2.00	0.00
1,900.00	6.00	249.80	1,899.45	-5.42	-14.73	-3.85	2.00	2.00	0.00
2,000.00	8.00	249.80	1,998.70	-9.63	-26.16	-6.85	2.00	2.00	0.00
2,100.00	10.00	249.80	2,097.47	-15.03	-40.85	-10.69	2.00	2.00	0.00
2,169.34	11.39	249.80	2,165.59	-19.47	-52.92	-13.85	2.00	2.00	0.00
Start 2207.86 hold at 2169.34 MD									
2,200.00	11.39	249.80	2,195.66	-21.56	-58.60	-15.33	0.00	0.00	0.00
2,300.00	11.39	249.80	2,293.69	-28.38	-77.13	-20.18	0.00	0.00	0.00
2,400.00	11.39	249.80	2,391.72	-35.20	-95.66	-25.03	0.00	0.00	0.00
2,500.00	11.39	249.80	2,489.75	-42.02	-114.19	-29.88	0.00	0.00	0.00
2,600.00	11.39	249.80	2,587.78	-48.83	-132.71	-34.73	0.00	0.00	0.00
2,700.00	11.39	249.80	2,685.81	-55.65	-151.24	-39.58	0.00	0.00	0.00
2,800.00	11.39	249.80	2,783.85	-62.47	-169.77	-44.42	0.00	0.00	0.00
2,900.00	11.39	249.80	2,881.88	-69.29	-188.30	-49.27	0.00	0.00	0.00
3,000.00	11.39	249.80	2,979.91	-76.11	-206.83	-54.12	0.00	0.00	0.00
3,100.00	11.39	249.80	3,077.94	-82.92	-225.36	-58.97	0.00	0.00	0.00
3,200.00	11.39	249.80	3,175.97	-89.74	-243.88	-63.82	0.00	0.00	0.00
3,300.00	11.39	249.80	3,274.00	-96.56	-262.41	-68.67	0.00	0.00	0.00
3,400.00	11.39	249.80	3,372.04	-103.38	-280.94	-73.51	0.00	0.00	0.00
3,500.00	11.39	249.80	3,470.07	-110.19	-299.47	-78.36	0.00	0.00	0.00
3,600.00	11.39	249.80	3,568.10	-117.01	-318.00	-83.21	0.00	0.00	0.00
3,700.00	11.39	249.80	3,666.13	-123.83	-336.53	-88.06	0.00	0.00	0.00
3,800.00	11.39	249.80	3,764.16	-130.65	-355.05	-92.91	0.00	0.00	0.00
3,900.00	11.39	249.80	3,862.20	-137.47	-373.58	-97.76	0.00	0.00	0.00
4,000.00	11.39	249.80	3,960.23	-144.28	-392.11	-102.60	0.00	0.00	0.00
4,100.00	11.39	249.80	4,058.26	-151.10	-410.64	-107.45	0.00	0.00	0.00
4,200.00	11.39	249.80	4,156.29	-157.92	-429.17	-112.30	0.00	0.00	0.00
4,288.45	11.39	249.80	4,243.00	-163.95	-445.56	-116.59	0.00	0.00	0.00
PARKMAN									
4,300.00	11.39	249.80	4,254.32	-164.74	-447.70	-117.15	0.00	0.00	0.00
4,377.20	11.39	249.80	4,330.00	-170.00	-462.00	-120.89	0.00	0.00	0.00
Start Drop -2.00									
4,400.00	10.93	249.80	4,352.37	-171.52	-466.14	-121.98	2.00	-2.00	0.00

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + GL @ 5118.00ft
Site:	WELD_GOBBLER 15-23HZ PAD	North Reference:	True
Well:	GOBBLER 28N-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
4,500.00	8.93	249.80	4,450.87	-177.48	-482.33	-126.21	2.00	-2.00	0.00
4,600.00	6.93	249.80	4,549.91	-182.24	-495.27	-129.60	2.00	-2.00	0.00
4,696.62	5.00	249.80	4,646.00	-185.71	-504.70	-132.06	2.00	-2.00	0.00
SUSSEX									
4,700.00	4.93	249.80	4,649.37	-185.81	-504.97	-132.14	2.00	-2.00	0.00
4,800.00	2.93	249.80	4,749.13	-188.18	-511.40	-133.82	2.00	-2.00	0.00
4,900.00	0.93	249.80	4,849.06	-189.34	-514.56	-134.65	2.00	-2.00	0.00
4,946.53	0.00	0.00	4,895.59	-189.47	-514.92	-134.74	2.00	-2.00	0.00
Start 1899.45 hold at 4946.53 MD									
5,000.00	0.00	0.00	4,949.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
5,100.00	0.00	0.00	5,049.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
5,200.00	0.00	0.00	5,149.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
5,300.00	0.00	0.00	5,249.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
5,400.00	0.00	0.00	5,349.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
5,500.00	0.00	0.00	5,449.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
5,600.00	0.00	0.00	5,549.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
5,700.00	0.00	0.00	5,649.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
5,800.00	0.00	0.00	5,749.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
5,900.00	0.00	0.00	5,849.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
6,000.00	0.00	0.00	5,949.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
6,100.00	0.00	0.00	6,049.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
6,200.00	0.00	0.00	6,149.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
6,300.00	0.00	0.00	6,249.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
6,400.00	0.00	0.00	6,349.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
6,500.00	0.00	0.00	6,449.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
6,600.00	0.00	0.00	6,549.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
6,700.00	0.00	0.00	6,649.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
6,800.00	0.00	0.00	6,749.06	-189.47	-514.92	-134.74	0.00	0.00	0.00
6,845.98	0.00	0.00	6,795.04	-189.47	-514.92	-134.74	0.00	0.00	0.00
Start Build 10.00									
6,850.00	0.40	0.42	6,799.06	-189.46	-514.92	-134.73	10.00	10.00	0.00
6,900.00	5.40	0.42	6,848.98	-186.93	-514.90	-132.21	10.00	10.00	0.00
6,950.00	10.40	0.42	6,898.49	-180.06	-514.85	-125.38	10.00	10.00	0.00
7,000.00	15.40	0.42	6,947.21	-168.90	-514.77	-114.29	10.00	10.00	0.00
7,050.00	20.40	0.42	6,994.78	-153.53	-514.66	-99.02	10.00	10.00	0.00
7,100.00	25.40	0.42	7,040.82	-134.08	-514.51	-79.69	10.00	10.00	0.00
7,150.00	30.40	0.42	7,085.00	-110.69	-514.34	-56.45	10.00	10.00	0.00
7,200.00	35.40	0.42	7,126.96	-83.54	-514.15	-29.47	10.00	10.00	0.00
7,250.00	40.40	0.42	7,166.40	-52.84	-513.92	1.05	10.00	10.00	0.00
7,300.00	45.40	0.42	7,203.02	-18.81	-513.67	34.86	10.00	10.00	0.00
7,346.05	50.01	0.42	7,234.00	15.24	-513.42	68.70	10.00	10.00	0.00
SHARON SPRINGS									
7,350.00	50.40	0.42	7,236.53	18.28	-513.40	71.72	10.00	10.00	0.00
7,400.00	55.40	0.42	7,266.68	58.14	-513.11	111.34	10.00	10.00	0.00
7,445.50	59.95	0.42	7,291.00	96.58	-512.83	149.54	10.00	10.00	0.00
NIOBRARA A									
7,450.00	60.40	0.42	7,293.24	100.48	-512.80	153.41	10.00	10.00	0.00
7,500.00	65.40	0.42	7,316.01	144.98	-512.48	197.63	10.00	10.00	0.00
7,550.00	70.40	0.42	7,334.81	191.29	-512.14	243.66	10.00	10.00	0.00
7,559.74	71.38	0.42	7,338.00	200.50	-512.07	252.81	10.00	10.00	0.00
NIOBRARA B									
7,600.00	75.40	0.42	7,349.51	239.07	-511.79	291.13	10.00	10.00	0.00
7,650.00	80.40	0.42	7,359.98	287.94	-511.43	339.70	10.00	10.00	0.00

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + GL @ 5118.00ft
Site:	WELD_GOBBLER 15-23HZ PAD	North Reference:	True
Well:	GOBBLER 28N-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
7,700.00	85.40	0.42	7,366.16	337.54	-511.07	388.99	10.00	10.00	0.00
7,748.72	90.27	0.42	7,368.00	386.21	-510.72	437.36	10.00	10.00	0.00
Start 4192.24 hold at 7748.72 MD - 7"									
7,800.00	90.27	0.42	7,367.75	437.49	-510.34	488.32	0.00	0.00	0.00
7,900.00	90.27	0.42	7,367.28	537.48	-509.61	587.70	0.00	0.00	0.00
8,000.00	90.27	0.42	7,366.80	637.48	-508.88	687.07	0.00	0.00	0.00
8,100.00	90.27	0.42	7,366.32	737.47	-508.15	786.45	0.00	0.00	0.00
8,200.00	90.27	0.42	7,365.84	837.47	-507.42	885.82	0.00	0.00	0.00
8,300.00	90.27	0.42	7,365.37	937.47	-506.69	985.20	0.00	0.00	0.00
8,400.00	90.27	0.42	7,364.89	1,037.46	-505.96	1,084.57	0.00	0.00	0.00
8,500.00	90.27	0.42	7,364.41	1,137.46	-505.23	1,183.94	0.00	0.00	0.00
8,600.00	90.27	0.42	7,363.94	1,237.45	-504.50	1,283.32	0.00	0.00	0.00
8,700.00	90.27	0.42	7,363.46	1,337.45	-503.77	1,382.69	0.00	0.00	0.00
8,800.00	90.27	0.42	7,362.98	1,437.45	-503.04	1,482.07	0.00	0.00	0.00
8,900.00	90.27	0.42	7,362.51	1,537.44	-502.31	1,581.44	0.00	0.00	0.00
9,000.00	90.27	0.42	7,362.03	1,637.44	-501.58	1,680.82	0.00	0.00	0.00
9,100.00	90.27	0.42	7,361.55	1,737.44	-500.85	1,780.19	0.00	0.00	0.00
9,200.00	90.27	0.42	7,361.07	1,837.43	-500.12	1,879.57	0.00	0.00	0.00
9,300.00	90.27	0.42	7,360.60	1,937.43	-499.39	1,978.94	0.00	0.00	0.00
9,400.00	90.27	0.42	7,360.12	2,037.42	-498.66	2,078.32	0.00	0.00	0.00
9,500.00	90.27	0.42	7,359.64	2,137.42	-497.93	2,177.69	0.00	0.00	0.00
9,600.00	90.27	0.42	7,359.17	2,237.42	-497.20	2,277.07	0.00	0.00	0.00
9,700.00	90.27	0.42	7,358.69	2,337.41	-496.47	2,376.44	0.00	0.00	0.00
9,800.00	90.27	0.42	7,358.21	2,437.41	-495.74	2,475.82	0.00	0.00	0.00
9,900.00	90.27	0.42	7,357.74	2,537.41	-495.01	2,575.19	0.00	0.00	0.00
10,000.00	90.27	0.42	7,357.26	2,637.40	-494.28	2,674.57	0.00	0.00	0.00
10,100.00	90.27	0.42	7,356.78	2,737.40	-493.55	2,773.94	0.00	0.00	0.00
10,200.00	90.27	0.42	7,356.30	2,837.39	-492.82	2,873.32	0.00	0.00	0.00
10,300.00	90.27	0.42	7,355.83	2,937.39	-492.09	2,972.69	0.00	0.00	0.00
10,400.00	90.27	0.42	7,355.35	3,037.39	-491.36	3,072.07	0.00	0.00	0.00
10,500.00	90.27	0.42	7,354.87	3,137.38	-490.63	3,171.44	0.00	0.00	0.00
10,600.00	90.27	0.42	7,354.40	3,237.38	-489.90	3,270.82	0.00	0.00	0.00
10,700.00	90.27	0.42	7,353.92	3,337.37	-489.17	3,370.19	0.00	0.00	0.00
10,800.00	90.27	0.42	7,353.44	3,437.37	-488.44	3,469.57	0.00	0.00	0.00
10,900.00	90.27	0.42	7,352.97	3,537.37	-487.71	3,568.94	0.00	0.00	0.00
11,000.00	90.27	0.42	7,352.49	3,637.36	-486.98	3,668.32	0.00	0.00	0.00
11,100.00	90.27	0.42	7,352.01	3,737.36	-486.25	3,767.69	0.00	0.00	0.00
11,200.00	90.27	0.42	7,351.53	3,837.36	-485.52	3,867.06	0.00	0.00	0.00
11,300.00	90.27	0.42	7,351.06	3,937.35	-484.79	3,966.44	0.00	0.00	0.00
11,400.00	90.27	0.42	7,350.58	4,037.35	-484.06	4,065.81	0.00	0.00	0.00
11,500.00	90.27	0.42	7,350.10	4,137.34	-483.33	4,165.19	0.00	0.00	0.00
11,600.00	90.27	0.42	7,349.63	4,237.34	-482.60	4,264.56	0.00	0.00	0.00
11,700.00	90.27	0.42	7,349.15	4,337.34	-481.87	4,363.94	0.00	0.00	0.00
11,800.00	90.27	0.42	7,348.67	4,437.33	-481.14	4,463.31	0.00	0.00	0.00
11,900.00	90.27	0.42	7,348.20	4,537.33	-480.41	4,562.69	0.00	0.00	0.00
11,940.96	90.27	0.42	7,348.00	4,578.29	-480.11	4,603.39	0.00	0.00	0.00
TD at 11940.96 - GOBBLER 28N-23H BHL									

Database:	edmp	Local Co-ordinate Reference:	Well GOBBLER 28N-23HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + GL @ 5118.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + GL @ 5118.00ft
Site:	WELD_GOBBLER 15-23HZ PAD	North Reference:	True
Well:	GOBBLER 28N-23HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	GOBBLER 28N-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 28N-23H BH	0.00	0.00	7,348.00	4,578.29	-480.11	1,290,998.35	3,211,359.68	40.129711	-104.744111
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(")	(")
1,017.00	1,017.00	9 5/8"		9-5/8	12-1/4
7,748.72	7,368.00	7"		7	8-3/4

Formations					
Measured Depth	Vertical Depth	Name		Dip	Dip Direction
(ft)	(ft)			(°)	(°)
4,288.45	4,243.00	PARKMAN		0.00	
4,696.62	4,646.00	SUSSEX		0.00	
7,346.05	7,234.00	SHARON SPRINGS		0.00	
7,445.50	7,291.00	NIOBRARA A		0.00	
7,559.74	7,338.00	NIOBRARA B		0.00	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
1,600.00	1,600.00	0.00	0.00	Start DLS 2.00 TFO 249.80
2,169.34	2,165.59	-19.47	-52.92	Start 2207.86 hold at 2169.34 MD
4,377.20	4,330.00	-170.00	-462.00	Start Drop -2.00
4,946.53	4,895.59	-189.47	-514.92	Start 1899.45 hold at 4946.53 MD
6,845.98	6,795.04	-189.47	-514.92	Start Build 10.00
7,748.72	7,368.00	386.20	-510.72	Start 4192.24 hold at 7748.72 MD
11,940.96	7,348.00	4,578.29	-480.11	TD at 11940.96