DISTRICT I

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P.O. Box 1980, Hobbs, 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

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

DISTRICT III 1000 Bio Brasos Rd., Astec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

AMENDED REPORT

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

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Thirteen Point Surface Use Plan MARATHON OIL COMPANY

INDIAN BASIN "C" #3 Sec. 26, T-21-S, R-23-E Eddy County, New Mexico

- 1. <u>Existing Roads</u>: 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: Turn South on extant lease road 1 mile West of IBGP. Follow road 1 mile South, .75 miles East, .3 miles South, .3 miles East to new access road.
 - 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 lease roads and 1,500' of new access. Construction plans will require a cattle guard to be installed in the fence line, blading and rolling the road and pad. The access road enters the drilling pad on the Southwest corner. The drilling location will have a V-door facing east with pits built into the cut.

- 3. <u>Location of Existing Wells</u>: 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 starage tanks. Marathon, Santa Fe, and ORYX operate a variety of dehydrators, meter runs, and several gathering lines in the one-mile radius.
 - b. <u>New Facilities</u>: The proposed location will have a separator and gas sales line. The actual equipment and its configuration will be determined after the well is completed.
 - 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, SE/4, NW/4, Sec. 28, T-21-S, R-24-E.
 - b. The water will be trucked by a contractor over existing roads to the well location. 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. <u>Wellsite Layout</u>:

- a. The wellpad layout shows the drillsite layout as staked. Topsoil will be stockpiled per specifications.
- b. The reserve pit will be fenced on three sides before drilling begins. The fourth side will be fenced when the drilling rig leaves location.
- c. The reserve pit will be lined (8 mil material).

10. Plans for Restoration of the Surface:

- a. Backfilling, leveling, and contouring are planned as soon as all pits have dried. Waste disposal and spoiled materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- b. The stockpiled topsoil from construction will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula by BLM.
- c. The reserve pit will be fenced during drilling operations. Fencing will be maintained until contouring and cleanup are accomplished.

- If any oil is in the pits and is not immediately removed after operations cease, the pit d. containing the oil or other adverse substances will be flagged overhead or covered with mesh.
- The rehabilitation operations will begin after the well is completed. Removal of oil or other e. 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.

Other Information: 11.

- There are no significant archaeological or cultural sites visible in the area of disturbance. A а. cultural resource survey was performed by Archaeological Consultants Inc. of Roswell.
- General topography: Shown on Vicinity Lease Map. The terrain at the wellsite is gently b. rolling hills. Vegetation is primarily sage brush and natural grasses.
- Animal life: Prairie dogs, domestic livestock, rabbits and native rodents and predators. C.
- Dwellings (nearest): Approximately 5 miles. d.
- General location: Approximately 15 miles Northwest of Carlsbad, New Mexico. е.
- Drainage: Internal f.
- Surface Owner: The surface is owned by the Federal Government. g. Surface Grazing Lessee: Biebelle, Walter, Stacy; Lyman, Patricia Shafer

12. **Operator Representatives:**

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

13. Certification:

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

5/4/99

). Quean

Date

DRILLING PROGRAM MARATHON OIL COMPANY

INDIAN BASIN "C" #3

1. Estimated KB Elevation: 3,862' KB'

	TOP-			-BASE		FLUID
FORMATION	MEASURED	<u>SUBSEA</u>	<u>MEASUI</u>	RED	<u>SUBSEA</u>	<u>CONTENT</u>
Queen San Andres Glorietta Delaware Bone Spring Wolfcamp B/Permian Shale U. Penn	Surface 650' 2250' 3300' 4300' 5950' 7520'. 7520'.	+3862' +3212' +1612' +562' -438' -2088' -3658' -3668'	650' 2250' 2355' 4300' 5950' 7520' 7530' 7550'		+3212' +1612' +562 -438' -2088' -3658' -3668' -3688'	water water oil gas oil gas gas, oil, water
FORMATION	EST SBH <u>PSIG PPG</u>	-	ST SBHT <u>EG f PPM</u>	H2S	SIGNIFICANC (obj. marker, et	
Bone Springs Wolfcamp B/Permian Shale U. Penn	12108.516809.018109.020509.0			500 5000	marker marker objective pay 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 200#/2000#, 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 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.

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:

	DEP1 <u>FROM</u>	ГН <u>ТО</u>	SECTION LENGT		HOLE <u>SIZE</u>	CSG <u>SIZE</u>	WT. <u>PPF</u>	GRADE	THREA		NEW <u>USED</u>
	0 0 4700'	1200' 4700' 7800'	1200' 4700' 3100'		12.25" 8.75" 8.75"	9.625" 7" 7"	36 23 26	K-55 K-55 K-55	8rd, ST 8rd, LT 8rd, LT	С	New New New
	Casing <u>String</u>	DV <u>Depth</u>	<u>Stg.</u>	Lead <u>Tail</u>	Amt <u>SXS</u>	Type <u>Cemen</u>	<u>t</u>	Yield <u>CF/SX</u>	Wt. <u>PPG.</u>	<u> </u>	Additives
	9.625"	None	1	L	200	"C" Nea	at	1.51	14.6	Surf	10% Gel, 3% CACl ₂ , 1/4# cello
9.625 "				Т	200	"C" Nea	at	1.32	14.8	Surf	2% CACI, 1/4# cello
	7"	±5600'	1	L	270	"H" Lite		1.28	15.3	5600'	5 pps Silica, .6% Halad 9, 3% salt, 3 pps Gilsonite
	7"		2	L	800	65:35 P	ΟZ	1.91	12.6	5500'	5 pps, salt, 3 pps Gilsonite, 4% Gel, 1/4 pps Cello
	7 "		2	т	100	"C" Nea	at	1.32	14.8	±1000'	2% CaCl2

Each stage will be preceded by an appropriate mud flush. Actual production hole volumes will be based on the caliper volume plus 15% excess.

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 centralizer every 4th joint thereafter to 1100'.

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

DEP FROM	гн <u>то</u>	MUD TYPE	WEIGH <u>(PPG)</u>	T VIS	WL <u>CC</u>	ADDITIVES	VISUAL <u>MONTR.</u>
0	1200'	air/mist	N/A	N/A	N/A	Soap for mist	Reserve
1200'	5000'	fresh	8.5	28-32	N/C	Gel, caustic, H ₂ S Scavenger	Reserve
5000'	7000'	cut brine	9.0	32-36	N/C	Saturated brine	Reserve
7000'	7800'	cut brine	9.0	32-36	<20	Salt 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>		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. <u>Abnormal Pressures, Temperatures or Potential Hazards</u>:

None anticipated. Possible H_2S in Cisco & Upper Penn. See H_2S Drilling Operations Plan.

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

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Anticipated Starting Date: As soon as possible.

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

LOCA.ION VERIFICATION MAP



SCALE: 1'' = 2000'

SEC. <u>26</u> TWP.<u>21–S</u> RGE.<u>23–E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1360'</u> FSL & 2200' FEL ELEVATION <u>3846'</u> OPERATOR <u>MARATHON OIL COMPANY</u> LEASE <u>INDIAN BASIN "C"</u> U.S.G.S. TOPOGRAPHIC MAP MARTHA CREEK, N.M. CONTOUR INTERVAL - 20'

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





MARATHON OIL COM. ...NY

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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LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. <u>26</u> TWP.<u>21-S</u> RGE.<u>23-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1360' FSL & 2200' FEL</u> ELEVATION <u>3846'</u> OPERATOR <u>MARATHON OIL COMPANY</u> LEASE <u>INDIAN BASIN "C"</u> U.S.G.S. TOPOGRAPHIC MAP MARTHA CREEK, N.M.

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

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