

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Div. Dist. 2
SUBMIT IN TRIPlicate
1301 W. Garland Avenue
Artesia, NM 88210
FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS AND TELEPHONE NO.

P.O. Box 552 Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

U.L. "D" Section 29, T-21-S, R-24-E 710' FNL & 784' FNL

At proposed prod. zone

Same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15 miles NW of Carlsbad

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any) 710' FNL

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT. *1641'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED TO THIS WELL

320

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

G.L. 3709'

22. APPROX. DATE WORK WILL START*

ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

CARLSBAD CONTROLLED WATER BASIN

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12.25"	9-5/8" K-55	36#	1200'	440 sks. WITNESS
8.750"	7" K-55	23#/ 26#	8500'	1280 sks.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

Marathon Oil Company is proposing to drill a straight hole Upper Penn. Assoc.
This well is a Standard Location.

* Distance to nearest well: The IHU # 3 is approx. 1641' Southeast of the proposed
IHU # 46.

NOTE: This well was previously approved by the BLM and the permit was allowed
to Expire as of May 8th 2003.

Could you please expedite this APD to allow for a continuous drilling program?

H2S Contingency Plan for OCD on File

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Joe G. Lara

TITLE

Engineer Tech.

DATE 8/14/03

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval 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.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

/s/ Joe G. Lara

ACTING

FIELD MANAGER

TITLE

DATE

18 SEP 2003

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, 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.

APPROVAL FOR 1 YEAR

ISTRICT I
D. Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

ISTRICT II
D. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

ISTRICT III
400 Rio Brazos Rd., Aztec, NM 87410

ISTRICT IV
D. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 33635	Indian Basin Upper Penn. Assoc.
Property Code	Property Name INDIAN HILLS UNIT	Well Number 46
GRID No. 14021	Operator Name MARATHON OIL COMPANY	Elevation 3711'

Surface Location

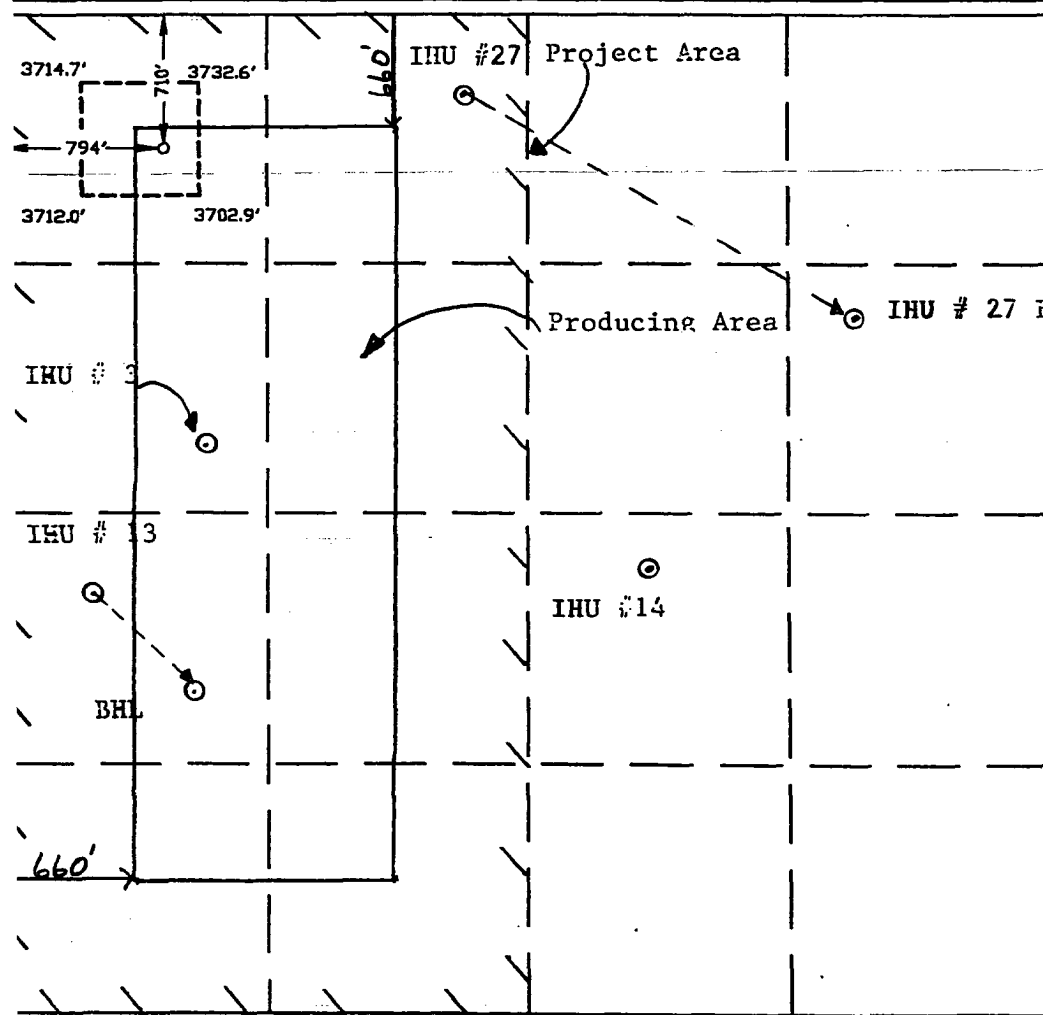
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	29	21-S	24-E		710	NORTH	794	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

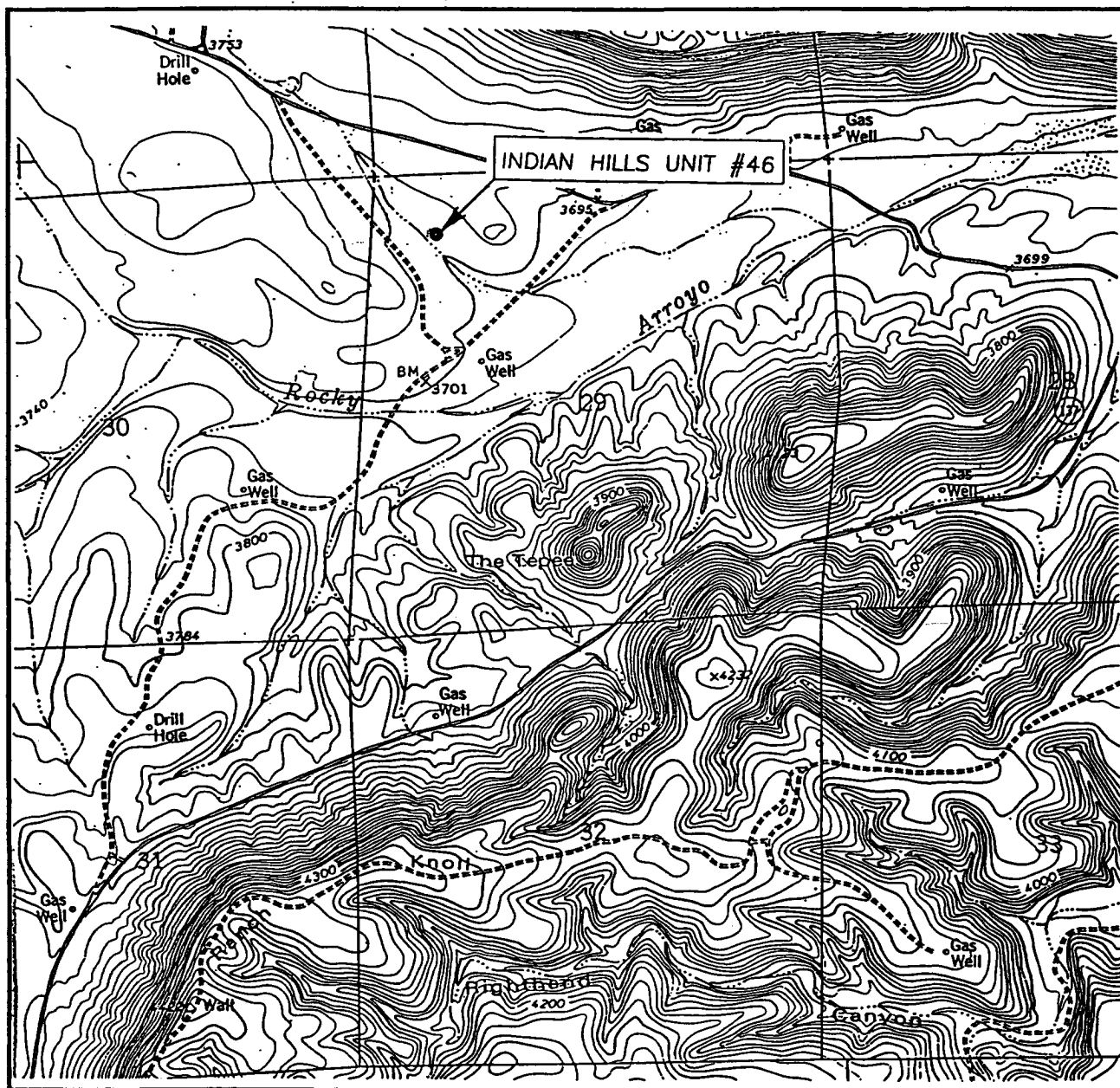
Dedicated Acres 320 W/2	Joint or Infill	Consolidation Code	Order No.
----------------------------	-----------------	--------------------	-----------

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



OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Jerry Fletcher Printed Name Engineer Tech. Title 4/02/02 Date
SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MARCH 25, 2002 Date Surveyed Signature of J. EIDSON Professional Surveyor Professional Surveyor Signature of J. EIDSON Professional Surveyor Certificate No. RONALD J. EIDSON 3239 CARY EIDSON 12841

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 20'
MARTHA CREEK, N.M.

SEC. 29 TWP. 21-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 710' FNL 794' FWL

ELEVATION 3711'

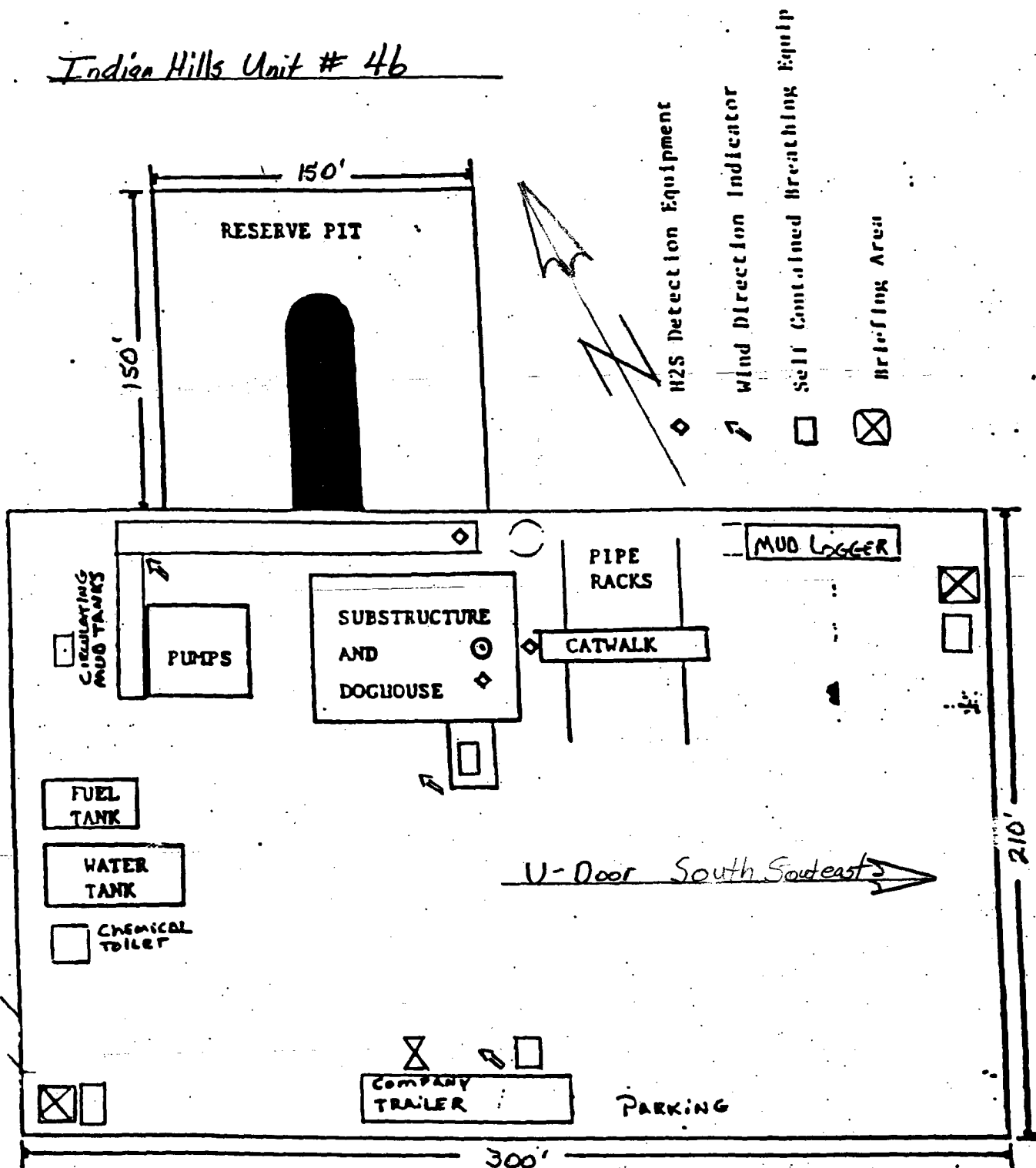
OPERATOR MARATHON OIL COMPANY

LEASE INDIAN HILLS UNIT

U.S.G.S. TOPOGRAPHIC MAP
MARTHA CREEK, N.M.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

Indian Hills Unit # 46



Prevailing Wind Direction
Southwest

Foot-path for emergency
egress

**DRILLING PROGRAM
MARATHON OIL COMPANY
INDIAN HILLS UNIT #46**

1. Estimated KB Elevation: 3725' KB Ground Elevation 3709'

<u>FORMATION</u>	<u>-----TOP-----</u>		<u>-----BASE-----</u>		<u>FLUID CONTENT</u>
	<u>MEASURED</u>	<u>SUBSEA</u>	<u>MEASURED</u>	<u>SUBSEA</u>	
Queen	Surface	+3725'	650'	+3075'	water
San Andres	650'	+3075'	2250'	+1475'	water
Glorietta	2250'	+1475'	2355'	+1375'	
Delaware	3300'	+425'	4300'	- 575'	
Bone Spring	4300'	-575'	5950'	-2225'	oil gas
Wolfcamp	5950'	-2225'	7520'	-3795'	oil gas
B/Permian Shale	7520'	-3795'	7550'	-3825'	
U. Penn	7550'	-3805'	8385'	-4775'	gas, oil, water
T.D.	8385'	-5875'	8500'	-5875'	

<u>FORMATION</u>	<u>---EST PSIG</u>	<u>SBHP--- PPG EMW</u>	<u>EST DEG f</u>	<u>SBHT PPM</u>	<u>H2S</u>	<u>---SIGNIFICANCE--- (obj, marker, etc.)</u>
Bone Springs	1210	8.5		500		marker
Wolfcamp	1680	9.0				marker
B/Permian Shale	1810	9.0				marker
U. Penn	2050	9.0		5000		objective pay

2. See (1) above.
If any unexpected water or mineral bearing zones are encountered, they will be reported, evaluated, and protected as circumstances and regulations require.

3. **Pressure Control Equipment:**

9-5/8" Surface: 11 3M annular tested to 300 PSI / 3000PSI , 11" 3M Dual rams, choke manifold and mud cross, tested to 300 PSI/3000 PSI.

Auxiliary Equipment:

Surface Hole: Annular or rotating head w/air rig.

Intermediate Hole: N/A

Production Hole: Flow indicator, PVT, H₂S Sensors, air packs, stroke counter, rotating head.

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and tested prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs.

Upper and lower kelly cocks with valve wrench and safety valve and subs to fit all drill string connections in use will be available on rig floor.

A. P. D. (cont.)
Thirteen Point Surface Use Plan
Indian Hills Unit # 46

Test Frequency

1. When installed.
2. Anytime a pressure seal is broken (test confined only to affected equipment).
3. At least every 20 days.
4. Blind and pipe rams shall be activated each trip but not more than once/day.

4. Casing and Cement Program:

---DEPTH---		SECTION	HOLE	CSG	WT.		THREADS	NEW
FROM	TO	LENGTH	SIZE	SIZE	PPF	GRADE	COUPLINGS	USED
0	1200'	1200'	12.25"	9-5/8"	36.00#	K-55	8rd, STC	New
0	4800'	4800'	8.750"	7.00"	23.00#	K-55	8rd, LT&C	New
4800'	8500'	3700'	8.750"	7.00"	26.00#	K-55	8rd, LT&C	New

Casing String	DV Depth	Stg.	Lead Tail	Amt SXS	Type Cement	Yield CF/SX	Wt. PPG.	TOC	Additives
---------------	----------	------	-----------	---------	-------------	-------------	----------	-----	-----------

9.625" none 1 L 300 Foam Cmt. 1.78 11.2 100'

9.625" none T 140 "C Neat 1.35 14.8 960' 3% Cacl

NOTE: Pump 75 sks. Class "C" dn. Annulus W/ 3% CACL2, Yield: 1.35cf/sk, Density 14.8 ppg coverage, Surface To 100'.

7.0" 1 L 340 Prem. 1.44 13.0 5800' Foamers, N2

7.0" 1 T 100 Super "H" 1.32 14.8 6300' 1-pps salt, 5ppsgilsonite

7.0" 2 L 840 Interfill "C" 2.47 11.9 7800' 1/4pps Cello, 3pps Gilsonite, 0.2% Halad 322

7.0 2 T 100 "C" Neat 1.32 14.8 Surface N/A

A. P. D. (cont.)
Thirteen Point Surface Use Plan
Indian Hills Unit # 46

Each stage will be preceded by an appropriate mud flush. Actual production hole volumes will be based on the caliper volume plus 25% excess.

5. Mud Program

<u>---DEPTH---</u>		<u>WEIGHT</u>		<u>WL</u>		<u>ADDITIVES</u>	<u>VISUAL MONTR.</u>
<u>FROM</u>	<u>TO</u>	<u>MUD TYPE</u>	<u>(PPG)</u>	<u>VIS</u>	<u>CC</u>		
0	1200'	air	8.3	28	N/A		Reserve
1200'	5000'	fresh	8.5	28-32	N/C	Gel, caustic, H ₂ S Scavenger	Reserve
5000'	7000'	fresh	8.9	32-36	N/C	Gel, caustic, H ₂ S Scavenger	Reserve
7000'	8500'	Cut brine	8.9	32-36	<20	Gel, caustic, H ₂ S Scavenger	Steel Pits

Sufficient quantities of additives will be on location to maintain above mud properties for any anticipated well conditions.

6. Logging, Testing & Coring Programs:

<u>LOG/TEST/CORE/MUDLOG/OTHER</u>	<u>--INTERVAL--</u>		<u>REMARKS</u>
	<u>FROM</u>	<u>TO</u>	
DLL/MSFL/GR/CNL/LDT/CAL	TD	5000'	
LDT/CNL/GR/CAL	TD	surf casing	
MUD LOGGER	6000'	TD	ROP, Lithology, Gas Analysis, Chromatograph
NO CORES OR DST'S			

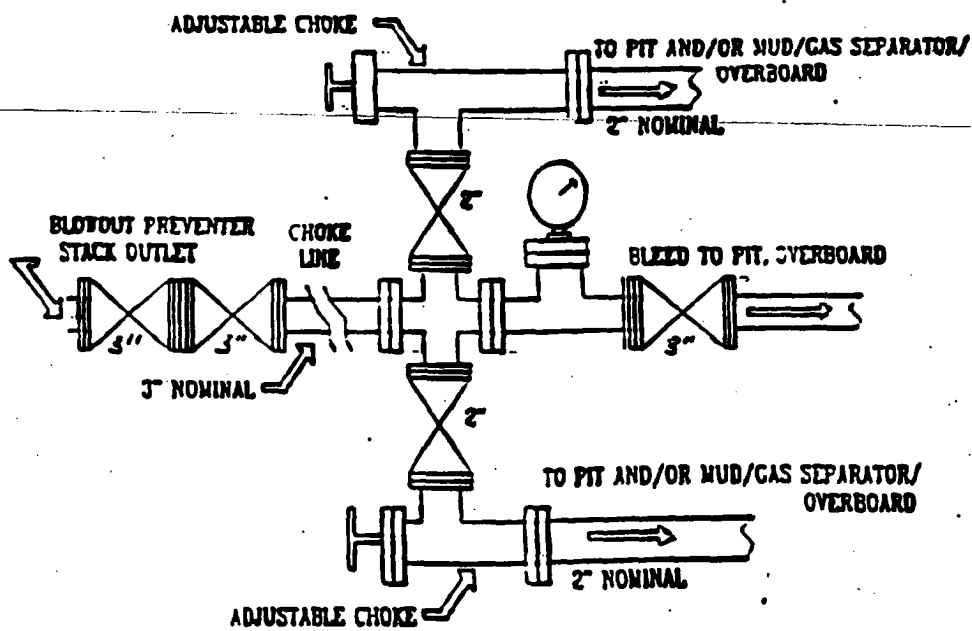
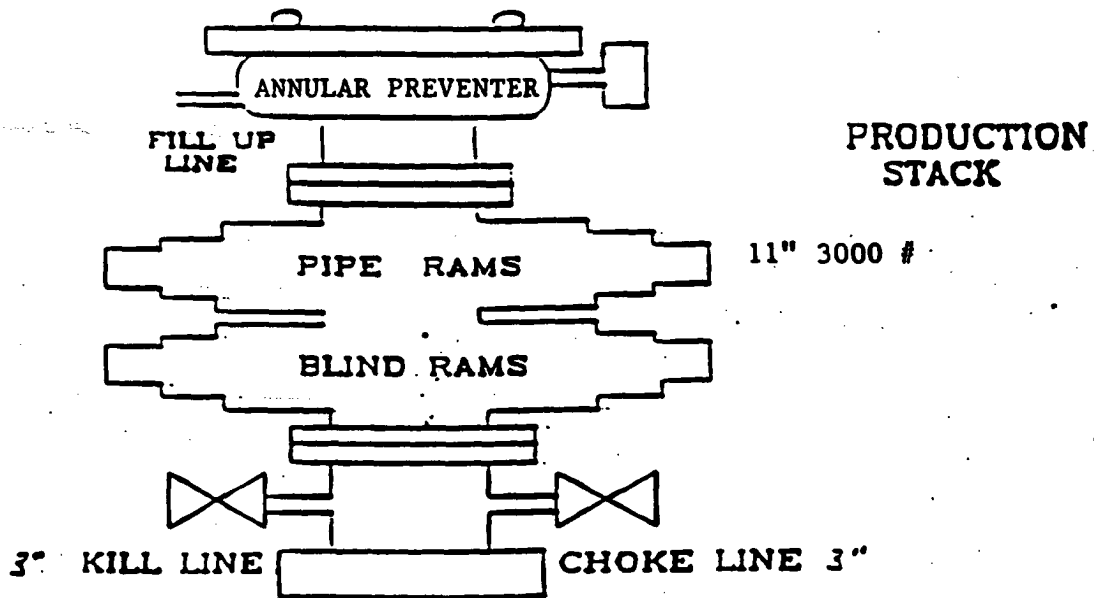
7. Abnormal Pressures, Temperatures or Potential Hazards:

None anticipated. Possible H₂S in Cisco & Upper Penn. See H₂S Drilling Operations Plan.

8. Other Information:

Anticipated Starting Date: As soon as possible.

Duration of Well: drilling - 16 days, completion - 7 days.



MARATHON OIL COMPANY

H2S DRILLING OPERATIONS PLAN

I. 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.**
- 2. 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 as seen in attached diagram.**
- B. Automatic H2S detection alarm equipment (both audio and visual).**
- C. Clearly visible warning signs as seen on the attached diagram. 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 as seen in the attached diagram.**

2. WELL CONTROL SYSTEMS

A. Blowout Prevention Equipment

Equipment includes but is not limited to:

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

Auxillary 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.

D. Drill Stem Test intervals are as follows:

DST No. 1	_____	ft. to	_____	ft.
DST No. 2	_____	ft. to	_____	ft.
DST No. 3	_____	ft. to	_____	ft.

Drill Stem Testing Safety Rules are attached.

III. WELL SITE DIAGRAM

A complete well site diagram including the following information is attached.

1. Rig orientation
2. Terrain
3. Briefing areas
4. Ingress and egress
5. Pits and flare lines
6. Caution and danger signs
7. Wind indicators and prevailing wind direction

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Marathon Oil Company
Well Name & No. Indian Hills Unit # 46
Location: 710 660' FNL, 674' FWL, Section 29, T. 21 S., R. 24 E., Eddy County, New Mexico
Lease: NMLC-064391-B 794 RW SN (BIF)

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) 234-5972 for wells in Eddy County in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: 9-5/8 inch 7 inch

C. BOP tests

2. A Hydrogen Sulfide (H₂S) Drilling Operation Contingency Plan shall be activated prior to drilling into the Upper Penn formation. A copy of the plan shall be posted at the drilling site.

3. 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.

4. 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.

5. 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 shall be set at approximately 1200 feet and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the 7 inch production casing is to be sufficient to reach at least 500 feet above the top of the uppermost potential pay.

III. PRESSURE CONTROL:

1. 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.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- Recording pit level indicator to indicate volume gains and losses.
- Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
- Flow-sensor on the flow-line to warn of abnormal mud returns from the well.

2/15/2002

acs

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.

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 79702-0552

3b. Phone No. (include area code)

(915) 682-1626

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

Section 29, Township 21 South, Range 24 East, N.M.P.M.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

IHU # 46

9. API Well No.

10. Field and Pool, or Exploratory Area
Indian Basin

11. County or Parish, State

Eddy County, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomple 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 recomple 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 site is ready for final inspection.)

IHU #46, Sec. 29, T-21-S, R-24-E, Installation of Flowlines and Electrical Powerlines

Marathon Oil Company proposes to install the two flowlines and powerline to IHU #46 located in Section 29, T-21-S, R-24-E. The flowlines will consist of two 4" lines constructed of Schedule 40, Grade B, welded steel line, and hydrotested to the maximum allowable working pressure. The one 4" line will be rated for 5 MMSCFD of gas and the other 4 inch line will be rated for 2,000 BWPD and 10 BOPD. The operating pressure for both lines will be in the range of 150 to 250 psig and will follow existing ROW corridors. It is proposed to install the lines on the surface to minimize surface disturbance. The distances for both lines will be approximately 1830' from the wellhead to Production Station 129 as indicated on attached John West Survey Plant WO # 02.11.0224 (Pipeline).

The proposed construction and installation of the overhead power line will be a three phase 7.2/11.47 KV power line installed to REA specifications using 30'-40' poles, total length of 35' and tied in to existing power lines as shown on the attached plat John West Survey WO #02.11.0081 (Electrical Line)

An archaeological survey for the route has been completed by Archaeological Survey Consultants.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Roger D. Edelbrock P.E.

Title Senior Construction Engineer

Signature

Roger D. Edelbrock

Date August 13, 2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

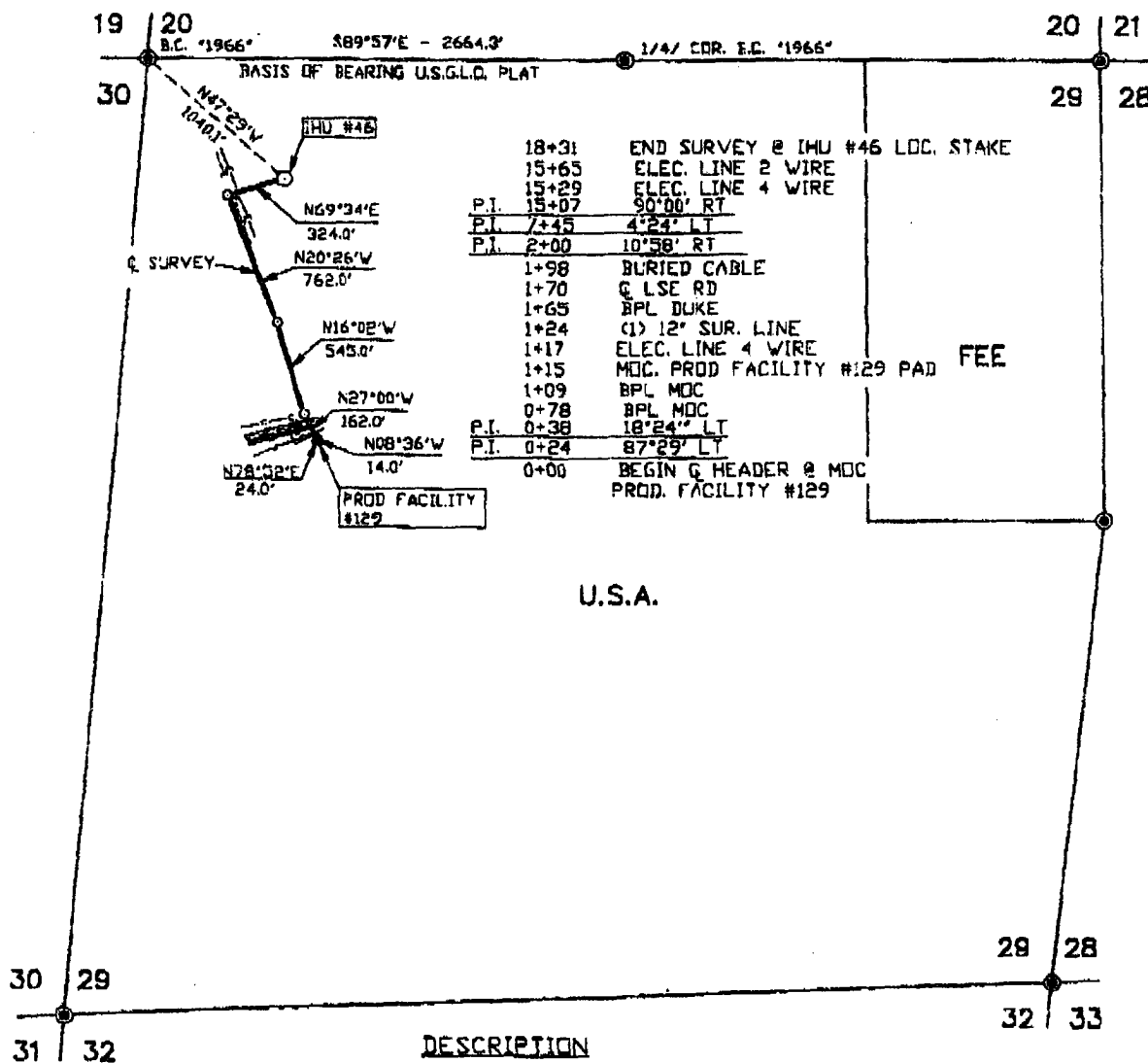
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

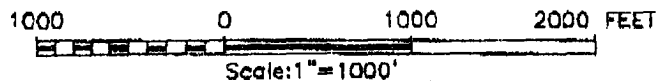
Date

Office

SECTION 29, TOWNSHIP 21 SOUTH, RANGE 24 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



A STRIP OF LAND 50.0 FEET WIDE AND 1831.0 FEET OR 0.347 MILES IN LENGTH CROSSING U.S.A. LAND IN SECTION 29, TOWNSHIP 21 SOUTH, RANGE 24 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 25.0 FEET RIGHT AND 25.0 FEET LEFT OF THE ABOVE SHOWN CENTERLINE SURVEY.



I HEREBY CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY. THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

RONALD J. EIDSON
4/01/02

RONALD J. EIDSON, N.M. P.S. No. 3238
GARY G. EIDSON, N.M. P.S. No. 12841

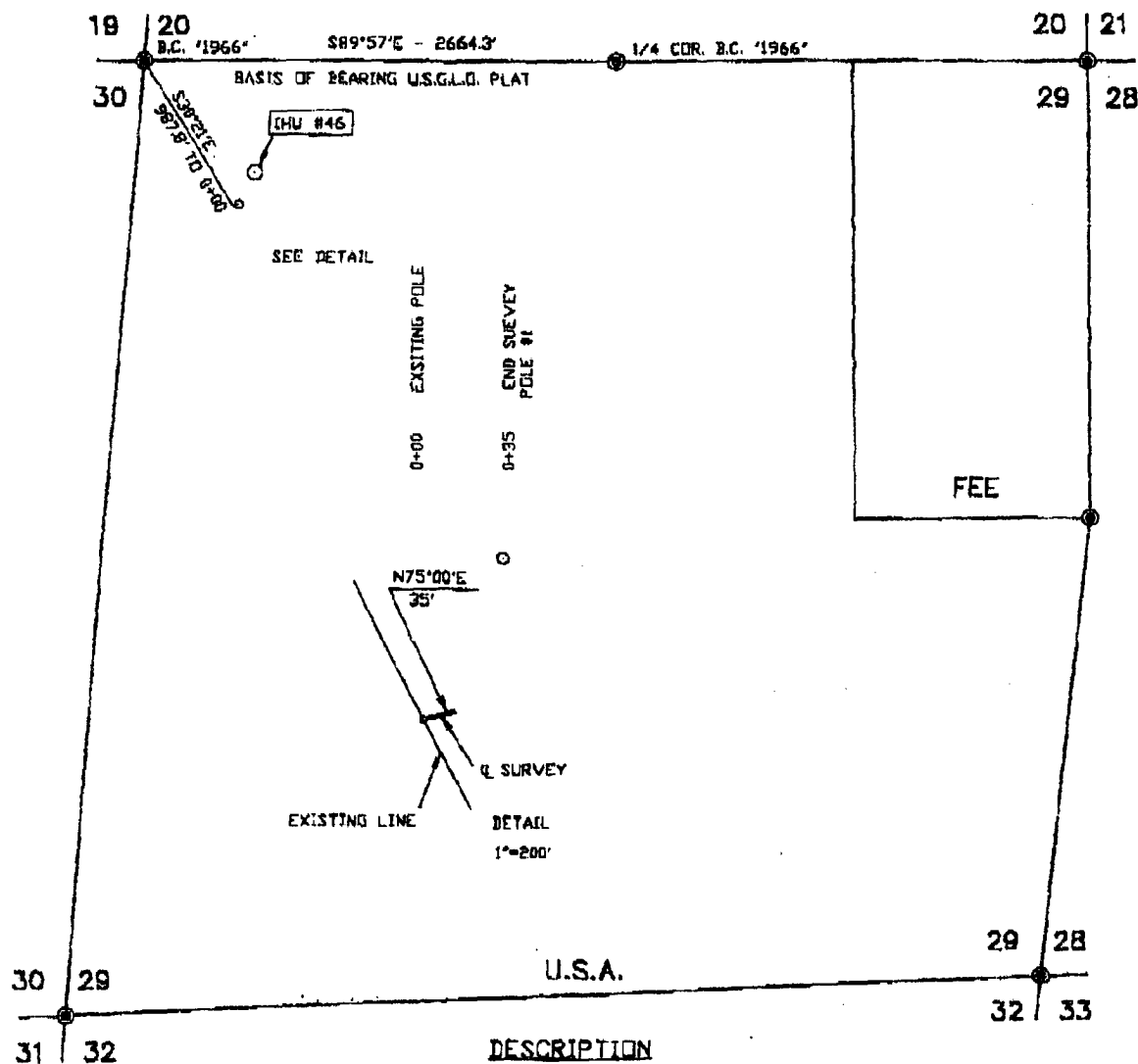
JOHN WEST SURVEYING COMPANY
412 N. CALIFORNIA AVE., HOBBBS, NEW MEXICO - 505-393-3117

MARATHON OIL COMPANY

SURVEY OF A PIPELINE CROSSING U.S.A. LAND IN SECTION 29, TOWNSHIP 21 SOUTH, RANGE 24 EAST, EDDY COUNTY, NEW MEXICO

Survey Date: 03/25/02	Sheet 1 of 1 Sheets
W.O. Number: 02.11.0224	Drawn By: A.W.BECKLEY
Date: 04/01/02	DISK: CD#8
PIPELINE	Scale: 1" = 1000'

SECTION 29, TOWNSHIP 21 SOUTH, RANGE 24 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



DESCRIPTION
 A STRIP OF LAND 25.0 FEET WIDE AND 35.0 FEET OR 0.006 MILES IN LENGTH CROSSING U.S.A. LAND IN SECTION 29, TOWNSHIP 21 SOUTH, RANGE 24 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING 12.5 FEET RIGHT AND 12.5 FEET LEFT OF THE ABOVE SHOWN CENTERLINE SURVEY.

1000 0 1000 2000 FEET
 Scale: 1"=1000'

I HEREBY CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

RONALD J. EIDSON
 RONALD J. EIDSON, N.M. P.S. No. 3239
 GARY G. EIDSON, N.M. P.S. No. 12641
JOHN WEST SURVEYING COMPANY
 412 N. 1st St. - PASO - HOBBS, NEW MEXICO - 505-393-3117

MARATHON OIL COMPANY

SURVEY OF AN ELECTRIC LINE CROSSING U.S.A. LAND IN SECTION 29, TOWNSHIP 21 SOUTH, RANGE 24 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 01/31/02	Sheet 1 of 1 Sheets
W.O. Number: 02.11.0081	Drawn By: A.W.BECKLEY
Date: 02/04/02	DISK: CD#5
ELEC. LINES	Scale: 1"=1000'