July 1992) Liecuized	nagement — ~	ED STATES	SUBMIT IN TRIPLI Other instruction ARTESIA, noverse side	3.4	OMB NO. 100 Expires: Februa 5. LEASE DESIGNATION AND	ry 28, 1995
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DR	ILL X	DEEPEN 📖			Indian Hills U	6409
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.O. Box 552 Mid	land, TX 79702		1-800-3	51-1417	10. FIELD AND POOL, OR WI Indian Basin U	
LOCATION OF WELL (Repo At surface	rt location clearly and in accorda	ance with any State requirement	ENED COL		minian basin o	pper reminable
03' FNL & 2310'		1 4/6 OCD	ARTESIA	.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zone	$ \mathcal{U}'$	(, &) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	A		Sec. 29, T-21-	S. R-24-E
473 FNL & 1010	IRECTION FROM NEAREST TOWN	N OR POST OFFICE			12. COUNTY OR PARISH	13. STATE
5 Miles N.W. of		0181	(191314)		Eddy	N.M.
DISTANCE FROM PROPOSE LOCATION TO NEAREST	D*	16. NO.	OF ACRES IN LEASE	17. NO. OF AC	CRES ASSIGNED	
PROPERTY OR LEASE LINE (Also to nearest drlg, unit)	, FT. line, if any) 503 '	64	0		320 E/2	
DISTANCE FROM PROPOSE	D LOCATION*		POSED DEPTH	20. ROTARY	OR CABLE TOOLS	
TO NEAREST WELL, DRILL OR APPLIED FOR, ON THIS		82	00'	Rota		
ELEVATIONS (Show wheth	her DF,RT, GR, etc.)				22. APPROX. DATE WORI	WILL START*
L. 3698'					ASAP	
		PROPOSED CASING AND CI	EMENTING PROGRAM			
SIZE OF HOLE	CD L DE CIZE OF CLEDIC	T				
		WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEM	ENT
12.25"	GRADE, SIZE OF CASING 9-5/8" K-55	WEIGHT PER FOOT 36#	SETTING DEPTH 1288* /400	785 sx	QUANTITY OF CEM	
12.25" 8.75"	9-5/8" K-55 7" K-55	36# 23# & 26#				
* Distance fris 1794'.	9-5/8" K-55	36# 23# & 26# Assoc. gas well. or the control of	### 1286 /400 8200 **Example 1	1400 s	2300 FSL & 2000	Ce
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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.

WECEIVED AUGOSTAND AUGOSTA

DISTRICT I P.O. Box 1980, Hebbs, 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

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III

•

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Na Indian Basin Upper Pe	 -
Property Code		Property Name INDIAN HILLS UNIT	
OGRID No. 14021		perator Name N OIL COMPANY	Elevation 3698

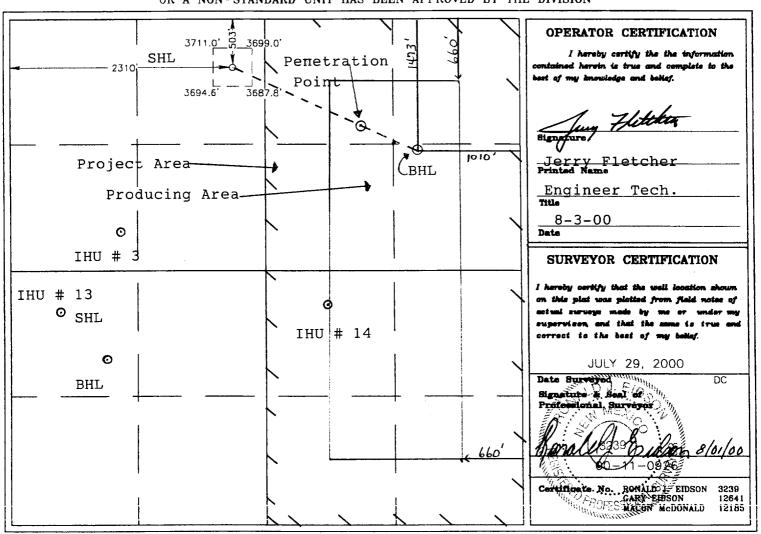
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	29	21 S	24 E		503	NORTH	2310	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townsh	ip	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	29	21	s	24 E		1473	NORTH	1010	EAST	EDDY
Dedicated Acres Joint or Infill Consolidation Code				Code Or	der No.					
320 E/2										

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



Proposed Well Profile

Proposal Name / Modified Date: Tort / AHD / DDI /ERD ratio: Grid Convergence Angle: Grid Coordinate System: Location Grid N/E Y/X: Location Lat/Long: Grid Scale Factor: Structure / Slot: Report Date: UWI/AP# Borehole: Client: Field: ₩eli: NAD27 New Mexico State Planes, Eastern Zone, US Feet N 419981.400 ftUS, E 526399.600 ftUS Indian Basin / Indian Hills Unit #27 Marathon Oil Company +0.04539979° N 32 9 16.621, W 104 14 52.902 20.000° / 2186.96 ft / 4.660 / 0.265 Rev 1 / August 3, 2000 Indian Hills Unit #27 Indian Hills Unit #27 Eddy County, NM August 3, 2000 Survey / DLS Computation Method: Local Coordinates Referenced To:

Total Corr Mag North -> Grid North: Sea Bed / Ground Level Elevation: Magnetic Declination Model: TVD Reference Elevation: Vertical Section Azimuth: Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: Magnetic Declination: Total Field Strength: Declination Date: North Reference: Magnetic Dip: 60.309° 9.140° 49588.788 nT 0.000 ft relative to 116.340° August 03, 2000 Grid North **BGGM 1999** 3698.0 ft relative to Minimum Curvature / Lubinsk Structure Reference Point

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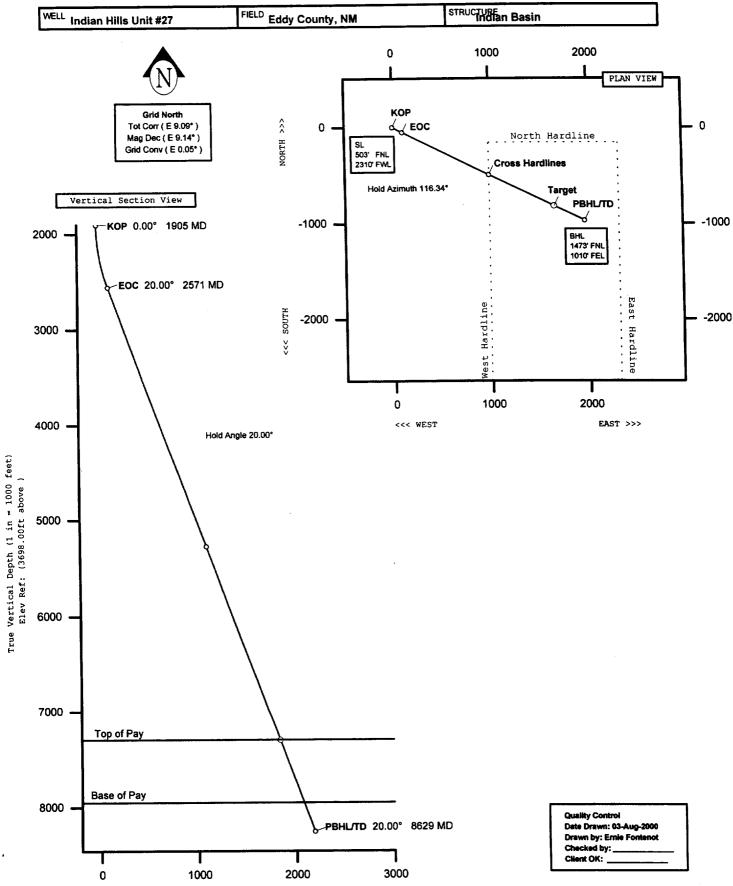
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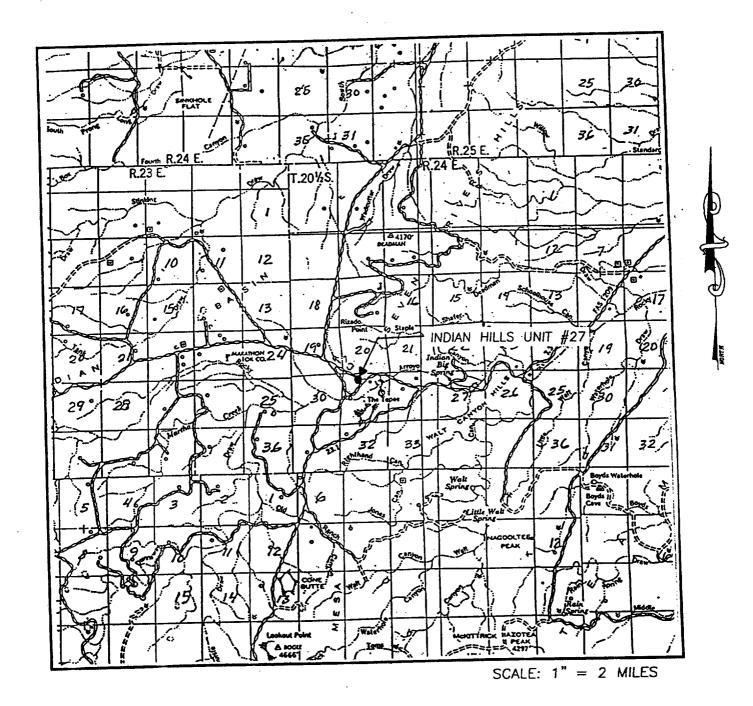
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Schlumberger





VICINITY MAP



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

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 503' FNL & 2310' FWL

ELEVATION 3698

OPERATOR MARATHON OIL COMPANY

LEASE INDIAN HILLS UNIT

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



SCALE: 1" = 2000'

CONTOUR INTERVAL: MARTHA CREEK - 20'

SEC. 29 TWP. 21-S RGE. 24-E
SURVEYN.M.P.M.
COUNTYEDDY
DESCRIPTION 503' FNL & 2310' FWL
ELEVATION 3698
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

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Thirteen Point Surface Use Plan MARATHON OIL COMPANY

Indian Hills Unit # 27 Sec. 29, T-21-S, R-24-E Eddy County, New Mexico

- 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. Turn right on Marathon Road (401). Follow (401) 1.4 miles to existing lease road on South side of road. Turn directly Sorth into location.
 - 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. <u>Planned Access Road</u>: 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 Northeast corner. The drilling location will have the rig V-door facing North.

- 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 and Santa Fe within a one-mile radius of the proposed location. These locations have production facilities including separators, condensate, oil, water storage tanks. Marathon and Santa Fe operate a variety of dehydrators, meter runs, and several gathering lines in the one-mile radius.
 - b. New Facilities: The proposed location will have 2 new gas sales lines tied into existing production equipment.
 - c. Rehabilitation of disturbed areas no longer needed for operations will be accomplished by grading, leveling and seeding as recommended.
- 5. <u>Location and Type of Water Supply:</u>
 - a. Source: Indian Basin Gas Plant, NE/4 Sec. 23, T-21-S, R-23-E.
 - b. The water will be transported by a trucking contractor. 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.

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. Wellsite Layout:

- 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.
- e. The rehabilitation operations will begin after the completion rig is removed. Removal of oil 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 and protect the visual resources along the scenic byway.

11. Other Information:

- a. There are no significant archaeological or cultural sites visible in the area of disturbance. A cultural resource survey was performed by Archaeological Consultants Inc. of Roswell.
- b. General topography: Shown on Vicinity Lease Map. The terrain at the wellsite is gently rolling hills. Vegetation is primarily sage brush and natural grasses.
- c. Animal life: Prairie dogs, domestic livestock, rabbits and native rodents and predators.
- d. Dwellings (nearest): Approximately 2 miles.
- e. General location: Approximately 15 miles Northwest of Carlsbad, New Mexico.
- f. Drainage: Internal
- g. Surface Owner: The surface is owned by Patsy Lyman
- h. Due to proximity of the location and nearby drainage, Marathon will make every effort to minimize surface disturbance. Please see the location pad and reserve pit dimensions..

12. Operator Representatives:

R. J. Longmire Drilling, Completion, & Workover Superintendent P. O. Box 552 Midland, TX 79702 800/351-1417 915/682-1626

13. <u>Certification</u>:

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

A. P. D. (cont.)
Thirteen Point Surface Use Plan
Indian Hills Unit # 27

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.

2 August Zoop
Date

R. J. Longmire

DRILLING PROGRAM MARATHON OIL COMPANY Indian Hills Unit # 27

1. <u>Estimated KB Elevation:</u> 3713' KB

	TOP		BASE		FLUID
<u>FORMATION</u>	<u>MEASURED</u>	SUBSEA	MEASURED	SUBSEA	CONTENT
Queen	Surface	+3713'	650'	+3063'	water
San Andres	650'	+3463'	2250'	+1463'	water
Glorietta	2250'	+1463'	2355'	+1358'	
Delaware	3300'	+413'	4300'	- 587'	
Bone Spring	4300'	-587'	5950'	-2237'	oil gas
Wolfcamp	5950'	-2237'	7520'	-3807'	oil gas
B/Permian Shale	7520'.	-3807'	7530'	-3817'	on guo
U. Penn	7530'	-3817'	8200'	-4487'	gas, oil, water

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

4.

 $\underline{9-5/8"}$ Surface: 11" 3M annular tested to 200 psi /2000 psi, 11" 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, H₂S Sensors, air packs, stroke counter, rotating head.

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and pressure 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. 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 # 27

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. <u>Casing and Cement Program</u>:

DEPT FROM	H <u>TO</u>	SECTIO LENGTI		HOLE SIZE	CSG SIZE	WT. <u>PPF</u>	GRADE	THREA		NEW USED
0	1200'	1200		12.25"	9-5/8"	36#	K-55	8rd, ST	С	New
0	4800'	4800'		8.75"	7-0"	23#	K-55	8rd, LT8	3C	New
4800'	8200'	3400'		8.75"	7-0"	26#	K-55	8RD LT	&C	NEW
Casing String	DV <u>Depth</u>	Stg.	Lead <u>Tail</u>	Amt SXS	Type Cemen	<u>t</u>	Yield CF/SX	Wt. <u>PPG.</u>	TOC	Additives
9-5/8"	none	1	L	100	Thix-se	et	1.52	14.0	surf.	1.0% thix-set A
9-5/8"		1	т	485	prem.p		2.02	14.8	surf	2% cacl;.5lb/Flocele
9-5/8"			т	200	prem.p		1.34	14.8	surf	2% cacl
7"	6400'	1	L	250	"H" Foa	ımed	2.13	9.2	6400	Foamed N2
7"		1	Т	350	"H" Foa	med	1.44	13.0	7000'	Foamed N2
7"		2	L	700	Interfil	l "C"	2.47	14.0	Surf.	Flocele 1/4#/sk
7"		2	Т	100	"C" N	eat	1.32	14.8	5900'	5# gilsonite / sk.

A. P. D. (cont.) Thirteen Point Surface Use Plan Indian Hills Unit # 27

Centralizer Program:

9 5/8" Conventional centralizers. Bottom 3 joints and every fourth joint to surface.

7" Conventional centralizers middle of 1st joint, then every joint to 7500', and 1 cent. Every 4th joint thereafter to 8200'

5.	Mud Pr	rogram						
	DEP1	ГН		WEIGH	Т	WL		VISUAL
	FROM	TO	MUD TYPE	(PPG)	<u>VIS</u>	<u>CC</u>	<u>ADDITIVES</u>	MONTR.
	0	1200'	fresh water	8.3	28	N/A	Gel, Lime	Reserve
	1200'	5000'	fresh	8.5	28-32	N/C	Gel, caustic, H₂S Scavenger	Reserve
	5000'	7000'	fresh	8.5	32-36	N/C	Gel, caustic, H₂S Scavenger	Reserve
	7000'	8200'	fresh	8.5	32-36	<20	Gel, caustic, H₂S Scavenger	Steel Pits

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

6. <u>Logging, Testing & Coring Programs</u>:

LOG/TEST/CORE/MUDLOG/OTHER	INTE FROM	RVAL- TO	REMARKS
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

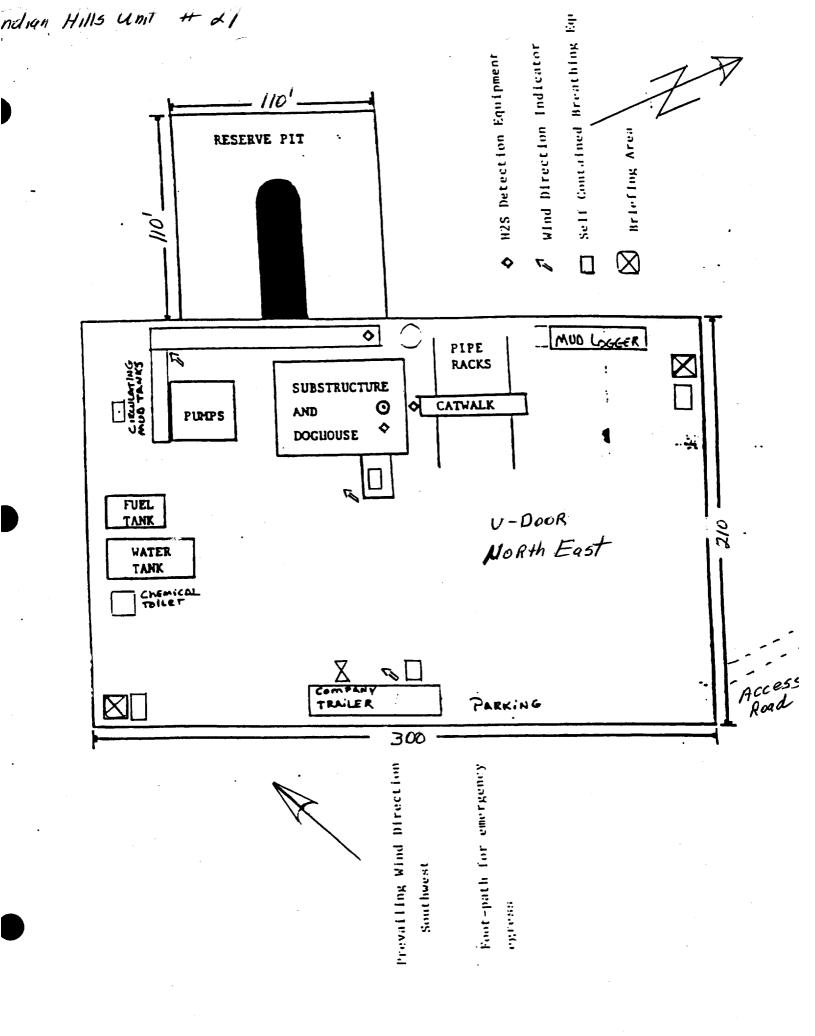
7. Abnormal Pressures, Temperatures or Potential Hazards:

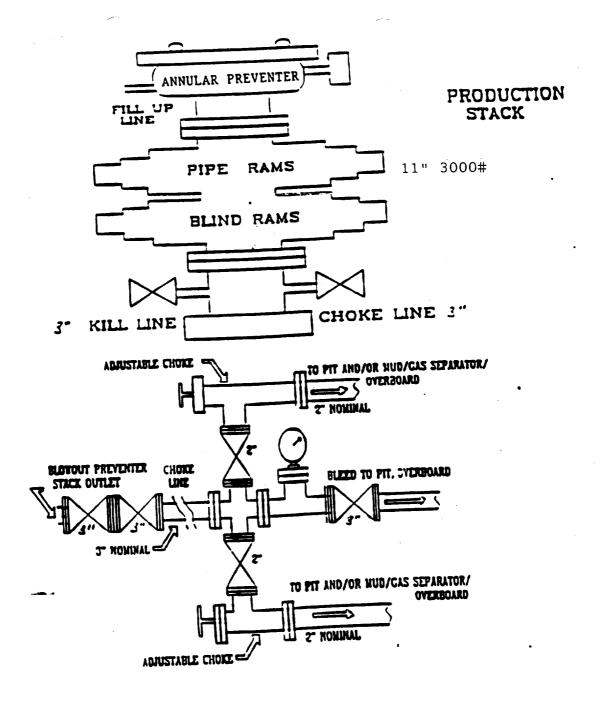
None anticipated. Possible H₂S in Cisco & Upper Penn. See H₂S Drilling Operations Plan.

8. Other Information:

Anticipated Starting Date: As soon as possible.

Duration of Well: drilling - 18 days, completion - 10 days.





MARATHON OIL COMP/ Y

H2S DRILLING OPERATIONS PLAN

1. 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. 1	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	
a 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

Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

.U OF LAND MANAGEMENT

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

5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS		
o not use this form for proposals to drill or to re-enter ar	\ A	CAI

NM-07260 D

SUBMIT IN TRIPLICATE	- Other instruction	s on reverse side		7. If Unit or CA/Agreement, Name and
. Type of Well				Indian Hills Unit
Oil Well X Gas Well Other				8. Well Name and No.
Name of Operator				Indian Hills Unit # 27
Marathon Oil Company Address				9. API Well No.
P.O. Box 552 Midland, TX 79702		3b. Phone No. (include	•	
Location of Well (Footage, Sec., T., R., M., or Surve	y Description)	1-800-351-14	117	10. Field and Pool, or Exploratory Area
Sec. 29, T-21-S, R-24-E	. ,	•		Indian Basin Upper
503' FNL & 2310' FWL				Perm. Assoc. 11. County or Parish, State
1473' FNL & 1010' FEL BHL				Eddy.
12. CHECK APPROPRIAT	E BOX(ES) TO INC	ICATE NATURE OF	NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION		_	PE OF ACTION	
Notice of Intent	Acidize	Deepen		
	Alter Casing	Fracture Treat		(Start/Resume) Water Shut-Off
Subsequent Report			Reclamatio	On Well Integrity
	Casing Repair	New Construction	Recomplet	Other
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporaril	y Abandon
Describe Proposed or Completed Operation (cl.	Convert to Injection		Water Disp	
Describe Proposed or Completed Operation (clear If the proposal is to deepen directionally or recom Attach the Bond under which the work will be pe following completion of the involved operations. testing has been completed. Final Abandonment determined that the final site is ready for final insp Marathon Oil Company is proposing Please see attachment for New Case	rformed or provide the Bo If the operation results in Notices shall be filed only ection.) To run larger ca	and No. on file with BLM a multiple completion or representation after all requirements, in asing to accomoda	/BIA. Required su ecompletion in a ne cluding reclamation	that depths of all pertinent markers and zo absequent reports shall be filed within 30 dew interval, a Form 3160-4 shall be filed on, have been completed, and the operator
following completion of the involved operations: testing has been completed. Final Abandonment determined that the final site is ready for final insp Marathon Oil Company is proposing	rformed or provide the Bo If the operation results in Notices shall be filed only ection.) To run larger ca	and No. on file with BLM a multiple completion or representation after all requirements, in asing to accomoda	/BIA. Required su ecompletion in a ne cluding reclamation	the depths of all pertinent markers and zo because the ports shall be filed within 30 cew interval, a Form 3160-4 shall be filed on, have been completed, and the operator
following completion of the involved operations: testing has been completed. Final Abandonment determined that the final site is ready for final insp Marathon Oil Company is proposing	rformed or provide the Bo If the operation results in Notices shall be filed only ection.) If to run larger can sing and cement da	and No. on file with BLM a multiple completion or rafter all requirements, in asing to accomoda ata. Title	BIA. Required su ecompletion in a ne cluding reclamation to bigger pur	the depths of all pertinent markers and zo because the ports shall be filed within 30 cew interval, a Form 3160-4 shall be filed on, have been completed, and the operator
I hereby certify that the foregoing is true and correct Name (Printed/Typed) Jerry Fletc: Juny Fletc: Juny Fletc: Juny Fletc:	rformed or provide the Bolf the operation results in Notices shall be filed only ection.) If to run larger cases and cement desired and cement de	Title Date 10-04-00	BIA. Required su ecompletion in a ne cluding reclamation te bigger pur	the depths of all pertinent markers and zon ibsequent reports shall be filed within 30 dew interval, a Form 3160-4 shall be filed on, have been completed, and the operator
I hereby certify that the foregoing is true and correct Name (Printed/Typed) Jerry Fletc Jerry Fletc Jerry Fletc THIS	rformed or provide the Bolf the operation results in Notices shall be filed only ection.) If to run larger cases and cement desired and cement de	Title Date	BIA. Required su ecompletion in a ne cluding reclamation te bigger pur	incal depths of all pertinent markers and zo besequent reports shall be filed within 30 dew interval, a Form 3160-4 shall be filed on, have been completed, and the operator mp size.
I hereby certify that the foregoing is true and correct Name (Printed/Typed) Jerry Fletc Jerry Fletc THIS proved by (ORIG. SGD.) GARY GOURL littons of approval, if any, are attached. Approval of the true and true a	riormed or provide the Bolif the operation results in Notices shall be filed only ection.) In to run larger casting and cement described and cement described by the state of	Title Date Date Date To AL OR STATE OFF	BIA. Required su ecompletion in a ne cluding reclamation te bigger pur	the depths of all pertinent markers and zon ibsequent reports shall be filed within 30 dew interval, a Form 3160-4 shall be filed on, have been completed, and the operator
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Indian Hills Unit #27

Test Frequency

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

4. Casing and Cement Program:

DEPT	ГН <u>ТО</u>	SECTION LENGT		HOLE SIZE	CSG SIZE	WT. <u>PPF</u>	GRADE	THRE	ADS LINGS	NEW USED
0	1200' 4800'	1200' 4800'		17.50 " 12.25"	13-3/8" 9-5/8"	54.50# 40#	K-55 K-55	8rd, S7 8rd, L7	rc	New New
4800'	8200'	4000'		12.25"	9-5/8"	43.5	L-80	8rd, L7	-&C	New
Casing <u>String</u>	DV <u>Depth</u>	Stg.	Lead <u>Tail</u>	Amt SXS	Type Cement		Yield CF/SX	Wt. <u>PPG.</u>	<u> 100</u>	<u>Additives</u>
13-3/8"			L	100	"C"		7.15	9.5		Dia Seal
13-3/8"			L	100	Thixset		1.52	14.0		
13-3/8"			L	746	Lite		2.02	12.4	surface	Thixset 2% cacl2
13-3/8"			T	300	PremPlu	ıs	1.34	14.8		_,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
9-5/8"	6400'	1	L	350	4 4		2.18	9.2		No
9-5/8"		1	Т	700	4 <u>4</u>			13.0		N2
9-5/8"		2	L	1360	Interfill *(O#			4	N2
9-5/8"		2	Т	200	PremPlu			11.9		Flocele
			•	200	rieinPiù	8	1.32	14.8		Neat

Pressure Control Equipment:

13-3/8" Surface: 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, 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

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.

Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR U OF LAND MANAGEMENT

N.M. Oil Cons. Division 811 S. 1 Street

FORM APPROVED OMB NO. 1004-0135

Expires: November 30, 2000

20 1.01 430 4113 101111 10	r proposals to drill	Or to ro ontor on)-2834se Ser NM-07260	
abandoned well. Use Fo	rm 3160-3 (APD) i	for such proposals.		6. If Indian, A	Allottee or Tribe Name
SUBMIT IN TRIPLICATE	Other instruction	no on vouce - 1.1		N/A	
1. Type of Well		ns on reverse side		/. If Unit or C	CA/Agreement, Name and
Oil Well X Gas Well Other					
2. Name of Operator			·	8. Well Name	and No.
Marathon Oil Company				Indian Hil	ls Unit # 27
3a. Address		3b. Phone No. (include a.	rea code)	9. API Well N	o.
P.O. Box 552 Midland, TX 79702		1-800-351-141		10 Field 4 F	
 Location of Well (Footage, Sec., T., R., M., or Survey of Sec. 29, T-21-S, R-24-E 	Description)			Indian Bas	Pool, or Exploratory Area
503' FNL & 2310' FWL				Penn. Assoc	<u>c</u>
1473' FNL & 1010' FEL BHL				11. County or	Parish, State
12. CHECK APPROPRIATE	BOX(ES) TO IN	DICATE NATURE OF	NOTICE DEF	Eddy	N.M.
TYPE OF SUBMISSION	(,				ER DATA
M No.			PE OF ACTION		
Notice of Intent	Acidize	Deepen	Production	(Start/Resume)	Water Shut-Off
Subsequent Report	Alter Casing	Fracture Treat	Reclamation	on [Well Integrity
	Casing Repair	New Construction	Recomple	, C	- i
Final Abandonment Notice	X Change Plans	Plug and Abandon	=	ly Abandon	Other
	Convert to Injection	on Plug Back	Water Disp	_	
Please see attachment for New casin	ng and cement d	lata.			
I hereby certify that the foregoing is true and correct Name (Printed/Typed) Jerry Fletche	or.	Title			
I hereby certify that the foregoing is true and correct Name (Printed/Typed) Jerry Fletche	er	Title Engineer	Tech.		
Jerry Fletche		Engineer Date 10-04-00			
Jerry Fletche Juny Flittler THIS SI		Engineer Date 10-04-00			
Jerry Fletche Juny Fletche THIS SI Oproved by ORIG. SGD.) GARY GOURLEY additions of approval, if any, are attached. Approval of this ify that the applicant holds legal or contribute title.	PACE FOR FEDE	Engineer Date 10-04-00 RAL OR STATE OFFICE PETRÖLEUM ENG	E USE	Date UC	0 6 2000
Jerry Fletche Jerry Fletche Jerry Fletche Jerry Fletche THIS SI Oproved b (ORIG. SGD.) GARY GOURLEY additions of approval if any are attached. Approved to the control of the contro	PACE FOR FEDE	Date 10-04-00 RAL OR STATE OFFICE PETRÖLEUM ENGIANT OFFICE Office	E USE INEEF		0 6 2000

Indian Hills Unit #27

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- Anytime a pressure seal is broken (test confined only to affected equipment). 2.
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- Blind and pipe rams shall be activated each trip but not more than once/day. 4.

Casing and Cement Program: 4.

DEPTH FROM TO		SECTION LENGTH		HOLE SIZE	CSG SIZE	WT. PPF GRADI		THREADS COUPLINGS		NEW USED
0 0	1200' 4800'	1200' 4800'		17.50" 12.25"	13-3/8" 9-5/8"	54.50# 40#	K-55 K-55	8rd, ST 8rd, LT	c	New New
4800'	8200'	4000'		12.25"	9-5/8"	43.5	L-80	8rd, LT	&C	New
Casing <u>String</u>	DV <u>Depth</u>	Stg.	Lead <u>Tail</u>	Amt SXS	Type Cement			Wt. PPG.	TOC	<u>Additives</u>
13-3/8"			L	100	"C"		7.15	9.5		
13-3/8"			L	100	Thixset			14.0		Dia Seal Thixset
13-3/8"			L	746	Lite		2.02	12.4	surface	2% cacl2
13-3/8"			T	300	PremPlu	IS	1.34	14.8		270 OGC12
9-5/8"	6400'	1	L	350			2.18	9.2		N2
9-5/8"		1	т	700				13.0		
9-5/8"		2	L	1360	Interfill "(~ **	_			N2
9-5/8"		0			THE THE	•	2.47	11.9		Flocele
<i>3-3/0</i>		2	Т	200	PremPlu	s	1.32	14.8		Neat

Pressure Control Equipment:

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

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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 handle and safety valve and subs to fit all drillstring connections in use will be available on rig floor.