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LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.					Eddy	N.M.
			16. NO. OF ACRES IN LEASE		IO. OF ACRES ASSIGNED O THIS WELL	
(Also to nearest drlg, unit line,	ifany) 326		640 19. PROPOSED DEPTH		320 OTARY OR CABLE TOOLS	
18. DISTANCE FROM PROPOSED LC TO NEAREST WELL, DRILLING, OR APPLIED FOR, ON THIS LEA	COMPLETED,		8800 '			
21. ELEVATIONS (Show whether I			0000	I	22. APPROX. DATE WO	RK WILL START*
3667' G.L.					ASAP	
23.		PROPOSED CASING	AND CEMENTING PROG	RAM		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT			QUANTITY OF CE	EMENT
17.50"	13-3/8" K-55	54.50#			250 sks. to surf.	
12.25"	9-5/8" L-80	53.5#, 47.0	00# 8800 SEE ST		L10	·
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•	te office use)	TI1	TLE Engineer Tec	h	DATE 2/21,	/01
24. SIGNED Juny 7	te office use)	TIT	TLE Engineer Tec		DATE 2/21,	/01
24. SIGNED Jury 7 (This space for Federal or Star PERMIT NO.	rant or certify that the applicant he		APPROVAL DA	TE	e applicant to conduct operations thereor	

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<pre>Marathon Oil Company Indian Hills Unit #33 slot #1 Indian Basin EDDY COUNTY, NM.</pre>	PROPOSALLISTING by Baker Hughes INTEQ	Your ref : 2-16-01 Our ref : prop2714 License :	Date printed : 16-Feb-2001 Date created : 16-Feb-2001 Last revised : 16-Feb-2001	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	type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866	Reference North is Grid North
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Projection

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LISTING Page 1 ref : 2-16-01 .sed : 16-Feb-2001		0 KOP 8 2 1 2 2	1 1 1 1 1 1 1	14 EOC 55 66 77	8 18 15 Top of Upper Penn 59	11 Base of Penn 5 PBHL/TD
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All data is in feet unless otherwise stated. Coordinates from structure and TVD from rotary table. Bottom hole distance is 1718.15 on azimuth 48.03 degrees from wellhead. Vertical section is from wellhead on azimuth 48.03 degrees. Calculation uses the minimum curvature method. Presented by Baker Hughes INTEQ

Ma Indian Indian	Marathon Oil an Hills Unit an Basin,EDDY	ll Company it #33,slot #1 NY COUNTY, NM.	н.		PROPOSAL LISTING Your ref : 2-1 Last revised : 16-	rING Page 2 : 2-16-01 : 16-Feb-2001	8 4
				Comments in wellpath	: ==		
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Top of U	Upper Penn			7700.00	921.00N 102	1024.00E	15-Feb-2001

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VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>21</u> TWP.<u>21-S</u> RGE. <u>24E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>429'FSL & 326'FWL</u> ELEVATION <u>3667'</u> OPERATOR <u>MARATHON OIL COMPANY</u> LEASE INDIAN HILLS UNIT

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

# LOCATION VERFICATION MAP



SCALE: 1'' = 2000'

SEC. 21\_\_TWP.21-S\_RGE. 24E\_\_\_ SURVEY N.M.P.M. COUNTY\_\_\_\_EDDY DESCRIPTION 429'FSL & 326'FWL ELEVATION \_\_\_\_\_\_ 3667' OPERATOR MARATHON OIL COMPANY LEASE\_\_\_\_INDIAN HILLS UNIT U.S.G.S. TOPOGRAPHIC MAP MARTHA CREEK N.M.

CONTOUR INTERVAL: MARTHA CREEK N.M.

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

#### 1. Existing Roads: Refer to Vicinity Lease Map.

- a. The proposed wellsite is staked and the surveyor's plat is attached.
- b. To reach the location from Carlsbad, New Mexico: Follow Hwy. 285 North of Carlsbad 11 miles. Turn left on (NM)137. Go 6 miles west, Take right Y on Marathon road (401) travel 1.0 miles; turn north on lease road go .25 miles to location. Directly offsets IHU # 1 to the East.
- c. Existing roads within a one-mile radius (refer to Vicinity Lease Map).
- d. The existing road will be maintained as necessary to provide access during the drilling operation.
- 2. Planned Access Road: Refer to Vicinity Lease Map.

Access will be by existing State roads and existing lease roads. Construction plans will require blading and rolling the road and pad. The access road enters the drilling pad on the Southwest corner. The drilling location will have a V-door facing East.

- 3. Location of Existing Wells: See Vicinity Lease Map.
- 4. Location of Existing and Proposed Production Facilities within a one-mile radius:
  - a. Existing: There are seven oil and gas wells operated by Marathon within a one-mile radius of the proposed location. These locations have production facilities including separators, condensate, oil, water storage tanks. Marathon operates a variety of dehydrators, meter runs, and several gathering lines in the one-mile radius.

New Facilities: No new facilities will be needed. Using existing facility.

- c. Rehabilitation of disturbed areas no longer needed for operations will be accomplished by grading, leveling and seeding as recommended.
- 5. Location and Type of Water Supply:
  - a. <u>Source</u>: Indian Basin Gas Plant, NE/4 Sec. 23, T-21-S, R-23-E.
  - b. The water will be transported by a trucking contractor and via temporary lines laid along the existing row's and roads. No new construction will be required on/along the water route.
  - c. No water well will be drilled on this location.
- 6. Source of Construction Materials:
  - a. Construction materials may be obtained from the construction site.
  - b. If production is obtained, native materials will be used on the location and for installation of production facilities.
  - c. On-site inspection may dictate any changes in location construction.

A. P. D. (cont.) Thirteen Point Surface Use Plan INDIAN HILLS UNIT # 33

#### 7. Methods of Handling Waste Material Disposal:

- a. Cuttings will be deposited in the reserve pit.
- b. Drilling fluids contained in reserve pit and allowed to evaporate. Free water will be removed and transported to an approved disposal site to accelerate pit drying.
- c. Produced fluids none anticipated.
- d. A portable chemical toilet will be provided.
- e. Garbage and other waste material garbage and trash will be stored in a receptacle on location and periodically hauled to an approved sanitary landfill.
- f. After the rig moves out, all materials not necessary for operations will be removed. Pits will be backfilled and leveled. The location will be cleaned of all trash and debris.
- 8. <u>Ancillary Facilities</u>: Camp facilities will not be required. Portable trailers will be on location to house a company drilling foreman and contract toolpusher.
- 9. <u>Wellsite Layout</u>:
  - a. The wellpad layout shows the drillsite layout as staked. Topsoil will be stockpiled per specifications.
  - b. The reserve pit will be fenced on three sides before drilling begins. The fourth side will be fenced when the drilling rig leaves location.
  - c. The reserve pit will be lined (8 mil material).

#### 10. Plans for Restoration of the Surface:

- a. Backfilling, leveling, and contouring are planned as soon as all pits have dried. Waste disposal and spoiled materials will be hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- b. The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the BLM. Revegetation is recommended for road area, as well as around the drill pad.
- c. The reserve pit will be fenced during drilling operations. Fencing will be maintained until leveling and cleanup are accomplished.
- d. If any oil is in the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with mesh.

#### A. P. D. (cont.) Thirteen Point Surface Use Plan **INDIAN HILLS UNIT #33**

- The rehabilitation operations will begin after the completion rig is removed. Removal of oil e. or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation will be done between July 15 and September 15.
- f. All efforts will be made to minimize surface disturbances .

#### Other Information: 11.

- There are no significant archaeological or cultural sites visible in the area of disturbance. A a. cultural resource survey was performed by Archaeological Consultants Inc. of Roswell.
- General topography: Shown on Vicinity Lease Map. The terrain at the wellsite is gently b. rolling hills. Vegetation is primarily sage brush and natural grasses.
- Animal life: Prairie dogs, domestic livestock, rabbits and native rodents and predators. C.
- d. Dwellings (nearest): Approximately 1 miles.
- General location: Approximately 15 miles Northwest of Carlsbad, New Mexico. e.
- f. Drainage: Internal
- Surface Owner: The surface is owned by the Bureau of Land Management. g.
- Due to proximity of the location and nearby drainage, Marathon will make every effort to h. minimize surface disturbance. Please see the location pad and reserve pit dimensions..
- This well is intended to identify any potential development in the Northern portion of the Indian i. Hills Unit.
- 12. **Operator Representatives:** R. J. Longmire Drilling, Completion, & Workover Superintendent P. O. Box 552 Midland, TX 79702 800/351-1417 915/682-1626
- 13. Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; and that the work associated with the operations proposed herein will be performed by MARATHON OIL COMPANY and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

21/2001

#### DRILLING PROGRAM MARATHON OIL COMPANY INDIAN HILLS UNIT # 33

#### 1. Estimated KB Elevation: 3693' KB

|                                                        | T(                                | OP                                  |              |                                 | BASE | ******                                             | FLUID              |
|--------------------------------------------------------|-----------------------------------|-------------------------------------|--------------|---------------------------------|------|----------------------------------------------------|--------------------|
| FORMATION                                              | MEASURE                           | ED SUBSE/                           | 4            | MEASU                           | RED  | <u>SUBSEA</u>                                      | <u>CONTENT</u>     |
| Queen<br>San Andres<br>Glorietta<br>Delaware           | Surface<br>650'<br>2250'<br>3300' | +3693'<br>+3043'<br>+1443'<br>+393' |              | 650'<br>2250'<br>2355'<br>4300' |      | +3043'<br>+1443'<br>+393'<br>- 607'                | water<br>water     |
| Bone Spring<br>Wolfcamp<br>B/Permian Shale             | 4300'<br>5950'<br>7520'.          | -607'<br>-2257'<br>-3827'           |              | 5950'<br>7520'<br>7530'         |      | -2257'<br>-3827'<br>-3837'                         | oil gas<br>oil gas |
| U. Penn                                                | 7530'                             | -3837'                              |              | 8800'                           |      | -5107'                                             | gas, oil, water    |
| FORMATION                                              |                                   | BHP<br>PG EMW                       | EST<br>DEG f | SBHT<br><u>PPM</u>              | H2S  | SIGNIFICAN<br>(obj, marker, e                      | -                  |
| Bone Springs<br>Wolfcamp<br>B/Permian Shale<br>U. Penn | 1680 9.<br>1810 9.                | 3.5<br>9.0<br>9.0<br>9.0            |              | 500<br>5000                     |      | marker<br>marker<br>objective pay<br>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:

4.

<u>13-3/8" Surface:</u> 13-5/8" 3M annular tested to 300#/3000#, 13-5/8" 3M dual rams, choke manifold and mud cross, tested to 300#/3000#.

Auxiliary Equipment:

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

Intermediate Hole: N/A

Production Hole: Flow indicator, PVT, H<sub>2</sub>S 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 handle and safety valve and subs to fit all drillstring connections in use will be available on rig floor.

#### A. P. D. (cont.) Thirteen Point Surface Use Plan Indian Hills Unit # 33

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### 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:

| DEPT<br>FROM | <u>TO</u> | SECTION<br>LENGTH | HOLE<br><u>SIZE</u> | CSG<br><u>SIZE</u> | WT.<br><u>PPF</u> | GRADE | THREADS<br>COUPLINGS | NEW<br><u>USED</u> |
|--------------|-----------|-------------------|---------------------|--------------------|-------------------|-------|----------------------|--------------------|
| 0            |           | <u>1200</u> '     | 17.50"              | 13-3/8"            | 54.50#            | K-55  | 8rd, STC             | New                |
| 0            | 5500'     | 5500'             | 12.25"              | 9-5/8"             | 53.50#            | L-80  | 8rd, LT&C            | New                |
| 5500'        | 8800'     | 3300'             | 12.25"              | 9-5/8"             | 47.00#            | L-80  | 8rd, LT&C            | New                |

| - · · · • | DV<br>Depth | <u>Stg.</u> | Lead<br><u>Tail</u> | Amt<br><u>SXS</u> | Type<br><u>Cement</u> | Yield<br><u>CF/SX</u> | Wt.<br><u>PPG.</u> | TOC     | Additives        |
|-----------|-------------|-------------|---------------------|-------------------|-----------------------|-----------------------|--------------------|---------|------------------|
| 13-3/8"   |             |             | L                   | 100               | "C"                   | 7.15                  | 9.5                |         | Dia Seal         |
| 13-3/8"   |             |             | L                   | 100               | Thixset               | 1.52                  | 14.0               |         | Thixset          |
| 13-3/8"   |             |             | L                   | 750               | Lite                  | 2.02                  | 12.4               | surface | 2% cacl2,Flocele |
| 13-3/8"   |             |             | т                   | 300               | PremPlus              | 1.34                  | 14.8               |         | 2% CACL2         |
| 9-5/8"    | 6400'       | 1           | L                   | 350               | 44 44                 | 2.18                  | 9.2                | 6400'   | N2               |
| 9-5/8"    |             | 1           | т                   | 1200              | 66 64                 | 1.44                  | 4 13.0             | 7000'   | N2               |
| 9-5/8"    |             | 2           | L                   | 1360              | Interfill "C"         | 2.47                  | 11.9               | surface | Flocele          |
| 9-5/8"    |             | 2           | т                   | 200               | PremPlus              | 1.32                  | 14.8               | 62      | Neat             |

#### A. P. D. (cont.) Thirteen Point Surface Use Plan Indian Hills Unit # 33

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

#### Centralizer Program:

- `13-3/8" Conventional centralizers, Bottom 3-joints and every 4<sup>th</sup> joint to surface.
- 9-5/8" Conventional centralizers middle of 1<sup>st</sup> joint, then every joint to 7500', and 1 cent. Every 4<sup>th</sup> joint thereafter to 1300'.

#### 5. Mud Program

| DEPT  | ГН    |             | WEIGH | Т           | WL        |                                          | VISUAL     |
|-------|-------|-------------|-------|-------------|-----------|------------------------------------------|------------|
| FROM  | то    | MUD TYPE    | (PPG) | <u> VIS</u> | <u>CC</u> | ADDITIVES                                | MONTR.     |
| 0     | 1200' | fresh water | 8.3   | 28          | N/A       | Gel, Lime                                | Reserve    |
| 1200' | 5000' | fresh       | 8.5   | 28-32       | N/C       | Gel, caustic, H <sub>2</sub> S Scavenger | Reserve    |
| 5000' | 7000' | fresh       | 8.9   | 32-36       | N/C       | Gel, caustic, H <sub>2</sub> S Scavenger | Reserve    |
| 7000' | 8800' | fresh       | 8.9   | 32-36       | <20       | Gel, caustic, H <sub>2</sub> 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:

| LOG/TEST/CORE/MUDLOG/OTHER | INTE<br><u>FROM</u> | RVAL-<br>   | REMARKS                                        |
|----------------------------|---------------------|-------------|------------------------------------------------|
| DLL/MSFL/GR/CNL/LDT/CAL    | TD                  | 5000'       |                                                |
| LDT/CNL/GR/CAL             | TD                  | surf casing |                                                |
| MUD LOGGER                 | 6000'               | TD          | ROP, Lithology, Gas Analysis,<br>Chromatograph |

NO CORES OR DST'S

#### 7. Abnormal Pressures, Temperatures or Potential Hazards:

None anticipated. Possible H<sub>2</sub>S in Cisco & Upper Penn. See H<sub>2</sub>S Drilling Operations Plan.

8. <u>Other Information</u>:

Anticipated Starting Date: As soon as possible.

Duration of Well: drilling - 25 days, completion - 10 days.

This well shall be directionally drilled to a standard BHL.



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#### 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

