

Anadarko Petroleum Corp.

Weld County, CO (NAD 83)

Sec. 22 T2N-R66W

Gobbler 36C-27HZ

Plan A Rev 0

Plan: Plan A Rev 0 Permit

Sperry Drilling Services

Proposal Report

09 October, 2012

Well Coordinates: 1,286,739.01 N, 3,206,601.18 E (40° 07' 05.26" N, 104° 45' 40.52" W)

Ground Level: 5,047.00 ft

Local Coordinate Origin: Centered on Well Gobbler 36C-27HZ

Viewing Datum: RKB=17 @ 5064.00ft (Drilling Rig)

TVDs to System: N

North Reference: True

Unit System: API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 431

HALLIBURTON

Project: Weld County, CO (NAD 83)
 Site: Sec. 22 T2N-R66W
 Well: Gobbler 36C-27HZ
 Wellbore: Plan A Rev 0
 Design: Plan A Rev 0 Permit

Anadarko Petroleum Corp.



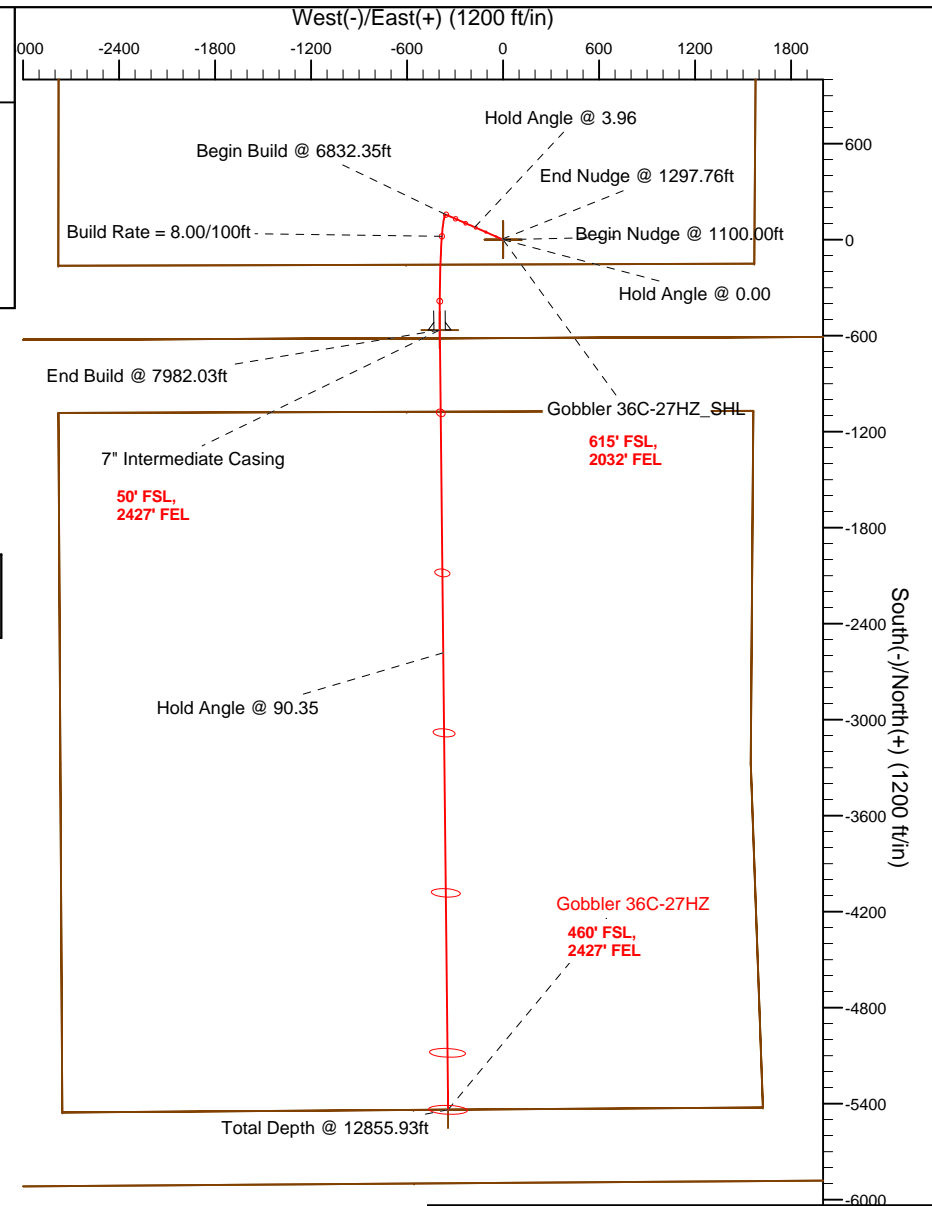
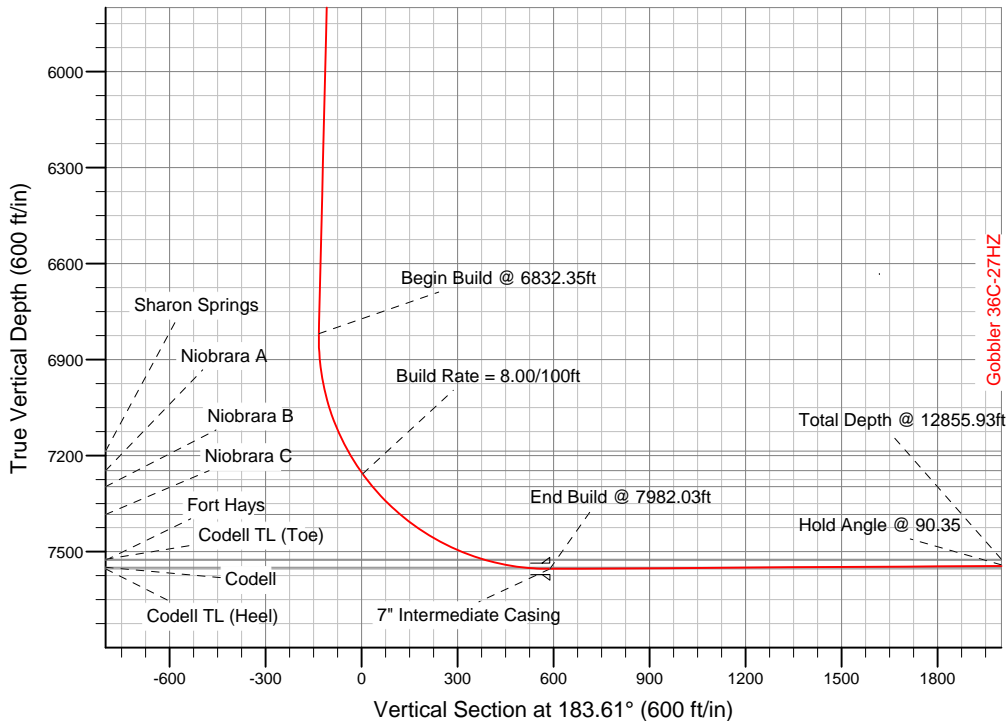
SECTION DETAILS

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	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
3	1297.76	3.96	293.63	1297.60	2.73	-6.25	2.00	293.63	-2.34	
4	6832.35	3.96	293.63	6819.01	155.76	-355.99	0.00	0.00	-133.01	
5	7982.03	90.35	179.39	7554.00	-565.00	-395.00	8.00	-114.16	588.78	Gobbler 36C-27HZ_Casing Point
6	12855.93	90.35	179.39	7524.00	-5438.53	-343.52	0.00	0.00	5449.37	Gobbler 36C-27HZ_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Gobbler 36C-27HZ_22 Setback Line	0.00	0.00	0.00	40.118129	-104.761255	Polygon
Gobbler 36C-27HZ_27 Setback Line	0.00	0.00	0.00	40.118129	-104.761255	Polygon
Gobbler 36C-27HZ_Sec 22/27 Line	0.00	0.00	0.00	40.118129	-104.761255	Polygon
Gobbler 36C-27HZ_Section Line	0.00	0.00	0.00	40.118129	-104.761255	Polygon
Gobbler 36C-27HZ_SHL	0.00	0.00	0.00	40.118129	-104.761255	Point
Gobbler 36C-27HZ_BHL	7524.00	-5438.53	-343.52	40.103200	-104.762483	Point
Gobbler 36C-27HZ_Casing Point	7554.00	-565.00	-395.00	40.116578	-104.762667	Point

Target Line:
7557.24' TVDkb @ 0° VS Drilling 90.35°



WELL DETAILS: Gobbler 36C-27HZ

Ground Level: 5047.00 RKB=17 @ 5064.00ft (Drilling Rig)

Plan: Plan A Rev 0 Permit (Gobbler 36C-27HZ/Plan A Rev 0)

Created By: Fred Hartmann Date: 10/08/2012
 Reviewed: _____ Date: _____

Plan Report for Gobbler 36C-27HZ - Plan A Rev 0 Permit

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	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	0.00
200.00	0.00	0.00	200.00	0.00	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	0.00
400.00	0.00	0.00	400.00	0.00	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	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hold Angle @ 0.00										
700.00	0.00	0.00	700.00	0.00	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	0.00
900.00	0.00	0.00	900.00	0.00	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	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 1100.00ft										
1,200.00	2.00	293.63	1,199.98	0.70	-1.60	-0.60	2.00	2.00	0.00	293.63
1,297.76	3.96	293.63	1,297.60	2.74	-6.25	-2.34	2.00	2.00	0.00	0.00
End Nudge @ 1297.76ft										
1,300.00	3.96	293.63	1,299.84	2.80	-6.39	-2.39	0.00	0.00	0.00	0.00
1,400.00	3.96	293.63	1,399.60	5.56	-12.71	-4.75	0.00	0.00	0.00	0.00
1,500.00	3.96	293.63	1,499.36	8.33	-19.03	-7.11	0.00	0.00	0.00	0.00
1,600.00	3.96	293.63	1,599.12	11.09	-25.35	-9.47	0.00	0.00	0.00	0.00
1,700.00	3.96	293.63	1,698.88	13.86	-31.67	-11.83	0.00	0.00	0.00	0.00
1,800.00	3.96	293.63	1,798.65	16.62	-37.99	-14.19	0.00	0.00	0.00	0.00
1,900.00	3.96	293.63	1,898.41	19.39	-44.31	-16.55	0.00	0.00	0.00	0.00
2,000.00	3.96	293.63	1,998.17	22.15	-50.63	-18.92	0.00	0.00	0.00	0.00
2,100.00	3.96	293.63	2,097.93	24.92	-56.95	-21.28	0.00	0.00	0.00	0.00
2,200.00	3.96	293.63	2,197.69	27.68	-63.26	-23.64	0.00	0.00	0.00	0.00
2,300.00	3.96	293.63	2,297.46	30.45	-69.58	-26.00	0.00	0.00	0.00	0.00
2,400.00	3.96	293.63	2,397.22	33.21	-75.90	-28.36	0.00	0.00	0.00	0.00
2,500.00	3.96	293.63	2,496.98	35.98	-82.22	-30.72	0.00	0.00	0.00	0.00
2,600.00	3.96	293.63	2,596.74	38.74	-88.54	-33.08	0.00	0.00	0.00	0.00
2,700.00	3.96	293.63	2,696.50	41.51	-94.86	-35.44	0.00	0.00	0.00	0.00
2,800.00	3.96	293.63	2,796.27	44.27	-101.18	-37.80	0.00	0.00	0.00	0.00
2,900.00	3.96	293.63	2,896.03	47.04	-107.50	-40.17	0.00	0.00	0.00	0.00
3,000.00	3.96	293.63	2,995.79	49.80	-113.82	-42.53	0.00	0.00	0.00	0.00
3,100.00	3.96	293.63	3,095.55	52.57	-120.14	-44.89	0.00	0.00	0.00	0.00
3,200.00	3.96	293.63	3,195.31	55.33	-126.45	-47.25	0.00	0.00	0.00	0.00
3,300.00	3.96	293.63	3,295.07	58.10	-132.77	-49.61	0.00	0.00	0.00	0.00
3,400.00	3.96	293.63	3,394.84	60.86	-139.09	-51.97	0.00	0.00	0.00	0.00
3,500.00	3.96	293.63	3,494.60	63.63	-145.41	-54.33	0.00	0.00	0.00	0.00
3,600.00	3.96	293.63	3,594.36	66.39	-151.73	-56.69	0.00	0.00	0.00	0.00
3,700.00	3.96	293.63	3,694.12	69.16	-158.05	-59.05	0.00	0.00	0.00	0.00
3,800.00	3.96	293.63	3,793.88	71.92	-164.37	-61.42	0.00	0.00	0.00	0.00
3,900.00	3.96	293.63	3,893.65	74.68	-170.69	-63.78	0.00	0.00	0.00	0.00
4,000.00	3.96	293.63	3,993.41	77.45	-177.01	-66.14	0.00	0.00	0.00	0.00
Hold Angle @ 3.96										
4,100.00	3.96	293.63	4,093.17	80.21	-183.33	-68.50	0.00	0.00	0.00	0.00
4,200.00	3.96	293.63	4,192.93	82.98	-189.65	-70.86	0.00	0.00	0.00	0.00
4,216.11	3.96	293.63	4,209.00	83.42	-190.66	-71.24	0.00	0.00	0.00	0.00
Parkman										
4,300.00	3.96	293.63	4,292.69	85.74	-195.96	-73.22	0.00	0.00	0.00	0.00
4,400.00	3.96	293.63	4,392.45	88.51	-202.28	-75.58	0.00	0.00	0.00	0.00
4,500.00	3.96	293.63	4,492.22	91.27	-208.60	-77.94	0.00	0.00	0.00	0.00
4,600.00	3.96	293.63	4,591.98	94.04	-214.92	-80.30	0.00	0.00	0.00	0.00
4,603.03	3.96	293.63	4,595.00	94.12	-215.11	-80.38	0.00	0.00	0.00	0.00
Sussex										
4,700.00	3.96	293.63	4,691.74	96.80	-221.24	-82.66	0.00	0.00	0.00	0.00
4,800.00	3.96	293.63	4,791.50	99.57	-227.56	-85.03	0.00	0.00	0.00	0.00

Plan Report for Gobbler 36C-27HZ - Plan A Rev 0 Permit

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
4,900.00	3.96	293.63	4,891.26	102.33	-233.88	-87.39	0.00	0.00	0.00	0.00
5,000.00	3.96	293.63	4,991.03	105.10	-240.20	-89.75	0.00	0.00	0.00	0.00
5,100.00	3.96	293.63	5,090.79	107.86	-246.52	-92.11	0.00	0.00	0.00	0.00
5,200.00	3.96	293.63	5,190.55	110.63	-252.84	-94.47	0.00	0.00	0.00	0.00
5,300.00	3.96	293.63	5,290.31	113.39	-259.16	-96.83	0.00	0.00	0.00	0.00
5,400.00	3.96	293.63	5,390.07	116.16	-265.47	-99.19	0.00	0.00	0.00	0.00
5,500.00	3.96	293.63	5,489.83	118.92	-271.79	-101.55	0.00	0.00	0.00	0.00
5,600.00	3.96	293.63	5,589.60	121.69	-278.11	-103.91	0.00	0.00	0.00	0.00
5,700.00	3.96	293.63	5,689.36	124.45	-284.43	-106.28	0.00	0.00	0.00	0.00
5,800.00	3.96	293.63	5,789.12	127.22	-290.75	-108.64	0.00	0.00	0.00	0.00
5,900.00	3.96	293.63	5,888.88	129.98	-297.07	-111.00	0.00	0.00	0.00	0.00
6,000.00	3.96	293.63	5,988.64	132.75	-303.39	-113.36	0.00	0.00	0.00	0.00
6,100.00	3.96	293.63	6,088.41	135.51	-309.71	-115.72	0.00	0.00	0.00	0.00
6,200.00	3.96	293.63	6,188.17	138.28	-316.03	-118.08	0.00	0.00	0.00	0.00
6,300.00	3.96	293.63	6,287.93	141.04	-322.35	-120.44	0.00	0.00	0.00	0.00
6,400.00	3.96	293.63	6,387.69	143.81	-328.66	-122.80	0.00	0.00	0.00	0.00
6,500.00	3.96	293.63	6,487.45	146.57	-334.98	-125.16	0.00	0.00	0.00	0.00
6,600.00	3.96	293.63	6,587.22	149.34	-341.30	-127.53	0.00	0.00	0.00	0.00
6,700.00	3.96	293.63	6,686.98	152.10	-347.62	-129.89	0.00	0.00	0.00	0.00
6,800.00	3.96	293.63	6,786.74	154.87	-353.94	-132.25	0.00	0.00	0.00	0.00
6,832.35	3.96	293.63	6,819.01	155.76	-355.99	-133.01	0.00	0.00	0.00	0.00
Begin Build @ 6832.35ft										
6,900.00	5.23	222.94	6,886.49	154.44	-360.23	-131.42	8.00	1.89	-104.49	-114.16
7,000.00	12.32	196.19	6,985.29	140.83	-366.32	-117.46	8.00	7.09	-26.75	-43.65
7,100.00	20.10	189.34	7,081.25	113.58	-372.09	-89.90	8.00	7.78	-6.86	-17.15
7,200.00	28.01	186.23	7,172.50	73.22	-377.44	-49.28	8.00	7.90	-3.11	-10.55
7,215.38	29.23	185.89	7,186.00	65.89	-378.21	-41.92	8.00	7.93	-2.20	-7.70
Sharon Springs										
7,287.41	34.95	184.59	7,247.00	27.81	-381.67	-3.69	8.00	7.94	-1.80	-7.41
Niobrara A										
7,300.00	35.95	184.41	7,257.26	20.53	-382.24	3.61	8.00	7.95	-1.50	-6.31
Build Rate = 8.00/100ft										
7,350.41	39.96	183.73	7,297.00	-10.39	-384.44	34.61	8.00	7.96	-1.33	-6.15
Niobrara B										
7,400.00	43.91	183.17	7,333.88	-43.46	-386.43	67.74	8.00	7.96	-1.13	-5.62
7,473.29	49.75	182.48	7,384.00	-96.83	-389.04	121.16	8.00	7.97	-0.95	-5.21
Niobrara C										
7,500.00	51.88	182.25	7,400.88	-117.51	-389.90	141.86	8.00	7.97	-0.84	-4.73
7,600.00	59.86	181.52	7,456.94	-200.18	-392.59	224.53	8.00	7.98	-0.74	-4.59
7,700.00	67.84	180.89	7,500.98	-289.85	-394.46	314.14	8.00	7.98	-0.63	-4.17
7,780.09	74.23	180.44	7,527.00	-365.54	-395.33	389.74	8.00	7.98	-0.56	-3.90
Fort Hays										
7,800.00	75.82	180.33	7,532.15	-384.78	-395.46	408.94	8.00	7.98	-0.54	-3.75
7,892.74	83.22	179.85	7,549.00	-475.91	-395.59	499.90	8.00	7.98	-0.52	-3.72
Codell										
7,900.00	83.80	179.81	7,549.82	-483.12	-395.57	507.09	8.00	7.98	-0.51	-3.63
7,982.03	90.35	179.39	7,554.00	-565.00	-395.00	588.78	8.00	7.98	-0.51	-3.63
End Build @ 7982.03ft - Codell TL (Heel) - 7" Intermediate Casing - Gobbler 36C-27HZ_Casing Point										
8,000.00	90.35	179.39	7,553.89	-582.96	-394.81	606.69	0.00	0.00	0.00	-3.61
8,100.00	90.35	179.39	7,553.27	-682.96	-393.75	706.42	0.00	0.00	0.00	0.00
8,200.00	90.35	179.39	7,552.66	-782.95	-392.70	806.15	0.00	0.00	0.00	0.00
8,300.00	90.35	179.39	7,552.04	-882.94	-391.64	905.87	0.00	0.00	0.00	0.00
8,400.00	90.35	179.39	7,551.43	-982.93	-390.59	1,005.60	0.00	0.00	0.00	0.00
8,500.00	90.35	179.39	7,550.81	-1,082.93	-389.53	1,105.33	0.00	0.00	0.00	0.00
8,600.00	90.35	179.39	7,550.20	-1,182.92	-388.47	1,205.06	0.00	0.00	0.00	0.00
8,700.00	90.35	179.39	7,549.58	-1,282.91	-387.42	1,304.78	0.00	0.00	0.00	0.00
8,800.00	90.35	179.39	7,548.97	-1,382.90	-386.36	1,404.51	0.00	0.00	0.00	0.00
8,900.00	90.35	179.39	7,548.35	-1,482.90	-385.30	1,504.24	0.00	0.00	0.00	0.00

Plan Report for Gobbler 36C-27HZ - Plan A Rev 0 Permit

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Tooface Azimuth (°)
9,000.00	90.35	179.39	7,547.73	-1,582.89	-384.25	1,603.96	0.00	0.00	0.00	0.00
9,100.00	90.35	179.39	7,547.12	-1,682.88	-383.19	1,703.69	0.00	0.00	0.00	0.00
9,200.00	90.35	179.39	7,546.50	-1,782.87	-382.14	1,803.42	0.00	0.00	0.00	0.00
9,300.00	90.35	179.39	7,545.89	-1,882.87	-381.08	1,903.15	0.00	0.00	0.00	0.00
9,400.00	90.35	179.39	7,545.27	-1,982.86	-380.02	2,002.87	0.00	0.00	0.00	0.00
9,500.00	90.35	179.39	7,544.66	-2,082.85	-378.97	2,102.60	0.00	0.00	0.00	0.00
9,600.00	90.35	179.39	7,544.04	-2,182.84	-377.91	2,202.33	0.00	0.00	0.00	0.00
9,700.00	90.35	179.39	7,543.43	-2,282.84	-376.85	2,302.05	0.00	0.00	0.00	0.00
9,800.00	90.35	179.39	7,542.81	-2,382.83	-375.80	2,401.78	0.00	0.00	0.00	0.00
9,900.00	90.35	179.39	7,542.19	-2,482.82	-374.74	2,501.51	0.00	0.00	0.00	0.00
10,000.00	90.35	179.39	7,541.58	-2,582.81	-373.69	2,601.23	0.00	0.00	0.00	0.00
Hold Angle @ 90.35										
10,100.00	90.35	179.39	7,540.96	-2,682.81	-372.63	2,700.96	0.00	0.00	0.00	0.00
10,200.00	90.35	179.39	7,540.35	-2,782.80	-371.57	2,800.69	0.00	0.00	0.00	0.00
10,300.00	90.35	179.39	7,539.73	-2,882.79	-370.52	2,900.42	0.00	0.00	0.00	0.00
10,400.00	90.35	179.39	7,539.12	-2,982.79	-369.46	3,000.14	0.00	0.00	0.00	0.00
10,500.00	90.35	179.39	7,538.50	-3,082.78	-368.41	3,099.87	0.00	0.00	0.00	0.00
10,600.00	90.35	179.39	7,537.89	-3,182.77	-367.35	3,199.60	0.00	0.00	0.00	0.00
10,700.00	90.35	179.39	7,537.27	-3,282.76	-366.29	3,299.32	0.00	0.00	0.00	0.00
10,800.00	90.35	179.39	7,536.65	-3,382.76	-365.24	3,399.05	0.00	0.00	0.00	0.00
10,900.00	90.35	179.39	7,536.04	-3,482.75	-364.18	3,498.78	0.00	0.00	0.00	0.00
11,000.00	90.35	179.39	7,535.42	-3,582.74	-363.12	3,598.51	0.00	0.00	0.00	0.00
11,100.00	90.35	179.39	7,534.81	-3,682.73	-362.07	3,698.23	0.00	0.00	0.00	0.00
11,200.00	90.35	179.39	7,534.19	-3,782.73	-361.01	3,797.96	0.00	0.00	0.00	0.00
11,300.00	90.35	179.39	7,533.58	-3,882.72	-359.96	3,897.69	0.00	0.00	0.00	0.00
11,400.00	90.35	179.39	7,532.96	-3,982.71	-358.90	3,997.41	0.00	0.00	0.00	0.00
11,500.00	90.35	179.39	7,532.35	-4,082.70	-357.84	4,097.14	0.00	0.00	0.00	0.00
11,600.00	90.35	179.39	7,531.73	-4,182.70	-356.79	4,196.87	0.00	0.00	0.00	0.00
11,700.00	90.35	179.39	7,531.12	-4,282.69	-355.73	4,296.59	0.00	0.00	0.00	0.00
11,800.00	90.35	179.39	7,530.50	-4,382.68	-354.67	4,396.32	0.00	0.00	0.00	0.00
11,900.00	90.35	179.39	7,529.88	-4,482.67	-353.62	4,496.05	0.00	0.00	0.00	0.00
12,000.00	90.35	179.39	7,529.27	-4,582.67	-352.56	4,595.78	0.00	0.00	0.00	0.00
12,100.00	90.35	179.39	7,528.65	-4,682.66	-351.51	4,695.50	0.00	0.00	0.00	0.00
12,200.00	90.35	179.39	7,528.04	-4,782.65	-350.45	4,795.23	0.00	0.00	0.00	0.00
12,300.00	90.35	179.39	7,527.42	-4,882.64	-349.39	4,894.96	0.00	0.00	0.00	0.00
12,400.00	90.35	179.39	7,526.81	-4,982.64	-348.34	4,994.68	0.00	0.00	0.00	0.00
12,500.00	90.35	179.39	7,526.19	-5,082.63	-347.28	5,094.41	0.00	0.00	0.00	0.00
12,600.00	90.35	179.39	7,525.58	-5,182.62	-346.22	5,194.14	0.00	0.00	0.00	0.00
12,700.00	90.35	179.39	7,524.96	-5,282.61	-345.17	5,293.87	0.00	0.00	0.00	0.00
12,800.00	90.35	179.39	7,524.34	-5,382.61	-344.11	5,393.59	0.00	0.00	0.00	0.00
12,855.92	90.35	179.39	7,524.00	-5,438.52	-343.52	5,449.36	0.00	0.00	0.00	0.00
Codell TL (Toe)										
12,855.93	90.35	179.39	7,524.00	-5,438.53	-343.52	5,449.37	0.00	0.00	0.00	0.00
Gobbler 36C-27HZ_BHL										

Plan Report for Gobbler 36C-27HZ - Plan A Rev 0 Permit**Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
600.00	600.00	0.00	0.00	Hold Angle @ 0.00
1,100.00	1,100.00	0.00	0.00	Begin Nudge @ 1100.00ft
1,297.76	1,297.60	2.74	-6.25	End Nudge @ 1297.76ft
4,000.00	3,993.41	77.45	-177.01	Hold Angle @ 3.96
6,832.35	6,819.01	155.76	-355.99	Begin Build @ 6832.35ft
7,300.00	7,257.26	20.53	-382.24	Build Rate = 8.00/100ft
7,982.03	7,554.00	-565.00	-395.00	End Build @ 7982.03ft
10,000.00	7,541.58	-2,582.81	-373.69	Hold Angle @ 90.35
12,855.93	7,524.00	-5,438.53	-343.52	Total Depth @ 12855.93ft

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/_S (ft)	+E/-W (ft)	
Target	Gobbler 36C-27HZ_BHL	183.61	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	7,982.03	Plan A Rev 0 Permit	MWD
7,982.03	12,855.93	Plan A Rev 0 Permit	MWD

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,982.03	7,554.00	7" Intermediate Casing	7	8-3/4

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,216.11	4,209.00	Parkman		0.00	
4,603.03	4,595.00	Sussex		0.00	
7,215.38	7,186.00	Sharon Springs		0.00	
7,287.41	7,247.00	Niobrara A		0.00	
7,350.41	7,297.00	Niobrara B		0.00	
7,473.29	7,384.00	Niobrara C		0.00	
7,780.09	7,527.00	Fort Hays		0.00	
7,892.74	7,549.00	Codell		0.00	
7,982.03	7,554.00	Codell TL (Heel)		0.00	
12,855.92	7,524.00	Codell TL (Toe)		0.00	

Plan Report for Gobbler 36C-27HZ - Plan A Rev 0 Permit

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Gobbler 36C-27HZ_Sec 22/27 Line	0.00	0.00	0.00	Polygon
Gobbler 36C-27HZ_Casing Point	7,554.00	-565.00	-395.00	Point
Gobbler 36C-27HZ_27 Setback Line	0.00	0.00	0.00	Polygon
Gobbler 36C-27HZ_Section Line	0.00	0.00	0.00	Polygon
Gobbler 36C-27HZ_SHL	0.00	0.00	0.00	Point
Gobbler 36C-27HZ_22 Setback Line	0.00	0.00	0.00	Polygon
Gobbler 36C-27HZ_BHL	7,524.00	-5,438.53	-343.52	Point

North Reference Sheet for Sec. 22 T2N-R66W - Gobbler 36C-27HZ - Plan A Rev 0

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.
 Vertical Depths are relative to RKB=17 @ 5064.00ft (Drilling Rig). Northing and Easting are relative to Gobbler 36C-27HZ
 Coordinate System is US State Plane 1983, Colorado Northern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)
 Central Meridian is -105.50°, Longitude Origin:0.000000°, Latitude Origin:40.783333°
 False Easting: 3,000,000.00ft, False Northing: 1,000,000.00ft, Scale Reduction: 0.99995951

Grid Coordinates of Well: 1,286,739.01 ft N, 3,206,601.18 ft E
 Geographical Coordinates of Well: 40° 07' 05.26" N, 104° 45' 40.52" W
 Grid Convergence at Surface is: 0.48°

Based upon Minimum Curvature type calculations, at a Measured Depth of 12,855.93ft
 the Bottom Hole Displacement is 5,449.37ft in the Direction of 183.61° (True).

Magnetic Convergence at surface is: -8.23° (9 October 2012, , BGGM2012)

