

UNITED STATES
DEPARTMENT OF THE INTERIOR **OCD-ARTESIA**
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other						5. Lease Serial No. NM-06293			
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other <u>Drill to new bottom hole location</u>						6. If Indian, Allottee or Tribe Name			
2. Name of Operator Marathon Oil Company						7. Unit or CA Agreement Name and No. NM 70964 A INDIAN HILLS UNIT			
3. Address P.O. Box 3487 Houston, TX 77253-3487				3a. Phone No. (include area code) (713) 296-3546		8. Lease Name and Well No. INDIAN HILLS UNIT #49			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 705' FNL & 855' FEL UL, Sec 28, T-21-S, R-24-E NENE At top prod. interval reported below At total depth 2586' FNL & 1049' FEL, S28, T21S, R24E						9. API Well No. 30-015-32723 01 S1			
14. Date Spudded <i>This Completion</i> 09/14/2004		15. Date T.D. Reached <i>This Completion</i> 09/22/2004		16. Date Completed ☐ D & A ☒ Ready to Prod. 11/06/2004		17. Elevations (DF, RKB, RT, GL)* GL 3649'			
18. Total Depth: MD 8857' TVD 7613		19. Plug Back T.D.: MD N/A TVD N/A		20. Depth Bridge Plug Set: MD N/A TVD N/A					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) No Logs ran on second lateral						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 Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	9.625	36.0	0	1814		1325		0	
8.75	7.0	26.0	0	8178		1245		0	
4.75	n/a	n/a	7677	8857		open hole			
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"	7941'	INTAKE							
25. Producing Intervals					26. Perforation Record				
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
Upper Penn		7518	TD	7526-7816		23 GRAM	4 JSPF	PRODUCING	
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval		Amount and Type of Material							
7526-7816		21,000 GALS 15% HCL							
JAN 31 2006 ALEXIS C. SWOBODA PETROLEUM ENGINEER									
28. Production - Interval A									
Date First Produced 11/06/04	Test Date 11/12/04	Hours Tested 24	Test Production →	Oil BBL 26	Gas MCF 32	Water BBL 2269	Oil Gravity	Gas Gravity	Production Method Pumping
Choke Size N/A	Tbg. Press. Flwg. SI 280	Csg. Press. 210	24 Hr. →	Oil BBL 26	Gas MCF 32	Water BBL 2269	Gas: Oil Ratio 1.23	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	

28b. 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	

28c. 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.)

Sold

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
Upper Penn	7518	8857	Dolomite, Limestone & Shale	BONE SPRING LIME	5154
				TURB	6712
				WOLFCAMP	6851
				CISCO	7518
				CANYON	7654

32. Additional remarks (include plugging procedure):

Logs for the original completion are on file with BLM and NMCD. Directional survey for the lateral are attached.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
 ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ 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) Frank M. KrughTitle Reg. Comp. Rep. IIISignature Frank M. KrughDate 01/26/2006

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.

Indian Hills Unit No. 49
Re-perforate lower section of Upper Penn
Acidize re-perforated section

- 10/27/2004** **POOH w/ 109 stands 2 7/8" tubing, and 30 joints 2 7/8" AOH drill pipe. Laid down all pipe to pipe racks. PU 4 3/4" sandline drill bailer combination tool. RIH tagged CIBP (below open hole lateral) @ 7679'. Worked bailer to knock CIBP down to 8110' w/ solid tag. TOH w/ bailer. RIH w/ 20 stand killstring. SI**
- 10/28/2004** **POOH w/ killstring. RU 7 1/16" %M frac valve and Baker Atlas lubricator. Test lubricator to 1000 psi. RIH w/ gamma tool correlated to depth w/ HES OHL dated 05/08/2003. Tagged TD @ 8090'. Made 7 gun runs perforating f/ 7526' to 7816' w/ 3 3/8" slick guns firing 23g 311T charges @ 4JSPF. RD Baker Atlas. RD frac valve. RIH w/ 20 stand kill string.**
- 10/29/2004** **POOH w/ killstring. RU centralizer, 7" PPI packers w/ 2' spacing. RIH on 2 7/8" tubing. Hard tag @ 7671' bottom of window. POOH w/ frac assembly. Ordered tapered mills to dress off window. RU 6 1/8" watermelon mill w/ 2 -- 3 3/4" drill collars on 2 7/8" tubing. No tag at window. POOH w/ mill and assembly. RIH w/ 20 stand killstring.**
- 10/30/2004** **POOH w/ killstring. RIH w/ 6 1/8" mill, 1 - 4 3/4" drill collar, 6 1/8" watermelon mill, XO to 2 7/8" X 7" PPI packer w/ 2' tandem spacing, On 2 7/8" N-80 tubing to a depth of 7820'. This is below the window and below bottom set of perfs. Left BHA swinging at 7870'. SI**
- 10/31/2004** **Rig broke down, treating truck broke down. Reschedule for 11/01/04.**
- 11/01/2004** **Acidize well w/ 21,000 gals 15% CCA sour acid with PPI packers on 2' spacings w/ 150 GPF. Retrieve ICV and POOH w/ 29 stands. Pumped 50 bbls fresh water. SI**
- 11/02/2004** **POOH w/ 20 stands 2 7/8" tubing. SI due to weather.**
- 11/03/2004** **Blow well down & finished POOH w/ PPI packers, drill collar, and mills. PU and assemble FC 2200 w 215 hp motor and 5 1/2" shroud. RIH land bottom of pump @ 8002'. Land hangar in well head. Secure well and SI.**
- 11/04/2005** **Nipple down BOP, nipple up well head. Rig down PU.**

Marathon Oil Company
Indian Hills Unit #49

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 : ST MWD
Our ref : svy2597
License :

Date printed : 26-May-2005
Date created : 20-May-2004
Last revised : 22-Sep-2004

Field is centred on 445535.500,521332.200,-105.00000,N
Structure is centred on 449622.000,529566.600,-105.00000,N

Slot location is n32 27 20.826,w104 29 47.972
Slot Grid coordinates are N 529566.600, E 449622.000
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

Marathon Oil Company
Indian Hills Unit #49, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 1
Your ref : ST MWD
Last revised : 22-Sep-2004

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	G R I D Easting	C O O R D S Northing
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	449622.00	529566.60
100.00	0.16	240.10	100.00	0.07S	0.12W	0.16	0.08	449621.88	529566.53
200.00	0.16	240.04	200.00	0.21S	0.36W	0.00	0.24	449621.64	529566.39
300.00	0.03	180.97	300.00	0.30S	0.48W	0.15	0.35	449621.52	529566.30
400.00	0.01	52.83	400.00	0.33S	0.48W	0.04	0.37	449621.52	529566.27
500.00	0.18	307.11	500.00	0.23S	0.60W	0.18	0.28	449621.40	529566.37
600.00	0.22	71.40	600.00	0.07S	0.54W	0.35	0.12	449621.46	529566.53
700.00	0.37	78.06	700.00	0.06N	0.04W	0.15	-0.05	449621.96	529566.66
800.00	0.52	93.75	799.99	0.10N	0.73E	0.19	-0.16	449622.73	529566.70
900.00	0.63	97.98	899.99	0.01S	1.72E	0.12	-0.15	449623.72	529566.59
1000.00	0.52	92.34	999.98	0.11S	2.72E	0.12	-0.14	449624.72	529566.49
1100.00	0.49	100.30	1099.98	0.20S	3.60E	0.08	-0.13	449625.60	529566.40
1200.00	0.58	119.06	1199.98	0.52S	4.46E	0.20	0.12	449626.46	529566.08
1300.00	0.64	140.56	1299.97	1.20S	5.26E	0.24	0.72	449627.26	529565.40
1400.00	0.67	157.08	1399.96	2.17S	5.84E	0.19	1.63	449627.84	529564.43
1500.00	0.73	172.41	1499.96	3.34S	6.15E	0.20	2.77	449628.15	529563.26
1600.00	0.80	161.02	1599.95	4.63S	6.46E	0.17	4.03	449628.46	529561.97
1700.00	0.71	160.74	1699.94	5.88S	6.89E	0.09	5.23	449628.89	529560.72
1800.00	0.42	137.44	1799.93	6.73S	7.35E	0.36	6.04	449629.35	529559.87
1900.00	0.31	88.53	1899.93	6.99S	7.86E	0.32	6.25	449629.86	529559.61
2000.00	0.27	314.42	1999.93	6.82S	7.97E	0.53	6.07	449629.97	529559.78
2100.00	0.38	95.59	2099.93	6.69S	8.13E	0.61	5.93	449630.13	529559.91
2200.00	0.44	139.40	2199.93	7.01S	8.71E	0.31	6.20	449630.71	529559.59
2300.00	0.59	141.46	2299.93	7.71S	9.28E	0.15	6.84	449631.28	529558.89
2400.00	0.38	148.88	2399.92	8.39S	9.77E	0.22	7.47	449631.77	529558.21
2500.00	0.47	175.99	2499.92	9.09S	9.97E	0.22	8.15	449631.97	529557.51
2600.00	0.77	217.62	2599.91	10.03S	9.59E	0.52	9.12	449631.59	529556.57
2700.00	0.76	217.31	2699.90	11.09S	8.78E	0.01	10.25	449630.78	529555.51
2800.00	0.86	217.79	2799.89	12.21S	7.92E	0.10	11.44	449629.92	529554.39
2900.00	0.90	212.27	2899.88	13.47S	7.04E	0.09	12.77	449629.04	529553.13
3000.00	1.00	214.28	2999.87	14.85S	6.13E	0.11	14.24	449628.13	529551.75
3100.00	0.93	207.88	3099.85	16.29S	5.25E	0.13	15.75	449627.25	529550.31
3200.00	1.20	208.55	3199.84	17.93S	4.37E	0.27	17.46	449626.37	529548.67
3300.00	1.60	207.08	3299.81	20.09S	3.24E	0.40	19.71	449625.24	529546.51
3330.00	1.46	200.16	3329.80	20.82S	2.92E	0.77	20.47	449624.92	529545.78
3458.00	1.76	218.60	3457.75	23.89S	1.13E	0.46	23.69	449623.13	529542.71
3521.00	2.00	213.70	3520.71	25.56S	0.09W	0.46	25.46	449621.91	529541.04
3583.00	2.90	203.40	3582.66	27.90S	1.31W	1.61	27.90	449620.69	529538.70
3647.00	3.50	200.60	3646.56	31.21S	2.64W	0.97	31.32	449619.36	529535.39
3710.00	3.00	203.50	3709.45	34.52S	3.97W	0.84	34.74	449618.03	529532.08
3774.00	4.40	200.30	3773.32	38.36S	5.49W	2.21	38.70	449616.51	529528.24
3837.00	6.50	200.30	3836.03	43.98S	7.57W	3.33	44.48	449614.43	529522.62
3901.00	7.70	198.60	3899.54	51.44S	10.19W	1.90	52.15	449611.81	529515.16
3963.00	8.90	200.30	3960.89	59.87S	13.18W	1.98	60.82	449608.82	529506.73
4026.00	10.40	203.10	4023.00	69.67S	17.10W	2.49	70.94	449604.90	529496.93
4089.00	11.80	204.90	4084.82	80.75S	22.05W	2.29	82.41	449599.95	529485.85
4153.00	11.60	204.90	4147.49	92.52S	27.51W	0.31	94.63	449594.49	529474.08
4216.00	12.00	204.50	4209.15	104.22S	32.89W	0.65	106.78	449589.11	529462.38
4280.00	11.90	201.10	4271.77	116.43S	38.03W	1.11	119.40	449583.97	529450.17
4342.00	12.00	193.60	4332.43	128.66S	41.85W	2.51	131.93	449580.15	529437.94

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1891.22 on azimuth 185.90 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 185.20 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Marathon Oil Company
Indian Hills Unit #49, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 2
Your ref : ST MWD
Last revised : 22-Sep-2004

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	G R I D C O O R D S Easting Northing	
4404.00	12.10	183.40	4393.07	141.42S	43.75W	3.43	144.80	449578.25	529425.18
4468.00	12.70	179.60	4455.58	155.15S	44.10W	1.58	158.51	449577.90	529411.45
4531.00	12.50	173.60	4517.06	168.85S	43.29W	2.10	172.08	449578.71	529397.75
4594.00	13.30	170.40	4578.47	182.77S	41.32W	1.70	185.76	449580.68	529383.83
4658.00	12.00	165.50	4640.92	196.47S	38.43W	2.63	199.14	449583.57	529370.13
4721.00	10.80	164.80	4702.68	208.51S	35.24W	1.92	210.84	449586.76	529358.09
4785.00	11.10	166.20	4765.51	220.28S	32.20W	0.63	222.29	449589.80	529346.32
4848.00	11.30	167.20	4827.31	232.18S	29.38W	0.44	233.89	449592.62	529334.42
4912.00	12.00	165.90	4889.99	244.75S	26.37W	1.17	246.13	449595.63	529321.85
4976.00	12.00	165.50	4952.59	257.65S	23.09W	0.13	258.68	449598.91	529308.95
5039.00	11.80	165.90	5014.24	270.23S	19.88W	0.34	270.92	449602.12	529296.37
5103.00	11.80	165.50	5076.89	282.92S	16.64W	0.13	283.26	449605.36	529283.68
5167.00	12.30	165.50	5139.48	295.85S	13.30W	0.78	295.84	449608.70	529270.75
5230.00	11.90	166.20	5201.08	308.66S	10.07W	0.68	308.30	449611.93	529257.94
5294.00	11.90	164.40	5263.70	321.42S	6.72W	0.58	320.71	449615.28	529245.18
5357.00	12.10	163.70	5325.33	334.01S	3.12W	0.39	332.92	449618.88	529232.59
5420.00	12.50	163.40	5386.88	346.89S	0.68E	0.64	345.40	449622.68	529219.71
5483.00	12.60	161.90	5448.37	359.95S	4.76E	0.54	358.04	449626.76	529206.65
5546.00	12.30	162.70	5509.89	372.89S	8.89E	0.55	370.55	449630.89	529193.71
5610.00	12.00	162.00	5572.46	385.72S	12.98E	0.52	382.96	449634.98	529180.88
5672.00	12.20	162.30	5633.08	398.10S	16.96E	0.34	394.92	449638.96	529168.50
5735.00	12.20	163.80	5694.66	410.83S	20.84E	0.50	407.25	449642.84	529155.77
5798.00	12.00	164.80	5756.26	423.54S	24.42E	0.46	419.59	449646.42	529143.06
5859.00	12.00	164.80	5815.93	435.78S	27.74E	0.00	431.47	449649.74	529130.82
5922.00	13.20	162.70	5877.41	448.97S	31.60E	2.04	444.26	449653.60	529117.63
5985.00	13.10	162.70	5938.76	462.65S	35.86E	0.16	457.50	449657.86	529103.95
6049.00	12.50	162.70	6001.17	476.19S	40.08E	0.94	470.60	449662.08	529090.41
6114.00	12.30	164.10	6064.65	489.57S	44.06E	0.56	483.56	449666.06	529077.03
6178.00	12.60	164.50	6127.14	502.85S	47.80E	0.49	496.45	449669.80	529063.75
6241.00	12.40	165.20	6188.65	516.01S	51.36E	0.40	509.23	449673.36	529050.59
6303.00	11.40	166.20	6249.32	528.40S	54.52E	1.65	521.28	449676.52	529038.20
6367.00	11.40	165.20	6312.05	540.65S	57.65E	0.31	533.20	449679.65	529025.95
6430.00	11.70	163.40	6373.78	552.80S	61.06E	0.74	544.99	449683.06	529013.80
6493.00	11.80	161.30	6435.46	565.02S	64.95E	0.70	556.81	449686.95	529001.58
6556.00	10.90	164.40	6497.23	576.86S	68.62E	1.73	568.26	449690.62	528989.74
6620.00	10.90	167.90	6560.07	588.60S	71.52E	1.03	579.70	449693.52	528978.00
6682.00	11.60	169.70	6620.88	600.47S	73.86E	1.26	591.30	449695.86	528966.13
6746.00	12.10	170.10	6683.52	613.41S	76.16E	0.79	603.98	449698.16	528953.19
6809.00	12.70	169.00	6745.05	626.71S	78.62E	1.02	617.00	449700.62	528939.89
6873.00	12.10	163.00	6807.56	640.03S	81.92E	2.22	629.97	449703.92	528926.57
6936.00	11.20	158.50	6869.26	652.04S	86.10E	2.03	641.55	449708.10	528914.56
6999.00	9.90	159.50	6931.19	662.80S	90.24E	2.08	651.90	449712.24	528903.80
7062.00	9.20	165.90	6993.32	672.76S	93.36E	2.02	661.53	449715.36	528893.84
7125.00	9.20	170.10	7055.51	682.61S	95.45E	1.07	671.15	449717.45	528883.99
7188.00	9.90	167.60	7117.64	692.86S	97.48E	1.29	681.17	449719.48	528873.74
7251.00	11.10	168.30	7179.58	704.09S	99.87E	1.92	692.14	449721.87	528862.51
7315.00	11.80	169.00	7242.31	716.54S	102.37E	1.12	704.32	449724.37	528850.06
7379.00	11.90	169.00	7304.95	729.44S	104.88E	0.16	716.94	449726.88	528837.16
7442.00	12.00	171.10	7366.58	742.29S	107.13E	0.71	729.53	449729.13	528824.31
7506.00	11.30	172.20	7429.26	755.08S	109.01E	1.15	742.09	449731.01	528811.52

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1891.22 on azimuth 185.90 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 185.20 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Marathon Oil Company
Indian Hills Unit #49, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 3
Your ref : ST MWD
Last revised : 22-Sep-2004

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	G R I D Easting	C O O R D S Northing
7570.00	11.20	171.50	7492.03	767.44S	110.78E	0.26	754.24	449732.78
7633.00	12.50	170.10	7553.69	780.20S	112.86E	2.11	766.76	449734.86
7669.00	14.10	170.10	7588.72	788.36S	114.28E	4.44	774.76	449736.28
7682.00	18.50	175.00	7601.20	791.98S	114.74E	35.43	778.32	449736.74
7697.00	26.50	187.70	7615.05	797.68S	114.49E	62.12	784.02	449736.49
7714.00	35.20	193.30	7629.63	806.22S	112.86E	53.84	792.68	449734.86
7730.00	45.40	199.20	7641.83	816.12S	109.91E	68.01	802.80	449731.91
7740.00	50.80	202.00	7648.50	823.08S	107.29E	57.87	809.97	449729.29
7752.00	55.50	202.80	7655.70	831.96S	103.63E	39.53	819.14	449725.63
7762.00	58.30	205.10	7661.16	839.61S	100.23E	33.99	827.07	449722.23
7772.00	61.30	204.10	7666.19	847.47S	96.63E	31.22	835.22	449718.63
7783.00	64.30	204.10	7671.22	856.40S	92.63E	27.27	844.48	449714.63
7793.00	66.90	204.10	7675.35	864.71S	88.92E	26.00	853.09	449710.92
7803.00	69.50	202.20	7679.06	873.24S	85.27E	31.42	861.92	449707.27
7813.00	72.00	201.90	7682.36	881.99S	81.72E	25.16	870.96	449703.72
7823.00	74.50	200.50	7685.24	890.92S	78.26E	28.37	880.16	449700.26
7833.00	77.20	200.10	7687.68	900.02S	74.90E	27.28	889.52	449696.90
7843.00	80.20	199.80	7689.64	909.23S	71.55E	30.14	899.00	449693.55
7853.00	82.90	199.70	7691.11	918.54S	68.21E	27.02	908.58	449690.21
7866.00	85.40	197.50	7692.44	930.80S	64.09E	25.56	921.16	449686.09
7878.00	87.90	196.50	7693.14	942.25S	60.59E	22.43	932.88	449682.59
7888.00	89.60	195.10	7693.36	951.87S	57.86E	22.02	942.71	449679.86
7898.00	90.80	193.00	7693.32	961.57S	55.44E	24.19	952.59	449677.44
7910.00	92.90	189.60	7692.93	973.33S	53.09E	33.29	964.51	449675.09
7940.00	99.00	189.10	7689.82	1002.76S	48.24E	20.40	994.26	449670.24
7973.00	99.81	189.70	7684.43	1034.88S	42.92E	3.04	1026.73	449664.92
8004.00	96.40	190.30	7680.06	1065.10S	37.59E	11.17	1057.30	449659.59
8035.00	93.00	191.60	7677.52	1095.42S	31.73E	11.74	1088.04	449653.73
8067.00	93.60	189.10	7675.68	1126.85S	25.99E	8.02	1119.85	449647.99
8098.00	95.80	190.90	7673.14	1157.27S	20.62E	9.16	1150.64	449642.62
8129.00	94.80	193.00	7670.28	1187.47S	14.23E	7.48	1181.29	449636.23
8155.00	92.80	194.60	7668.55	1212.66S	8.04E	9.84	1206.94	449630.04
8186.00	92.50	194.50	7667.12	1242.63S	0.26E	1.02	1237.49	449622.26
8218.00	93.00	190.90	7665.58	1273.81S	6.76W	11.35	1269.18	449615.24
8249.00	91.80	192.80	7664.29	1304.12S	13.12W	7.24	1299.94	449608.88
8280.00	88.70	195.50	7664.15	1334.17S	20.70W	13.26	1330.56	449601.30
8311.00	88.90	194.70	7664.80	1364.09S	28.77W	2.66	1361.09	449593.23
8342.00	91.80	197.40	7664.61	1393.88S	37.34W	12.78	1391.53	449584.66
8374.00	93.80	199.60	7663.05	1424.19S	47.48W	9.28	1422.63	449574.52
8405.00	94.40	199.20	7660.83	1453.35S	57.75W	2.32	1452.60	449564.25
8436.00	95.60	201.40	7658.13	1482.31S	68.47W	8.06	1482.42	449553.53
8467.00	95.40	198.50	7655.16	1511.32S	78.99W	9.33	1512.26	449543.01
8500.00	95.70	198.70	7651.96	1542.45S	89.47W	1.09	1544.21	449532.53
8531.00	95.60	198.50	7648.91	1571.68S	99.31W	0.72	1574.22	449522.69
8563.00	96.10	197.90	7645.65	1601.92S	109.25W	2.43	1605.23	449512.75
8595.00	97.10	199.30	7641.97	1632.05S	119.39W	5.35	1636.15	449502.61
8626.00	97.70	198.70	7637.98	1661.12S	129.40W	2.73	1666.01	449492.60
8658.00	97.20	198.80	7633.83	1691.16S	139.60W	1.59	1696.86	449482.40
8689.00	96.30	198.20	7630.19	1720.36S	149.37W	3.48	1726.81	449472.63
8720.00	95.30	197.20	7627.05	1749.74S	158.74W	4.55	1756.92	449463.26

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1891.22 on azimuth 185.90 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 185.20 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Marathon Oil Company
Indian Hills Unit #49, slot #1
INDIAN BASIN, Eddy County New Mexico

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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	G R I D C O O R D S Easting	Northing
8750.00	95.60	196.20	7624.21	1778.34S	167.32W	3.47	1786.19	449454.68
8781.00	96.30	196.00	7620.99	1807.97S	175.87W	2.35	1816.46	449446.13
8814.00	96.20	193.70	7617.40	1839.67S	184.28W	6.93	1848.80	449437.72
8857.00	96.20	193.70	7612.76	1881.20S	194.40W	0.00	1891.08	449427.60

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1891.22 on azimuth 185.90 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 185.20 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
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				Comments in wellpath
				=====
MD	TVD	Rectangular Coords.		Comment

8857.00	7612.76	1881.20S	194.40W	Projection to TD

NO PROPOSAL