

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

N.M. Oil Cons. Division
811 S. 1st Street
Artesia, NM 88210-2834

5. Lease Serial No. *NM 67260*

6. Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or N
Indian Hills Unit

8. Well Name and No.
Indian Hills Unit 28

9. API Well No.
30-015-31267

10. Field and Pool, or Exploratory Area
Indian Basin U. Penn Assoc.

11. County or Parish, State
Eddy N.M.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Marathon Oil Company

3a. Address
P.O. Box 552 Midland, TX 79702

3b. Phone No. (include area code)
915-687-8357

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL @ Sec. 16, T-21-S, R-24-E 218' FSL & 660' FEL U.L. "P"
BHL @ Sec. 21, T-21-S, R-24-E 946' FNL & 1975' FEL U.L. "B"

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
- ☒ Subsequent Report
- ☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☐ Other _____ |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Please see attached Subsequent Report on Form 3160-5.

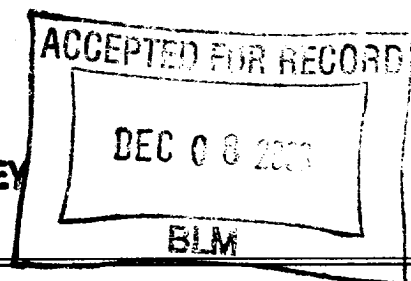
The SHL was drilled on State Trust Land and Directional BHL is in Federal Minerals.

Please reference attached C-102 for Bottom Hole Location Data.

Directional survey is attached identifying Penetration point and producing Area.

C-103 Form has been sent to the State and approved.

(ORIG. SGD.) GARY GOURLEY



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Jerry Fletcher

Title

Engineer Tech.

Date 12-01-00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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 # 28
SHL @ 218' FSL & 660' FEL U.L. "P"
Sec. 16, T-21-S, R-24-E
BHL @ 946' FNL & 1975' FEL
Sec. 21, T-21-S, R-24-E U.L. "B"
API # 30-015-31267
Eddy Co. N.M.

Drill and set 40' 20" conductor pipe cement to surface. Nipple up rotating head, P.U. BHA. Alert OCD @ 9:15 AM CST. Air drill f/ 72' to 1637'. Air mist drill f/ 1637' to 1804' w/ air. T.D. surface hole. R.U. csg. crew, ran 40 jts. 13-3/8" 54.50# csg. to 1784'. R.U. HES pump 10- bbls. Water spacer 100 sks. Diamond seal, 100 sks. Premium plus thix w/ 1% com. A .25% Com B 2% cacl₂, .5# Fo. And 5# gilsonite. Tailed with 300 sks. Premium Plus w/ 2% cacl₂. Circ. 60 sks. diamond seal and 20 sks. good cement to pit. WOC 18- hrs. Test csg, to 1000# OK. Drill out float and cement in shoe joint. Drill from 1804' to 3800'. Pick up MWD & BHA Orient motor slide drill 3800' to 7977'. Circ. And survey @ 7977'. TIH w/ new bit & new BHA. Drill from 7977' to 8052' w/ 60 bph loss. Drill f/ 8052' to 8870, pump 90 bbl sweep & circ. TOH w/ BHA, R.U Schlumberger run Platform Express w/ HRLA & NGT, FMI, from 8806 T.D. to surface. R.U. Rogers csg. crew, ran float shoe, 1-jt, float collar 32 jts. 9-5/8" csg, 43.50# L-80 and 9-5/8" 40# K-55. Set ECP-DV @ 7414-7427. Ran casing to 8870'. Cement casing in 2- stages. First stage: Pump 100000 scf N₂ 725 sks. Premium cmt. w/ 150 scf/ bbl and 1% Zone sealant. Set ECP w/ 3100#, dropped bomb, open D.V. tool. Circ. Nitrogen and 75 sks. cmt to pit. Second stage w/ 1360 sks. Interfill "C" w/ additives followed by 225 sks. Premium Class "H" cmt. Circ. 180 sks to pit. N.D. BOP, set csg. slips. W.O.C. 12- hrs. TIH w/ 8-1/2" bit, drill cmt and wiper plug. Pressur test casing to 1000# O.K. Washed/ drilled cmt. to float collar and circulated. T.O.H. w/ bit laying dn. Drill pipe. N.D. BOP stack, Release rig 311 @ 12:00 Noon 11/02/00.

MARATHON OIL COMPANY

Structure : Indian Hills Unit No

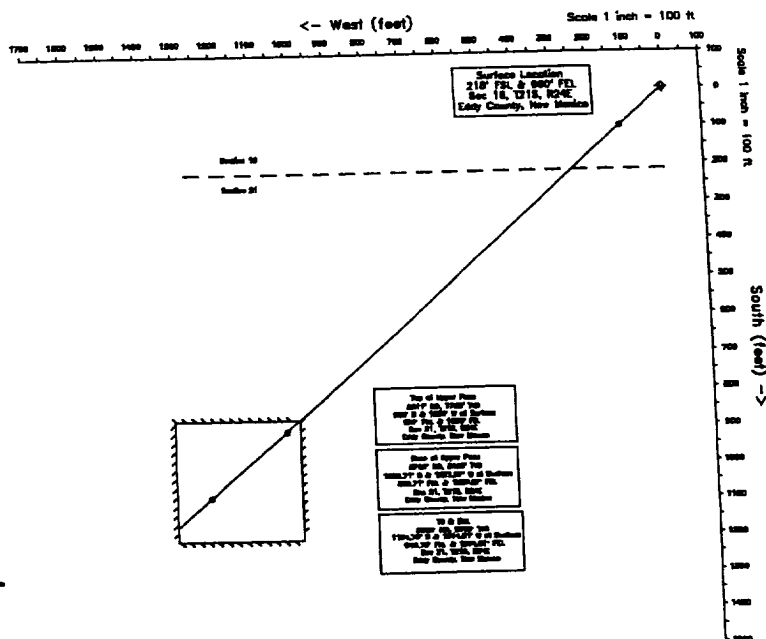
Slot : slot #1

Field : Indian Basin

Location : EDDY COUNTY, NM.

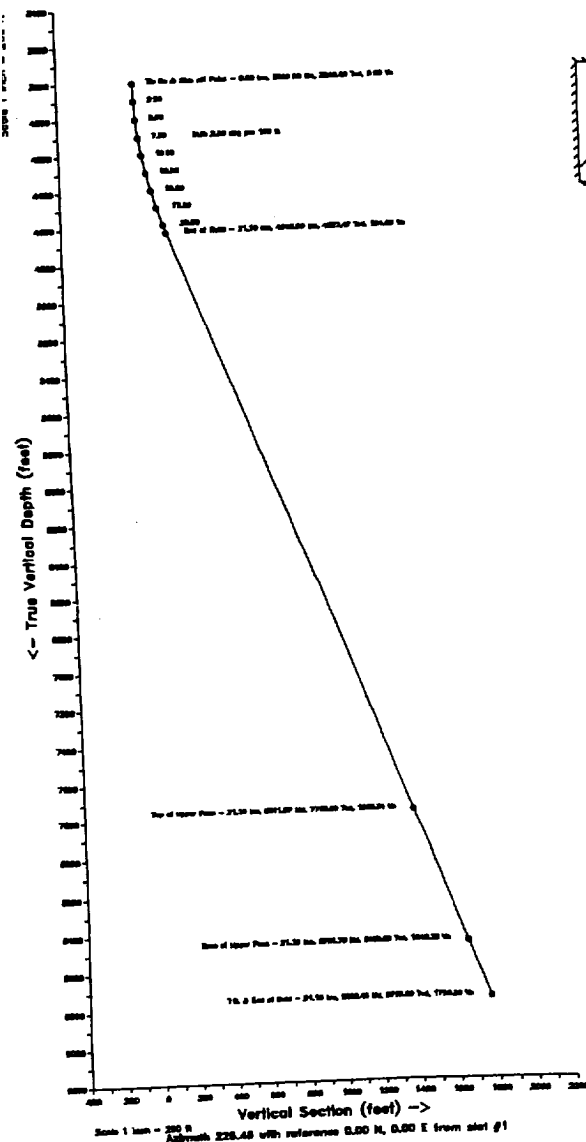
WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
KOP	3800.00	0.00	228.46	3800.00	0.00	0.00	0.00	0.00
End of Build	4646.59	21.16	228.46	4627.47	-102.51	-115.72	154.59	2.50
Target	8011.07	21.16	228.46	7785.00	-908.00	-1025.00	1369.34	0.00
End of Hold	8761.70	21.16	228.46	8465.00	-1087.71	-1227.87	1640.36	0.00
T.D. & End of Hold	9083.40	21.16	228.46	8765.00	-1164.73	-1314.81	1756.50	0.00



INTEQ

Created by: hnt
Date plotted: 29-Sep-2000
Plot Reference: 2 to Reg 100
Coordinates are in feet reference slot #1.
True Vertical Depths are referenced rotary hole.
Baker Hughes INTEQ



MARATHON OIL COMPANY
Indian Hills Unit No. 28

slot #1
Indian Basin
EDDY COUNTY, NM.

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

Your ref : 2.5 Deg BUR
Our ref : prop2531
License :

Date printed : 29-Sep-2000
Date created : 18-Jul-2000
Last revised : 29-Sep-2000

Field is centred on n32 30 0.000,w104 30 0
Structure is centred on n32 30 0.000,w104 30 0

Slot location is n32 30 0.000,w104 30 0.000
Slot Grid coordinates are N 545652.918, E 448616.515

Slot local coordinates are 0.00 N 0.00 E

Slot local coordinates are 0.00 N 0.00 E
Spheroid: Clarke - 1866

Projection type: mercator - New Mexico East (3001),
Reference North is True North

MARATHON OIL COMPANY
Indian Hills Unit No. 28, slot #1
Indian Basin, EDDY COUNTY, NM.

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
3800.00	0.00	228.46	3800.00	0.00 N	0.00	0.00
3900.00	2.50	228.46	3899.97	1.45 S	2.50	2.18
4000.00	5.00	228.46	3999.75	5.78 S	2.50	8.72
4100.00	7.50	228.46	4099.14	13.00 S	2.50	19.61
4200.00	10.00	228.46	4197.97	23.09 S	2.50	34.82
4300.00	12.50	228.46	4296.04	36.02 S	2.50	54.33
4400.00	15.00	228.46	4393.17	51.78 S	2.50	78.09
4500.00	17.50	228.46	4489.17	70.34 S	2.50	106.07
4600.00	20.00	228.46	4583.85	91.65 S	2.50	138.21
4646.59	21.16	228.46	4627.47	102.51 S	2.50	154.59
5000.00	21.16	228.46	4957.04	187.12 S	0.00	282.19
5500.00	21.16	228.46	5423.31	306.82 S	0.00	462.72
6000.00	21.16	228.46	5889.59	426.53 S	0.00	643.24
6500.00	21.16	228.46	6355.86	546.23 S	0.00	823.77
7000.00	21.16	228.46	6822.13	665.94 S	0.00	1004.29
7500.00	21.16	228.46	7288.40	785.64 S	0.00	1184.82
8000.00	21.16	228.46	7754.68	905.35 S	0.00	1365.34
8011.07	21.16	228.46	7765.00	908.00 S	0.00	1369.34
8500.00	21.16	228.46	8220.95	1025.06 S	0.00	1545.87
8761.70	21.16	228.46	8465.00	1087.71 S	0.00	1640.36
9000.00	21.16	228.46	8687.22	1144.76 S	0.00	1726.39
9083.40	21.16	228.46	8765.00	1164.73 S	0.00	1756.50

Top of Upper Penn
Base of Upper Penn

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1756.50 on azimuth 228.46 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 228.46 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

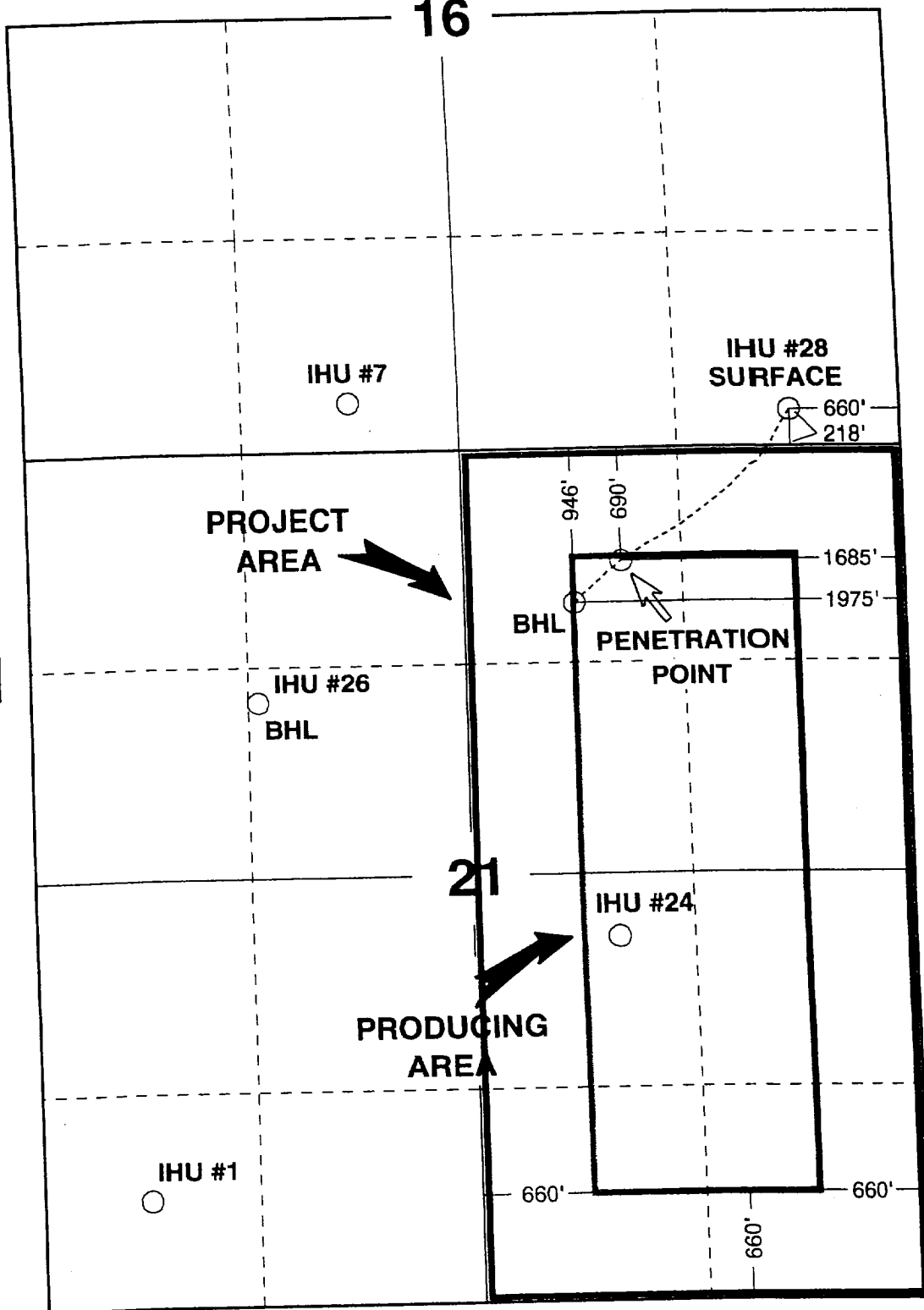
MARATHON OIL COMPANY
 Indian Hills Unit No. 28, slot #1
 Indian Basin, EDDY COUNTY, NM.

Comments in wellpath =====			
		Comment	
		=====	
MD	TVD	Rectangular Coords.	
8011.07	7765.00	908.00 S 1025.00 W	Top of Upper Penn
8761.70	8465.00	1087.71 S 1227.87 W	Base of Upper Penn
Targets associated with this wellpath			
=====			
		T.V.D.	Rectangular Coordinates
		=====	
Target name	Geographic Location	908.00S	1025.00W
		7765.00	18-Jul-2000

R 24 E

16

T
21
S



MARATHON OIL COMPANY
MID-CONTINENT REGION

INDIAN HILLS UNIT #28

EDDY COUNTY, NEW MEXICO

