Form 3160-3	, 		A. Ol Consul		FORM APPR OMB NO. 10	~ ~ 1 1 1
(July 1992)	UNÌTI DEPARTMENT		(Other instruct	le) 🔊	Expires: Februa	ary 28, 1995
				1	GASE DESIGNATION AND	$7 \gtrsim (-2)$
	BUREAU OF	LAND MANAGEN	Antesia, NM	88210	6. IF INDIAN, ALLOTTEE OR	
APPLI	CATION FOR PE	RMIT TO DRIL	L OR DEEPEN		N/A	
ia. TYPE OF WORK					7. UNIT AGREEMENT NAME	
b. TYPE OF WELL		DEEPEN	ن بر بڑ		Indian Hills U	^{me} /64119
	GAS WELL X OTHER		SINGLE X MULTIP	LE 🗖 🖓	8. FARM OR LEASE NAME, V	
. NAME OF OPERATOR	11/7 1	1		2 12	Indian Hills U	nit #35
Marathon Oil Comp		<u> </u>	RECEIVED	ن ا ب ب ب ب	9. API WELL NO.	
ADDRESS AND TELEPHONE I			OCD - ARTE	687-8367	30 ° 015 -	32199
LOCATION OF WELL (Repo	rt location clearly and in accorda	nce with any State requirement		<u>्र</u> ्थ/		oper Penn. Assoc
At surface	FEL VI SUBJEC		Service and the service of the servi	C'SY	Indian Basin M	DITOW
At proposed prod. zone	TED WISSOBJEC	T TO LIKE APP	HOVAL BY SHATE		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
	310' FEL, Mor. 1252				Sec. 33, T-21-	
15 miles NW of Ca	RECTION FROM NEAREST TOWN	OR POST OFFICE*			12. COUNTY OR PARISH Eddy	13. STATE N.M.
DISTANCE FROM PROPOSEI		16. N	O. OF ACRES IN LEASE		CRES ASSIGNED	<u>N.M.</u>
PROPERTY OR LEASE LINE. (Also to nearest drlg, unit 1		3	20/640	TO THIS W	320/640	
8. DISTANCE FROM PROPOSEI TO NEAREST WELL, DRILLI	D LOCATION*	20. ROTARY	OR CABLE TOOLS			
OR APPLIED FOR, ON THIS	LEASE, FT. 1060'	1	0,700'	Rota	T	······
1. ELEVATIONS (Show wheth	her DF,RT, GR, etc.)	Carlaba	Contrelled Water B	-	22. APPROX. DATE WORK	WILL START*
123' G.L	······		· · ··································	2517	ASAP	
	J	ROPOSED CASING AND	CEMENTING PROGRAM	1		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEME	NT
<u>12.25"</u> 8.75"	<u>9-5/8" К-55</u> 8-3/4" К-55	<u> </u>	<u> </u>	785 sk 1400 s		
to a Standard penetration p Hills Unit # Distance from	l Upper Penn penetra point. This well is 9 where the old rea n the Terminus point	ation point and a s on the existing serve pit will be t of the IHU # 3	e Indian Hills Unit a Non Standard Morre g well pad of the In e re-entered. 5 to the SHL of Ind c. 28, T-21-S, R-24	# 35 G ow S ndian A ian Hills	PPROVAL SUB Eneral Requ Pecial Stipu Tt ached	IREMENTS AND
Any additional ABOVE SPACE DESCRIPTION	BE PROPOSED PROGRAM:	ed will be surve	v. 8,1995 600' surv yed by contract Arc tive data on present productive z ical depths. Give blowout prevent	haeologis	t. ed new productive zone. If j	proposal is to drill or
SIGNED (This space for Federal or	state office use)		Engineer tech.		DATE 10/08/	01
(The space for Tederal Of						
PERMIT NO Application approval does no CONDITIONS OF APPROV		ids legal or equitable title to those	APPROVAL DATE	entitle the applican	t to conduct operations thereon.	
APPROVED BY	/ LESLIE A. 1		FIELD MANA	GER	DATE FEB 0.5	2002
	ion 1001, makes it a crime it statements or representation		ly and willfully to make to a		nt or agency of the Unite	•

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DISTRICT I

P.O. Box 1980, Hobbs, NM 88341-1980

DISTRICT II P.O. Brawer DD, Artenia, NM 86211-0719 , ---

DISTRICT III 1000 Rio Brazos Rd., Aztec, NN 87410

DISTRICT IV

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WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED DEDAD

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	FE, N.M. 87	DD4-2085		CATION	AND ACR	EAGE DEDICATI	UN PLAT	AMENDED	REPORT		
API N	lumber			Pool Code			Pool Name		··· · · · · · · · · · · · · ·		
Durante G		T	l		l	See attached	C-102 for	ms			
Property Co	Dae			IN	Property N DIAN HILL			Well Num 35	ber		
OGRID No.					Operator N	lame		Elevatio	a		
14021				MARAT	HON OIL	COMPANY		4123	3'		
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Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Ore	ler No.						
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r			NON-STAN	DARD UN	IT HAS BEE	N APPROVED BY	THE DIVISION				
							OPERATO	R CERTIFICAT	ION		
				I hereby certify							
				contained herein is true and comple best of my knowledge and belief.							
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		<u> </u>				<u> </u>	SURVEYO	R CERTIFICAT	ION		
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			ا ا				Certificate No	. BONACO DE EDSO.	N 3239 12641		

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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Thirteen Point Surface Use Plan MARATHON OIL COMPANY

INDIAN HILLS UNIT #35 Sec. 33, 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, take left @ "Y" of Marathon Road and Hwy.137, travel 4.7 miles, turn left on lease road, follow1.5 miles, turn left, go .3 mile, turn left @ "Y" follow 4-3/4 miles to existing access road on the left. Well site on same location as IHU # 9.
 - 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. An existing access road will be used. The access road enters the drilling pad on the Southeast corner. The drilling location will have a V-Door facing North. Construction plans will require blading and rolling the road and pad.
- 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 five 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.
 - b. <u>New Facilities</u>: Facility is in place . Two flow lines will be constructed to go to existing facility# 133. A separate action will be filed for R.O.W. permit.
 - 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. If Fas-line is to be used, Marathon will follow existing ROW corridor.
 - c. No water well will be drilled on this location.

6. <u>Source of Construction Materials</u>:

- 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. <u>Well site Layout</u>:

- 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).

A. P. D. (cont.) Thirteen Point Surface Use Plan Indian Hills Unit #35

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. 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 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..

A. P. D. (cont.) **Thirteen Point Surface Use Plan** Indian Hills Unit #35

12. **Operator Representatives:** R. J. Longmire Drilling, Completion, & Workover Superintendent P. O. Box 552 Midland, TX 79702 800/351-1417 915/682-1626 915/687-8344 (Direct Line) 915/499-7964(Pager)

13. Certification:

> 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.

<u>8 October 2001</u> Date

R. J. Longmire

A. P. D. (cont.) Thirteen Point Surface Use Plan Indian Hills Unit #35

DRILLING PROGRAM MARATHON OIL COMPANY INDIAN HILLS UNIT #35

1. Estimated KB Elevation: 4140' KB 17' Rig Floor

	TOP		BASE	BASE			
FORMATION	MEASURED	SUBSEA	MEASURED	SUBSEA	CONTENT		
Queen	Surface	+4140'	650'	+ 3490'	Water		
San Andres	650'	+3490'	2825'	+1315'	water		
Glorietta	2825'	+1315'	6960'	-2820'			
Dean	6960'	-2820'	7240'	-3100'			
Wolfcamp	7240'	-3100'	7890'	-3750'	Oil & Gas		
Cisco	7890'	-3750'	8060'	-3920'			
Canyon	8060'	-3920	8570'	-4430'			
Strawn	8570'	-4430'	9320'	-5150'	Gas, Oil & Water		
Atoka	9320'	-5180'	9660'	-5520'			
Morrow	9660'	-5520'	10, 220'	-6080'	Gas		
T.D.	10,200'	-6080'	10,700'	-6560			

FORMATION	EST PSIG	SBHP PPG EMW	EST DEG f	SBHT	H2S <u>PPM</u>	SIGNIFICANCE (obj, marker, etc.)
Glorietta	1210	8.5			500	marker
Wolfcamp	1680	9.0			5000	marker
Canyon	1810	9.0				marker
Strawn/ U.P.	2050	9.0			500	objective pay
Morrow	3460	9.2			0	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:

<u>9-5/8" Surface:</u> 11" 3M annular tested to 300#/3000#, 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 preventer will be installed and tested prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventer will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded

on the daily drilling report. Preventer and casing will be pressure tested before drilling casing cement plugs. Upper and lower kelly cocks with valve handle, safety valve and subs to fit all drill string connections in use will be available on rig floor.

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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 FROM	гн <u>то</u>	SECTION LENGT		HOLE <u>SIZE</u>	CSG SIZE	WT. PPF	GRADE			NEW USED
0	1800'	1800'		12.25"	9-5/8"	36#	K-55	8rd, ST	C	New
0	4800'	4800'		8.75"	7-0"	23#	K-55	8rd, LT&	8C	New
4800'	10,700'	5900'		8.75"	7-0"	26#	K-55	8rd, LT	&C	New
Casing <u>String</u>	DV Depth	Stg.	Lead <u>Tail</u>	Amt <u>SXS</u>	Type Cemen	<u>at</u>	Yield <u>CF/SX</u>	Wt. <u>PPG.</u>	<u>10C</u>	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 F	Plus.	2.02	14.8	surf	2% cacl; 5#/sk Flocele
9-5/8"			т	200	Prem.	Plus	1.34	14.8	surf	2% CaCl
7"	6400'	1	L	250	"H" Foa	amed	2.13	9.3	6400 ʻ	Foamed N2
7"		1	Т	350	"H" Fo	amed.	1.44	13.0	7000'	Foamed N2
7"		2	L	700	Interf	ill "C"	2.47	14.0	Surf.	Flocele 1/4#/ sk
7"		2	т	100	"C" Ne	eat	1.32	14.8	5900'	5# /sk Gilsonite

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:

- 9-5/8"" Conventional centralizers , Bottom 3-joints and every 4th joint to surface.
- 7.0" Conventional centralizers middle of 1st joint, then every joint to 7500', and 1 cent. Every 4th joint thereafter to 10,700'.

5. Mud Program

DEP	TH		WEIGH	т	WL		VISUAL
FROM	TO	MUD TYPE	(PPG)	VIS	<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 ₂ S Scavenger	Reserve
5000'	7000'	fresh	8.9	32-36	N/C	Gel, caustic, H ₂ S Scavenger	Reserve
7000'	8800'	cut brine	9.0	32-36	<20	Gel, caustic, H ₂ S Scavenger	Steel Pits
8800'	10,700'	cut brine	9.2	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. 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'

7. Abnormal Pressures, Temperatures or Potential Hazards:

None anticipated. Possible H₂S in Cisco & Strawn. 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.

This well shall be directionally drilled to a standard Upper Penn/ Strawn BHL. and a Non standard Morrow BHL. Directional plan provided by Baker Inteq is attached.



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

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DISTRICT I P.O. Box 1980, Hobbs	, NM 88841-1	980					Mexico		For Revised Februar	m C-102	
DISTRICT II P.O. Drawer DD, Arts	nta, NM 88211	-0719	OIL	CON		Submit	to Appropriate Dist State Lease - Fee Lease -	rict Office - 4 Copies			
DISTRICT III 1000 Rio Brazow H	kd., Astec, N	¥ 87410		Santa F			o 87504–2088	1		-	
DISTRICT IV P.O. BOI 2008, SANT	4 178 , N.M. 87	504-2088	WELL LC	CATION	AND	ACREA	GE DEDICAT	ION PLAT	AMENDED	REPORT	
API	Number			Pool Code		See	attached	Pool Name C-102 Form			
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DISTRICT I P.O. Box 1980, Hobbs, NM 88841-1980

DISTRICT IV

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DISTRICT II P.O. Drawer DD, Artonia, NM 86211-0719

DISTRICT III 1000 Niu Brazon Rd., Aztec, NM 87410

P.O. BOX 2008, MANTA FE, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

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P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number		Pool Code				Pool Code Pool Name							
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В	33	21-S	24-E		108	7	NORTH	20	37	EAST	EDDY			
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Dedicated Acre	. Joint o	r Infill C	onsolidation	Code Ore	ier No.									
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		OR A	NON-STAN	DARD UN	IT HAS	BEEN	APPROVED BY	THE	DIVISION					
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3	3	 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 knowledge and belief. Date Surveyed Signature & Seal of Professional Surveyor
		Cenificate No.

DISTRICT I P.G. Box 1980, Hobbs, NM 88841-1980

DISTRICT II P.U. Drawer DD, Arlonia, NM 66211-0719

DISTRICT III 1000

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State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088 Pa New Mexico 87 m.t.

DISTRICT III 1000 rig hiaada k	d., Astec, NI	M 87410		Santa Fe	e, New Mexic	o 87504-2088				
DISTRICT IV P.O. BOX 2008, BANTA	A FB, N.M. 87	504-2088	VELL LO	CATION	AND ACREA	GE DEDICATIO	ON PLAT	🗆 AMENDEI) REPORT	
API Number		1	ool Code		Pool Name					
					In	dian Basin	Morrow			
Property Code		Property Name Indian Hills Unit					Well Number/ 35			
UGRID No.		Operator Name					Elevation			
14021			MARATHON OIL COMPANY						4123	
					Surface Loca	ation				
UL or lot No.	Section	Township	Range	Lot idm	Feet from the	North/South line	Feet from the	East/West line	County	
В	33	21-S	24-E		1087	NORTH	2037	East	EDDY	
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UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
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	Indian Basin	Standard internal	N	Tille
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Υ.				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 supervison, and that the same is true and correct to the best of my knowledge and belief.
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Λ		Morrow tlop		Signature & Seal of Professional Surveyor
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		T		OPERATOR CERTIFICATION
		IHU # 9		I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
		990'FNL1980 2037'	' F E	L
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3 3	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 supervison, and that the same is true and correct to the best of my knowledge and belief.
	Date Surveyed Signature & Seal of Professional Surveyor
	Certificate No.

Date