Form 3160-5 (August 1999)

UNITED STATES

NMOCD

FORM APPROVED OMB NO. 1004-0135

	UREAU OF LAND MANA	GEMENT 1	3 (-10 /2)	Y . A	ovember 30, 2000
	NOTICES AND REPO	/ 🔊	A	5. Lease Serial No. NMNM07260	
Do not use thi	s form for proposals to			6. If Indian, Allottee of	r Tribe Name
abandoned we	ii. Use form 3160-3 (AP	D) for such propositis.	DECEINED "	o. II maian, Anottee o	1 THE Name
CUDAIT IN TO	PLICATE - Other instruc	tions on myores tills	ARIES	7. If Unit or CA/Agree	ement, Name and/or No
SUBMIT IN TRI	-LICATE - Ouier Ilistruc	anous on tenerse side. 00	D - ARTES	NMNM70964A	·
1. Type of Well		EL		8: Well Name and No.	
Oil Well Gas Well Oth			178 za 2013	SINDIAN HILLS UN	NII 8
2. Name of Operator MARATHON OIL COMPANY	Contact:	MIKE MICK E-Mail: mfmick@marathonoil.com	m	9. API Well No. 30-015-28590-0)0-S1
3a. Address P O BOX 3128		3b. Phone No. (include area code Ph: 713.629.6600 Ext; 325)	10. Field and Pool, or	Exploratory UPPER PENN ASS
HOUSTON, TX 77253		Fx: 713.499.6748	"	INDIAN BASIN	OFFER FEININ MOS
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description			11. County or Parish,	and State
Sec 33 T21S R24E SESW 11	82FSL 1545FWI		1	EDDY COUNTY	r. NM
	52. 62 10 10. 172		l		,
	·				
12. CHECK APPE	OPRIATE BOX(ES) TO	INDICATE NATURE OF 1	NOTICE, RE	PORT, OR OTHE	R DATA
TYPE OF SUBMISSION		TYPE O	F ACTION		
- Notice of Intent	☐ Acidize	Deepen Deepen	□ Production	on (Start/Resume)	☐ Water Shut-Off
Notice of Intent	Alter Casing	Fracture Treat	-		
Subsequent Report	Casing Repair	New Construction	Recomple	ete	Other Drilling Operation
Final Abandonment Notice	Change Plans	Plug and Abandon	☐ Temporar	rily Abandon	Drilling Operation
	Convert to Injection	Plug Back	Water Di	sposal	
13. Describe Proposed or Completed Ope			—		ximate duration thereof
If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved	ally or recomplete horizontally, rk will be performed or provide	give subsurface locations and measu the Bond No. on file with BLM/BLA	red and true vert N. Required subs	tical depths of all pertire sequent reports shall be	nent markers and zones. c filed within 30 days
testing has been completed. Final Ab determined that the site is ready for fi	andonment Notices shall be file	ed only after all requirements, include	ling reclamation,	have been completed,	and the operator has
Marathon Oil Co. intends to dr	ill a new horizontal latera	I to the same permitted produ	icing interval		
in the I.B.Upper Penn Assoc. premium cement. Will cut a wi	Marathon will plug off cu	rrent producing interval w/ 20	0 sks. of a 4-3/4" hole t	·n	
a new TL of 683' FSL & 2606' drilling fluids. The completion	FWL. Marathon will use a	a mixture of produced water a	ind fresh water	er as	
APPROVAL SUBJ	ECT TO				
GENERAL REQUI					
	ATIONS ATTACHED	i			
ofeuial otipuli	THOMS AT TACHED	NSL			
		14,7			
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #	32861 verified by the BLM Weil	Information S	System	

For MARATHON OIL COMPANY, sent to the Carlsbad Committed to AFMSS for processing by ARMANDO LOPEZ on 07/12/2004 (04AL0254SE) Name (Printed/Typed) MIKE MICK Title **AUTHORIZED REPRESENTATIVE** Signature (Electronic Submission) Date 07/09/2004 THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved By ALEXIS C SWOBODA (1) TitlePETROLEUM ENGINEER Date 07/12/2(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.

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.

Office Carlsbad

DISTRICT I P.A. Sex 1065, Seides, 104 65944-8590

State of New Mexico

Harry. Marrie and Princel Supercon Department

Parm. C-102 Restred Polymany 10, 1984 Submit to Appropriate District Office
State Losser - 4 Copies

DISTRICT II P.D. Dresser SD, Artsula, EM 6521.1-0715

OIL CONSERVATION DIVISION P.O. Box 2088

Pas Louse - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aston, NM 67410 Santa Fe, New Mexico 87504-2058

DISTRICT IV P.O. DOZ BAND. GASTA RE, S.M. 67804-6000

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Rumber	Fool Code	Peel Name			
Property Code		HILLS UNIT	Vell Humber		
OGRID Xo.	_	otar Masse DIL COMPANY	#Investion 4090'		

Surface Location

i	CL or let No.	Sootien	Tomakib	Benge	Let Ma	Post from the	North/South line	Post from the	Best/West line	County
	14	33	21-S	24-E		1182'	SOUTH	1545'	WEST	EDDY

Bottom Hole Location if Different From Surface

GL or lot No.	Section.	Township	Reage	Lot Man	Post from the	North/South line	Post from the	Bast/West Mass	County
14	33	21-5	24-E		683'	SOUTH	26061	WEST	EDDY
Dedicated acres John or Infile Commidation Code					far No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BERN APPROVED BY THE DIVISION

	AN W LAIL OTWIL	DARD UNIT HAS BEEN		IND PITISIVE
LOT 4 42.16 AC	LOT 3 42.38 AC	LOT 2 42.59 AC	LOT 1 42.81 AC	OPERATOR CERTIFICATION / hereby enrely the the information continued herein in free and complete to the best of my investige and belts;
	107.6	10r 7	OFFICE AND ADDRESS	Signature
LOT 5 42.29 AC	42.51 AC GEODETIC CO NAD 27	42.72 AC DORDINATES NIME	LOT 8 42.94 AC	Printed Page
	SUR Y=52075 X=44637	50.9 N		Title
	LAT.=32°25° LONG.=104°3	0'25.67" W		SURVEYOR CERTIFICATION
LDT 12 42.49 AC	1.07 11 42.84 AC	LOT 10 42.85 AC	LOT 9 43.07 AC	I havely certify that the well location shows on this plat was plotted from field notes of asfust surveys much by me or under my supervison, and that the same is true and correct to the best of my being!
4091.D*	4004.5'			JUNE 13, 1995
1545	\$50.AZ.=	115.46°	nel/Politica cologicalistica estimativo con	Date Surveyed REV: 07/02/04 JR Signature & Seal of Professional Surveyor
3684.6 ⁷	069	B.H. Y=520251.0 N		04.13.0832
		X±447427.3 €		Cartificate No. GARY EDSCH 12841
LOT 13 42.55 AC	LOT 14 42.77 AC	LOT 15 42.98 AC	LOT 16 43.20 AC	

Marathon Oil Company IHU 8

slot #1 Indian Basin EDDY COUNTY, NM.

PROPOSAL LISTING

by Baker Hughes INTEQ

Your ref : Pln 1 Our ref : prop4298

License :

Date printed : 30-Jun-2004 Date created : 28-Jun-2004 Last revised : 28-Jun-2004

Field is centred on n32 30 0.000,w104 30 0 Structure is centred on 446536.000,520751.100,999.00000,N

Slot location is n32 25 53.540,w104 30 23.822 Slot Grid coordinates are N 520751.100, E 446536.000 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 IHU 8,slot #1 Indian Basin,EDDY COUNTY, NM.

PROPOSAL LISTING Page 1 Your ref : Pln 1 Last revised : 28-Jun-2004

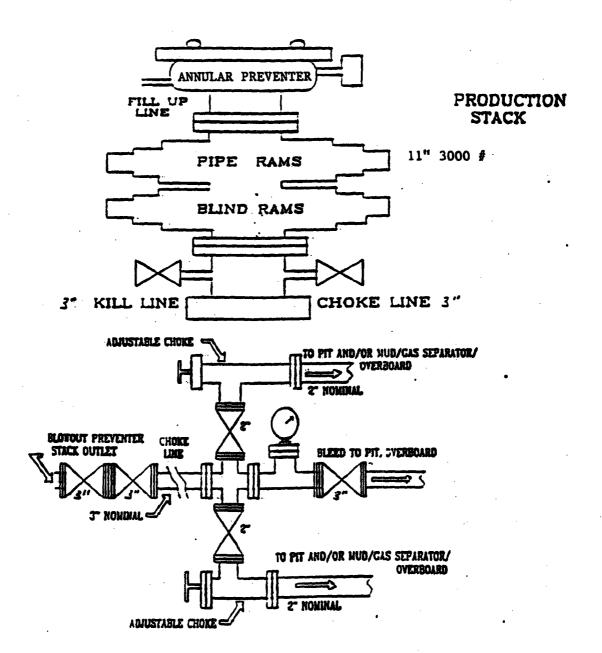
Measured Depth	Inclin Degrees	Azimuth Degrees		RECTANO COORDII		Dogleg Deg/100f	Vert t Sect	GRID C Easting	O O R D S Northing
0.00	0.00	115.46	0.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
500.00	0.00	115.46	500.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
1000.00	0.00	115.46	1000.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
1500.00	0.00	115.46	1500.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
2000.00	0.00	115.46	2000.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
2500.00	0.00	115.46	2500.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
3000.00	0.00	115.46	3000.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
3500.00	0.00	115.46	3500.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
4000.00	0.00	115.46	4000.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
4500.00	0.00	115.46	4500.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
5000.00	0.00	115.46	5000.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
5500.00	0.00	115.46	5500.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
6000.00	0.00	115.46	6000.00	0.0011	0.00E	0.00	0.00	446536.00	520751.10
6500.00	0.00	115.46	6500.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
7000.00	0.00	115.46	7000.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
7500.00	0.00	115.46	7500.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
8000.00	0.00	115.46	8000.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
8050.00	0.00	115.46	8050.00	0.00N	0.00E	0.00	0.00	446536.00	520751.10
8100.00	28.60	115.46	8097.95	5.25\$	11.03E	57.20	12.22	446547.03	520745.85
8200.00	85.80	115.46	8149.90	39.91S	83.81E	57.20	92.83	446619.81	520711.19
8213.02		115.46	8150.01	45.51S	95.56E	57.20	105.84	446631.56	520705.59
8500.00	93.25	115.46	8133.74	168.69S	354.25E	0.00	392.36	446890.25	520582.41
9000.00	93.25	115.46	8105.41	383.31S	804.95E	0.00	891.56	447340.95	520367.79
9271.85	93.25	115.46	8090.00	500.00S	1050.00E	0.00	1162.97	447586.00	520251.10

Marathon Oil Company IHU 8,slot #1 Indian Basin, EDDY COUNTY, NM. PROPOSAL LISTING Page 2 Your ref : Pln 1 Last revised : 28-Jun-2004

Targets associated with this wellpath

========	 	

Target name	Geographic Location	T.V.D.	_	Coordinates	Revised	
BHL		8090.00	24401.82N		28-Jun-2004	
EOC		8150.00	24856.32N	2176.07E	28-Jun-2004	



MARATHON OIL COMPANY

H2S DRILLING OPERATIONS PLAN

HYDROGEN SULFIDE TRAINING

All contractors and subcontractors employed by Marathon Oil Company will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

- 1. The hazards and characteristics of hydrogen sulfide (H2S)
- 2. Safety precautions
- 3. Operations of safety equipment and life support systems

In addition, contractor supervisory personnel will be trained or prepared in the following areas:

- 1. The effect of H2S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
- 3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

II. H2S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location.

- A. Wind direction indicators.
- B. Automatic H2S detection alarm equipment (both audio and visual).

- C. Clearly visible warning signs. Signs will use the words "POISON GAS' and "CAUTION" with a strong color contrast.
- D. Protective breathing equipment will be located in the dog house and at briefing areas.

2. WELL CONTROL SYSTEMS

A. Blowout Prevention Equipment

Equipment includes but is not limited to:

- a. pipe rams to accommodate all pipe sizes
- b. blind rams
- c. choke manifold
- d. closing unit

Auxiliary equipment added as appropriate includes:

- a. annular preventor
- b. rotating head
- c. mud- gas separator
- d. flare line and means of ignition _____ e. remote operated choke

B. Communication

The rig contractor will be required to have two-way communication capability. Marathon Oil Company will have either land-line or mobile telephone capabilities.

C. Mud Program

The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers when appropriate will minimize hazards when penetrating H2S bearing zones.

III. WELL SITE DIAGRAM

CONDITIONS OF APPROVAL - DRILLING

Operator's Name:

Marathon Oil Company

Well Name & No.

Indian Hills Unit #8 - PLUG BACK AND SIDE TRACK

SH Location:

1182' FSL, 1545' FWL, Section 33, T. 21 S., R. 24 E., Eddy County, New Mexico Proposed BH Location: 683' FSL, 2606' FWL, Section 33, T. 21 S., R. 24 E., Eddy County, New Mexico

Lease:

NM-07260 (BHL)

I. DRILLING OPERATIONS REQUIREMENTS:

- 1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:
 - A. Well spud
 - B. Cementing casing: 9-5/8 inch 7 inch ALL CASINGS IN PLACE
 - C. BOP tests
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15-day time frame.
- 4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

II. CASING:

- 1. The 9-5/8 inch surface casing is set at 2096 and cement circulated to the surface.
- 2. The 7 inch production casing is set at 8360 feet and cement circulated to the surface.
- 3. Well bore will be plugged back with 200 sx cement. A window will be cut in the existing 7" casing at approximately 8100' MD and a 4-3/4" hole will be drilled to the proposed bottom hole location.
- 4. Well will be completed open hole.

III. PRESSURE CONTROL:

- All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 9-5/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 3000 psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.