

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other						6. If Indian, Allottee or Tribe Name					
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other						7. Unit or CA Agreement Name and No. 70964A					
2. Name of Operator Marathon Oil Company						8. Lease Name and Well No. INDIAN HILLS UNIT GAS COM #38					
3. Address P.O. Box 552 Midland, TX 79702				3a. Phone No. (include area code) 800-351-1417		9. API Well No. 30-015-32770					
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface UL "J", 2333' FSL & 2020' FEL, Section 29, T-21-S, R-24-E At top prod. interval reported below 1148' FSL & 2603' FWL, Sec. 29, T-21-S, R-24-E At total depth 933' FSL & 2440' FWL						10. Field and Pool, or Exploratory INDIAN BASIN UPPER PENN ASSOC.					
11. Sec., T., R., M., or Block and Survey or Area SECTION 29, T-21-S, R-24-E						12. County or Parish EDDY COUNTY		13. State NM		17. Elevations (DF, RKB, RT, GL)* KB - 3792'; GL - 3775'	
14. Date Spudded 5/15/2003		15. Date T.D. Reached 5/29/03		16. Date Completed ☐ D & A ☒ Ready to Prod. 6/24/2003							
18. Total Depth: MD TVD 8425' 8188'		19. Plug Back T.D.: MD TVD 8410' 8173'		20. Depth Bridge Plug Set: MD TVD							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Halliburton TMDL-DSN-CSNG Computed Capture & Inelastic Poros.						22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run ☒ No ☐ Yes (Submit report) Directional Survey? ☐ No ☒ Yes (Submit copy)					
23. Casing and Liner Record (Report all strings set in well)											
Hole Size	Size/Grade	Wt.(#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No.of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled		
12.375"	9.625	36	0	1209'		1400 sx		surface			
8.75	7"	23 & 26	0	8425'		800 sx		surface			
24. Tubing Record											
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)			
2-7/8	8327	RBP @ 8327									
25. Producing Intervals						26. Perforation Record					
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status			
A) Upper Perm		7432	TD	7690'-8064'				open			
B)											
C)											
D)											
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.											
Depth Interval		Amount and Type of Material									
7690'-8064'		24,500 gals. 17% OCA sour acid									
28. Production - Interval A											
Date First Produced 6/26/02	Test Date 7/11/03	Hours Tested 24	Test Production →	Oil BBL 292	Gas MCF 3556	Water BBL 1349	Oil Gravity	Gas Gravity	Production Method Sub Pump		
Choke Size	Tbg. Press. Flwg. SI 280	Csg. Press. 200	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	Producing		
28a. Production-Interval B											
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status			

(See instructions and spaces for additional data on reverse side)

3b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

3c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Cisco Canyon	7432	7647	Dolomite w/ thin strks porosity	San Andres	748
	7647	TD	Dolomite	Glorieta	2322
				Yeso	2450
				Bone Spring Lime	4773
				Tubb	6590
				Wolfcamp	6779
				Cisco	7432
				Canyon	7647

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd) 2. Geologic Report 3. DST Report 4. Directional Survey
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Ginny Larke

Title Engineer Technician

Signature *Ginny Larke*

Date 8/15/03

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Marathon Oil Company
Indian Hills Unit 38

slot #1
INDIAN BASIN
Eddy County New Mexico

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : MWD
Our ref : svy2260
License :

Date printed : 27-Jun-2003
Date created : 19-May-2003
Last revised : 27-Jun-2003

Field is centred on n32 30 0.000,w104 30 0
Structure is centred on 443153.800,527203.100,999.00000,N

Slot location is n32 26 57.333,w104 31 3.415
Slot Grid coordinates are N 527203.100, E 443153.800
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North



Measured Depth	Inclin. Degrees	Azimuth Degrees	True Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N 0.00 E	0.00	0.00
200.00	0.25	356.00	200.00	0.44 N 0.03 W	0.12	-0.32
466.00	0.25	319.00	466.00	1.45 N 0.45 W	0.06	-0.84
677.00	0.75	314.00	676.99	2.76 N 1.75 W	0.24	-1.02
862.00	0.75	345.00	861.97	4.77 N 2.93 W	0.22	-1.83
1047.00	0.25	15.00	1046.97	6.33 N 3.14 W	0.30	-2.90
1170.00	1.00	359.00	1169.96	7.66 N 3.09 W	0.62	-3.96
1237.00	0.97	18.90	1236.95	8.78 N 2.92 W	0.51	-4.94
1300.00	1.20	24.30	1299.94	9.89 N 2.47 W	0.40	-6.08
1362.00	0.88	287.20	1361.93	10.62 N 2.66 W	2.54	-6.52
1425.00	2.70	239.70	1424.90	10.01 N 4.40 W	3.50	-4.95
1489.00	3.80	234.40	1488.80	8.02 N 7.43 W	1.78	-1.49
1553.00	5.00	230.60	1552.61	5.01 N 11.31 W	1.93	3.30
1617.00	6.90	225.30	1616.26	0.54 N 16.20 W	3.09	9.86
1680.00	7.80	220.70	1678.74	5.36 S 21.67 W	1.71	17.89
1744.00	8.80	221.10	1742.07	12.34 S 27.73 W	1.57	27.13
1807.00	10.30	217.20	1804.20	20.46 S 34.30 W	2.59	37.58
1871.00	11.80	214.10	1867.01	30.44 S 41.43 W	2.52	49.81
1934.00	13.20	211.90	1928.51	41.88 S 48.84 W	2.35	63.36
1997.00	15.00	213.40	1989.61	54.80 S 57.13 W	2.92	78.60
2061.00	16.50	216.90	2051.21	68.98 S 67.15 W	2.77	95.92
2125.00	17.60	216.90	2112.40	83.98 S 78.41 W	1.72	114.67
2188.00	18.40	216.50	2172.31	99.59 S 90.05 W	1.28	134.11
2250.00	18.70	216.20	2231.09	115.48 S 101.74 W	0.51	153.81
2312.00	18.60	217.60	2289.84	131.34 S 113.64 W	0.74	173.62
2375.00	18.10	216.20	2349.63	147.19 S 125.55 W	1.06	193.43
2439.00	17.60	217.60	2410.55	162.88 S 137.33 W	1.03	213.03
2503.00	18.00	218.60	2471.49	178.28 S 149.40 W	0.79	232.59
2564.00	18.30	220.40	2529.45	192.93 S 161.49 W	-1.04	251.59
2627.00	18.10	221.80	2589.30	207.76 S 174.42 W	0.76	271.25

Your ref : MWD

Last revised : 27-Jun-2003

Marathon Oil Company
Indian Hills Unit 38, slot #1
INDIAN BASIN, Eddy County New Mexico

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
3954.00	15.90	218.60	3867.12	481.31 S 403.41 W	0.34	627.97
4018.00	16.00	217.90	3928.66	495.12 S 414.29 W	0.34	645.56
4082.00	16.10	218.30	3990.16	509.04 S 425.21 W	0.23	663.25
4144.00	16.00	217.60	4049.75	522.56 S 435.75 W	0.35	680.38
4207.00	15.60	218.30	4110.37	536.09 S 446.30 W	0.70	697.53
4270.00	14.40	219.70	4171.22	548.76 S 456.56 W	1.99	713.83
4334.00	14.40	219.30	4233.21	561.04 S 466.68 W	0.16	729.75
4397.00	13.80	221.10	4294.31	572.77 S 476.58 W	1.18	745.09
4461.00	13.80	221.80	4356.46	584.21 S 486.69 W	0.26	760.35
4531.00	14.00	221.10	4424.41	596.81 S 497.82 W	0.37	777.15
4594.00	13.50	221.40	4485.61	608.07 S 507.69 W	0.80	792.12
4657.00	13.20	222.10	4546.91	618.92 S 517.38 W	0.54	806.65
4720.00	13.00	222.50	4608.27	629.49 S 526.99 W	0.35	820.91
4784.00	13.00	221.80	4670.63	640.16 S 536.65 W	0.25	835.29
4847.00	12.60	221.10	4732.06	650.62 S 545.89 W	0.68	849.24
4910.00	12.80	218.60	4793.52	661.25 S 554.76 W	0.93	863.09
4974.00	13.80	217.90	4855.80	672.82 S 563.87 W	1.58	877.81
5037.00	14.50	217.60	4916.89	684.99 S 573.30 W	1.12	893.20
5101.00	14.60	217.60	4978.84	697.73 S 583.11 W	0.16	909.27
5164.00	14.70	217.20	5039.79	710.39 S 592.79 W	0.23	925.20
5227.00	14.80	217.90	5100.71	723.11 S 602.56 W	0.32	941.23
5291.00	16.20	219.30	5162.38	736.47 S 613.24 W	2.26	958.33
5354.00	15.90	220.10	5222.93	749.87 S 624.36 W	0.59	975.75
5416.00	15.50	219.00	5282.62	762.80 S 635.05 W	0.80	992.52
5480.00	15.70	218.60	5344.26	776.22 S 645.83 W	0.35	1009.73
5543.00	15.20	219.70	5404.98	789.23 S 656.42 W	0.92	1026.52
5606.00	14.70	218.90	5465.85	801.81 S 666.72 W	0.86	1042.77
5669.00	14.30	217.90	5526.84	814.17 S 676.52 W	0.75	1058.54

5732.00	14.10	218.30	5587.92	826.33 S	686.05 W	0.35	1073.99
5796.00	14.30	218.30	5649.96	838.65 S	695.78 W	0.31	1089.69
5860.00	15.40	219.30	5711.82	851.43 S	706.07 W	1.76	1106.09
5923.00	15.40	218.60	5772.56	864.44 S	716.58 W	0.30	1122.82
5986.00	15.50	219.00	5833.29	877.52 S	727.10 W	0.23	1139.60
6049.00	15.40	220.40	5894.01	890.43 S	737.82 W	0.61	1156.38
6113.00	15.40	219.00	5955.71	903.51 S	748.67 W	0.58	1173.37
6177.00	15.20	218.60	6017.44	916.67 S	759.26 W	0.35	1190.26
6239.00	15.50	218.30	6077.23	929.52 S	769.46 W	0.50	1206.67
6302.00	15.70	217.60	6137.91	942.88 S	779.88 W	0.44	1223.61
6365.00	15.90	216.90	6198.53	956.54 S	790.26 W	0.44	1240.75
6429.00	16.20	216.90	6260.04	970.69 S	800.89 W	0.47	1258.43
6492.00	16.30	214.80	6320.52	984.97 S	811.21 W	0.95	1276.02
6555.00	16.30	216.20	6380.99	999.37 S	821.48 W	0.62	1293.66
6619.00	16.50	218.30	6442.38	1013.75 S	832.41 W	0.98	1311.72
6683.00	16.80	220.00	6503.70	1027.97 S	843.99 W	0.89	1330.05
6746.00	16.80	221.80	6564.01	1041.73 S	855.91 W	0.83	1348.25
6809.00	16.30	220.00	6624.40	1055.29 S	867.66 W	1.14	1366.19
6872.00	15.10	217.90	6685.05	1068.54 S	878.39 W	2.11	1383.23
6935.00	14.30	214.80	6745.99	1081.40 S	887.87 W	1.78	1399.19
6999.00	14.60	214.40	6807.96	1094.55 S	896.94 W	0.49	1415.11
7062.00	15.00	215.50	6868.87	1107.74 S	906.16 W	0.78	1431.15

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1770.77 on azimuth 220.42 degrees from wellhead.

Vertical section is from N 0.00 E 0.00 on azimuth 219.37 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

Marathon Oil Company
Indian Hills Unit 38, slot #1
INDIAN BASIN, Eddy County New Mexico

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
7125.00	15.70	220.10	6929.63	1120.89 S 916.38 W	2.23	1447.81
7189.00	16.10	224.60	6991.18	1133.84 S 928.19 W	2.02	1465.31
7252.00	17.60	226.00	7051.48	1146.67 S 941.18 W	2.47	1483.47
7316.00	16.90	226.70	7112.60	1159.77 S 954.91 W	1.14	1502.31
7379.00	15.70	226.70	7173.06	1171.90 S 967.78 W	1.90	1519.84
7442.00	15.60	227.10	7233.73	1183.51 S 980.19 W	0.23	1536.69
7505.00	16.00	227.10	7294.35	1195.19 S 992.75 W	0.63	1553.69
7569.00	15.20	227.10	7355.99	1206.91 S 1005.36 W	1.25	1570.74
7630.00	14.90	225.60	7414.90	1217.84 S 1016.82 W	0.81	1586.46
7722.00	14.70	223.20	7503.85	1234.62 S 1033.26 W	0.70	1609.87
7818.00	14.20	223.90	7596.81	1251.99 S 1049.76 W	0.55	1633.76
7912.00	14.00	223.60	7687.98	1268.53 S 1065.60 W	0.23	1656.59
8008.00	13.90	224.60	7781.15	1285.15 S 1081.71 W	0.27	1679.66
8135.00	13.50	226.70	7904.53	1306.17 S 1103.20 W	0.50	1709.55
8230.00	12.50	226.40	7997.10	1320.87 S 1118.72 W	1.06	1730.75
8326.00	11.60	227.10	8090.98	1334.61 S 1133.31 W	0.95	1750.63
8365.00	11.70	227.40	8129.18	1339.95 S 1139.10 W	0.30	1758.43
8425.00	11.70	227.40	8187.93	1348.19 S 1148.05 W	0.00	1770.48

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1770.77 on azimuth 220.42 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 219.37 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Marathon Oil Company
Indian Hills Unit 38, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 4
Your ref : MWD
Last revised : 27-Jun-2003

NO PROPOSAL