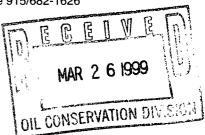


P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

(1 - Kellinhin

March 23, 1999

Mr. Mike Stogner New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department P.O. Box 2088 Santa Fe, New Mexico 87501-2088



Re:

Request for Administrative Approval for Non Standard Location

Federal "C" 35 # 3 1500' FSL & 2080' FEL Section 35, T-21-S, R-23-E Eddy County, New Mexico

Dear Mr. Stogner,

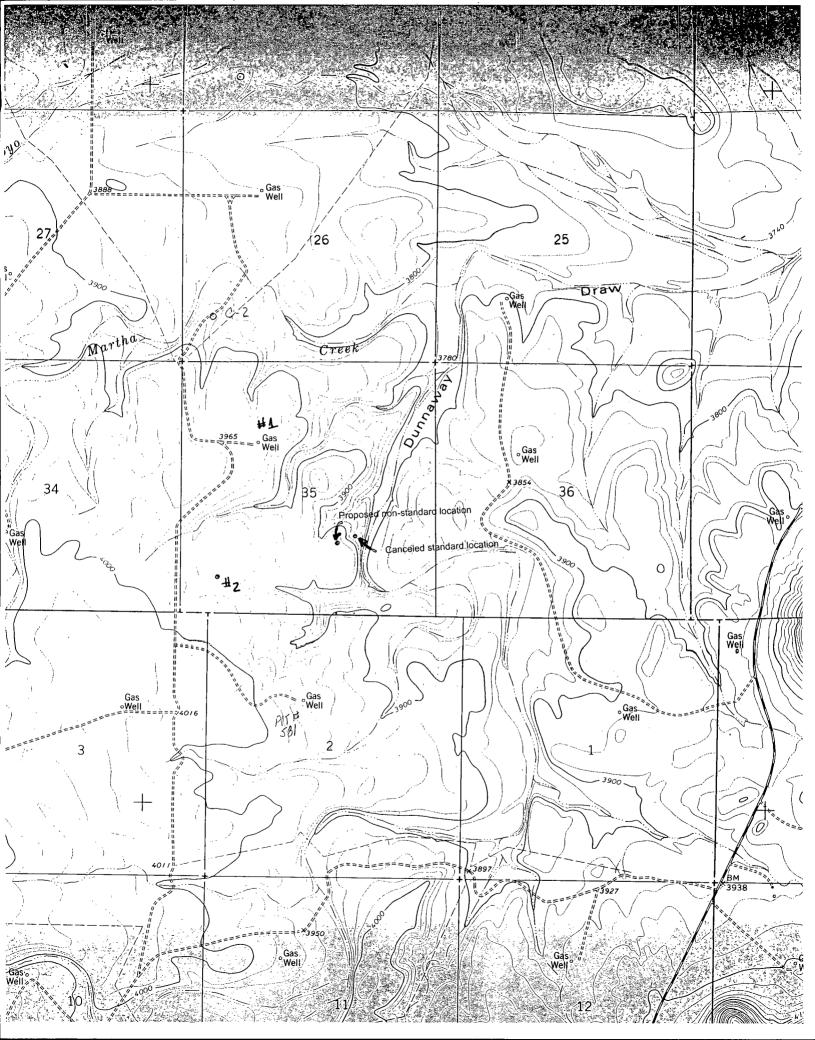
Enclosed for your review is Federal form 3160-3, Application for Permit to Drill for the above referenced well. Marathon Oil Company proposes to drill this well to test the Indian Basin-Upper Pennsylvanian Gas Pool which requires wells to be located no closer than 1650 feet from the outer boundary of the gas proration unit. A standard location was staked at 1650' FSL and 1650' FEL of Section 35 but was discouraged by the Bureau Of Land Management due to concerns of significant cut and fill damage and loss of floodplain associated with the steep hillside construction.

Attached please find a letter signed by Kerr-McGee Corporation which waives objection to our request as offset operator. Also enclosed please refer to the topographic map referencing the canceled standard location and the proposed non-standard location. This well shall require a 640 acre gas proration unit consisting of the entire section 35.

Marathon respectfully requests administrative approval for this nonstandard location based on extant topographical conditions pursuant to NMOCD rule 104.F(2). Should you have any questions please contact me at (800) 351-1417.

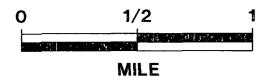
Very truly yours/

Walter Dueease



R 23 E

	1100 15 151	,"C"2	
-	MOC-I.B. 'E'	MOC-1.B. 'C'	SANTA FE-I.B.'F'
T 21 S	"D"2	35 PROPOSED LOCATION #3 $2080' \longrightarrow 2080' \longrightarrow 2$	36 $\phi^2 \text{ORYX-LOWE ST.}$
	019	of the second o	- - -
	CHEVRON-BOGLE FLATS	ORYX-CONOCO ST GAS COM.	YATES-ZINGARO 'ANG'



MARATHON OIL COMPANY MID-CONTINENT REGION

INDIAN BASIN UNIT

EDDY COUNTY, NEW MEXICO

FED. C-35 #3

Mid-Continent Region **Production United States**

NO. 085



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

February 26, 1999

Oryx Energy Company 13155 Noel Road Dallas, Texas 75221-2880

Re:

Application for Administrative Approval of an Unorthodox Well Location

Eddy County, New Mexico

Dear Sir.

Marathon Oil Company requests offset operator approval of a non-standard Indian Basin, Upper Pennsylvanian Gas Pool location for the Federal "C" 35 # 3 to be located at 1500' FSL & 2080' FBL, Section 35, T-21-S, R-23-E, Eddy County, New Mexico. Due to topographical constraints the BLM has required Marathon to avoid significant cut and fill requirements and floodplain damage associated with a standard location proposed at 1650' FSL & 1650' FEL of Section 35. Pool rules for the Indian Basin, Upper Pennsylvanian Gas Pool require wells to be spaced no less than 1650 feet from the exterior boundaries. The proration unit for the proposed well shall comprise 640 acres or the entire section 35.

If you have an objection to this application, it must be filed in writing with the NMOCD at its Santa Pe office within twenty (20) days of the date of this letter,

Should you have no objection to this application, please signify by signing below and returning one executed copy to me at the letterhead address.

Very truly yours,

1 M. 7. Chesterna for

Walter J. Duccase Marathon Oil Company

Subject to Marathon's acceptance of Letter dated March 9, 1999, attached hereto, Kerr-McGee Corporation waives objection to Marathon Oil Company's request to drill the Federal "C" 35 # 3 at a non-standard location, in the Indian Basin, Upper Pennsylvanian Gas Pool at 1500' FSL & 2080' FEL, Section 35, T-21-S, R-23-E, Eddy County, New Mexico.

Kerr-McGee Corporation



PO BOX 2880 • DALLAS, TEXAS 75221-2880 14311 WELCH ROAD • DALLAS, TEXAS 75244-3934 972-715-8100

March 9, 1999

Mr. Walter Dueease Marathon Oil Company PO Box 552 Midland, Texas 79702

RE:

Federal "C" 35 #3

Unorthodox Well Location 1500' FSL & 2080' FEL, Section 35, T21S-R23E,

Eddy County, New Mexico

Sent via FAX (915)687-8337 (2 pages)

Gentlemen:

We are in receipt of letter dated February 26, 1999, delivered to Mr. Roy Wolin while visiting your office in Midland, concerning Marathon's request for approval of an unorthodox or non-standard gas well location for the captioned well, a copy of which is attached hereto. Kerr-McGee Corporation approves Marathon's request subject to Marathon's agreement to the following:

- 1) Marathon will not object to a mirror unorthodox well location, that is, a well located no closer than 1500' to the North Line of Section 2, T22S-R23E, Eddy County, New Mexico, with the distance to the other Section line for such well location being an orthodox or standard distance, for a well to be proposed or drilled to the Indian Basin-Upper Pennsylvanian Pool by Kerr-McGee in Section 2, T22S-R23E, Eddy County, New Mexico.
- 2) Marathon will promptly furnish Kerr-McGee with copies of well logs, as they are received by Marathon, for Marathon's Federal "C" 35 #3 Well.

Thank you, and if the foregoing is acceptable, please sign and date this letter in the space provided below and return it to me via FAX at 972/715-4685 on or before March 12, 1999.

Sincerely,	Agreed to and accepted:
Kerr McGee Corporation	Marathon Oil Company
Steve Foerster Landman	Ву:
972/715-8269	Title:
	Date:

Form 3160-3 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

LC-06953

FORM A	PPROVED
OMBNO	. 1004-0136
Expires: Fo	bruary 28, 1995
5. LEASE DESIGNATION	AND SERIAL NO.

	BUREAU OF	LAND MANA	GEME	NT	Ļ	
APPI I	CATION FOR PE	RMIT TO D	RILL	OR DEEDEN		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
TYPE OF WORK DRI	LL X	DEEPEN [_	ON DELI EN		7. UNIT AGREEMENT NAME INDIAN BASIN
OIL WELL OF OPERATOR	GAS X OTHER			SINGLE X MULTIPL ZONE ZONE	E	8. FARM OR LEASE NAME, WELL NO. FEDERAL "C" 35 3
arathon Oil Compa	any			·		9. API WELL NO.
ADDRESS AND TELEPHONE				01576	87-8356	
	rt location clearly and in accordar	ice with any State rec	quirements		67-0330	10. FIELD AND POOL, OR WILDCAT INDIAN BASIN - U. PENN
At surface 500' FSL & 2080' At proposed prod. zone	FEL			•		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
500' FSL & 2080'	FEL					SEC. 35, T-21-S, R-23-E
	RECTION FROM NEAREST TOWN	OR POST OFFICE*				12. COUNTY OR PARISH 13. STATE EDDY NM
5 MILES NW OF CA DISTANCE FROM PROPOSEI LOCATION TO NEAREST			16. NO.	OF ACRES IN LEASE		ACRES ASSIGNED
PROPERTY OR LEASE LINE, (Also to nearest drig, unit in			468	30	тотніѕ	WELL 640
DISTANCE FROM PROPOSEI TO NEAREST WELL, DRILLI	D LOCATION*			POSED DEPTH	20. ROTARY	Y OR CABLE TOOLS
OR APPLIED FOR, ON THIS	LEASE, FT. 2500'		780	00'	ROT/	
ELEVATIONS (Show wheth						22. APPROX. DATE WORK WILL START* 4/10/99
791' GL, 3807' KI					-	4/10/99
-				MENTING PROGRAM	I	
	GRADE, SIZE OF CASING K-55, 9 5/8"	WEIGHT PER FOO	OT :	SETTING DEPTH 1200'	800 C	QUANTITY OF CEMENT IRCULATE
8 3/4"	L-80, K-55, 7"_	7800'		945 CIRCULATE	000 0	THOUBALL
WELL IS A NON CONSTRAINTS O	POSED INDIAN BASIN -STANDARD LOCATION F FLOODPLAINS AND N	TO THE SOUTI	H SECT UT & F	ION LINE DUE TO SU		osed new productive zone. If proposal is to dril
epen directionally, give perti	inent data on subsurface locations	and measured and to	rue vertica	d depths. Give blowout prevent	er program, if	f any.
SIGNED WWW	J. Chulley,	/	TITLE DI	RILLING SUPERINTEN	DENT	DATE 3/4/99
(This space for Federal of	State office use)					
PERMIT NO.				APPROVAL DATE		
Application approval does no CONDITIONS OF APPROV	t warrant or certify that the applicant ho VAL, IF ANY:	lds legal or equitable title	e to those rig	thts in the subject lease which would o	entitle the applic	cant to conduct operations thereon.
A DDD OVED DV		***	FF C			DATE

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

State of New Mexico

Rnergy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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

DISTRICT IV

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

P.O. BOX 2088, SANTA FE, N.M. 87604-2088

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				
	1	Indian Basin - Upper Penn	A			
Property Code	Prope FEDERA	Well Number 3				
ogrid No. 14021	Opera MARATHON	Elevation 3927'				

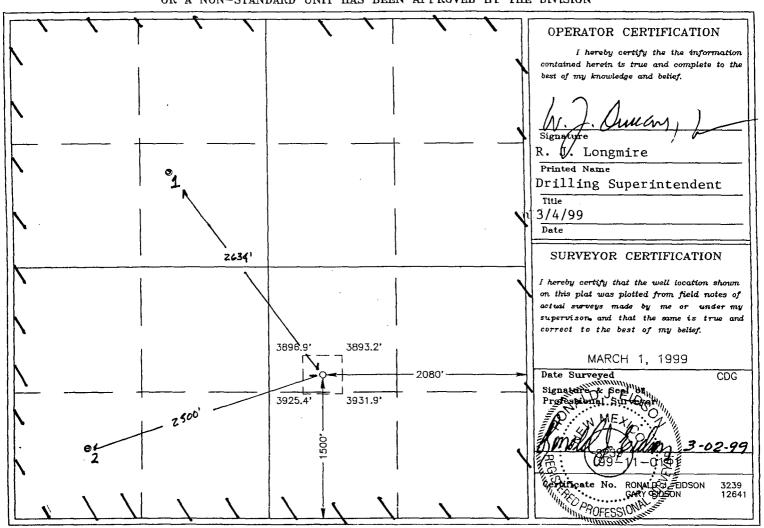
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	35	21 S	23 E		1500	SOUTH	2080	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	noitabiloen	Code Or	der No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Thirteen Point Surface Use Plan MARATHON OIL COMPANY

FEDERAL "C" 35 #3 Sec. 35, 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: Turn South on extant lease road 1 mile West of IBGP. Follow road 1 mile South, .3 miles East, 1.4 miles South to IB "C" 35 #2.
 - c. Existing roads within a one-mile radius (refer to Vicinity Lease Map).
 - 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 2659' of new access. Construction plans will require 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 West with pits built into the cut.

- 3. <u>Location of Existing Wells</u>: See Vicinity Lease Map.
- 4. Location of Existing and Proposed Production Facilities within a one-mile radius:
 - a. Existing: There are seven oil and gas wells operated by Marathon, 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.
 - 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, 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. <u>Methods of Handling Waste Material Disposal</u>:

- 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. Cross-sections have been drafted to visualize the planned cuts and fills across the location. 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 soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula by 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 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 drilling rig is removed. 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 a. 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 1.5 miles. d.
- General location: Approximately 15 miles Northwest of Carlsbad, New Mexico. e.
- f. Drainage: Internal
- Surface Owner: The surface is owned by the Federal Government. g.

12. **Operator Representatives:**

R. J. Lonamire 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.

W.J. June

DRILLING PROGRAM MARATHON OIL COMPANY

FEDERAL "C" 35 #3

1. Estimated KB Elevation: 3,807' KB'

	TOP		BASE		FLUID
<u>FORMATION</u>	<u>MEASURED</u>	SUBSEA	MEASURED	SUBSEA	CONTENT
Queen	Surface	+3807'	650'	+3157'	water
San Andres	650'	+3157'	2250'	+1557'	water
Glorietta	2250'	+1557'	2355'	+507	
Delaware	3300'	+507'	4300'	-493'	
Bone Spring	4300'	-493'	5950'	-2143'	oil gas
Wolfcamp	5950'	-2143'	7520'	-3713'	oil gas
B/Permian Shale	7520'.	-3713'	7530'	-3723'	•
U. Penn	7530'	-3723'	7550'	-3743'	gas, oil, water

FORMATION	EST PSIG	SBHP PPG EMW	 BHT PPM	H2S	SIGNIFICANCE (obj. marker, etc.)
Bone Springs Wolfcamp	1210 1680	8.5 9.0		500	marker marker
B/Permian Shale	1810	9.0			objective pay
U. Penn	2050	9.0		5000	objective pay
Morrow	3460	9.2			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:

9 5/8" Surface: 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.

A. P. D. (cont.) Thirteen Point Surface Use Plan

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:

DEPTH FROM TO	SECTION LENGT		HOLE SIZE	CSG SIZE	WT. <u>PPF</u>	GRADE	THREA		NEW USED
0 1200' 0 4700' 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	CNew	New
Casing DV String Depth	Stg.	Lead <u>Tail</u>	Amt SXS	Type <u>Cemen</u>	<u>t</u>	Yield CF/SX	Wt. <u>PPG.</u>	TOC	<u>Additives</u>
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 F	POZ	1.91	12.6	5500'	5 pps, salt, 3 pps Gilsonite, 4% Gel, 1/4 pps Cello
7"	2	Т	100	"C" Ne	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	TH <u>TO</u>	MUD TYPE	WEIGH (PPG)	T <u>VIS</u>	<u>CC</u>	<u>ADDITIVES</u>	VISUAL MONTR.
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, H₂S 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. <u>Logging, Testing & Coring Programs</u>:

--INTERVAL-LOG/TEST/CORE/MUDLOG/OTHER FROM TO REMARKS

DLL/MSFL/GR/CNL/LDT/CAL

TD 5000'

LDT/CNL/GR/CAL

TD surf casing

MUD LOGGER

6000' TD

ROP, Lithology, Gas Analysis,

Chromatograph

NO CORES OR DST'S

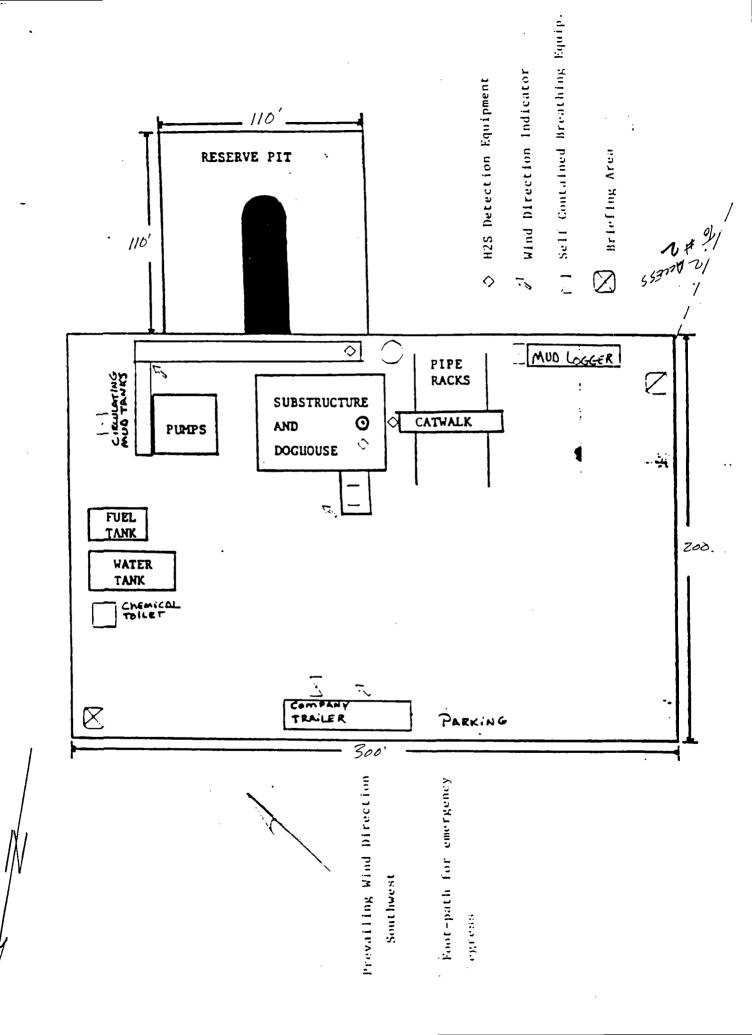
7. <u>Abnormal Pressures, Temperatures or Potential Hazards:</u>

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

8. Other Information:

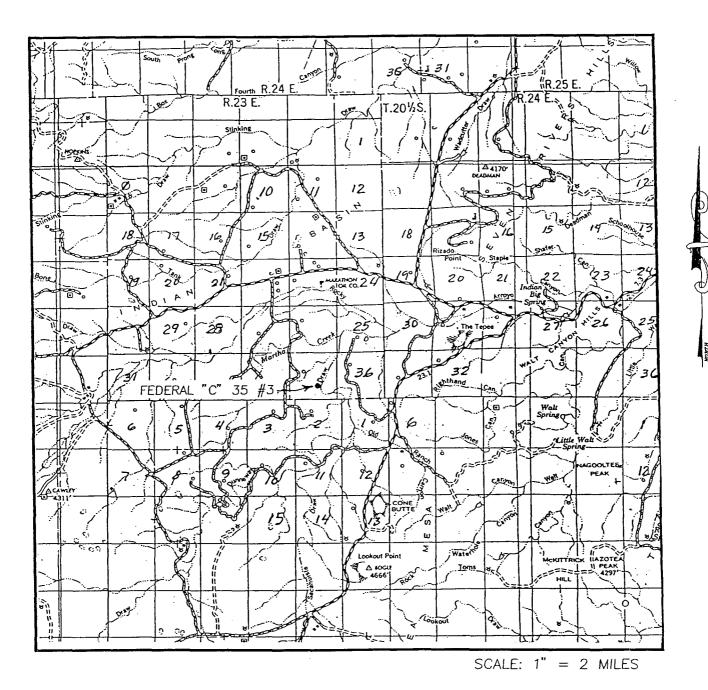
Anticipated Starting Date: As soon as possible.

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



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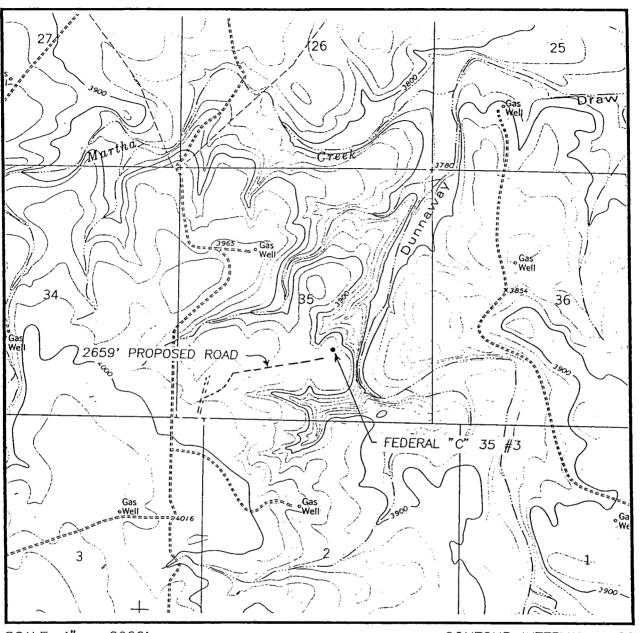
VICINITY MAP



SEC. <u>35</u> TW	P. <u>21-S</u> RGE. <u>23-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION_	1500' FSL & 2080' FE
ELEVATION	3927'
OPERATOR _M	ARATHON OIL COMPANY
LEACE	EEDEDAL "C" 35

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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL - 20'

SEC. 35 TWP.21—S RGE. 23—E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1500' FSL & 2080' FEL

ELEVATION 3927'

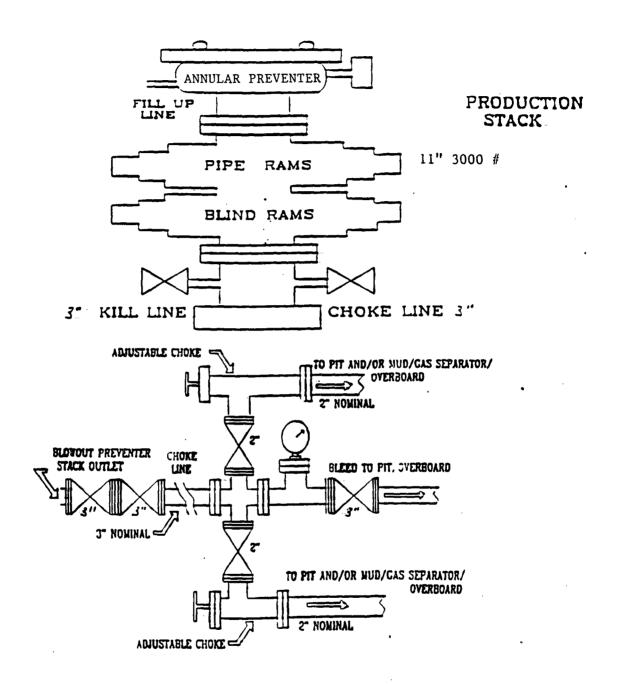
OPERATOR MARATHON OIL COMPANY

LEASE FEDERAL "C" 35

U.S.G.S. TOPOGRAPHIC MAP

MARTHA CREEK, NM

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



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.
- 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	15	not	mmileo	w.
------------------------	----	-----	--------	----

- 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	
^	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

STATE OF NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 10736 Order No. R-9910

APPLICATION OF MW PETROLEUM CORPORATION/APACHE CORPORATION FOR AN UNORTHODOX GAS WELL LOCATION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on June 3, 1993, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 9th day of June, 1993, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) The applicant, MW Petroleum Corporation/Apache Corporation, seeks approval to drill its Federal "C" Well No. 2 as a replacement in the Indian Basin-Upper Pennsylvanian Gas Pool at an unorthodox gas well location 800 feet from the South and West lines (Unit M) of Section 35, Township 21 South, Range 23 East, NMPM, Eddy County, New Mexico.
- (3) All of said Section 35 is located within the Indian Basin-Upper Pennsylvanian (Prorated) Gas Pool and is therefore subject to the Special Rules and Regulations for said pool as promulgated by Division Order Nos. R-2440 and R-8170, as amended, which require standard 640-acre proration units with wells to be located no closer than 1650 feet from the outer boundary of the section nor closer than 330 feet from any governmental quarter-quarter section line.

- (4) Currently all of said Section 35, being a standard 640-acre gas spacing and proration unit in the Indian Basin-Upper Pennsylvanian Gas Pool, is dedicated to MW's Federal "C" Well No. 1, located at a standard gas well location 1650 feet from the North and West lines (Unit F) of said Section 35.
- (5) The applicant testified that should commercial gas production be established within the proposed replacement well, it intends to plug and abandon the aforesaid Federal "C" Well No. 1.
- (6) Marathon Oil Company, the affected offset operator to the west of the proposed location, appeared at the hearing but did not present evidence or testimony.
- (7) According to applicant's evidence and testimony, the Federal "C" Well No. 1 began to experience water encroachment in October, 1992. The most current available monthly production rate from this well was approximately 74,000 MCF of gas and 13,000 barrels of water.
- (8) Applicant proposes to drill the subject well in order to recover the remaining gas reserves underlying said Section 35.
- (9) The applicant presented geologic evidence and testimony which indicate that a well drilled at the proposed location should penetrate the Indian Basin-Upper Pennsylvanian Gas Pool at a structurally higher position in its proration unit that is up-dip of the encroaching gas/water contact zone.
- (10) The evidence presented indicates that a well drilled at the proposed location should enable the applicant to produce the remaining gas reserves underlying Section 35.
- (11) The applicant requested that a voluntary 38% production penalty (62% allowable/acreage factor) be assessed against the subject 640-acre unit at such time as the Federal "C" Well No. 1 is abandoned and the No. 2 well is placed on production in the prorated Indian Basin-Upper Pennsylvanian Gas Pool, said production penalty having been agreed to by MW Petroleum Corporation/Apache Corporation and the surrounding offset operators to the west, southwest, and south of the proposed unit.
- (12) Until that time the subject unit will remain unchanged as it is currently listed in the proration schedule.
- (13) In order to assure that correlative rights are protected, the proposed production penalty should be adopted in this case.

- (14) No offset operator and/or interest owner appeared at the hearing in opposition to this application.
- (15) Approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the affected pool and will otherwise prevent waste and protect correlative rights.
- (16) In addition to filing the required Form C-104 (Request For Allowable) the operator should notify in writing the Division's Chief Gas Proration Engineer in Santa Fe, New Mexico at such time as the subject Federal "C" Well No. 1 is abandoned and the No. 2 well is completed and ready to produce.
- (17) Authorization granted by this order should terminate one year after the effective date of this order if the operator has not commenced with due diligence the drilling of the Federal "C" Well No. 2; provided however, the Division, upon written request by the operator prior to the "one-year deadline date", may grant a "one-time only" 6-month extension thereof for good cause shown.

IT IS THEREFORE ORDERED THAT:

- (1) The applicant, MW Petroleum Corporation/Apache Corporation, is hereby authorized to drill its Federal "C" Well No. 2 as a replacement well in the Indian Basin-Upper Pennsylvanian Gas Pool at an unorthodox gas well location 800 feet from the South and West lines (Unit M) of Section 35, Township 21 South, Range 23 East, NMPM, Eddy County, New Mexico.
- (2) The existing standard 640-acre gas spacing and proration unit comprising all of said Section 35 and currently dedicated to MW's Federal "C" Well No. 1 shall be dedicated to said well.

PROVIDED HOWEVER THAT:

(3) The Federal "C" Well No. 1 shall be plugged and rendered non-productive from the Indian Basin-Upper Pennsylvanian Gas Pool prior to placing the proposed Well No. 2 on production.

IT IS FURTHER ORDERED THAT:

(3) At that time a 38% production penalty (62% allowable/acreage factor) shall be assessed against the subject 640-acre unit.

- (4) In addition to filing the required Form C-104 (Request For Allowable) the operator shall notify in writing the Division's Chief Gas Proration Engineer in Santa Fe, New Mexico at such time as the subject Federal "C" Well No. 1 is abandoned and the No. 2 well is completed and ready to produce.
- (5) Authorization granted by this order shall terminate one year after the effective date of this order if the operator has not commenced with due diligence the drilling of the Federal "C" Well No. 2; provided however, the Division, upon written request by the operator by the "one-year deadline date", may grant a "one-time only" 6-month extension thereof for good cause shown.
- (6) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director

SEAL

Description: All Sec. 12\$ 73 (R.2440 2-28-63)

Ext. All Sec. 10 14\$ 15(R.2569 10-1.63)-All Sec. 26(R.2619 4-1-64)

- All Sections 16, 17, 19 20 21, 24 25, 35\$ 36 (R-2726 7-1-64)

- All Secs. 9, 11, 27, 28, 33\$ 34(R.29116-165)-All Sec. 3 (R. 2946 9-1-65)

- All Sec. 18(R.3030, 2-1-66)-All Sec. 29\$ 32(R.3056, 5-1-66)-All Sec. 4(R.3342, 12-1-67)

Ext. All Sec 30(R-6657, 4-20-81) Ext. All Sec. 8 (R-9418, 2-1-91)

Delete All Sec. 11(A-10234, 11-7-94) Delete All Sec. 14(A-10236, 11-3-94)

Delete 125 ec. 3 5/25 ec. 10 5/25 ec. 15 (A-10895, 10-14-97)

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CMD: 04/12/99 10:34:18

OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TP1K

OGRID Idn : 14021 API Well No: 30 15 30619 APD Status (A/C/P): A

Opr Name, Addr: MARATHON OIL CO Aprvl/Cncl Date : 04-01-1999

PO BOX 552

MIDLAND, TX 79702

Prop Idn: 16957 FEDERAL C-35 Well No: 3

U/L Sec Township Range Lot Idn North/South East/West

Surface Locn : J 35 21S 23E FTG 1500 F S FTG 2080 F E

OCD U/L : J API County : 15

Work typ (N/E/D/P/A) : N Well typ (O/G/M/I/S/W/C) : G Cable/Rotary (C/R) : F

Lease typ(F/S/P/N/J/U/I): F Ground Level Elevation: 3807

State Lease No: Multiple Comp (Y/N) : N

Prpsd Depth : 7800 Prpsd Frmtn : UPPER PENN

E0009: Enter data to modify record

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

PF07 PF08 PF09 PRINT PF10 C102 PF11 HISTORY PF12

Date: 4/12/99 Time: 10:38:46 AM

Page: 1 Document Name: untitled

CMD : OG5SECT

ONGARD

INQUIRE LAND BY SECTION

04/12/99 10:33:57

OGOMES -TP1F

PAGE NO: 1

Sec : 35 Twp : 21S Rng : 23E Section Type : NORMAL

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Federal owned	 Federal owned 	 Federal owned 	 Federal owned
E	F		H
40.00	40.00	40.00	40.00
Federal owned	 Federal owned	 Federal owned	 Federal owned
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PF02

PF08 FWD

PF01 HELP

PF07 BKWD

04/12/99 10:34:10 CMD : ONGARD OG5SECT INQUIRE LAND BY SECTION OGOMES -TP1F PAGE NO: 2 Sec : 35 Twp : 21S Rng : 23E Section Type : NORMAL Ĺ K J Ι 40.00 40.00 40.00 40.00 Federal owned Federal owned Federal owned Federal owned Α Ρ Μ Ν 0 40.00 40.00 40.00 40.00 Federal owned Federal owned Federal owned Federal owned Α

PF04 GoTo

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PF03 EXIT

PF09 PRINT

Date: 4/12/99 Time: 10:38:36 AM

Forta 3160-5 **UNITED STATES** FORM APPROVED November 1994) Budget Bureau No. 1004-0135 DEPARTMENT OF THE INTERIOR Expires November 30 2000 BUREAU OF LAND MANAGEMENT 3. 5. Lease Serial No. SUNDRY NOTICES AND REPORTS ON WELLS NM 06953 Do not use this form for proposals to drill or to re-enter an 6. If Indian, Allottee or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit or CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on reverse side i. Type of Well Gas Well 8. Well Name and No. FEDERAL C 35 #1 2. Name of Operator Marathon Oil Company THIEF 9. API Well No. 3a. Address 30-015-10403 915-682 1626 P.O. Box 552 Midland, TX 79702 10. Field and Pool, or Exploratory Area 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) INDIAN BASIN UPPER PENN GAS P001 UL "F" 1650' FNL & 1650' FWL 11. County or Parish, State SECTION 35, T-21-S, R-23-E NM **EDDY** CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF SUBMISSION TYPE OF ACTION Production (Start/Resume) Water Shut-Off Notice of Intent Acidize Deepen Alter Casing Fracture Treat Reclamation Well Integrity Subsequent Report Other OFF LEASE **New Construction** Recomplete Casing Repair Change Plans Plug and Abandon Temporarily Abandon STORAGE & SALES, & Final Abandonment Notice Convert to Injection Plug Back Water Disposal MSMT. METHOD 13. Describe Proposed or Commpleted Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.) In reference to Notice of Incidents of Noncompliance #99-DW-132 The production from this well goes into a 2-phase separator. The gas is metered and transported to Marathon's Indian Basin Gas Plant via pipeline. After processing, the gas and NGLs are metered and sold at the tailgate of the plant. The liquid hydrocarbon production and water are sent to a storage tank on location. Production volumes are determined by gauging the tank and "color cutting" for the condensate/water interface. These liquids are then taken to the storage and measurement facility. located at the Indian Basin Gas Plant, by truck. After further separation, the liquid hydrocarbons are metered and sold through a LACT Unit. The water is disposed of in various salt water disposal wells per prior approvals. A drawing is attached which shows the equipment used, and the flow of production. I hereby certify that the foregoing is true and correct Name (Primed Typed) Engineer Technician Ginny Larke

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

(ORIG. SGD.) ALEXIS C. SWOBODA

PETROLEUM ENGINEER

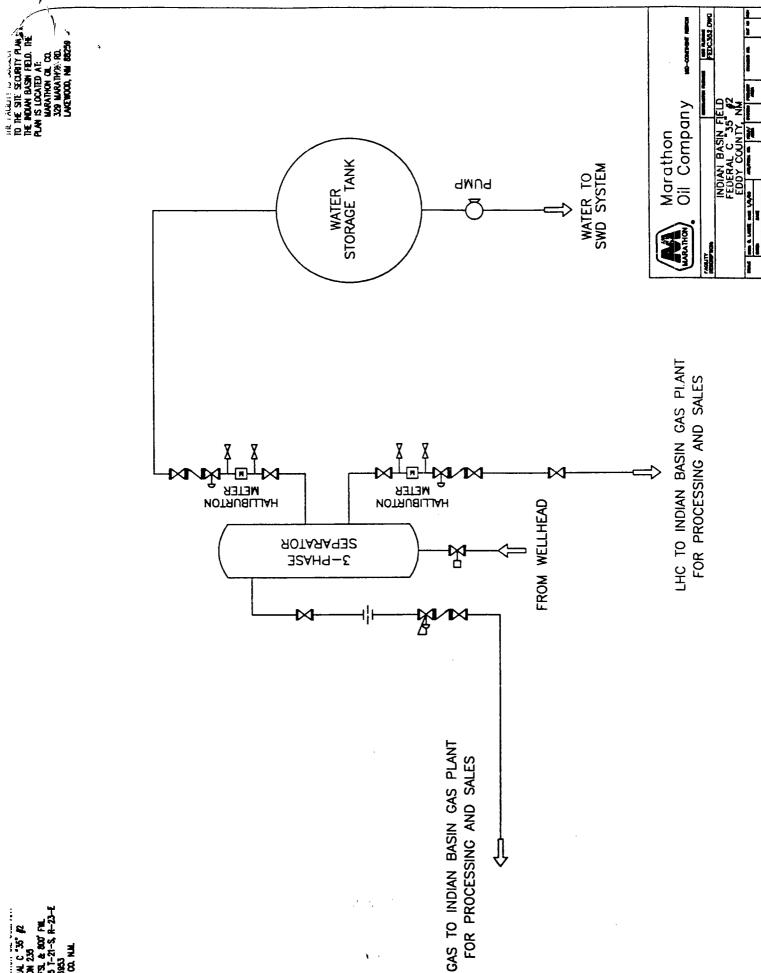
Date JAN 20 1999

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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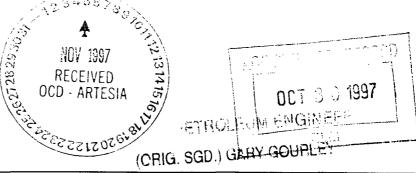
1/8/99

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



FIDENA C "36" #2 STATION 235 BOO F3L & BOO FNL SECUS T-21-5, R-23-E NM 08953 EDDY CO. N.M.

FORM APPROVED DEPARTMENT OF THE INTERIOR ... M. Oil Cons. Divisio Form 3160-5 Budget Bureau No. 1004-0135 (June 1990) Expires: March 31, 1993 BUREAU OF LAND MANAGEMENT 15 S. 1815 5. Lease Designation and Serial No. SUNDRY NOTICES AND REPORTS ON WELLS NM06953 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT - " for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE Type of Well 8. Well Name and No. Gas FEDERAL C 35 #1 & #2 2. Name of Operator Marathon Oil Company 9. API Well No. 3. Address and Telephone No. P.O. Box 552 Midland, TX 79702 915/687-8449 10. Field and Pool, or exploratory Area 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) UL "F" (Well #1) and UL "M" (Well #2), SECTION 35, T-21-S, R-23-E 11. County or Parish, State **EDDY** NM CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans Recompletion **New Construction** Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Ahandonment Notice Altering Casing Conversion to Injection I INFD SUMPS Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally dril give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* MARATHON OIL COMPANY, in accordance with 43 CFR PART 3160 ONSHORE OIL AND GAS OPERATIONS: FEDERAL AND INDIAN OIL GAS LEASES: ONSHORE OIL AND GAS ORDER NO. 7, is notifying the BLM of the installation and locations of 2 sumps on the Federal C 35 lease. These sumps are double walled construction with inspection ports for leak detection, secondary containment, and are constructed in compliance with ONSHORE ORDER NO. 7, SECTION 3E. These sumps have been installed to catch compressor drain run-off and/or dehydrator condensation.



14. I hereby certify that the foregoing is true and correct Signed Lewy Darke	Title <u>Engineer Technician</u>	Date 10/21/97
(This space for Federal of State office use) Approved by Conditions of approval, if any:	Title	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

Form 3160-4 (July 1992)

UNITED STATES

SUBMIT IN DUPLICATE 115. DIVISION OMB NO. 1004-0137

_{DATE} 3/23/97

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6. Thereby certify that the	loregoing uni	attached ini	tofmation i	s complete and co	rrect as dete	muned from	m ail avad:	uble recor	ús						

TITLE Adv. Eng. Tech.

Form 316G-5

UNITED STATES

H.A. Ol Cons.	-
811 S. 181 Sheet	l
Artasia, NM 882	1

Division FORM APPROVED

Budget Bureau No. 1004-0135

Conversion to Injection

(Note: Report results of multiple completion on Well

Dispose Water

.2	224	Expires: Designation	March	31.	1993
5:	Lease	Designation	on and	Serial	No.
	0.00				

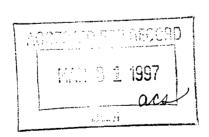
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a driff countreservoir. Use "APPLICATION FOR PERMIT -" for such paperals." SUBMIT IN TRIPLICATE APR 9.2 1997 I type of Well Well Other I type of Well Well Other I type of Well Other Some of Operator Marathon 0 i 1 Company Address and Telephone No. P. O. Box 552. Midland, TX 79702 915/682/1626 Location of Well (Footsge, Sec., T., R., M., or Survey Description) 1650 FNL & 1650 FWL Sec. 35. T-21-S, R-23-E Eddy Co., N.M. TYPE OF SUBMISSION TYPE OF SUBMISSION TYPE OF ACTION	(iiie 1779)	AND MANAGEMENT Artista, NM 882	5. Lease Designation and Serial No.	_
SUBMIT IN TRIPLICATE Type of Well Other Name of Operator Marathon Oil Company Address and Telephone No. P. O. Box 552. Midland, TX 79702 915/682/1626 Location of Well (Pootsge, Sec., T., R., M., or Survey Description) 1650' FNL & 1650' FWL Sec. 35, T-21-S, R-23-E CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	Do not use this form for proposals to drill o	or to deepen or reentry to ardifferent reservoir	6. If Indian, Allottee or Tribe Name	_
Oil X Gas Other X Gas Well Other Same of Operator Marathon Oil Company Same of Operator Company Same of Operator Same of O	SUBMIT	IN TRIPLICATE	If Unit or CA, Agreement Designation	_
P.O. Box 552, Midland, TX 79702 915/682/1626 10. Field and Pool, or exploratory Area Indian Basin, U. Penn 1650' FNL & 1650' FWL Sec. 35, T-21-S, R-23-E Eddy Co., N.M. 2. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	Onl X Gas Other C. Name of Operator Marathon () Company	OIL CON. DIV.	Federal C "35" #1	
Sec. 35. T-21-S. R-23-E Eddy Co., N.M. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	P.O. Box 552, Midland, TX 79702 3. Location of Well (Footsge, Sec., T., R., M., or Survey Desc.		10. Field and Pool, or exploratory Area Indian Basin, U. Penn	
TYPE OF SUBMISSION TYPE OF ACTION	2. CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA	
	TYPE OF SUBMISSION	TYPE OF ACT	LION	
Notice of Intent Abandonment Recompletion Subsequent Report Plugging Back Casing Repair Water Shipt-Off		Recompletion Plugging Back	New Construction Non-Routine Fracturing	

Completion of Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drill, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Other Recomplete to Penn

Marathon Oil Co. recently plugged back and recompleted this well as per the work summarized

2/13/97: MIRU PU. ND tree. NU BOP. POOH with tbg and pkr. Set CIBP @ 9250 50 cement on top of plug. RIH with tubing conveyed perf guns. Set Packer @ 8248 ND BOP NU tree. Tested annulus and packer to 500 PSI. Perfed 8350-8364 with 6 shots per foot. furned well into test facility. RDMO PU 2/20/97.



Final Abandonment Notice

1. Thereby certify that the foregoing of the and correct Signed Thomas Market	Title Adv. Eng. Tech.	Date 3/23/97
(This space for Federal or State office use)		
Approved by Conditions of approval, if any:	Title	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any talse, fictitious or fraudulent statemen or representations as to any matter within its jurisdiction.

Form 3160-3 . (July 1992)

UNITED STATES

N.M. Oil Congs Division

DEPARTMENT OF THE INTERIOR. 1st Street

		/
	FORM APPROVED	4
ivision	OMB NO. 1004-0136	1
	Expires: February 28, 1995	
5. LEAS	E DESIGNATION AND SERIAL NO.	

	BUREAU OF	ELAND MANA	GEME	ENT Artesia, NM 08	3210-280	4 NM 06953			
·	ICATION FOR	PERMIT T	O DF	RILL OR DEEP	EN	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME		
TYPE OF WORK TYPE OF WELL		DEEPEN		x Plug E	acK	7. UNIT AGREEMENT N	AME		
OIL WELL NAME OF OPERATOR	GAS X OTHER	8. FARM OR LEASE NA Federal C 35							
Marathon Oil Con	· · · · · · · · · · · · · · · · · · ·			CEIVED	<u> </u>	9. API WELL NO. 30-015-10403			
P.O. Box 552, M	idland, TX 79702	da mist Carta		91568216	26	10. FIELD AND POOL, C			
At surface UL "F", 1650' At proposed prod. zone	3€ & 1650' FWL			CON. DIV.	ļ	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 35, T215, R23E			
DISTANCE IN MILES AND	DIRECTION FROM NEAREST TO	WN OR POST OFFICE*		DIST. 2		12. COUNTY OR PARISH Eddy Co.,	13. STATE N.M.		
DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LIN	E, FT. 3630		16. NO.	OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL 640			
(Also to nearest drig. unit DISTANCE FROM PROPOS TO NEAREST WELL, DRIL OR APPLIED FOR, ON THIS	ED LOCATION* LING, COMPLETED,			oposed Depth	f	ROTARY OR CABLE TOOLS Work over unit			
GL:3,961 KB:			l			22. APPROX. DATE W	ORK WILL START*		
		PROPOSED CASING	G AND C	EMENTING PROGRAM		_ 			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	OΤ	SETTING DEPTH		QUANTITY OF CEMENT			
Change	See Original	Complettion		Report					
wireline set CIBP Pick up Vann gu NU tree. Drop be Stimulate as dire	utilined below. I. NU and test BOP @ 9,250'. Dump be nn tubing conveyed ar to fire guns and ected by test result BE PROPOSED PROGRAM: tinent data on subsurface location	ail 50' cement I guns and sta perf 8,350'-8 s. RDMO PU.	on to art in 1,362' Turn	op of plug for PBTD hole. Set packer @ with 6 JSPF. Turn well into production	+- 9,200 2 +- 8,25 4 well to 3	o'. ND BOP. test.	C		
SIGNED TO OY (This space for Federal of	nao mandina State office use)	<i>°О</i> т	TLE	dvanced Engineerin	g Tech	3/10)/97		
PERMIT NO. Application approval does no CONDITIONS OF APPROV	t warrant or certify that the applicant	holds legal or equitable titl	e to those i	APPROVAL DATE	l entitle the appli	cant to conduct operations the	reon.		
(ORIG.	SGD.) ALEXIS C. SW	OBODA TIT	1 F	PETROLEUM ENG	INEER	DATE MAR	2 6 1997 _		

1 District I

District III

PO Box 1980, Hobbs, NM 88241-1980

District II 811 S. 1st Street, Artesia, NM 88210-2834

1000 Rio Brazos Rd., Aztec, NM 87410

District IV
P() Box 2088. Santa Fe. NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088 Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

Santa Fe, NM 87504-2088

O Box 2088, Santa I.	•		ST FOR	ALLOW	ABLF	E AND AT	U THO	RIZAT	ION TO TR	LANSP	ORT	•		
<u> </u>			perator name a							OGRID Nur		· · · · · · · · · · · · · · · · · · ·		
Marathon Oil Company								014021						
P.O. Box 5 Midland, T		79702							³ Rea	Reason for Filing Code				
	PI Numbe					⁵ Pool Nai	me			RC 6 Pool Code				
30-0	15-104	103		Ir	ndian	Basin /	Upper	Penn			7	9040		
	perty Code					⁸ Property N	lame					ell Number		
	169 <u>57</u>		<u> </u>		F	ederal "	<u>C" 35</u>							
		ce Location Township		Lot. Idn	T _{Ea} ,	et from the	I Month/S	outh Line	Feet from the	East/Wes	1ing	County		
UL or lot no.	Section 35	21S			Fee	1650		outh Line orth	1650	Wes.		Eddy		
11		n Hole L				1000	1 110	<u>'! [] </u>		<u> </u>	<u>L l</u>	Luuj		
UL or lot no.	Section			Lot. Idn	Fee	et from the	North/S	outh Line	Feet from the	East/Wes	st line	County		
	ļ			<u></u>			<u> </u>		C-129 Effective	ntive Date 17 C 130 v				
12 Lse Code	¹³ Produ	Flow	1	s Connection 1 2/20/97	- 1	¹⁵ C-129 Peri	15 C-129 Permit Number 16			Date	1/ C-1	129 Expiration Da	ate	
F III. Oil an	d Cas'			2/20/3/			···	<u>l</u>						
18 Transporter	u Gas	_	Fransporter Na	me		20 POD		21 O/G		D ULSTR		on .		
OGRÍD		- 1	and Address			2806			and Description					
014035		rathon (0. Box	0il Comp 1324	any	ļ	2867.	71	G	F, Sec. 35, 21S, 23E					
	************	tesia,		1-1324										
014035	Ma	rathon	Oil Co			28067	2806722 0			F Sec 35, 21S 23E				
	P0) Box 13 rtesia,		1-1324										
	Ai	tesia,	NII OOLI	1.1264					1	n made dit	<u> 17 (1.5)</u>	<u>au fan y f</u> Viet		
							UH S 5 1357							
					1		***************************************					· · · · ;		
											. ,	•		
IV. Produ	ced Wa	ater						***************************************		·	7.1			
²³ POI 282 2867	1377	₹ F, Se	ec. 35, 2	21S, 23F	E	²⁴ POD ULS	TR Locati	on and Des	cription					
V. Well C			a			²⁷ TD			10		20.20			
²⁵ Spud D 2/13			²⁶ Ready Date 2/19/9	•					²⁸ РВТО 9,200'			orforations 350 - 64		
	ole Sie			31 Casing & Tubing Size			32 D	epth Set	9,200	33 S	Sacks Co			
NO Change	See 0	riginal	Comp	letion R	Report	t								
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· · · · · ·		<u> </u>	<u>*-1</u>					· · · · · · · · · · · · · · · · · · ·		,		
				,				-,						
2 7/8"							8248							
VI. Well T														
34 Date New Oil 35 Gas Deliver						37 Test Length		38 Tbg. Pressur	'e					
2/20/97 2/20/ 40 Choke Size 41 Oil)/97	/97 2/20/97 42 Water			24 hr		1700 44 AOF		Pkr 45 Test Method				
64/64					3167		4,900		Flow					
46 I hereby certify that the rules of the Oil Conservation Division have be complied with and that the information given above is true and complete t				ive been		OIL CONSERVATION DIVISION					FIOW	_		
complied with an		_	iven above is to	rue and comp	lete to	Approved					IUN			
Signature:	Roma	omPr	no			Аррготос.	"Les	m u	1 Sum	<i></i>		<u> </u>		
Printed name: Thomas M.		Title: District Sepervisor												
Title: Advanced Engineering Technician						Approval Date:								
Date: 3/23/97 Phone: 915/682-1626					1626	 		1/6	1///					
47 If this is a ch		perator fill in t				previous opera	etor						_	
				noor and nan		previous opera	1101							
Previous Operator Signature						Printed Name Title Date								

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street, Artesia, NM 88210-2834 State of New Mexico
Energy, Minerals & Natural Resources Department Chesian

IN DIVISION Instructions on had Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION

T

District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Sauta Fe, NM 87504-2088			P.O. Box 2088 56 111 ≥ 27 1111 8 52 5 Copie Santa Fe, NM 87504-2088										
I.		REQUES	ST FOR A	ALLOW	ABLE	AND A	UTHO	RIZAT	ION TO TI				
Operator name and Address Marathon Oil Company P.O. Box 552 Midland, Texas 79702						6 D. 13V	,			2 OGRID Number 014021 3 Reason for Filing Code RC			
		5 Pool Na				⁶ Pool Code							
)15 - 104		<u> </u>			an Basi 8 Property 1		'OW		78960 9 Well Number			
	16957				deral '				1				
II.	Surfac	e Location											
UL or lot no.	Section	Township	_	Lot. Idn		from the		outh Line	Feet from the	East/West li			
F 1	35	<u>21S</u>				1650	No	rth	1650	West	Eddy		
"Bottom Hole Location UL or lot no. Section Township Range Lot. Idn Feet from the North/South Line Feet from the East/West line County													
OL of for ho.	Section	Township	, Tunge	Zoi. Iun		110111 1110	1.03.02.0	·					
12 Lse Code F	13 Produ	cing Method	g Method Code 14 Gas Connection Date 7 OW 5-15-96				⁵ C-129 Permit Number 16			⁵ C-129 Effective Date 17 C-129 Expiration Date			
III. Oil ar								Latara	I 00 00				
18 Transporter OGRID		19 T	ransporter Nai and Address	me	ļ	20 POD 21 0/G 1958930			22 POD ULSTR Location and Description				
014035		rathon (0. Box	Dil Comp	any		286771:			F, Sec. 35, 21S, 23E				
		JUL 3 0 1995					2 1996						
									OIL CON, DIV.				
											** ***********************************		
IV. Produ		iter											
1958 286	950 1 73 .	F, Se	ec. 35, 2	21S, 23E		4 POD ULS	TR Locati	on and Des	scription				
V. Well C			26 Ready Date			²⁷ TD	· · · · · · · · · · · · · · · · · · ·		28 PBTD	29	Perforations		
²⁵ Spud Date 2 4 - 23 - 96			5-9-96			10778'			10019'		88' - 9416'		
	Iole Sie		31 Casing & Tubing Size		Size			Depth Set		³³ Sacks Cement			
			4	4 1/2" Liner			7610'	- 101	15' 345 sx				
				2 7/8"			9	192'			-		
VI. Well 7 34 Date New	very Date				37 Test Length		38 Tbg. Pressu	ге	³⁹ Csg. Pressure				
5-15 40 Choke Size 41 Oil		5-96	96 7-18-96			24 hr		540 44 AOF		pkr Test Method			
	20/64 0 65				1089		1089		Flow				
46 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature:							OIL CONSERVATION DIVISION Approved by: Lim W. Lewis Title: Weitert September						
Printed name:						Title: Bestrat Suche 1720							
Thomas M. Price Title: Advanced Engineering Technician						Approval Date: 7/31/96							
Date: 7/24/				15/682-1	1626				1 1 1 6	<u></u>			
47 If this is a c		perator fill in t				revious oper	ator						

Printed Name

Title

Date

Previous Operator Signature

Form 3160 N.M. O (July 1992 811 S. 1 Artesia,	il Cons. st Street, NM 882	RTM!	ÖN IITED S ENT OF OF LAND N	THE	INTE	RIOR		struc rever	E* other in- tions on (se side)	Ol Exp	MB NO ires: Fe	APPROVED . 1004-0137 bbruary 28, 1995 N AND SERIAL NO.	5Ý
WELL COM							EOF ORT		OG*			E OR TRIBE NAME	DIVI.
1a. TYPE OF WELL:		OIL	GAS WELL					~~~	. <u></u>	a investigation in	nichia.	HESE YED	-
b. TYPE OF COMPL	ETION:	WELL L		מ מ	RY LLI '	ં ^{નુ} ળ . 30	12	38 7M	96	7. UNIT AGRE	EWENT	MJ: 27 PM	8 5
NEW WELL	OVER	DEEP- X	PLUG BACK	DIF RES		Oliva P	-		· (:			NAME, WELL NO.	
2. NAME OF OPERATOR Marathon 0		nv				ANCAR	TEALS.		{S	Federal			<u>l</u> -
3. ADDRESS AND TE						- 4	1.1			30-015		03	
P.O. Box 5							5/682	<u>1626</u> ;	1008	10. FIELD AND			
4. LOCATION OF WELL At Surface UL "F" 1650 At top prod. interval	'FNL &	•		nce with an	y State requ	urements)*			4, D : 2	Indian Ba THE BEC., T., R OB AREA 35, 21	., M., OR	BLOCK AND SURVEY	
At total depth				14. PERM	AIT NO.		DATE		(1 4/4	12. COUNTY OF	₹	13. STATE	-
										Eddy		NM	
15. DATE SPUDDED 4 - 23 - 96	16. DATE T.D. 5-9-9			COMPL.(<i>Red</i>	ady to prod.	.)		ations (DF,		R, ETC.)*	19. E	LEV. CASINGHEAD	•
20. TOTAL DEPTH, MD & 10,778	TVD 21. I		T.D., MD & T	VD 22.	IF MULTIPI HOW MANY	LE COMPL.,	GL.	23. INTE		ROTARY TO	DOLS	CABLE TOOLS	•
24. PRODUCING INTERV	AL(S), OF THIS CO	OMPLETION	- TOP, BOTTC	M, NAME (N	ID AND TVE))*		1	1		25	. WAS DIRECTIONAL SURVEY MADE	•
9288' - 93	38' Mor	row									١	No	
26. TYPE ELECTRIC AND HAL/NET/SC		אני									27. WA	S WELL CORED	
28.			T		T	rt all strings	set in wet						
CASING SIZE/GRADE	See_	LB./FT.	Origin		Сотр	LE SIZE	Re	port	MENT, CEN	IENTING RECOR	D	AMOUNT PULLED	
	-						-						
	-												
29.			R RECORD					30.		TUBING REC			
4 1/2"	<u>тор (мд)</u> 7.610 '		<u>том (мр)</u> 115'	345	EMENT*	SCREEN	(MD)	2 7/8		<u> рертн зет (мі</u> 192 '	D)	PACKER SET (MD)	
9288'-96',	D (Interval, size 9326' - 3	and numb	er) .1SPF			32.				E. CEMENT S			
9384'-96',						9288	<u>19388 -</u>		3500	100NT AND KIN	/2%		
3001 30 ,	J 10L 1	0,0	0011			9288	-9388	3,	-	gal 10%			
						9288-	9416		32K	GAL FOAM	, 45	K # SAND	
33.*				P	RODUCTIO	ON .			<u> </u>				
DATE FIRST PRODUCTION 5-15-96	F	owing		ing, gas lift	, pumping	- size and ty	ne of pum					Producing or Od	
7-19-96	HOURS TESTEL		ноке size 20/64	PROD'N TEST PI		OIL - BBL.		GAS - MCF 1089	·.	WATER - BBL.		GAS - OIL RATIO	
FLOW. TUBING PRESS. 540	casing pressi		ALCULATED 4-HOUR RATE	OIL - BI	BL.	GAS 10	- мсғ. 89	1	water - b	BL.	OIL GRA	AVITY - API (CORR.)	
34. DISPOSITION OF GAS (.	Sold, used for fi	iel, vented,	etc.)! AC		9 669	PERON	D			TEST WITNESSE Pat Hed		an	
35. LIST OF ATTACHMENT LOGS				AU	100								
36. I hereby certify that the for SIGNED	man v	information	is complete and con-	orrect af deple SBAD	<u> </u>	ll available rec		neerin	g Tech	1. DAT	7/2	4/96	
	*(See Instri	etions a	ad Spaces F	on Additio	mul Doże	on Paris	wa Cistan						

FORMATION TOP BOTTOM DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		1	
				NAME	dol.	- 1
					MEAS, DEPTH	VERT, DEPTH
Morrow Sand	9143	9437	Sand, shale, lime - gas	Morrow	8985'	
				Barnett	9438	
				Mississippian	9788	
				Woodford	10,040	
		* * *		Devonian	10,090'	
						:
,						

N.M. Oil Cons. Division

OVED 1004-0135

Form	3160-5
(June	1990) 1

	011 0	4-4-0			FORM A	PPRO
UNITED STATES	811 S.	181 2	(reet	}	Budget Bureau	No.
PARTMENT OF THE INTERIOR	Artesia	. NM	88210	2824	Expires: Ma	rch:
REALL OF LAND MANAGEMEN	Γ	, , , , , , , , , , , , , , , , , , , ,	A 2 1 A	100	Lease Designation	and S

(June 1990)	DEPARTMEN	T OF THE INTERIORATION NM 88210	2824 Expires: March 31, 1993
•	BUREAU OF L	AND MANAGEMENT	E. NM06953
	SUNDRY NOTICES AN	O REPORTS ON WELLS	6. If Indian, Allottee or Tribe Name
Do not use this fo	orm for proposals to drill	or to deepen or reentry to a different reserve	의대 위 8 52
		PERMIT - " for such proposals	
	SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Well Gas Wol	Other	pecellyei	8. Well Name and No.
2. Name of Operator	Carlotter	A Constitution of the Cons	Federal "C" 35 1
Marathon Oil	Company	AUC A E 100C	9. API Well No.
3. Address and Telephone		AUG 0 5 1996	30-015-10403 10. Field and Pool, or exploratory Area
	Midland, TX 7970 (age, Sec., T., R., M., or Survey De		——————————————————————————————————————
	FNL & 1650' FWL	eciption) OIL CON. DI	11. County or Parish, State
Sec. 35, T-2		DIST. 2	
300.00, 12	1 3, 1 20 2		Eddy Co. NM
12. CHECK	APPROPRIATE BOX(s	TO INDICATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA
TYPE OF	SUBMISSION	TYPE OF A	ACTION >0 =
Notic	e of Intent	Abandonment	Change of Plans
		Recompletion	New-Construction C
X Subse	equent Report	Plugging Back	Non-Routine Fracturing [17]
		Casing Repair	Water Shut-Off
Final	Abandonment Notice	Altering Casing	Conversion to Injection
		X Other <u>Add Perfs & Sti</u>	
			(Note: Report results of pathrole completion on Completion of Recompletion Report and Log for
		pertinent details, and give pertinent dates, including estimated dical depths for all markers and zones pertinent to this work.)*	ate of starting any proposed work. If well is directionally
6-06-96: Usir	na thru tha auns or	wireline perforated 9384'-96'	9402'-16' W/8 JSPF
6-12-96: Acid	dized 9288'-9416' w	wireline, perforated 9384'-96' 1/9000 gallons 30% foamed acid c & 1575 gal methenol. Used 300	ontaining 6300 gallons 7 1/2
HCL/Meoh acid	d. 4725 gal 10% HCl	& 1575 gal methenol. Used 300	ball sealers. Flowed well
back to test	tank. Put into li	ne.	
	RU PU. NU BOP. PC arted fishing Van c	OH w/prod tbg & pkr. uns. Recovered guns on 7-1-96.	
7-02-96: NU	6" 5000# BOP. Ins	talled 3 1/2" treating string w	/pkr @ 9192′.
7-03-96: Fra	ac'd 9288'- 9416' w	/32.000 gallons, 52 qŭality foam	m'& 45,000# sand. Started
blowing down	to frac tank.		
	t well to test. The plug lost wi	re line tools. Started RU Cudd	nressure control
	shed down to 9196	w/coiled tbg. Fished wireline	tools.
7-13-96: Fis	shed for tbg plug.	<u> </u>	
7-14-96: C/C) w/coiled tbg.	anted in holo with 0.7/0"	+ h ~
7-15-96: PUL 7-16-96: Sat	UM W/LDY & PKM. ST nkm @ 9166' los	arted in hole with 2 7/8" prod ded backside w/2% KCl chemically	tbg. y inhibited wtr. Tested
backside to 5	500#. ND BOP. NU	tree. Kicked well off to test.	RDMO. PU.
е	,, ===:::,, <u>=</u>	211 211 22	-

14. I hereby certify that the foregoing is true and correct Signed Thomas Whence	Tiple Advanced Engineering Tech	. Date 7/24/96
(This space for Federal or State office use)	ACCEPTED FOR REGORD	Date
Approved by	Tipe AMAROLASS	Date
Conditions of approval, if any:	7 7 1 1996 The state of the s	
Title 18 U.S.C. Section 1001, makes it a crime for any person kno or representations as to any matter within its jurisdiction.	owingly and willfully to make to any department or egency of the U	nited States any false, ficutious or fraudulent statements

Form 3160-5 (June 1990)

TOWNSERVATION DIVISION

UNITED STATES 52 DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

ART	ESIA, NM	2843	ARPAR	₩ed
	Bu	dget Bur	eau No.	1004-0135
i	l	Expires:	March	11 1993

OIL CONSERVATION DIV

811 S. 1st ST

6. If Indian, Allottee or Tribe Name

Water Shut-Off

Dispose Water

Conversion to Injection

5.	Leaso	Designation	and	Serial	N
MI	069	53			

SUNDRY NOTICES AND REPORTS ON WELLS

• •	PERMIT - " for such proposals	
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
I. Type of Well Oil Gas Well Well Other		8. Well Name and No.
2. Name of Operator Marathon Oil Company	E FOED/E	Federal 'C' "35" #1 9. API Well No.
3. Address and Telephone No. P.O. Box 552. Midland. TX 7970 4. Location of Well (Footage, Sec., T., R., M., or Survey Des		130-015-10403 10. Field and Pool, or exploratory Area Indian Basin, U. Penn
1650' FNL & 1650' FWL Sec. 35. T-21-S. R-23-E	JUN 2 0 1995	11. County or Parish, State
	OIL GUM. DEV.	Eddy Co., N.M.
12. CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF AC	TION
Notice of Intent	Abandonment	Change of Plans
Subsequent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing

Completion or Recompletion Report and Los form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drillegive subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Casing Repair

Deepen to Devonian

See attached for detail

Final Abandonment Notice





Signed . It feel full file for	PROPORTINO DRIC GUITT	Date 5/30 7/6
(This space for Federal or State office use)		
Approved by	Title	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.



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

FEDERAL C "35" NO. 1

2/13/95 - MIRU PU, NU 7-1/16" 5M BOPE, ran RTTS to 220', tested annulus to 500 psi. Had communication between 7" and 9-5/8" casing. Isolated casing leak 5890'-5882'. Ran CBL, found TOC on 7" at 6344. Perf'd 7" 6340'-41' w/2 JSPF. Set retainer at 6275' and squeezed perfs w/100 sx "H" Neat. Had communication between 7" and 9-5/8" casing. Set 2nd retainer at 5803'. Pumped 885 sx 50-50 POZ w/100 sx "H" Neat. Squeezed off w/1500 psi. WIH w/2-7/8" and tagged TOC at 5800'. Tested BOP's to 1000 psi. Drilled cement and retainer at 5803' and cement to 5903'. Tested casing above retainer at 6275' to 1000 psi. Drilled retainer and cement to 6355'. Tested casing to 1000 psi. Tagged CIBP at 7256', drilled CIBP and lost returns, washed to CIBP at 7405'.

Set retainer at 7240' to squeeze open perfs at 7341'-96'. Squeezed perfs w/300 sx "H" w/sand and thixad, squeezed off to 2500#. Tagged cement at 7022'. Drilled cement and retainer to 7405', tested casing to 1000 psi. Drilled on HIP plug at 7405' and drilled cement to 7445', washed to 7495'. Attempted to test casing, perfs at 7412'-76' leaking. Spotted 50 sx "H" across perfs. Pressured up to 1500 psi. TIH and tagged cement at 7267', drilled cement to 7510', tested casing to 1500 psi.

4/23/96 - MIRU McVay No. 4, tested 11" 3M dual rams choke lines, manifold, floor valves and lines to 300/3000 psi. Tested annular to 1500 psi. PU 6-1/8" bit, DC's and 3-1/2" DP, TIH to 7808' - drilled cement in 7" shoe to 7850'. Drilled formation to 10,819', T/Devonian - 10,100'. Logged well as follows: HAL/NET/SONIC/BHC 10,812'-7200'. Ran FMI thru Morrow.

Ran 60 jts 4-1/2", 11.30#, FL4S to 10,115', Ran GR-CCL to correlate ECP/liner hanger. Liner top @ 7610'. Released setting tool from liner. Cemented w/345 sx "H" w/1% FL-62, 5 pps CSE, 3 pps Kolseal, 15% LWL, 45% CD-32. Plug down with 2200 hours.

5/5/96 - TOH w/2 stds. Reversed 21 sx cement into pit. WOC 7 hours. Tagged cement at 7606'.

Set RBP @ 3032'. Tested casing to 500 psi. Released McVay No. 4. The decision was made not to pursue a completion in the Devonian as a disposal well at this time due to favorable log analysis in the Morrow section.

5/9/96 - MIRU PU, NU 7-1/16" BOP and tested rams. PU 6-1/8" bit and DC's. RIH with tubing to TOL at 7613'. PU 7" RTTS and set packer at 7590'. Swab tested liner top, no fluid entry. POOH w/RTTS, RIH w/3-7/8" bit to TOC at 7613'. Did not find cement. RIH to 10,019'. Circ. clean, displace with 2% Kcl. Ran GR/CBL/CCL 10,019'-

7600'. RIH with 3-3/8" TCP guns. Set packer at 9186', ND BOP, NU 7-1/6" Christmas tree and tested to 3000 psi. Dropped bar, perf'd Morrow 9288'-96', 9326'-9338'. Max SI pressure - 47 psi. Swabbed 10 BW in 6 runs IFL - 7300', FFL - 9000'.

Shut well in for 72 hour pressure buildup. Acidized Morrow perfs w/5000 gals. 30% foamed acid w/3500 gals, 7-1/2% Hcl, 2625 gals 10% Hcl, flushed w/2% foamed Kcl. ISIDP - 2600 psi. 10 min. - 2350 psi, 1 hour - 2020. Max psi - 3800, avg. - 3650. Opened well, flowed well on 16/64" choke. Recovered 40 bbls fluid. Pressure dropped to 250 psi, opened to full choke, flowed at 20 psi, 9 BPH.

Tied well in with separator, tested well on 32/64" choke from 0700-0600 hours, 5/22/96. TP - 110, 522 MCF, 0 BOPD, 42 BWPD.

H:\wjd\fed35-1 srt

(June 1990) DEPARTMEN BUREAU OF L SUNDRY NOTICES AN Do not use this form for proposals to drill of	TED STATES T OF THE INTERIOR OF 15 FR ON DIV AND MANAGEMENT OF SECURED D REPORTS ON WELLS OF ONE OF THE SERVICION OF THE SER	5. Lease Designation and Serial No. NM-06953 6. If Indian, Allottee or Tribe Name
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil X Gas Well Other 2. Name of Operator Marathon Oil Company 3. Address and Telephone No. P.O. Box 552, Midland, TX 7970 4. Location of Well (Footage, Sec., T., R., M., or Survey De UL "F", 1650' FNL & 1650' FWL Sec 35, T-21-S, R-23-E		8. Well Name and No. Federal C 3 1 9. API Well No. 30-015-10403 10. Field and Pool, or exploratory Area Indian Basin Upper Penn 11. County or Parish, State
) TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF AC	TION
give subsurface locations and measured and true ver This well was tested for mechan	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other Other I pertinent details, and give pertinent dates, including estimated date tical depths for all markers and zones pertinent to this work.)* nical integrity on 1/24/96 and fai	iled. Marathon intends to
initiate work to repair the lead and RBP. The repair procedure enough a joint may be backed of	RECEI APR 01 OIL COL DIST	Ill be isolated using a packer he leak. If the leak is high ak will cement squeezed. Upon all integrity. AREA HE SOLIVED AREA HE SOLIVED N. DIV.

Fitle 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(This space for Federal or State office use)
Approved by

Conditions of approval, if any:

Title Advanced Engineering Tech.

' Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED			
Budget Bureau No.	10	04-013	
Bynirae: March	3 1	1993	

		•					
5.	Lease	Desig	gnation	and	Serial	No.	
					_	_	_

SUNDRY NO	TICES AND	REPORTS	ON	WELLS
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Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

6. If Indian, Allottee or Tribe Name

Use "APPLICATION FOR	PERMIT - " for such proposals	<u>.</u>	
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation INDIAN BASIN	
1. Type of Well Oil Well Gas Well Other		8. Well Name and No.	
2. Name of Operator Marathon Oil Company		FEDERAL "C" 1 9. API Well No.	
3. Address and Telephone No. P.O. Box 552, Midland, TX 7970		30-015-10403 10. Field and Pool, or exploratory Area	
4. Location of Well (Footage, Sec., T., R., M., or Survey Del 1650' FNL & 1650' FWL SEC. 35, T-21-S, R-23-E	11. County or Parish, State EDDY COUNTY NM		
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF AC	TION	
X Notice of Intent	Abandonment	Change of Plans	
Subsequent Report Final Abandonment Notice	Recompletion Plugging Back Casing Repair Altering Casing	New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection	
	Other DEEPEH	Dispose Water (Note: Report results of multiple completion on Well	

Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

WELL IS A PROPOSED SWD CONVERSION TO THE DEVONIAN FORMATION. AN APPLICATION TO INJECT FLUIDS HAS BEEN MADE WITH THE NMOCD.

SEE ATTACHED FOR DETAIL.



FEB 2 1996

LIE CONTROL Cy State

OIL CON. DIV. DIST. 2

14. I hereby certify that the pregoing is true and certect Signed V P V V PPN	Title [DRILLING SUPERINTENDENT	Date 01/05/96	-
(This space for Federal or State office use) Approved by Origination Advise Science Conditions of approval, if any:	Title _	Dugan barre Comminima	Date 1/31/96	-

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

UNITED STATES

SUBMIT IN TRIPLICATE*

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

(Other instructions on reverse side) **DEPARTMENT OF THE INTERIOR** 5. LEASE DESIGNATION AND SERIAL NO.

C	BUREAU OF	LAND MANA	GEME	NT		NM 06353 N	M 0695
APPL	ICATION FOR	PERMIT TO	O DR	ILL OR DEEPE	N	6. IF INDIAN, ALLOTTEE OF	TRIBE NAME
TYPE OF WORK DR		DEEPEN,	X			7. UNIT AGREEMENT NAMI INDIAN BASIN UN	
	GAS OTHER X		· · · · · ·	SINGLE MULTIP ZONE ZONE	LE 🗌	8. FARM OR LEASE NAME, IBU "C"	WELL NO.
Marathon Oil Con			· · · · · ·			9. API WELL NO. 30-015-10403	
P.O. Box 552, Mi	dland, TX 79702	1 Cara		915/682-	1626	10. FIELD AND POOL, OR W	ILDCAT
At surface 1650' FNL & 165	rt location clearly and in accord	lance with any State f	equireme	nts. →)		11. SEC., T., R., M., OR BLK AND SURVEY OR AREA	•
At proposed prod. zone 1650' FNL & 165	0' FWL					SEC 35,T-21-S	,R-23-E
	OF LAKEWOOD, NM	WN OR POST OFFICE*				12. COUNTY OR PARISH EDDY	13. STATE NM
5. DISTANCE FROM PROPOSE LOCATION TO NEAREST PROPERTY OR LEASE LINE	E, FT. 19470		16. NO. 41	OF ACRES IN LEASE	17. NO. OF A	ACRES ASSIGNED WELL NONE—SWD	
(Also to nearest drig, unit 8. DISTANCE FROM PROPOSE TO NEAREST WELL, DRILL OR APPLIED FOR, ON THIS	D LOCATION* LING, COMPLETED,	LOW		POSED DEPTH	20. ROTARY	Y OR CABLE TOOLS	
1. ELEVATIONS (Show wheth	her DF,RT, GR, etc.)				1	22. APPROX. DATE WORK ASAP	(WILL START*
3.		PROPOSED CASING	AND C	EMENTING PROGRAM		•	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	л	SETTING DEPTH		QUANTITY OF CEM	ENT
17 1/2"	13 3/8"	48		125'	250 SX	SX CIRC	
12 1/4"	9 5/8"	36		3340'	1630 S	X CIRC	
8 3/4"	7"	23,26		7850	200 SX	•	
6 1/8"	4 1/2"	11,35		10,000'	300 SX	TOC @ 7250'	
3 3/8" - OPEN H	OLE TO 11,000'						
WELL IS A PROPO	SED SWD CONVERSE	ON (F					
*CSG IN PLACE		l i	y en	CEIMED			37 37 67
			FE	B 2 1996			
				CON. DIV.			(C)
API#30-015-11	0403		(DIST. 2		ეგის — ნ ქოლი — ნ	3
	BE PROPOSED PROGRAM: tinent data on subsurface location	If proposal is to deepons and measured and	pen, give true verti	data on present productive zo cal depths. Give blowout prev	ne and propos enter program	sed new productive zone. If p n, if any.	proposal is to drill or
signed W.J. C	hueare FOR O	PW	TLE_DI	RILLING SUPERINTEN	DENT	DATE 01/18,	/96
(This space for Federal o	r State office use)						
PERMIT NO.				APPROVAL DATE			
	t warrant or certify that the applicant	holds legal or equitable titl	e to those r	ights in the subject lease which woul	d entitle the appl	icant to conduct operations thereon	L
CONDITIONS OF APPROV	TALLE AUT II						
APPROVED BY		тп	LE		·	_ DATE	

Thirteen Point Surface Use Plan MARATHON OIL COMPANY

Federal "C" #1 Sec. 35, T-21-S, R-23-E Eddy County, New Mexico

- 1. <u>Existing Roads</u>: Refer to Vicinity Lease Map.
 - a. The existing well pad will be used for this recompletion. No additional pad area will be required.
 - b. To reach the location from Carlsbad, New Mexico: Follow Hwy 285 North of Carlsbad 14 miles. Turn West on Queen's highway (NM 137) for 8.8 miles. Turn right on NM 401 for 5 miles, turn left on existing lease road for .8 miles. Turn left at "Y" and follow .75 miles, then right at "Y" and follow one mile into location.
 - c. Existing roads within a one-mile radius (refer to Vicinity Lease Map).
 - d. The existing road will be maintained as necessary to provide access during the drilling operation.
- 2. <u>Planned Access Road</u>: Refer to Vicinity Lease Map.

Access will be by existing lease roads. Construction plans will require blading and rolling the road and pad. No access road is required for this recompletion. The existing road enters the drilling pad on the southwest corner. The drilling location will have a V-door facing east

- 3. <u>Location of Existing Wells</u>: See Vicinity Lease Map.
- 4. Location of Existing and Proposed Production Facilities within a one-mile radius:
 - a. Existing: There are four gas wells operated by Marathon and Oryx within a one-mile radius of the proposed location. These locations have production facilities including separators, condensate storage tanks and location drips. Marathon and Oryx operates 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, levelling and seeding as recommended.

5. Location and Type of Water Supply:

- a. Source: Indian Basin Gas Plant, SW/4, NE/4, Sec. 23, T-21-S, R-23-E.
- b. The water will be pumped thru 3" plastic line 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. No construction materials will be required.
- 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, a $75' \times 75'$ workover pit will be lined and dug.
- 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 levelled. 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 existing drillsite layout.
- 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, levelling, 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 soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula by 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 levelling 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 drilling 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.

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 4-1/2 miles.
- e. General location: Approximately 8.5 miles west of Lakewood, New Mexico.
- f. Drainage: Internal
- g. Surface Owner: The surface is owned by the Federal Government

A. P. D. (cont.)
Thirteen Point Surface Use Plan
Federal "C" #1

12. Operator Representatives:

David Nordt
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.

18-46

Date

W. J. Queau FOR DPN

DRILLING PROGRAM MARATHON OIL COMPANY

Federal "C" #1

1. Estimated KB Elevation: 3974'

<u>FORMATION</u>	TOP MEASURED	SUBSEA	MEASURED	SUBSEA	FLUID CONTENT
Morrow Barnett Mississipian Woodford Devonian	9050' 9482' 9736' 10126' 10193'	-5076' -5508' -5762' -6152' -6219	9482' 9736' 10126' 10193' 11176'	-5508' -5762' -6152' -6214 -7202	water water
<u>FORMATION</u>	PSIG PPG EN		HT H2S <u>PPM</u>	-SIGNIFICANO (obj. marker, e	
Morrow Barnett Mississipian Woodford Devonian	3656 9.4 3795 9.4 3910 9.4 4072 9.4 3095 8.3		500	marker marker marker objective	

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

7" Production: 11" 3M annular tested to 200#/2000#, 11" 3M dual rams, choke manifold and mud cross, tested to 300#/3000#.

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 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

- 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.

ς.

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

DEPT <u>FROM</u>		SECTION LENGTH	HOLE SIZE		WT. <u>PPF</u>		THREADS COUPLINGS	NEW USED
	10000' 11000'			4.5" Open H		L-80	FL-45	New

The 4 1/2" liner will be run below the Woodford Shale to ensure that the ECP will isolate the Woodford from the Devonian.

Centralizer Program:

4 1/2" Conventional centralizers middle of 1st joint, then every joint to 9000', and 1 centralizer every 4th joint thereafter to 7300'.

Cementing Summary

4 1/2" liner, 7250' - 10,000' ECP tool depth - above landing collar

Slurry: Class "H" with 5% CSE + 1% CF-14, 3% WL-1P

FROM <u>DEPTH</u>	TOC	HOLE <u>SIZE</u>	% EXCESS	YIELD	DENSITY	QTY <u>\$X</u>
10,000'	9200'	6.125	50	1.28	15.33	165
9,200'	7850'	ANN	50	1.28	15.33	65
7,850'	7250'	CSG	0	1.28	15.33	70

A. P. D. (cont.) Thirteen Point Surface Use Plan Federal "C" #1

5. Mud Program:

DEPTH	WEIGHT	WL	VISUAL
FROM TO MUD TYPE	(PPG) VIS	CC ADDITIVES	<u>MONTR.</u>
7850' 10000' Cut Brine 10000' 11000' Freshwate		<20 Salt Gel, Starch, Caustic N/C Gel	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:

INTE LOG/TEST/CORE/MUDLOG/OTHER	RVAL- FROM	TO	REMARKS
DLL/MSFL/GR	TD	8000'	
LDT/CNL/GR/CAL	TD	8000'	
MUD LOGGER	NONE		
NO CORES OR DST'S			

7. <u>Abnormal Pressures, Temperatures or Potential Hazards</u>:

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

8. Other Information:

Anticipated Starting Date: As soon as possible.

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

PROPUSED SND CONVERSION

13-3/8" 48# set at 125' Cemented with 250 sxs. Cement Circulated. 9-5/8" 36# set at 3340' Cemented with 1630 sxs TOC 225'. 4-1/2" Tubing <u>Liner</u> Hanger Polished Bore Receptical Perforations: 7360' to 7396' (original 1964) 7341' to 7366' (added 1993) 7382' to 7393' (added 1993) Perforations: 7412' to 7476' (original 1965) 7" 26, 23, and 20# set at 7850' Cemented with 200 sxs. WELL NAME: Federal "C" Well No. 1

LOCATION: 1650' FNL & 1650' FWL Section 35, T-21-S, R-23-E Eddy County, NM

ELEVATIONS: GL: 3961' KB: 3974'

SURFACE CASING 13-3/8" 48# set at 125' Cemented with 250 sxs. Cement circulated

INTERMEDIATE CASING 9-5/8" 36# set at 3340' Cemented with 1630 sxs. Cement circulated. TOC 225'

LONG STRING 7" 26, 23, & 20# set at 7850' Cemented with 200 sxs.

PROPOSED

LINER
4-1/2" 11.6# set from 7250' to 10.06
Cement with 300 sxs.
Polished-Bore Receptical at 7250'.
External Casing Packer and
Cement Stage Tool at 10,000'.

TUBING 4-1/2" tubing to 7250'. Lined with "Duoline-20" Fiberglass-Epoxy Lining

INJECTION INTERVAL
Open Hole 10,000 ft to 11,00 ft
Hole Size: 6-1/8"

PERFORATIONS
Propose to cover perforations:
7360' to 7396'
7341' to 7366'
7382' to 7393'
7412' to 7476'
with 4-1/2" liner and cement.

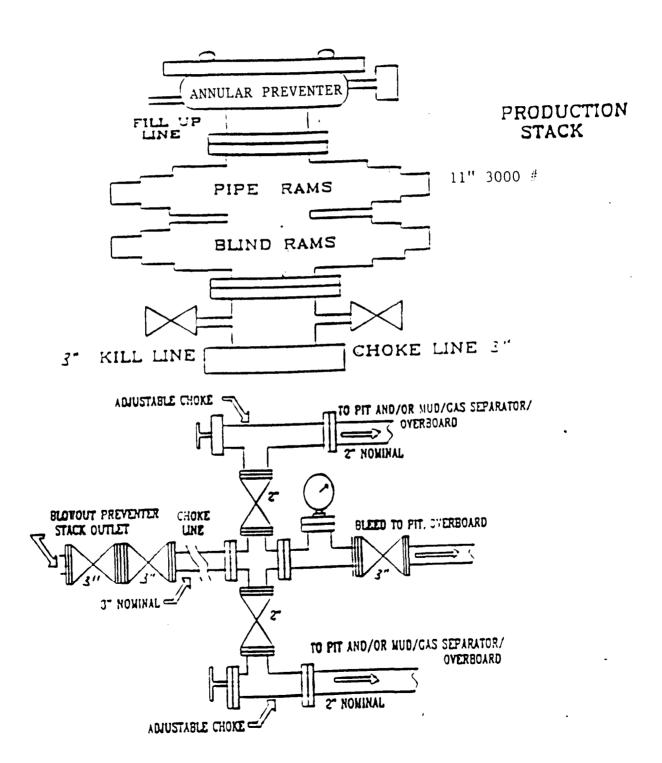
4-1/2" Casing Set at ± 10,000 feet with External Casing Packer.

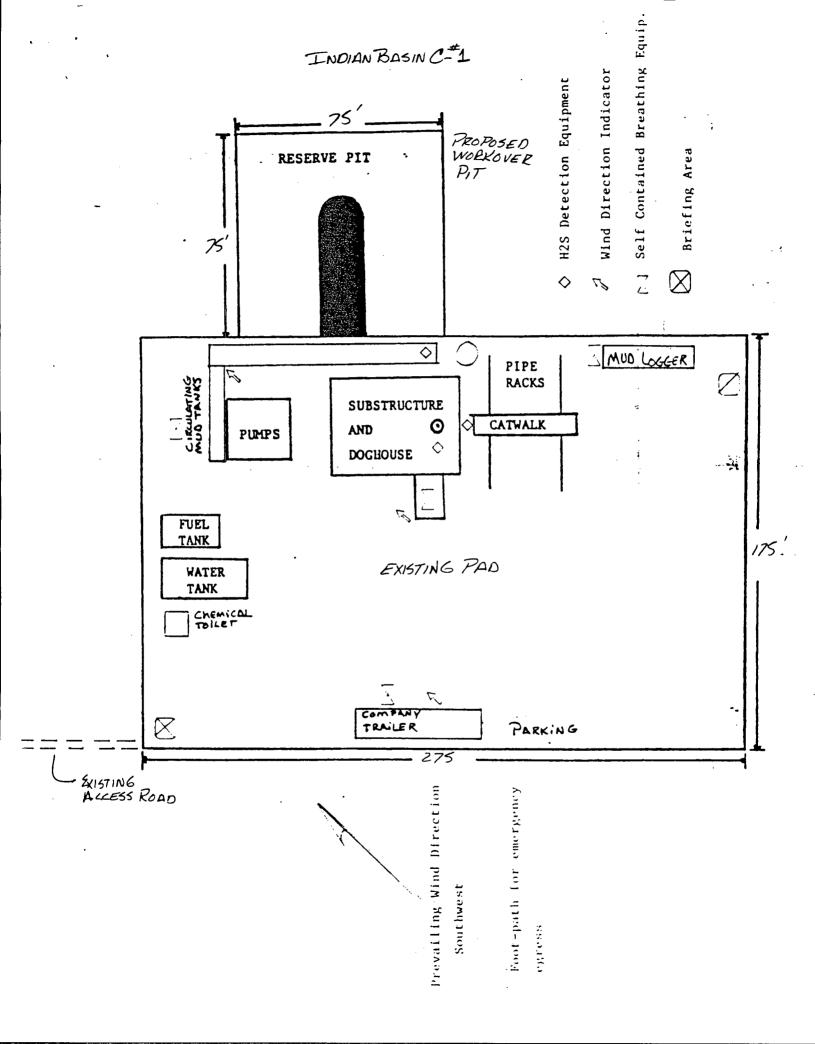
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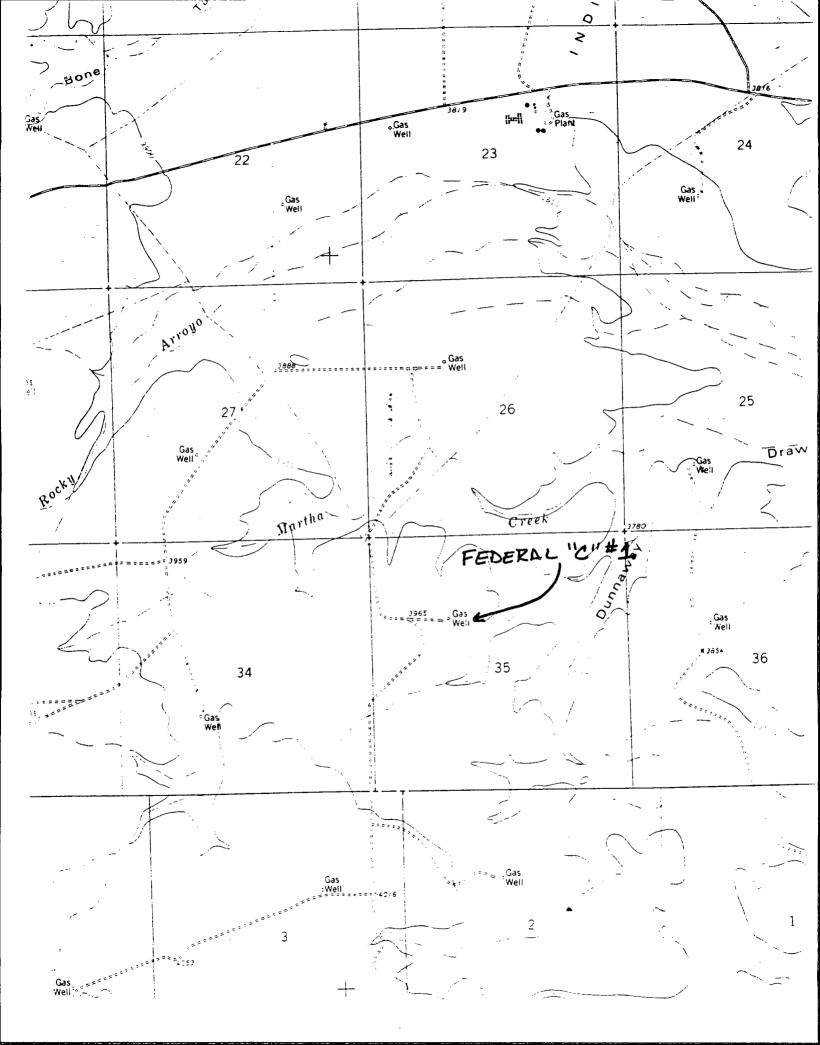
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Open Hole Section 10,000 ft to 11,050 ft

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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.
- 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

(June 1990). DEPARTMEN BUREAU OF I SUNDRY NOTICES AN Do not use this form for proposals to drill	TED STATES IT OF THE INTERIOR LAND MANAGEMENT OR REPORTS ON WELLS or to deepen or reentry to a different reservo PERMIT - " for such proposals	Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No. NM-06953 6. If Indian, Allottee or Tribe Name
SUBMIT	IN TRIPLICATE	7. If Omt of CA, Agreement Designation
1. Type of Well Oil Gas Well Other 2. Name of Operator		8. Well Name and No. Indian Basin Federal C1 // 1 9. API Well No.
Marathon Oil Company 3. Address and Telephone No.	00. 100. 100.	30-015-1040 7 10. Field and Pool, of exploratory Area
P.O. Box 552, Midland, TX 7970 4. Location of Well (Footage, Sec., T., R., M., or Survey Do		10. Pieta and Pool, of exploratory Alex
1650' FNL & 1650' FWL Section T-21-S, R-23-E, N.M.P.M. Eddy	25) 35 County, New Mexico	11. County or Parish, State Eddy NM
12. CHECK APPROPRIATE BOX(s	s) TO INDICATE NATURE OF NOTICE, REF	PORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF A	CTION
X Notice of Intent	Abandonment Recompletion	Change of Plans New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
Final Abandonment Notice	Casing Repair Altering Casing Other	Water Shut-Off Conversion to Injection Dispose Water
		(Note: Report results of multiple completion on Well Completion of Recompletion Report and Log form.)
Describe Proposed or Completed Operations (Clearly state a give subsurface locations and measured and true versions).	Il pertinent details, and give pertinent dates, including estimated da rtical depths for all markers and zones pertinent to this work.)*	
Marathon Oil Company propses tinjection well. The proposed as per the attached State of N to Inject.	o convert Indian Basin Federal "C well will be deepened and complet ew Mexico, Oil Conservation Divis	C" Well No. 1 to a salt water ted in the Devonian formation sion, Application for Authority
R	RECEIVED	125 (25 1) 1. May 2. Ma
	FEB 2 1996	SEP 28
Ol	IL CON. DIV. \ DIST. 2	1995 10 May 1995
Like Approval By State		W SERVICE
14. I hereby certify that the foregoing is true and correct Signed Sillus	тие <u>Project Manager</u> - IBA	
(This space for Federal or State office use) Approved by Orig. Signed by Adam Salam Conditions of approval, if any:	Petrology Engineer	Date 117/96
Title 18 U.S.C. Section 1001, makes it a crime for any persor representations as to any matter within its jurisdiction.	son knowingly and willfully to make to any department or agency o	f the United States any false, fictitious or fraudulent statements

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Indian Basin Federal "C" Well No. 1 Proposed Injection Well Attachments to C-108

Part III

Well Data

See attached well data sheet for Indian Basin Federal "C" Well No. 1

Part V

Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

See attached map.

Part VI

Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

There are <u>no</u> wells within the "area of review" (one-half mile radius) which penetrate the proposed disposal interval.

Part VII

See attachment.

Part VIII

See attachment.

Part IX

Describe the proposed stimulation program, if any.

The proposed injection well will be completed open hole. The proposed open hole interval will be stimulated using 15% HCl acid (\pm 6000 gallons).

Indian Basin Federal "C" Well No. 1 Proposed Injection Well Attachments to C-108

Part X

Attach appropriate logging and test data on the well.

Forms C-103 and C-105, along with an inclination report and logs were filed on this well.

Part XI

Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

There are no fresh water wells within a one mile radius of the proposed injection well.

Part XII

Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Marathon Oil Company, as Operator of the proposed injection well, has reviewed and examined available geologic and engineering data and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

R.A. Biernbaum

Part XIII

Proof of notification

See attachments

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PARTS V A	rathon Oil Company	Federal "C" Well No. 1 Section 35 T-21-S, R-23-E, N.M.P.M. Eddy County, New Mexico	Con Janes Con Ja	Crys Energy (Crys Energy Crys	A STATE OF THE STA	thing to the state of the state
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Indian Basin Federal "C" Well No. 1 **Proposed Injection Well** Attachments to C-108 (Part VII)

Proposed Operations

1. Proposed average and maximum daily rate and volume of fluids to be injected.

Fluid:

Produced Water

Average Rate:

7,500 **BPD**

Maximum Rate:

15.000

BPD

2. Whether the system is open or closed.

> The proposed disposal system will be a closed system. Produced water will be gathered to a central location and will be pumped to the proposed injection well. The facility will be closed to "third-party" dispoal operators.

Proposed average and maximum injection pressure. **3.** .

Average Pressure:

1000 psi

Maximum Pressure:

2200 psi

Sources and an appropriate analysis of injection fluid and compatibility with 4. the receiving formation if other than reinjected produced water.

> The source of the injection fluid will be produced water from offsetting leases.

Formations: Upper Penn

Morrow

See attached water analysis for each of the above zones.

Indian Basin Federal "C" Well No. 1 Proposed Injection Well Attachments to C-108 (Part VII)

Proposed Operations - continued

5. If injection is for disposal purpose into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.)

Marathon Oil Company ran a DST test on North Indian Basin Well No. 1 (Section 9, T-21-S, R-23-E, Eddy County New Mexico) in 1963. The DST tested the interval 10,009 ft to 10,100 ft. Based on the DST, the following analysis was reported:

Specific Gravity	1.109	
pН	6.8	
Resistivity	.285	@ 94 ⁰ F
Chlorides (CI)	11,000	
Sulfates (SO4)	1500	
Alkalinity (HCO3)	610	
Calcium (Ca)	1080	
Magnesium (Mg)	775	
Iron (Fe)	20	
Sodium (Na)	5359	
Sulfides (H2S)	negi.	

UPPER PENN



EABERSYORIES,

12 Bankbead Hwy. 11and, 1exas 79701 15) 689-7252 R & 1915) 685-0130

WATER ANALYSIS REPORT

Dil Co. : Marathon Oil Company Indian Hills State Com Well No.

Seperator Sight Glass 08-July-1994 Noel Garza 07010-1 Sample Loc. : Date Sampled : Attention :

Attention : Analysis No. :

/ 18.2 =

58.48

0.02

2.95

17

Job No.: 9407010

ANALYSIS

MG/L EQ. WT.

pH 7.350 Specific Gravity 60/60 F. 1.003 CaCO: Saturation Index 9 80 F. +0.248 Q 140 F. +0.948

Dissolved Gasses

4,	Hydrogen Sulfide		64.8
	Carbon Dioxide	Not	Determined
6.	Dissolved Oxygen	Not	Determined

Cations

	Caloium	· (Ca.**)		140	1	20.1	20	6.97
8. 9.	Magnesium Sodium	(Mg++) (Na+)		109	1	12.2	-	8.93
9.			(Calculated)	67	/	23.0	-	2.91
10.	Barium	(Ba**)	Not Determi:	ned				

Anions

11. Hydroxyl 12. Carbonat 13. Bicarbon 14. Sulfate 15. Chloride	e (CD; *) ate (HCO; *) (SO4 *)	0 0 244 43 496	/ 17.0 = / 30.0 = / 61.1 = / 48.8 = / 35.5 =	0.00 0.00 3.99 0.58 13.97
16. Total Di	ssolved Solids	1,099		

Total Iron (Fe)
Total Hardness As CaCO_a
Resistivity @ 75 F. (Calculated) 801 4.997 /cm.

LOGARITHMIC	WATER	PATTERN
***	10/1	

LOGARITHMIC WATER PATTERN	PROBAB COMPOUND	LE MINERAL EQ. WI. X	COMPOSIT	ION L
Na	Ca (HCO ₂) ₂	81.04	3.99	32
Ca	CaSO.	58.07	0.88	64
Mg MHILL MILLE MILLE THEM THEM THEM SO4	CaCl:	55.50	2.09	11
10000 1000 100 10 1 10 100 1000 1000	Mg (HCO ₂) ₂	73.17	0.00	
*Milli Equivalents per Liter	MgSO4	60.19	0.00	
Calculated Calcium Sulfate solubility in this brine is 2,259 mg/L. at 90 F.	MgCL:	47.62	8.93	42
- CHILD OF THE LACE OF T	NaHCO:	84.00	0.00	
	NaSO.	71.03	0.00	

NaCl

Remarks and Comments:

*MEQ/L

2.08

שנוט כפס בול ב 8771.794 87146

MORROW



EABBRZYORIES. INC.

3312 Bankhoad Hey Midland, Texas 79701 (915) 669-7232 FAX 6 (915) 689-0130

WATER ANALYSIS REPORT

Marathon Oil Company Winston Federal Lease :

Well No.: Job No.: 9407010

Seperator Sight Glass 08-July-1994 Noel Garza 07010-2 Sample Loc.

Date Sampled : Attention : Analysis No. 1

EQ. WT. MG/L

ANALYSIS

pH Specific Gravity 60/80 F. 1.089 CaCO. Saturation Index G 80 F. -0.303 Q 140 F. +0.817

Dissolved Gasses

Hydrogen Sulfide Carbon Dioxide Dissolved Oxygen Not Determined Not Determined

Cations

8. 9.	Calcium Magnesium Sodium	(Ca**) (Mg**) (Na*)	5,451 340 (Calculated) 32,955	//	20.1 = 12.2 = 23.0 =	271.19 27.87 1,492.63
10.	Barium	(Ba**)	Not Determined			

Anions

11. 12. 13. 14. 15.	Hydroxyl Carbonate Bicarbonate Sulfate Chloride	(OH-) (CO; -) (HCO; -) (SO; -) (Cl-)	0 0 134 540 60,979	1	17.0 30.0 61.1 46.6 35.5	æ æ	0.00 0.00 2.19 11.07 1,717.72
18	Total Disso	lved Solide	100.399				

Total Dissolved Solids
Total Iron (Fe)
Total Hardness As CaCC, 15,013
Resistivity @ 75 F. (Calculated) 0.092 /cm. / 18.2 =

LOGARITHMIC WATER PATTERN	PROBAB COMPOUND	LE MINER	AL COMPOSI	TIDN mg/L.
Na	Ca(HCO:);	81.04	2.19	178
Ca WHILL WITH WHILL HATTE THINK THINK HCO3	CaSO ₄	68.07.	11.07	753
Mg	CaClz	55.50	257.94	14,315
1000 1000 1000 1000 1000 1000 1000 100	Mg(HCO _b) _z	73.17	0.00	0
*Milli Equivalents per Liter	MgSO4	60.19	0.00	. 0
Calculated Calcium Sulfate solubility in this brine is 2,538 mg/L. at 90 F.	MgCL:	47.82	27.57	1,327
this bring is 2,550 mg/L. at 50 F.	NaHCO,	84.00	0.00	0
	NaSO4	71.03	0.00	0
Smal I fait	NaC1	58.48	1,431.91	83,710

Remarks and Comments:

Indian Basin Federal "C" Well No. 1 Proposed Injection Well Attachments to C-108 (Part VIII)

Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

Injection Zone

Geological Name:

Siluro - Devonian

Lithology:

Dolomite / Limestone

Thickness:

± 1000 ft

Depth:

10,000 ft

Drinking Water - Overlying

Geological Name:

Alluvian

Depth to bottom:

50 ft (?)

Geological Name:

Lower Queen

Depth to bottom:

900 ft

Above data based upon publication: <u>Geology and Ground Water Resources of Eddy County, New Mexico.</u>

Drinking Water - Underlying

None

Indian Basin Federal "C" Well No. 1 Proposed Injection Well Attachments to C-108 (Part XIII)

Offset Operators

Marathon Oil Company is the Operator of all leases within one-half mile of the proposed injection well.

Surface Owners

1.

United States of America Bureau of Land Management Carlsbad Resource Area P.O. Box 1778 Carlsbad, New Mexico 88221

Affidavit of Publication

State of New Mexico,

County of Eddy, ss.
Amy McKay
being first duly sworn, on oath says:
That she is Business Manager of the Carlsbad Current-Argus, a newspaper pub-
of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:
<u>July 25</u> , 19 95
, 19
,19
,19
,19
That the cost of publication is \$\frac{18.69}{}, and that payment thereof has been made and will be assessed as court costs.
Subscribed and sworn to before me this
He Hayof July , 1995
My commission expires 08/01/98
Notary Public

July 25, 1995

PROPOSED INJECTION WELL

Marathon Oil Company, as Operator, proposes to deepen and convert the Indian Basin Federal "C" Well No.1 to water disposal service. The location of the well is 1650' FNL and 1650' FNL, Section 35, Township 21 South, Range 23 East, Eddy County New Mexico. The zone to be injected is

the Siluro-Devonian from 10,000 ft to 11,000 ft with a maximum injection rate of 15,000 BWPD, and a maximum injection pressure of 2200 psig. Any interested party with objection or request of hearing should notify the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within fifteen (15) days of this notice. Any questions should be directed to R.A. Biernbaum of Marathon Oil Company at P.O. Box 552, Midland, Texas 79702 or telephone (915) 682-1626.

PROPOSED SWD CONVERSION

13-3/8" 48# set at 125' Cemented with 250 sxs. Cement Circulated. 9-5/8" 36# set at 3340' Cemented with 1630 sxs TOC 225'. 4-1/2" Tubing Liner Hanger Polished Bore Receptical Perforations: 7360' to 7396' (original 1964) 7341' to 7366' (added 1993) 7382' to 7393' (added 1993) Perforations: 7412' to 7476' (original 1965) $7^{\prime\prime}$ 26, 23, and 20# set at 7850' Cemented with 200 sxs. 4-1/2" Casing Set at \pm 10,000 feet with External Casing Packer. \boxtimes \boxtimes Open Hole Section 10,000 ft to 11,000 ft

WELL NAME: Federal "C" Well No. 1

LOCATION: 1650' FNL & 1650' FWL Section 35, T-21-S, R-23-E Eddy County, NM

ELEVATIONS: GL: 3961' KB: 3974'

SURFACE CASING 13-3/8" 48# set at 125' Cemented with 250 sxs. Cement circulated

INTERMEDIATE CASING 9-5/8" 36# set at 3340' Cemented with 1630 sxs. Cement circulated. TOC 225'

LONG STRING 7" 26, 23, & 20# set at 7850' Cemented with 200 sxs.

PROPOSED

LINER
4-1/2" 11.6# set from 7250' to 10,000
Cement with 300 sxs.
Polished-Bore Receptical at 7250'.
External Casing Packer and
Cement Stage Tool at 10,000'.

TUBING 4-1/2" tubing to 7250'. Lined with "Duoline-20" Fiberglass-Epoxy Lining

INJECTION INTERVAL
Open Hole 10,000 ft to 11,00 ft
Hole Size: 6-1/8"

PERFORATIONS
Propose to cover perforations:
7360' to 7396'
7341' to 7366'
7382' to 7393'
7412' to 7476'
with 4-1/2" liner and cement.

v		•	NM OIL CONS COMMISS
Form 3160-5	UNITED ST	TATES	Drawer FORM APPROVEDO Artebdes Bureau No. 1004-0135
(June 1990)	DEPARTMENT OF T BUREAU OF LAND		VIS Expires: March 31, 1993 5. Lease Designation and Serial No.
•	SUNDRY NOTICES AND REF	Friedrich auf der Auf	NM-06953
Do not use this form	n for proposals to drill or to d	eepen or reentry to a different reserv	Oir 26. If Indian, Allottee or Tribe Name
<u>Us</u>	se "APPLICATION FOR PERMI	T - " for such proposals	
	SUBMIT IN TI	RIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Well Well Gas Well	Other		8. Well Name and No.
2. Name of Operator Marathon 011 C	ompany	P	Federal C 1 9. API Well No.
3. Address and Telephone N	o.	015 607 0004	30-015-10403 10. Field and Pool, or exploratory Area
P.O. BOX 552, 4. Location of Well (Footage	Midland, TX 79702	915-687-8324 E 5)	Indian Basin / Upper Penn
UL "F" 1650' F	FNL & 1650' FWL		11. County or Parish, State
SECTION 35, T	-21-S, R-23-E	JUL 2 1 1995	Eddy Co NM
12. CHECK A	PPROPRIATE BOX(s) TO	INDICATE NATURE OF NOTICE, RE	
TYPE OF SI	JBMISSION	OUL CONS. LYPE OF	ACTION
Notice o	f Intent	Abandonment °	Change of Plans
X Subsequ	ent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing
		Casing Repair	Water Shut-Off
Final Ab	pandonment Notice	Altering Casing	Conversion to Injection
		Other <u>Change of Ope</u>	(Note: Report results of multiple completion on Wel
3. Describe Proposed or Comgive subsurface lo	pleted Operations (Clearly state all pertinen cations and measured and true vertical depti	it details, and give pertinent dates, including estimated his for all markers and zones pertinent to this work.)*	Completion or Recompletion Report and Log form. date of starting any proposed work. If well is directionally dri
As required by notification o	43 CFR 3100.0-5(a) a f a change of operato	nd 43 CFR 3162.3 Marathon C r on the above referenced 1	Oil Company is giving ease
Marathon Oil C and restrictio	ompany, as new operatins concerning operati	or accepts all applicable toons conducted on the lease	erms, conditions, stipulations or portion of lease described.
Marathon Oil C Bond Coverage: BLM Bond File	Nationwide	bonding requirements as fol	lows (43 CFR 3104)
The effective	date of this change w	as April 1 1995	
	auto or orro orrange w	20 · p. · · · 21 · 2330 ·	A CO UI
		LACCEPTED FOR A	RECORD 3 4 4
		J. Tare	c com
		0 0 19	95 5 5
		The state of the s	E C
		CARLSEAD, NEW	MENCO De E
14. I hereby certify that the	e foregoing is true and correct	Title Advanced Engineering	Tech. Date 6/15/95
(This space for Federal		The first odd Engineer ing	Date Of 13739
Approved by		Title	Datc
Conditions of approval		poly and willfully to	
	oul, makes it a crime for any person knowled within its jurisdiction.		of the United States any false, fictitious or fraudulent statement
		* See Instruction on Reverse Side	

1980, Hobbs, NM 88241-1980 *H*airlet II 811 S. Ist Street, Artesia, NM 88210-2834

OIL CONSERVATION DIVISION ERV. UN ESTUBBLE TO Appropriate District Office

Instructions on back

District III 1000 Rio Brazos R	td., Aztec, Ni	M 87410			P.O. Bo				ECELVED	,	· ·pp·op·	5 Copi
District IV PO Box 2088, San				Santa	a Fe, NN	Mr875[M	1-2088 3-205		8 nG	52 <u></u>	AME	NDED REPOR
I.	•		ST FOR			Car Gas			TION TO T			
			perator name					3 199	L		Number	
Marathon (pany				@nn	606	is fasti – fi		(014021	
P.O. Box 5		70700							EFF. 4/		r Filing Co	
Midland, 7	API Number	79702				5 Pool Na		ST. 2	<u> </u>	iange I	of Ope	erator ool Code_
30-0	15-1040	าว			Indian	Racin	Unnan	Donn			79	040 7990
	perty Code					Property N		renn	·			ell Number
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		Locatio			, <u>,</u>							
UL or lot no.	Section	Township	Range	Lot. Idn		rom the	1	outh Line	Feet from the		West line	County
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UL or lot no.	Section	Township		Lot. Idn	Feet f	rom the	North/S	outh Line	Feet from the	East/	West line	County
	1											
12 Lse Code	1	ing Method (Connection		C-129 Pen	mit Numb	ег	¹⁶ C-129 Effectiv	e Date	¹⁷ C-1	29 Expiration Date
Federal		owing	· · · · · · · · · · · · · · · · · · ·	1/26/66								
III. Oil and	d Gas T		ters	me	T	20 POD		21 O/G	22 PC	OD ULS	TR Locatio	n
OGRID			and Address			-				and De	scription	
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			exas 79	702								
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							180					
IV. Produc	ced Wa	ter			24	202 111 0						
19589	_	UL "F	", Sec 3	35, T-2		POD ULS 23-E	I K Locati	ion and De	escription			
V. Well C			⁶ Ready Date			²⁷ TD			²⁸ PBTD		29 Day	rforations
²⁵ Spud D	Jate	'	Ready Date	•	•	" ID			™ PBID		27 Pe	HOTAUONS
30 H	ole Sie		³¹ Casi	ng & Tubing	Size		³² D	epth Set			33 Sacks Co	ement
VI. Well T												
34 Date New	Oil	35 Gas Deliv	ery Date	³⁶ Test	t Date		Test Leng	th	38 Tbg. Pressu	ire	39 (Csg. Pressure
40 Choke Siz	e	⁴¹ Oi		⁴² W	ater		⁴³ Gas		⁴⁴ AOF		45 7	Cest Method
46 I hereby certif						<u>, </u>		OIL CO	ONSERVATIO	N DIV	ISION	
	complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Printed name: R. A. Biernabaum Title: Project Manager Indian Basin Asset Team Date: 10/09/95 Phone: 915/687/8442											
Printed name:	homas		O tox 1	H Dlen	nbaun	Title:	<i>S111</i>	VUI	1-HIM			
R. A. Bie						Approval 1	Date:	grie	Superor	sov		
Project M		Indian				1 ippiovai 1	W.	ut	use	aei	wa	n
Date: 10/09	/95		Phone: 9	15/687/	847/2				0			

Printed Name

PAMELA M. LEIGHTON

Title

CLERK

Date

11/8/95

MW PETROLEUM CORPORATION

11	CONS	SERY-	ИC	DIVIS	ION
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(June 1990)

RECE VED **UNITED STATES**

DEPARTMENT OF THE INTERIOR

RECEIVED

DEC 2 3 1991

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

92 JAN BEWREAU-OF LAND MANAGEMENT O. C. D. SUNDRY NOTICES AND REPORTS ON WELLS			
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name		
SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation		
I. Type of Well Oil X Gas Well Well Other	8. Well Name and No.		
2. Name of Operator MW PETROLEUM CORPORATION ✓	Federal C #1 9. API Well No.		
3. Address and Telephone No. P. O. Box 4628, Houston, Tx. 77210	10. Field and Pool, or Exploratory Area		
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	Indian Basin Upper Pen		
1650 FNL, 1650' FWL, Section 35-21 S-23 E	II. County or Parish, State Eddy County, New Mexic		
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	ORT. OR OTHER DATA		

	0	A TO MIDIOATE MATURE OF MOTIOE	PERCET OF CTUER DATA				
2.	CHECK APPROPRIATE BOX	PROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
	TYPE OF SUBMISSION	TYPE OF	ACTION				
	X Notice of Intent	Abandonment	Change of Plans New Construction				
	Subsequent Report	Recompletion Plugging Back	Non-Routine Fracturing				
	Final Abandonment Notice	Casing Repair Altering Casing	Water Shut-Off Conversion to Injection				
		Cther	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)				

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

To install Ajax DPL-300, Integral Gas Compressor on existing Production Pad. Unit is mounted on a heavy duty oil field type skid with dimensions on 18' wide x 16' long. Installation is anticipated on or about December 10, 1991.

14. I hereby certify that the foregoing is true and correct		
signed Jun Wall	Title Senior Production Engineer	Date11/19/91
(This space for Federal or State office use)	entra esta esta esta esta esta esta esta est	- 12 2 41
Approved by Conditions of approval, if any:	Title	Date 12.21 9/
Conditions of approval, if any.		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements

Subinit 5 Copies
Appropriate District Office
DISTRICT I OURDIN WORL ID SHIP Form C-104 Revised 1-1-89 Energy, Minerals and Natural Resources Department NOIVISION See Instructions at Bottom of Page <u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240 RECEIVED DISTRICT II COUSER TED OIL CONSERVATION DIVISION P.O. Box 2088 DEC - 3 1991 DISTRICT III
1000 Rio Brazos Rd. Azior NM 87410 FIM 9 12
REQUE Santa Fe, New Mexico 87504-2088 O. C. D.
REQUEST FOR ALLOWABLE AND AUTHORIZATIONARTESIA OFFICE T. TO TRANSPORT OIL AND NATURAL GAS Operator Well API No. MW Petroleum Corporation 30-015-10403 Address 1700 Lincoln St., Suite 1900, Denver, Co. 80203 Reason(s) for Filing (Check proper box) Other (Please explain) New Well Change in Transporter of: Recompletion Dry Gas X Change in Operator Casinghead Gas Condensate If change of operator give name and address of previous operator Amoco Production Company, P.O. Box 591, Tulsa, Ok II. DESCRIPTION OF WELL AND LEASE Pool Name, Including Formation Indian Basin - Upper Penn Lease No. NM 06953 Lease Name Well No. Kind of Lease ... Federal C State Federahor Fee Location 1650 Feet From The North Line and 1650 West Feet From The Line Range 23-E Eddy 35 Township NMPM. County III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS Name of Authorized Transporter of Oil or Condensate Address (Give address to which approved copy of this form is to be sent) $\langle X \rangle$ Scurlock Permian Corporation P.O. Box 4648, Houston, Tx 77210 Name of Authorized Transporter of Casinghead Gas or Dry Gas X Address (Give address to which approved copy of this form is to be sent) Marathon Oil Company P.O. Box 552, Midland, Tx 79702 If well produces oil or liquids, Twp. Rge. Unit Sec. Is gas actually connected? When? give location of tanks. 23 1/26/66 F 35 1 21 Yes If this production is commingled with that from any other lease or pool, give commingling order number: IV. COMPLETION DATA Oil Well Gas Well New Well Workover Deepen Plug Back | Same Res'v Diff Res'v Designate Type of Completion - (X) Date Spudded Date Compl. Ready to Prod. P.B.T.D. Top Oil/Gas Pay Elevations (DF, RKB, RT, GR, etc.) Name of Producing Formation Tubing Depth Perforations Depth Casing Shoe TUBING, CASING AND CEMENTING RECORD HOLE SIZE CASING & TUBING SIZE SACKS CEMENT DEPTH SET

V. TEST DATA AND REQU	EST FOR ALLOWABLE			
OIL WELL (Test must be after	r recovery of total volume of load oil an	d must be equal to or exceed top allow	wable for this depth or be for full 24 hours	t.)
Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pun	np, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size	
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF	

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with any that the information given above is true and co to the Dest of knowledge and belief.

Signature

Barbara A. <u>Operations Clerk</u> Printed Name Title

12/2/91 <u>(713) 953-5364</u> Date Telephone No.

OIL CONSERVATION DIVISION

DEC 5 1991 Date Approved

SUPERVISOR, DISTRICT II Title.

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

WES COMPLETION REPORT COMPLETIONS SEC 35 TWP 21S PI# 30-T-0014 08/09/96 30-015-10403-0001 21S RGE 23E **EDDY** * 1650FNL 1650FWL SEC NMEX STATE COUNTY FOOTAGE SPOT MARATHON OIL OPERATOR *** FEDERAL 'C' 35 WELL NO. LEASE NAME INDIAN BASIN 3961GR OPER ELEV API 30-015-10403-0001 LEASE NO. PERMIT OR WELL I.D. NO. 04/23/1996 05/22/1996 ROTARY VERT SPUD DATE STATUS MCVAY DRLG 4 7850 PROJ. DEPTH ****************CONTRACTOR DTD 10819 PB 10019 OTD 7850 FM/TD DEVONIAN
DRILLERS T.D. PLUG BACK TD OLD T.D. FORM T.D. LOCATION DESCRIPTION 26 MI W CARLSBAD, NM CASING/LINER DATA 7610-10115 W/ 345S LNR 4 1/2 INITIAL POTENTIAL 32/64CK 24HRS 9288- 9338 GROSS **IPF** 522 MCFD 42BW MORROW PERF PERF 9288- 9296 ACID 9288- 9338 TP 110 CP 0 9326- 9338 11125GALS GOR- DRY P/L CON NOT RPTD /RESERVOIR FIELD /PENNSYLVANIAN U GAS GTY-NOT RPTD TYPE FORMATION LTH TOP DEPTH/SUB BSE DEPTH/SUB LOG DEVONIAN 10100 -6139 SUBSEA MEASUREMENTS FROM GR PRODUCTION TEST DATA 7360~ 7476 **CISCO** PERF PERF 7360- 7476 7360- 7476 CASD

CONTINUED

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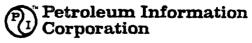


PI-WRS-GET Form No 187

WRS COMPLETION REPORT SEC 35 TWP 218 KGE 30-015-10403-0002 COMPLETIONS 21S RGE 23E PI# 30-T-0011 08/29/96 PAGE * 1650FNL 1650FWL SEC **EDDY** NMEX STATE COUNTY FOOTAGE D X DG MARATHON OIL WELL CLASS INIT FIN OPERATOR *** FEDERAL 'C' 35 WELL NO. 3961GR INDIAN BASIN OPER ELEV API 30-015-10403-0002 LEASE NO. PERMIT OR WELL I.D. NO. 06/06/1996 07/19/1996 WO-UNIT VERT GAS-WO
SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE 10019 MORROW NOT RPTD DTD 10819 PB 10019 OTD 10819 FM/TD DEVONIAN
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D. LOCATION DESCRIPTION 26 MI W CARLSBAD, NM TUBING DATA TBG 2 7/8 AT 9192 INITIAL POTENTIAL MORROW PERF 20/64CK 24HRS 9288- 9416 GROSS PERF 9288- 9338 ACFR 9288- 9416 9384- 9396 9402- 9416 9000GALS ADDTVFOAM ACID 9288- 9416 6300GALS 7 1/2% HCL ACID 9288- 9416 4725GALS 10% HCL ACHL 9288- 9415 1575GALS **ADDTVMTHL** TP 540 GOR-DRY FCP: PKR GAS GTY-NR PERFS 9288-9338 FROM PREVIOUS REENTRY DRILLING PROGRESS DETAILS

CONTINUED

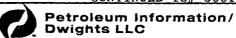
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PI-WRS-GET

WRS COMPLETION REPORT SEC 35 TWP 21S RGE 23E 30-015-10403-0003 PAGE 1 COMPLETIONS 30-7-0039 06/13/97 * 1650FNL 1650FWL SEC NMEX EDDY COUNTY D X DG MARATHON OIL WELL CLASS INIT FIN 1 FEDERAL 'C' 35 3961GR INDIAN BASIN FIELD/POOL/AREA API 30-015-10403-0003 LEASE NO. PERMIT OR WELL I.D. NO. 02/13/1997 02/20/1997 WO-UNIT VERT GAS-WO SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE 9200 PNSLVN U NOT RPTD PROJ. DEPTH PROJ. FORM CONTRACTOR DTD 10819 PB 9200 OTD 10819 FM/TD DEVONIAN LOCATION DESCRIPTION 26 MI W CARLSBAD, NM TUBING DATA TBG 2 7/8 AT 8248 INITIAL POTENTIAL 3422 MCFD IPF 1HRS PNSLVN U PERF W/ 6/FT 8350- 8364 PERF 8350- 8364 SITP 2665 @ 8350FT BHT 159F 939MCFD TP 2548 BHFP 2563 1309MCFD TP 2461 BHFP 2477 2560MCFD TP 2085 BHFP 2115 3422MCFD TP 1680 BHFP 723 4900MCFD **FPCAOF** BH 2678 GOR DRY GAS GTY .619 P/L CON NOT RPTD 1ST THRU 4TH TEST IN 60 MINS PRODUCTION TEST DATA MORROW PERF PERF 9288- 9416 BRPG @ 9200 9288- 9416 9288- 9416

CONTINUED IC# 300157041497



THE WARREST THE PROPERTY OF THE PARTY OF THE Petroleum information | 21S-23E-35- 06 | SE.NW | WELL: FEDERAL C | API: 30-015-00000 | GEO-FICHE" | NEW MEXICO NM | CONTY EDDY | EDDY | EDDY | CARD: 1 | CARD: 1 Copyright Petroleum InformationCorp 1988 - Reproduction Profibited Annual State State Street