Form 3160-3 (July 1992)	UNIT DEPARTMEN	ED STATES	S .	Other instruction		COMB NO. 10 OMB NO. 10 CALCENT Expires: Febru 5. LEASE DESIGNATION AN	004-0136 C ary 28, 1995	SF-	
				Artesia,	NM F	<u> 2017 (CO</u>	64391	<u>b</u>	
APPL	ICATION FOR PE					 IF INDIAN, ALLOTTEE OR N/A 	TRIBE NAME		
Ia. TYPE OF WORK D b. TYPE OF WELL		DEEPEN				1. UNIT AGREEMENT NAME Indian Hills Unit			
OIL WELL 2. NAME OF OPERATOR			8. FARM OR LEASE NAME, Indian Hills U		37				
Marathon Oil Com 3. ADDRESS AND TELEPHON P.O. Box 552 Mi	e NO. dland, TX 79702	687-8360	9. API WELL NO. <u>30-015-32543</u> 0 10. FIELD AND POOL, OR WILDCAT						
 LOCATION OF WELL (Rep At surface 1092' FNL & 1380 At proposed prod. zone 	FEL		Indian Basin Upper Penn. Assoc						
2620' FNL & 2538 14. DISTANCE IN MILES AND	FEL DIRECTION FROM NEAREST TOWN	C. I with	e ARPRO	AL BY STAT		Sec. 20, T-21-S, R-24-E 12. COUNTY OR PARISH 13. STATE			
15 miles SE of C 15. DISTANCE FROM PROPOSI LOCATION TO NEAREST PROPERTY OR LEASE LIN (Also to nearest drie, uni) 18. DISTANCE FROM PROPOSI TO NEAREST WELL, DRIL OR APPLIED FOR, ON THI	ED* VE, FT. <u>t line, if any</u> BHL 2538' ED LOCATION* LING, COMPLETED,		16. NO. OF ACT 640 19. PROPOSED		TO THIS V 20. ROTARY	Eddy N.M.			
21. ELEVATIONS (Show who 4162'			86001		<u>Rota</u>	22. APPROX. DATE WORK			
23.		PROPOSED CASING	AND CEMENT	ING PROGRAM	Mailaba	October 15,2		-	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	т	SETTING DEPTH		QUANTITY OF CEME		_	
12-1/4*	9-5/8" K-55	36#		1800'	640 sk	5 .		-	
8-3/4"	7" K-55	23# & 26	i#	8600'	1280 si	ks			
	I	I	I		1 ·				

Marathon Oil Company is proposing to drill a directional Indian Basin Upper Penn. Associated Gas Pool well to 8600'.

The surface location of the well is on the Same pad as the Indian Hills Unit # 25, previously drilled and completed to the Morrow.

The BHL is non Standard to the 660' setback line of the internal boundary of the Unit.

*The Indian Hills Unit # 25 BHL is 1912' from the proposed BHL of the Indian Hills Unit # 37. Directional plan is attached from Baker Inteq.

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.

SIGNED Juny Flitter	TITLE Engineer tech.	DATE September 05,2002
(This space for Federal or State office use)	APPROVA	L SUBJECT TO
PERMIT NO.	APPROVAL DATE GENERAL	REQUIREMENTS AND
Application approval does not warrant or certify that the applicant holds legal or equita CONDITIONS OF APPROVAL, IF ANY:	able title to those rights in the subject lease which would sptule the applic	TIPULATIONS
APPROVED BY /S/ JOE G. LARA	FIELD MANAGER	OCT 3 0 2002
*See I	nstructions 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 to the field any in the section of the section and the section of the section o

DISTRICT I P.O. Box 1960, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artonia, NM 66211-0719

DISTRICT III 1000 Rio Brazos Ed., Aztec, NM 87410

DISTRICT IV P.O. BOX 2088, SANTA FZ, N.M. 67504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

,

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number		Pool Code				Pool Name						Pool Name						
			33	685		Indian Basin Upper Penn, Associated													
Property C	Code				-	vroperty Name Well Number 37													
				IN															
OGRID No	D.			MADA		ott C			Elevatio										
14021			MARATHON OIL COMPANY 4161.7'				1./												
					Surfac	e Loca	ntion												
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro		North/South line	Feet from the	East/West line	County									
2	20	21-S	24-E	1092' NORTH				1380'	EAST	EDDY									
<i>د</i>		1	Bottom	Hole Loc	ation I	f Diffe	rent From Sur	face		1									
UL or lot No.	Section	Township	Range	Lot Idn Feet from the North/			North/South line	Feet from the	East/West line	County									
"G"	20	21-S	24-E		262	o [,]	NORTH	2538'	EAST	EDDY									
Dedicated Acres	s Joint o	r Infill Co	nsolidation	Code Ore	der No.	u		<u></u>											
320 E/2																			
NO ALLO	WABLE W	ILL BE AS	SSIGNED '	TO THIS	COMPLE	TION U	NTIL ALL INTE	RESTS HAVE E	EEN CONSOLID	ATED									
							APPROVED BY												
LOT4	T	LOT	3		012		LOT 1 \	<u></u>											
·			-					OPERAT	OR CERTIFICAT	TION									
				SHL IHU # 25 / A hereby certify th															
	. 1			SI SHL IHU # 26 contained herein is true and complet						ete to the									
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38.99	AC				-	- Ju	, 7 tititur	2											
	·	40.55 A		1 LOT 7	د ا	$-\lambda$	37.678 AC	Signature											
	-				4120.5		4141.2'	Printed Net	letcher]									
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			Ĩ 🔪	2620	FINL			Title											
	•				->	1		August	30, 2002										
					IU # 37	внц в	HL IHU # 25	Date											
37.95	AC I	39.51 A	c	1 0 30	39 AC	2538	38.34 AC	SURVEY	OR CERTIFICAT	TION									
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[]		BHL X-			7 N.M.E. 84340.1			()	was plotted from field s made by me or										
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	— — _I	·		1		····· , ····		Signature &	1. Surveyor										
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VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>20</u> TWP.<u>21-S</u> RGE. <u>24-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1092' FNL & 1380' FEL</u> ELEVATION <u>4161.7'</u> OPERATOR <u>MARATHON OIL COMPANY</u> LEASE <u>INDIAN HILLS UNIT</u>

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







5

1 INCH= 50 feet

Prevailing Wind Direction Southwest



Indian Hills Unit #37 Marathon Oil Company

Eddy County New Mexico INDIAN BASIN slot #1

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Baker Hughes INTEQ Уq

Your ref : P0 2DJ RH/SJ Our ref : prop3452 License :

Date printed : Date created : 3-Sep-2002 3-Sep-2002

Reference North is Grid North

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Slot Grid coordinates are N 534340.100, E 443439.500 Slot local coordinates are 0.00 N 0.00 E

Slot location is n32 28 7.965,w104 31 0.224

Structure is centred on 443439.500,534340.100,999.00000,N Field is centred on n32 30 0.000,w104 30 0

Last revised : 3-Sep-2002

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid Presented by Baker Hughes INTEQ

Grid is mercator - New Mexico East (3001).

Bottom hole distance is 1785.46 on azimuth 215.03 degrees from wellhead. Vertical section is from wellhead on azimuth 215.03 degrees.

Coordinates from slot #1 and TVD from rotary table.

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	5.9	5.9	15.93	ю 9	່ທ 9	5.9	5.9	15.93	5.9	5.9	5.9	5.9	5.9	15.93	5.0	2.5	0	7.50	0	თ		0	0.00	0	0	Degrees	d Inclin
All data	15.0	15.0	215.03	15.0	15.0	15.0	15.0	215.03	15.0	15.0	15.0	15.0	15.0	215.03	15.0	15.0	15.0	215.03	15.0	15.0	15.0	15.0	215.03	15.0	15.0	De	Azimuth
in feet unless	266.6	785.8	7775.00	305.0	824.2	6343.43	862.6	5381.84	901.0	420.2	939.4	458.6	977.8	2629.13	593.1	496.	397.	+	199.7	0	000.0	00.	000.0	00.0	0.00		n True Vert
otherwise	389.91	277.52	1274.99S	165.13	052.74	40.35	27.96	715.57S	03.18	90.79	78.40	6.01	53.62	72.095	3.94	4.48	57	16.058	.14	.79	0.00N	0.00N	0.00N	0.00N	0.00N	COORDI	ECTA
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culation	.00	.00	0.00	.00	.00	.00	.00	0.00	0	0		0	•	2.50	თ	л	თ	2.50	თ	თ	0	.0	0.00	.0	0	Deg/100f	Dogleg
uses mir	697.4	560.1	1557.08	422.9	285.	14	011.1		36.6	99.3	62.1	4.8	87.6	8	0	54.33	œ	9.6	8.72	4	0	0	0.00	•	0	t Sec	Vert
nimum curvature	442465.14	42543.9	2545	42622.7	42701.5	42780.2	42859.0	2937	43016.6	43095.4	43174.2	43253.0	43331.8	443388.96	43394.6	α ω	43419.5	443428.25	43434.4	43438.2	9.	43439.5	439	43439.5	43439.5	Easting	GRIDC
ure method.	3295	33062.5		33174.9	33287.3	33399.	33512.1	624.5	33736.	33849.3	33961.7	34074.0	34186.4	534268.01	34276.1	34295.6	34311.5	534324.05	34332.9	34338.3	34340.1	34340.1	434	34340.1	34340.1	Northing	COORDS

INDIAN BASIN, Eddy County New Mexico Indian Hills Unit #37, slot #1 Marathon Oil Company

Last revised : 3-Sep-2002

PROPOSAL LISTING

POSAL LISTING Page 1 Your ref : P0 2DJ RH/SJ

8820.72 Measured Inclin Depth INDIAN BASIN, Eddy County New Mexico 15.93 Degrees Indian Hills Unit #37,slot #1 Marathon Oil Company All data in feet unless otherwise stated. Calculation uses minimum curvature method. 215.03 Degrees Azimuth Bottom hole distance is 1785.46 on azimuth 215.03 degrees from wellhead. Grid coordinates in FEET and computed using the Clarke - 1866 spheroid 8575.00 True Vert Depth Vertical section is from wellhead on azimuth 215.03 degrees. Coordinates from slot #1 and TVD from rotary table. Grid is mercator - New Mexico East (3001). 1462.00S RECTAN COORDI Presented by Baker Hughes INTEQ NGULAR INATES 1024.90W Deg/100ft Dogleg 0.00 1785.46 Your ref : P0 2DJ RH/SJ Last revised : 3-Sep-2002 PROPOSAL LISTING Sect Vert Easting 442414.60 GRID Page 2 COORDS 532878.10 Northing

PROPOSAL LISTING Page 3 Your ref : P0 2DJ RH/SJ Last revised : 3-Sep-2002

	7988.76 7775.00 8820.72 8575.00	MD TVD
		Rectangular Coords.
Targets a		1 1 1
Targets associated with this wellpath	893.80W UPPER PENN TOP 1024.90W TD	Comments in wellpath ====================================

TD Target name 442414.600,532878.100,0.00000 8575.00 Geographic Location T.V.D. Rectangular Coordinates 1462.00S ----1024.90W * * * * * * * * * * 3-Sep-2002 Revised

Thirteen Point Surface Use Plan MARATHON OIL COMPANY

INDIAN HILLS UNIT #37 Sec. 20, T-21-S, R-24-E Eddy County, New Mexico

- 1. <u>Existing Roads</u>: Refer to Vicinity Lease Map.
 - a. The proposed well site 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. Follow 1.9 miles to White Pine Road. Go North 1.3 miles, turn Right on lease road and continue East 1 mile. Turn Right at "Y" and follow lease road 0.5 miles to new access road turn south east 1/2 mile to 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. No new access road will be required. 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 a V-door facing West- Southwest.
- 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 six oil and gas wells operated by Marathon and Fasken within a one-mile radius of the proposed location. These locations have production facilities including separators, condensate, oil, water storage tanks. Marathon and Fasken operate a variety of dehydrators, meter runs, and several gathering lines in the one-mile radius.
 - b. <u>New Facilities</u>: No new facilities are proposed at this time. The well shall be evaluated prior to any facility construction.
 - 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. If poly line is utilized for drilling purposes Marathon will follow existing ROW.
 - 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 tool pusher.

9. Well site Layout:

- a. The well pad layout shows the drill site 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. Re-vegetation will be accomplished by planting mixed grasses as per formula provided by the BLM. Re-vegetation 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 re-vegetation 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. <u>Other Information</u>:

- 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 well site 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 the Bureau of Land Management.
- 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..
- i. This well will be drilled on the existing well pad of the Indian Hills Unit # 25 previously drilled and completed.
- j. <u>Marathon will utilize the pit area used for the IHU # 25 well which will be re-entered for</u> the IHU # 37.

12. <u>Operator Representatives</u>: 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 drill site 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.

9/4/2002

Date

Mguiu

R. J. Longmire

DRILLING PROGRAM MARATHON OIL COMPANY INDIAN HILLS UNIT #37

Estimated KB Elevation: 4178' KB G.L.-4162' Rig Floor 16'

		TOP			BASE		FLUID
FORMATION	MEASL	JRED SUBSE	A	MEAS	URED	SUBSEA	CONTENT
Queen	0.4						
	Surface			650'		+3528'	water
San Andres	650'	+3528'		2250'		+1928'	water
Glorietta	2250'	+1928'		2355'		+1823'	
Delaware	3300'	+878'		4300'		+ 130'	
Bone Spring	4300'	-122'		5950'		-1712'	oil gas
Wolfcamp	5950'	-1772'		7520'		-3342'	oil gas
B/Permian Shale	7520'	-3342'		7530'		-3352'	on guo
U. Penn	7530'	-3352'		8600'		-4422'	gas, oil, water
	EST	SBHP	EST	SBHT	H2S	SIGNIFICAN	ICE
FORMATION	PSIG	PPG EMW	DEG f	PPM		(obj, marker, o	
Bone Springs	1210	8.5			500	marke	ər
Wolfcamp	1680	9.0				mark	
B/Permian Shale	1810	9.0				objective	
U. Penn	2050	9.0			5000	objective	

2. See (1) above.

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1.

If any unexpected water or mineral bearing zones are encountered, they will be reported, evaluated, and protected as circumstances and regulations require.

3. <u>Pressure Control Equipment:</u>

<u>11" Surface:</u> 11" 3M annular tested to 300PSI/3000PSI, 11" 3M dual rams, choke manifold and mud cross, tested to 300PSI/3000PSI.

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

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:

DEP FROM	гн <u>то</u>	SECTION LENGTH	HOLE <u>SIZE</u>	CSG <u>SIZE</u>	WT. <u>PPF</u>	GRADE	THREADS COUPLINGS	NEW USED
0	1800'	1800'	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'	8600'	3800 '	8.750"	7.00"	26.00#	K-55	8rd, LT&C	New

Casing <u>String</u>	DV <u>Depth</u>	<u>Stg.</u>	Lead <u>Tail</u>	Amt <u>SXS</u>	Type <u>Cement</u>	Yield <u>CF/SX</u>	Wt. <u>PPG.</u>	TOC	<u>Additives</u>
9.625"	none	1	L	500	Foam Cmt.	1.78	11.2	100'.	
9.625"	none		т	140	C Neat	1.35	14.8	900'	3% Cacl

NOTE: Pump 55 sks. Class "C" dn. Annulus W/ 3% CACL2, Yield: 1.35cf/sk, Density 14.8 ppg coverage, Surface To 100'.

7.0"	6300'	1	L	340	Prem.	1.44	13.0	5600'	Foamers, N2
7.0"		2	L	840	Interfill "C"	2.47	11.9	Surface	1/4pps Cello,3pps Gilsonite,0.2% Haład 322
7.0		2	т	100	"C" Neat	1.32	14.8	6000'	N/A

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. <u>Mud Program</u>

DEP1	Г Н		WEIGH	т	WL		VISUAL
FROM 0 1200' 5000'	<u>TO</u> 1200' 5000' 7000'	MUD TYPE fresh water fresh/ produced fresh/ produced	<u>(PPG)</u> 8.3	<u>VIS</u> 28 28-32 32-36	<u>CC</u> N/A N/A	ADDITIVES Gel, Lime Gel, caustic H ₂ S Scavenger	VISUAL <u>MONTR.</u> Reserve Reserve
7000'	8600'	fresh/produced	9.0	32-36 32-36	N/C <20	Gel, caustic, H ₂ S Scavenger Gel, caustic, H ₂ S Scavenger	Reserve 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 FROM	RVAL-	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. <u>Other Information</u>:

Anticipated Starting Date: As soon as possible.

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



Exhibit "I"

Marathon Oil Company

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC PLAN)

Marathon Oil Company has pollution prevention, good housekeeping, safety and fire prevention policies that are to be followed at all times. All company employees, contractors and subcontract personnel are to observe safe working practices and prevent pollution to the maximum extent possible.

In the event of an emergency, spill, fire, explosion or blowout, personal injuries, property or equipment damage, call MARATHON OIL COMPANY @ <u>915-559-9339</u>

Prior to drilling, certain measures should be taken:

- 1. Use impervious materials to build the location and the reserve pit.
- 2. Ditch the outline of the rig toward the reserve pit.
- 3. Place sumps on each end of the rig to catch any free oil or debris from entering the reserve pit.
- 4. Keep materials on location to contain or clean up spills (absorbent pads, shovels, etc).
- 5. Make known to Drilling Supervisors a list of spill response contractors available.
- 6. BOP testing shall be performed each time a casing string is set.
- 7. The Drilling contractor is required to have a certified SPCC plan for the Drilling rig.
- 8. Routine inspections of the operations shall be performed to ensure SPCC guidelines are followed.
- 9. Ensure all Marathon personnel are HAZWOPER trained in methods for stopping, controlling, and cleaning up any spills.

Spill control measures to be taken:

- 1. Shut down activities underway, as deemed necessary by the person in charge.
- 2. Determine the source of pollution and stop the discharge, if possible.
- 3. Isolate and contain the discharged materials, if possible.
- 4. Seek guidance from the Southern Region Emergency Action Plan.

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. tof	t:
DST No. 2	ft. tof	t.
DST No. 3	ft. tof	t.

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

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Southern J.S. Business Unit Domestic Production



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

August 30, 2002

Attn: Mr. Barry Hunt United States Department of the Interior Bureau of Land Management Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88221

Ref: Marathon Oil Company Indian Hills Unit #37 Sec. 17 &20, T-21-S, R-24-E Eddy County, NM

Dear Mr. Hunt:

Enclosed is a Sundry Notice for proposed Indian Hills Unit #37's flowline installation.

Your prompt attention is appreciated, if you have any questions please contact Roger Edelbrock in our Midland Office, (915) 687-8302.

Sincerely yours,

Edelbrach PE Roger D. Edelbrock PE

Senior Construction Engineer

	Form 3160-5 (August 1999) UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an								FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000 5. Lease Serial No.					
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3a. Address Box 552, Midland, TX 79702-0552 3b. Phone No. (include area code) (915) 682 1626														
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