m 3160-3 y 1992)	/		SUBMIT IN TRIP	tions on	FORM APPRC OMB NO. 100 Expires: Februar	4-0136
y 1992) -	DEPARTMENT			lae)	5. LEASE DESIGNATION AND	
					JA16.394	46
	BUREAU OF	LAND MANAGEN			6. IF INDIAN, ALLOTTEE OR T	RÍBE NAME
	CATION FOR PE	RMIT TO DRIL	L OR DEEPEN		N/A 7. UNIT AGREEMENT NAME	<u> </u>
TYPE OF WORK	<u> </u>				Indian Basin	
		DEEPEN 📖			6	406
	GAS X OTHER		SINGLE X MULTI ZONE ZONE		8. FARM OR LEASE NAME, W	
AME OF OPERATOR	WELL OTHER		ZONE 20ME		Indain Basin "I	++ J
rathon Oil Comp	Dariy 1402				9. API WELL NO.	<u></u>
DDRESS AND TELEPHONE					<u> 30-015</u>	<u>- 51115</u>
0. Box 552 Mid			PUD & TIME TO WITNES	SS <u>.417</u>	10. FIELD AND POOL, OR WII Indian Basin U	
OCATION OF WELL (Report t surface 1470	ort location clearly and in accordance	nce				
80' FSL & 1870'				'n	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
t proposed prod. zone	utir			125	Sec. 34, T-21-	S, R-23-E
	DIRECTION FROM NEAREST TOWN	OR POST OFFICE*			12. COUNTY OR PARISH	13. STATE
DISTANCE IN MILES AND I miles N.W. of					Eddy	N.M.
DISTANCE FROM PROPOSI	ED*	16. N	IO. OF ACRES IN LEASE	17. NO. OF A TO THIS	ACRES ASSIGNED WELL	
LOCATION TO NEAREST PROPERTY OR LEASE LIN	E, FT. ( line, if any) <b>1870 ' FEL</b>		540		640	
(Also to nearest drig, unit DISTANCE FROM PROPOSI	ED LOCATION*	19. P	PROPOSED DEPTH	20. ROTARY	Y OR CABLE TOOLS	
TO NEAREST WELL, DRILL OR APPLIED FOR, ON THIS	LING, COMPLETED,		3200'	Rota	22. APPROX. DATE WORK	WILL START*
ELEVATIONS (Show whe						
L. 3974'					March 25,200	<u> </u>
		PROPOSED CASING AND	CEMENTING PROGRAM	(SEE	<u>ST(PS)</u>	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEM	ENT
SIZE OF HOLE			00110-0-0-0	75	UCANTITY OF CEM	
12.25"	9-5/8" K-55	36.00#	1200+ 12.	500 s	ks. Circ. to surf	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
12.25" 8.750"	9-5/8" K-55 7.0" K-55	36.00# 23# & 26#	1200+ 12. 8200'	1280 S L	ks. Circ. to surf sks. to surface	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
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8.750" Marathon Oil This will be line Well was pla	7.0" K-55 Company is proposi a an Unorthodox loca aced in a Non-Standa	36.00# 23# & 26# ng to drill a Ir ation due to the ard area due to the	1200+ 12 8200' N ndian Basin Upper F internal governmen topographical const	1280 SL Penn. well ntal 330' traints.	ks. Circ. to surf sks. to surface quarter/ quarter	section
8.750" Marathon Oil This will be line Well was pla	7.0" K-55 Company is proposi a an Unorthodox loca aced in a Non-Standa	36.00# 23# & 26# ng to drill a Ir ation due to the ard area due to the	1200+ 12 8200' N ndian Basin Upper F internal governmen topographical const	1280 SL Penn. well ntal 330' traints.	ks. Circ. to surf sks. to surface quarter/ quarter	ace
8.750" Marathon Oil This will be line Well was pla	7.0" K-55 Company is proposi a an Unorthodox loca aced in a Non-Standa	36.00# 23# & 26# ng to drill a Ir ation due to the ard area due to the	1200+ 12 8200' N ndian Basin Upper F internal governmen topographical const	1280 SL Penn. well ntal 330' traints.	ks. Circ. to surf sks. to surface quarter/ quarter	section
8.750" Marathon Oil This will be line Well was pla	7.0" K-55 Company is proposi a an Unorthodox loca aced in a Non-Standa	$36.00 \#$ $23 \# \& 26 \#$ and to drill a Ir ation due to the ard area due to the ard area due to the $3^{3} + 75 + 75 + 75 + 75 + 75 + 75 + 75 + 7$	1200+ 12 8200' N adian Basin Upper I internal governmen topographical const Basin "D" # 3 is :	1280 SL Perm. well ntal 330' traints. 1791'	ks. Circ. to surf sks. to surface	section
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8.750" Marathon Oil This will be line Well was pla * Distance f ABOVE SPACE DESCH epen directionally, give pu SIGNED	7.0" K-55 Company is proposi a an Unorthodox loca aced in a Non-Standa from Indian Basin "I RIBE PROPOSED PROGRAM ertinent data on subsurface loca Company is proposition RIBE PROPOSED PROGRAM on the subsurface loca aced in a Non-Standa from Indian Basin "I on the subsurface loca aced in a Non-Standa from Indian Basin "I on the subsurface loca aced in a s	36.00# 23# & 26# and to drill a Ir ation due to the ard area due to the If proposal is to deepen as and measured and true volume IE OF TITLE	1200+ 12 8200' N ndian Basin Upper I internal governmen topographical const Basin "D" # 3 is : , give data on present productive rrite a depths. Give blowout pre-	1280 SL Perm. well ntal 330' traints. 1791' A TACI ve zone and proj venter program,	ks. Circ. to surf sks. to surface quarter/ quarter	section f proposal is to drill or
8.750" Marathon Oil This will be line Well was pla * Distance f ABOVE SPACE DESCH epen directionally, give po SIGNED (This space for Federal PERMIT NO. Application approval does	7.0" K-55 Company is proposi a an Unorthodox loca aced in a Non-Standa from Indian Basin "I RIBE PROPOSED PROGRAM ertinent data on subsurface loca w um Muthur lor State office use)	36.00# 23# & 26# and to drill a Ir ation due to the ard area due to the If proposal is to deepen as and measured and true volume IE OF TITLE	1200+ 12 8200' N ndian Basin Upper I internal governmen topographical const Basin "D" # 3 is : , give data on present productive rrite a depths. Give blowout pre-	1280 SL Perm. well ntal 330' traints. 1791' A TACI ve zone and proj venter program,	ks. Circ. to surf sks. to surface quarter/ quarter	section f proposal is to drill or
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fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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DISTRICT I .0. Box 1980, Eobbe, M DISTRICT II .0. Drawar DD, Artesia, DISTRICT III				Energy, M	P.O. Box 20	escurces Department	Submit to	Forn Revised February Appropriate Distr State Lease – Fee Lease –	ict Office 4 Copics
000 Rio Brazos Rd.,	Axtec, NM	87410	L						
ISTRICT IV	76, N.M. 876	04-2055	WELL LOO	CATION	AND ACREA	GE DEDICATIO	ON PLAT	AMENDED	REPORT
API N	umber		Р	ool Code			Pool Name		
Property Co	de			IN	Property Nam DIAN BASIN		oper Penn.	Gas Well Num 3	ber
OGRID No.	<u> </u>				Operator Nam			Elevatio 3974	_
14021				MARAI	HON OIL C		/		, 
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	34	21-S	23-E		1980	SOUTH	1870	EAST	EDDY
UL or lot No.	Section	Township	Bottom Range	Hole Loc Lat Idn	Feet from the	North/South line	face Feet from the	East/West line	County
				$\backslash$					
Ind	lian	Basin "	ישי # 2				I hereb contained herei best of my know Signature Jerry Printed Nam	eer Tech.	rf <del>ormation</del> lete to the
		/					SURVEY	OR CERTIFICA	
In	dian (	Basin •••	"D" # 1	398		- 1870'	on this plat a actual survey supervison a correct to t	c Seal of	eld notes of under my is true are ief.
	\				5		Certificate	81-1-0035 No: RONALD J. EL GARY EIDSON	BSON 3236 1264

Form 3160- (August 199	DEPARTMEN 1	STATES OF THE INTERIOR ND MANAGEMENT			OME Expires	M APPROVED 3 NO. 1004-0135 November 30, 2000
	BUREAU OF LAI SUNDRY NOTICES	AND REPORTS ON	N.M. OII	Cons. DI	/ISIOT	
	SUNDRY NOTICES A Do not use this form for p abandoned well. Use Form	proposals to drill or to 3160-3 (APD) for su	re-enteran S. 1s uch pro <b>Artesia, l</b>	NM 8821	6. If Indian, Al -2834	lottee or Tribe Name
						A/Agreement, Name and/or N
	SUBMIT IN TRIPLICATE - (	other instructions o			Indain Bas	
1. Type of Oil Oil	Well X Gas Well Other				8. Well Name Indian Bas	
	hon Oil Company				9. API Well N	0.
3a. Addres		3	Bb. Phone No. (include ar	ea code)		
P.O	Box 552 Midland, TX 79702		915-687-8357			Pool, or Exploratory Area
	of Well (Footage, Sec., T., R., M., or Survey L	Description)			Incian bas	in Upper Penn.
	4, T-21-S, R-23-E				11. County or	Parish, State
	FSL & 1470' FEL				Eddy	N.M
Eddy	12. CHECK APPROPRIATE		CATE NATURE OF	NOTICE, REP		HER DATA
	12. CHECK APPROPRIATE			PE OF ACTION		
				Production	(Start/Resume)	Water Shut-Off
	X Notice of Intent	Acidize	Deepen			
		Alter Casing	Fracture Treat	Reclamatio	nc	Well Integrity
	Subsequent Report	Casing Repair	New Construction	Recomple	te	Other
	Final Abandonment Notice	X Change Plans	Plug and Abandon	Temporari	ily Abandon	······································
	Final Adandonment Nonee	Convert to Injection	Plug Back	Water Dis	posal	
Atta follo test dete Man On Upx dua Plo * : 21 Th it We	cribe Proposed or Completed Operation (clear) le proposal is to deepen directionally or recomplete the Bond under which the work will be per- powing completion of the involved operations. Ing has been completed. Final Abandonment li- mined that the final site is ready for final insp rathom has changed the surface- site performed. On examination of the site, it a East 400 feet to avoid topogra- ease reference the new C-102 so cases see new ground elevation of Distance from the Indian Basin 85'. Item # 15 on 3160-3 is cl is is an Unorthodox well locat is closer than 330' to the qu ll was placed in this area due 1 other information on original	<pre>infinite of provide the pertion results in Notices shall be filed only ection.) location of our was determined w caphical problems invey plat and ma on C-102. "D" # 2 to the 1 hanged to 1470' F ion. It is close arter/ quarter se to topographical</pre>	a multiple completion or i y after all requirements, in Indian Basin "D" we needed to move a. mps. Endian Basin "D" FEL. ar than 1650' to action lines. L constraints.	# 3 well du well stake	new interval, a F ion, have been c	Form 3160-4 shall be filed once ompleted, and the operator has
14   her	eby certify that the foregoing is true and correc	t	Title			
Nam	(Printed/Typed) Jerry Fletche		Engi	neer Tech.		
	1 14		Date 2/22/0			
	hung fillitte					
	ТН	IS SPACE FOR FED	ERAL OR STATE O			Date
Арргоч	ed by	- 1	Title	and the states of the states o	the second second	
certify th	ns of approval, if any, are attached. Approval hat the applicant holds legal or equitable title out entitie the applicant to conduct operations	thereon.		Rici .		
Title 19	U.S.C. Section 1001, and Title 43 U.S.C. Sect ny false, fictitious or fraudulent statements or r	ion 1212, makes it a crim	e for any person knowing natter within its jurisdiction	y and willfully to	make to any dep	artment or agency of the United
Statts a				APE-		1 YEAH

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1 YEAR

DISTRICT I				ç	State	of New	Mexico			n C-102
P.O. Bax 1980, Hobbs, NJ	<b>4 8624</b> 1-19	80					esources Department		Revised February to Appropriate Distr	ict Office
DISTRICT II P.O. Drawer DD, Artenia.	NM 88211-	-0719	OIL		P.0.	Box 2		( <b>ON</b>	State Lease – Fee Lease –	
DISTRICT III 1000 Rio Brazos Rd.,	Axtec, Na	6 87410		Santa F	e, New	Mexico	b 87504-2088			
DISTRICT IV P.O. BOX 2055, SANTA F	<b>1</b> , n.M. 876	04-2088	WELL LO	CATION	AND	ACREA	GE DEDICATIO	ON PLAT	AMENDED	REPORT
API Nu	mber		1	Pool Code		7.1	Dacin II	Pool Name		
Property Cod				Perty Nam BASIN		pper renn.	Well Num	ber		
OGRID No.					Ope	rator Nam			Elevatio 3974	
14021				MARA		ce Loca		·····		
UL or lot No.	Section	Township	Range	Lot Idn		om the	North/South line	Feet from the	East/West line	County
J	34	21-S	23-E		198	0	SOUTH	1470	EAST	EDDY
		1	Bottom	Hole Lo	cation	If Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet fi	rom the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	or Infill (	consolidation	Code Or	der No.		I	I	l	I
640									. <u></u>	
NO ALLOW	ABLE V	VILL BE A	ASSIGNED NON-STAN	TO THIS	COMPL VIT HAS	ETION U S BEEN	JNTIL ALL INTER APPROVED BY	RESTS HAVE BI THE DIVISION	EEN CONSOLIDA	ATED
			$\overline{}$		$\overline{}$		<u> </u>	OPERATO	OR CERTIFICAT	TION
	Ň		·					I hereb contained herei	y certify the the in in is true and compl wiedge and belief.	formation.
Trd	ian B	asin I	) # 2					La la	y Flittel	
								Signature		
	3	or						Printed Nam	Fletcher	
		Ũ						Engine	er Tech.	
									/01	
								SURVEY	OR CERTIFICA	TION
					3965.7	3	974.0'		fy that the well loca was plotted from field made by me or	
	ndin	Baci:	D # 1				1470'	supervison a	met that the same i he best of my beli	s true and
	nutai	Dasi					1470			-
		0-			3974.7	' 3	980.4'	Date Survey	Address of the state of the sta	AWB
				-		980'		Professions		
						196		Konild	Eulor 02/16	101
									Q1-11-00 <b>3</b> 5	
							<b>\</b> \	Certificate	No. RONALD J. EH GARY EIDSON	SON 3239 1264
$ \mathbf{k} \times \mathbf{k} $	<u> </u>	1	<u> </u>	N			<u> </u>		4400 (A. 1997)	

VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>34</u> TWP.<u>21-S</u> RGE. <u>23E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1980' FSL & 1470' FEL</u> ELEVATION <u>3974</u> OPERATOR <u>MARATHON OIL COMPANY</u> LEASE INDIAN BASIN "D"

## LOCATION VERFICATION MAP



SCALE: 1" = 2000'

SEC. <u>34</u> TWP.<u>21-S</u> RGE.<u>23E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1980' FSL & 1470' FEL</u> ELEVATION <u>3974</u> OPERATOR <u>MARATHON OIL COMPANY</u> LEASE <u>INDIAN BASIN "D"</u> U.S.G.S. TOPOGRAPHIC MAP MARTHA CREEK N.M. CONTOUR INTERVAL: 20' MARTHA CREEK N.M.

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. <u>34</u> TWP.<u>21-S</u> RGE. <u>23E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1980'FSL & 1870'FEL</u> ELEVATION <u>3974</u> OPERATOR <u>MARATHON OIL COMPANY</u> LEASE INDIAN BASIN "D"

# LOCATION VERFICATION MAP



SCALE: 1" = 2000'

SEC. <u>34</u> TWP.<u>21-S</u> RGE. <u>23E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1980'FSL & 1870'FEL</u> ELEVATION <u>3974</u> OPERATOR <u>MARATHON OIL COMPANY</u> LEASE <u>INDIAN BASIN "D"</u> U.S.G.S. TOPOGRAPHIC MAP MARTHA CREEK N.M. CONTOUR INTERVAL: 20' MARTHA CREEK N.M.

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/ Mora	thon Eland Ener	/ Mega 4 Yatas Pet 1 Million Yatas Pet 1 9 44 92 92147 5 45 55 52147		Trinoura: 31 t' / prinoco (Conneco) HBP Pelites 14511; l'totes Per ettol La Maria 15 l'a LV Tat.	3 (H 1877 ) FBI	(Landmark   Dov Gas Corp., 1/2)
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	5	At arothen	Manather	Marathe #10 6.1933 P1275	Marathon 2	, (
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0 P +r Stndrr Ex; I 4 30-1 1-1 73 50 1 435 293		155.37	03×11 .43Mil	● (3H). 0 1 5 6 6 P215 P67C P215	5 CSEBO Fed. 12 CSEBO Marr. Disc. Yates	79.81 2 42.20 6 42 1 Sonta Fr. En
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	aNetCalifornia Oil	Eraban Neg Swatan N E-13 661 6-15 6	Wirdthon	Sociality : 100 2 - 1 - 34 - 1 8 C € 78 - 0 <sup>6</sup> ● 73 25	Santa Fe Ener. * 200 *** 1.4 Nil. 12 541 7899	Yetes Eland En Peteral 6 19 60 74-677 Eloise VA-676 HBU ASS ET Yet
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#### Thirteen Point Surface Use Plan MARATHON OIL COMPANY

#### Indian Basin "D" # 3 Sec. 34, T-21-S, R-23-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) 5.2 miles, turn South on wide caliche road, follow .8 mile, turn East follow .5 mile, take Right "Y" follow 1.5 miles to new access road on right. Follow new access road West .9 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. Planned Access Road: Refer to Vicinity Lease Map.

Access will be by existing State roads, lease roads, and .9 mile of new access road. Construction plans will require blading and rolling the road and pad. The access road enters the drilling pad on the Southeast corner. The drilling location will have the rig V-door facing Northeast.

- 3. Location of Existing Wells: See Vicinity Lease Map.
- Location of Existing and Proposed Production Facilities within a one-mile radius:
  - a. Existing: There are seven oil and gas wells operated by Marathon, Santa Fe, and Oryx within a one-mile radius of the proposed location. These locations have production facilities including separators, condensate, oil, water storage tanks. Marathon, Santa Fe and Oryx operate a variety of dehydrators, meter runs, and several gathering lines in the one-mile radius.
  - b. New Facilities : No new facilities are proposed at this time. The power line and flowline will be permitted on a separate action .
    - 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. 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.

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#### 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 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.

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- 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 3 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..
- 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 915/687-8344 (Direct Line) 915/495-2336 (Pager)
- 13. <u>Certification</u>:

A: P. D. (cont.) Thirteen Point Surface Use Plan Indian Basin "D" # 3

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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.

1/19/2001 Date

R. J. Longmire

#### DRILLING PROGRAM MARATHON OIL COMPANY Indian Basin "D" # 3

#### 1. Estimated KB Elevation: 3990' KB

FORMATION		TOP MEASURED	SUBSEA	BASE- MEASURED	SUBSEA	FLUID <u>CONTENT</u>
Queen San Andres Glorietta Yeso Bone Spring Tubb Wolfcamp Cisco Canyon Upper Penn		Surface 535' 2073' 2220 3710' 5860 6010' 7385' 7550' 8000	+3990' +3455' +1917' +1770' -280' - 1870' -2020' -3395' -3560 -4010	535' 2073' 2355' 3710 5860 6010' 7385' 7550 8000' 8200	+3455' +1917' +1635' -280 -1870' -2020 -3395' -3560 -4010 -4210	water water oil gas oil gas gas,oil, water
	<u>PSIG</u>	PPG EMW	DEG f	<u>PPM</u>	<u>(obj, marker, etc</u>	<u>)</u>
Bone Springs Wolfcamp B/Permian Shale U.Penn.	1210 1680 1810 2050	8.5 8.5 9.0 9.0		500 5000 0 5000	marker marker marker objective pa	y

#### 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.

#### ressure control Equipment.

<u>9-5/8" Surface:</u> 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, 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 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.

#### Test Frequency

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

4.

#### Casing and Cement Program: 4.

DEP1 <u>FROM</u>	<u>T0</u>	SECTION LENGTH	HOLE <u>SIZE</u>	CSG <u>SIZE</u>	WT. <u>PPF</u>	<u>GRADE</u>	THREADS COUPLINGS	NEW USED
0	1200	1200 1250	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'	8200'	3400'	8.750"	7.00"	26.00	K-55	8rd, LT&C	New

	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>	<u>тос</u>	Additives
9.625"	none	1	L	350	"C"	2.02	12.4	surf.	5# /Sk.Gilsonite,2% Cacl1/4# cello
9.625"	none		т	150	"C Neat	1.34	14.8	800'	2% Cacl, ¼# cello
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		1/4pps Cello,3pps Gilsonite,0.2% Halad 322
7.0		2	т	100	"C" Neat	1.32	14.8	6000'	N/A I

#### A. P. D. (cont.) Thirteen Point Surface Use Plan Indian Basin "D" # 3

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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 fourth joint to surface.

7.0" 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 8200'

#### 5. <u>Mud Program</u>

DEPTH 260		WEIGH	WEIGHT			VISUAL	
FROM	TONC	MUD TYPE	<u>(PPG)</u>	<u> VIS</u>	<u>CC</u>	ADDITIVES	MONTR.
0	1200	fresh water	8.3	28	N/A	Gel, Lime	Reserve
1200'	7800'	fresh	8.5	28-32	N/C	Gel, caustic, H <sub>2</sub> S Scavenger	Reserve
7800'	8200'	Cut Brine	9.0	32-36	>20	Gel, Starch, Caustic	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 <u>FROM</u>	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 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 - 18 days, completion - 10 days.

#### H2S DRILLING OPERATIONS PLAN

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#### 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.

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### 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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