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Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 5-19S-29# Gobbler 5 B2HE State #1H

Gobbler 5 B2HE State #1H

Original Hole

30-015-44665

Design: Original Hole

Standard Survey Report

23 April, 2018





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 5-19S-29# Gobbler 5 B2HE State #1H
Well: Gobbler 5 B2HE State #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gobbler 5 B2HE State #1H
TVD Reference: 3412 GL + 27KB @ 3439.0usft (Patterson 250)
MD Reference: 3412 GL + 27KB @ 3439.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project Eddy County, N.M. Nad (83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Section 5-19S-29# Gobbler 5 B2HE State #1H

Site Position: **Northing:** 616,248.40 usft **Latitude:** 32° 41' 37.939 N
From: Map **Easting:** 616,504.70 usft **Longitude:** 104° 5' 20.369 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.13 °

Well Gobbler 5 B2HE State #1H

Well Position **+N/-S** 0.0 usft **Northing:** 616,248.40 usft **Latitude:** 32° 41' 37.939 N
+E/-W 0.0 usft **Easting:** 616,504.70 usft **Longitude:** 104° 5' 20.369 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 27.0 usft **Ground Level:** 3,412.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/7/2018	7.15	60.40	48,086.94674769

Design Original Hole

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	153.49

Survey Program Date 4/23/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
512.0	12,620.0	Survey #1 (Original Hole)		

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
398.0	0.40	2.99	398.0	2.7	3.1	-1.0	0.00	0.00	0.00
512.0	0.70	102.40	512.0	2.9	3.8	-0.9	0.76	0.26	87.20
573.0	0.70	120.40	573.0	2.7	4.5	-0.4	0.36	0.00	29.51
634.0	0.60	106.30	634.0	2.4	5.1	0.2	0.31	-0.16	-23.11
695.0	0.80	107.70	695.0	2.2	5.8	0.7	0.33	0.33	2.30
757.0	0.90	92.40	756.9	2.0	6.7	1.2	0.40	0.16	-24.68
818.0	1.10	91.00	817.9	2.0	7.8	1.7	0.33	0.33	-2.30
879.0	0.70	97.20	878.9	1.9	8.8	2.2	0.67	-0.66	10.16
941.0	0.50	248.60	940.9	1.8	8.9	2.4	1.88	-0.32	244.19
1,002.0	1.00	255.30	1,001.9	1.5	8.1	2.2	0.83	0.82	10.98



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North Reference: Grid
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Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,059.0	1.10	257.20	1,058.9	1.3	7.1	2.0	0.19	0.18	3.33
1,166.0	1.20	258.10	1,165.9	0.8	5.0	1.5	0.09	0.09	0.84
1,229.0	1.80	208.10	1,228.9	-0.2	3.9	1.9	2.19	0.95	-79.37
1,293.0	2.90	182.80	1,292.8	-2.7	3.3	3.9	2.32	1.72	-39.53
1,356.0	3.00	183.40	1,355.7	-5.9	3.2	6.7	0.17	0.16	0.95
1,419.0	2.90	173.10	1,418.7	-9.1	3.3	9.6	0.86	-0.16	-16.35
1,483.0	3.70	156.20	1,482.5	-12.6	4.3	13.2	1.96	1.25	-26.41
1,546.0	4.40	150.50	1,545.4	-16.6	6.3	17.7	1.28	1.11	-9.05
1,609.0	4.20	156.20	1,608.2	-20.8	8.4	22.4	0.75	-0.32	9.05
1,672.0	3.90	156.30	1,671.1	-24.9	10.2	26.8	0.48	-0.48	0.16
1,736.0	3.60	151.90	1,734.9	-28.7	12.0	31.0	0.65	-0.47	-6.88
1,799.0	3.80	153.40	1,797.8	-32.3	13.9	35.1	0.35	0.32	2.38
1,863.0	3.40	152.20	1,861.7	-35.8	15.7	39.1	0.64	-0.63	-1.88
1,927.0	4.40	151.60	1,925.5	-39.7	17.8	43.4	1.56	1.56	-0.94
1,990.0	4.90	149.50	1,988.3	-44.1	20.3	48.5	0.84	0.79	-3.33
2,087.0	4.40	147.60	2,085.0	-50.8	24.4	56.4	0.54	-0.52	-1.96
2,181.0	4.30	150.50	2,178.7	-56.9	28.1	63.5	0.26	-0.11	3.09
2,274.0	5.20	152.30	2,271.4	-63.7	31.7	71.2	0.98	0.97	1.94
2,367.0	4.90	153.50	2,364.0	-71.0	35.5	79.4	0.34	-0.32	1.29
2,461.0	5.30	157.20	2,457.7	-78.6	39.0	87.7	0.55	0.43	3.94
2,554.0	4.90	156.60	2,550.3	-86.2	42.2	96.0	0.43	-0.43	-0.65
2,648.0	4.90	158.50	2,643.9	-93.6	45.3	104.0	0.17	0.00	2.02
2,741.0	5.10	159.90	2,736.6	-101.2	48.1	112.0	0.25	0.22	1.51
2,835.0	5.20	157.80	2,830.2	-109.1	51.2	120.4	0.23	0.11	-2.23
2,929.0	5.10	157.30	2,923.8	-116.9	54.4	128.9	0.12	-0.11	-0.53
3,022.0	4.90	156.40	3,016.5	-124.3	57.6	136.9	0.23	-0.22	-0.97
3,115.0	5.00	157.00	3,109.1	-131.7	60.8	145.0	0.12	0.11	0.65
3,209.0	5.20	154.10	3,202.8	-139.3	64.2	153.3	0.35	0.21	-3.09
3,303.0	5.50	156.70	3,296.4	-147.3	67.9	162.1	0.41	0.32	2.77
3,396.0	4.60	158.30	3,389.0	-154.8	71.0	170.2	0.98	-0.97	1.72
3,490.0	4.30	160.90	3,482.7	-161.6	73.6	177.5	0.38	-0.32	2.77
3,583.0	4.20	159.50	3,575.5	-168.1	75.9	184.3	0.15	-0.11	-1.51
3,676.0	4.20	160.70	3,668.2	-174.5	78.2	191.1	0.09	0.00	1.29
3,770.0	3.90	165.70	3,762.0	-180.9	80.1	197.6	0.49	-0.32	5.32
3,863.0	3.60	156.50	3,854.8	-186.6	82.1	203.6	0.72	-0.32	-9.89
3,957.0	4.40	154.10	3,948.5	-192.6	84.8	210.2	0.87	0.85	-2.55
4,049.0	3.80	152.30	4,040.3	-198.4	87.8	216.8	0.67	-0.65	-1.96
4,143.0	4.30	150.70	4,134.1	-204.3	91.0	223.4	0.55	0.53	-1.70
4,236.0	3.80	160.50	4,226.8	-210.2	93.7	229.9	0.92	-0.54	10.54
4,329.0	4.60	148.10	4,319.6	-216.3	96.7	236.7	1.30	0.86	-13.33
4,423.0	4.40	145.50	4,413.3	-222.5	100.7	244.0	0.30	-0.21	-2.77
4,516.0	3.70	152.00	4,506.1	-228.1	104.2	250.6	0.90	-0.75	6.99
4,610.0	4.80	144.20	4,599.8	-233.9	107.9	257.5	1.32	1.17	-8.30
4,703.0	5.00	141.60	4,692.5	-240.3	112.7	265.3	0.32	0.22	-2.80

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Survey

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4,797.0	4.50	144.20	4,786.1	-246.5	117.4	272.9	0.58	-0.53	2.77
4,890.0	3.90	139.60	4,878.9	-251.8	121.6	279.6	0.74	-0.65	-4.95
4,983.0	5.50	137.30	4,971.6	-257.5	126.6	287.0	1.73	1.72	-2.47
5,076.0	5.50	136.10	5,064.2	-264.0	132.8	295.5	0.12	0.00	-1.29
5,170.0	5.10	138.60	5,157.8	-270.4	138.6	303.8	0.49	-0.43	2.66
5,263.0	5.70	147.60	5,250.3	-277.4	143.8	312.4	1.11	0.65	9.68
5,357.0	5.10	152.00	5,343.9	-285.0	148.3	321.2	0.78	-0.64	4.68
5,450.0	5.10	154.10	5,436.6	-292.4	152.1	329.5	0.20	0.00	2.26
5,544.0	4.80	154.80	5,530.2	-299.7	155.6	337.6	0.33	-0.32	0.74
5,637.0	4.70	162.40	5,622.9	-306.8	158.4	345.3	0.68	-0.11	8.17
5,732.0	4.80	158.30	5,717.6	-314.2	161.0	353.1	0.37	0.11	-4.32
5,825.0	4.20	164.20	5,810.3	-321.1	163.4	360.3	0.81	-0.65	6.34
5,918.0	4.70	165.60	5,903.0	-328.1	165.2	367.4	0.55	0.54	1.51
6,012.0	3.70	166.50	5,996.7	-334.8	166.9	374.1	1.07	-1.06	0.96
6,105.0	3.60	163.80	6,089.5	-340.5	168.4	379.9	0.21	-0.11	-2.90
6,198.0	3.90	151.50	6,182.4	-346.1	170.8	385.9	0.92	0.32	-13.23
6,292.0	6.30	148.20	6,276.0	-353.3	175.0	394.3	2.57	2.55	-3.51
6,385.0	4.80	144.80	6,368.5	-360.8	179.9	403.2	1.65	-1.61	-3.66
6,478.0	5.30	152.70	6,461.2	-367.8	184.1	411.3	0.92	0.54	8.49
6,572.0	3.80	154.90	6,554.9	-374.5	187.5	418.8	1.61	-1.60	2.34
6,665.0	3.50	160.80	6,647.7	-379.9	189.7	424.7	0.52	-0.32	6.34
6,758.0	2.90	161.90	6,740.5	-384.9	191.4	429.8	0.65	-0.65	1.18
6,852.0	2.80	167.90	6,834.4	-389.4	192.6	434.4	0.33	-0.11	6.38
6,945.0	2.10	156.40	6,927.3	-393.2	193.7	438.3	0.92	-0.75	-12.37
7,038.0	1.10	198.40	7,020.3	-395.6	194.1	440.6	1.59	-1.08	45.16
7,132.0	1.10	202.00	7,114.3	-397.3	193.5	441.9	0.07	0.00	3.83
7,225.0	0.90	192.70	7,207.3	-398.8	193.0	443.0	0.28	-0.22	-10.00
7,268.2	1.61	211.29	7,250.5	-399.6	192.6	443.6	1.87	1.64	43.04
B.B. Gobbler 5 B2HE #1H									
7,318.0	2.50	218.90	7,300.2	-401.1	191.6	444.4	1.87	1.79	15.27
7,369.0	4.30	227.20	7,351.1	-403.3	189.5	445.4	3.65	3.53	16.27
7,400.0	8.30	231.10	7,381.9	-405.4	186.9	446.2	12.97	12.90	12.58
7,431.0	13.10	235.50	7,412.4	-408.8	182.3	447.2	15.70	15.48	14.19
7,462.0	17.50	238.40	7,442.3	-413.3	175.4	448.1	14.40	14.19	9.35
7,493.0	21.50	240.40	7,471.5	-418.5	166.5	448.8	13.08	12.90	6.45
7,524.0	24.40	238.80	7,500.1	-424.7	156.1	449.7	9.57	9.35	-5.16
7,556.0	27.00	238.00	7,528.9	-431.9	144.2	450.9	8.20	8.13	-2.50
7,587.0	30.30	238.20	7,556.1	-439.8	131.6	452.3	10.65	10.65	0.65
7,618.0	34.60	239.40	7,582.2	-448.4	117.4	453.6	14.02	13.87	3.87
7,649.0	38.00	240.00	7,607.2	-457.6	101.5	454.9	11.03	10.97	1.94
7,680.0	40.80	240.00	7,631.2	-467.5	84.5	456.1	9.03	9.03	0.00
7,711.0	43.30	239.80	7,654.2	-477.9	66.5	457.4	8.08	8.06	-0.65
7,742.0	45.60	239.80	7,676.3	-488.8	47.8	458.8	7.42	7.42	0.00



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7,773.0	48.60	239.90	7,697.4	-500.2	28.1	460.2	9.68	9.68	0.32
7,804.0	53.00	239.60	7,717.0	-512.3	7.4	461.8	14.21	14.19	-0.97
7,836.0	56.60	239.20	7,735.4	-525.6	-15.1	463.6	11.30	11.25	-1.25
7,867.0	59.30	238.90	7,751.9	-539.1	-37.6	465.7	8.75	8.71	-0.97
7,898.0	61.60	237.80	7,767.2	-553.3	-60.6	468.1	8.04	7.42	-3.55
7,929.0	64.20	237.90	7,781.3	-568.0	-83.9	470.8	8.39	8.39	0.32
7,960.0	68.80	237.60	7,793.7	-583.1	-108.0	473.7	14.87	14.84	-0.97
7,991.0	73.30	238.20	7,803.7	-598.7	-132.8	476.5	14.63	14.52	1.94
8,023.0	76.60	238.70	7,812.0	-614.9	-159.1	479.2	10.42	10.31	1.56
8,054.0	79.70	239.50	7,818.4	-630.5	-185.2	481.6	10.31	10.00	2.58
8,085.0	82.40	240.70	7,823.2	-645.7	-211.7	483.4	9.51	8.71	3.87
8,097.0	83.70	241.00	7,824.7	-651.5	-222.1	483.9	11.11	10.83	2.50
8,105.5	84.45	241.64	7,825.6	-655.6	-229.5	484.2	11.53	8.78	7.52
LP Gobbler 5 B2HE #1H									
8,172.0	90.30	246.60	7,828.6	-684.5	-289.3	483.5	11.53	8.80	7.46
8,234.0	90.80	248.10	7,828.0	-708.4	-346.5	479.3	2.55	0.81	2.42
8,328.0	92.40	249.70	7,825.4	-742.2	-434.1	470.5	2.41	1.70	1.70
8,359.0	91.90	251.10	7,824.2	-752.6	-463.3	466.8	4.79	-1.61	4.52
8,390.0	91.30	250.80	7,823.4	-762.8	-492.6	462.7	2.16	-1.94	-0.97
8,421.0	91.30	252.90	7,822.7	-772.4	-522.1	458.2	6.77	0.00	6.77
8,452.0	91.10	255.80	7,822.0	-780.8	-551.9	452.4	9.38	-0.65	9.35
8,483.0	90.10	259.10	7,821.7	-787.5	-582.2	444.9	11.12	-3.23	10.65
8,514.0	90.10	261.60	7,821.6	-792.7	-612.7	435.9	8.06	0.00	8.06
8,608.0	90.80	268.30	7,820.9	-801.0	-706.3	401.6	7.17	0.74	7.13
8,700.0	90.20	268.10	7,820.1	-803.9	-798.2	363.1	0.69	-0.65	-0.22
8,794.0	89.20	268.10	7,820.6	-807.0	-892.2	324.0	1.06	-1.06	0.00
8,887.0	91.30	269.10	7,820.2	-809.2	-985.2	284.5	2.50	2.26	1.08
8,981.0	91.10	268.80	7,818.2	-811.0	-1,079.1	244.1	0.38	-0.21	-0.32
9,074.0	90.70	266.50	7,816.7	-814.8	-1,172.0	206.1	2.51	-0.43	-2.47
9,167.0	92.70	268.50	7,814.0	-818.8	-1,264.9	168.3	3.04	2.15	2.15
9,261.0	93.80	268.20	7,808.6	-821.5	-1,358.7	128.8	1.21	1.17	-0.32
9,354.0	91.80	269.30	7,804.1	-823.6	-1,451.6	89.2	2.45	-2.15	1.18
9,448.0	93.10	270.70	7,800.1	-823.6	-1,545.5	47.3	2.03	1.38	1.49
9,541.0	92.50	272.60	7,795.5	-820.9	-1,638.3	3.5	2.14	-0.65	2.04
9,635.0	89.50	273.70	7,793.9	-815.7	-1,732.1	-43.0	3.40	-3.19	1.17
9,728.0	89.40	273.00	7,794.8	-810.3	-1,825.0	-89.3	0.76	-0.11	-0.75
9,821.0	90.10	272.80	7,795.2	-805.6	-1,917.9	-135.0	0.78	0.75	-0.22
9,915.0	91.70	272.00	7,793.7	-801.6	-2,011.8	-180.4	1.90	1.70	-0.85
10,008.0	92.40	271.70	7,790.4	-798.6	-2,104.6	-224.6	0.82	0.75	-0.32
10,101.0	90.50	272.30	7,788.0	-795.4	-2,197.6	-268.9	2.14	-2.04	0.65
10,194.0	91.30	272.00	7,786.6	-791.9	-2,290.5	-313.5	0.92	0.86	-0.32
10,288.0	91.80	271.60	7,784.0	-789.0	-2,384.4	-358.1	0.68	0.53	-0.43
10,381.0	90.70	270.50	7,782.0	-787.3	-2,477.4	-401.1	1.67	-1.18	-1.18
10,475.0	92.40	270.30	7,779.5	-786.6	-2,571.3	-443.6	1.82	1.81	-0.21

Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 5-19S-29# Gobbler 5 B2HE State #1H
Well: Gobbler 5 B2HE State #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gobbler 5 B2HE State #1H
TVD Reference: 3412 GL + 27KB @ 3439.0usft (Patterson 250)
MD Reference: 3412 GL + 27KB @ 3439.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,568.0	91.90	270.90	7,776.0	-785.6	-2,664.2	-485.9	0.84	-0.54	0.65
10,662.0	89.60	270.50	7,774.8	-784.5	-2,758.2	-528.9	2.48	-2.45	-0.43
10,755.0	89.50	270.50	7,775.5	-783.7	-2,851.2	-571.1	0.11	-0.11	0.00
10,848.0	89.40	270.30	7,776.4	-783.0	-2,944.2	-613.2	0.24	-0.11	-0.22
10,942.0	89.10	270.30	7,777.6	-782.5	-3,038.2	-655.6	0.32	-0.32	0.00
11,035.0	90.50	270.30	7,777.9	-782.0	-3,131.2	-697.5	1.51	1.51	0.00
11,129.0	90.50	269.90	7,777.1	-781.9	-3,225.2	-739.6	0.43	0.00	-0.43
11,223.0	91.80	269.10	7,775.2	-782.7	-3,319.2	-780.8	1.62	1.38	-0.85
11,316.0	92.10	268.70	7,772.1	-784.5	-3,412.1	-820.7	0.54	0.32	-0.43
11,410.0	91.70	268.00	7,768.9	-787.2	-3,506.0	-860.2	0.86	-0.43	-0.74
11,503.0	92.40	267.20	7,765.6	-791.1	-3,598.9	-898.2	1.14	0.75	-0.86
11,595.0	91.00	267.20	7,762.9	-795.6	-3,690.7	-935.1	1.52	-1.52	0.00
11,689.0	91.20	267.20	7,761.1	-800.2	-3,784.6	-972.9	0.21	0.21	0.00
11,876.0	90.60	266.00	7,758.1	-811.3	-3,971.2	-1,046.3	0.72	-0.32	-0.64
11,970.0	91.10	266.40	7,756.7	-817.5	-4,065.0	-1,082.6	0.68	0.53	0.43
12,063.0	92.20	266.90	7,754.1	-822.9	-4,157.8	-1,119.1	1.30	1.18	0.54
12,156.0	93.40	265.50	7,749.5	-829.1	-4,250.5	-1,155.0	1.98	1.29	-1.51
12,250.0	92.50	267.30	7,744.7	-835.0	-4,344.2	-1,191.5	2.14	-0.96	1.91
12,344.0	93.30	266.90	7,739.9	-839.7	-4,437.9	-1,229.1	0.95	0.85	-0.43
12,437.0	93.60	268.80	7,734.3	-843.2	-4,530.7	-1,267.4	2.06	0.32	2.04
12,530.0	93.70	269.00	7,728.4	-845.0	-4,623.5	-1,307.2	0.24	0.11	0.22
12,547.0	94.20	268.90	7,727.2	-845.3	-4,640.4	-1,314.5	3.00	2.94	-0.59
12,620.0	94.20	268.90	7,721.9	-846.7	-4,713.2	-1,345.7	0.00	0.00	0.00

12620.0' MD Projected to Bit - PBHL Gobbler 5 B2HE #1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
12,620.0	7,721.9	-846.7	-4,713.2	12620.0' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Gobbler 5 B2HE State #1H
 COUNTY: Eddy County, N.M. Nad (83)
 DATUM: North American Datum 1983
 RIG: Patterson Patterson 250



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.02°

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico Eastern Zone											
3412 GL + 27KB @ 3439.0usft (Patterson 250)											
GROUND ELEVATION: 3412.0											
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
	0.0	0.0	616248.40	616504.70	32° 41' 37.939 N	104° 5' 20.369 W					
PLAN SECTIONS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0		
3	1508.3	4.62	154.99	1507.9	-11.3	5.3	1.50	154.99	-3.4		
4	6960.1	4.62	154.99	6942.1	-409.6	191.0	0.00	0.00	0.0	-122.5	
5	7268.4	0.00	0.00	7250.0	-420.8	196.3	1.50	180.00	-125.8	B.B. Gobbler 5 B2HE #1H	
6	7370.0	0.00	0.00	7351.6	-420.8	196.3	0.00	0.00	0.0	-125.8	
7	8129.2	91.10	240.00	7829.0	-664.2	-225.1	12.00	240.00	329.3		
8	8501.3	91.13	269.78	7821.5	-760.1	-580.3	8.00	89.64	695.3		
9	12670.7	91.13	269.78	7739.0	-776.3	-4748.8	0.00	0.00	4811.9	PBHL Gobbler 5 B2HE #1H	

