Form 9-331
(May 1963)

N. M. O. C. C. COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER

2. NAME OF OPERATOR
John H. Trigg

3. ADDRESS OF OPERATOR
P. O. Box 520, Roswell, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1650 From North and West Lines, Section 35

5. LEASE DESIGNATION AND SERIAL NO.
New Mexico 06953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal "CJ"

9. WELL NO.
1-35

10. FIELD AND POOL, OR WILDCAT
Indian Basin

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 35, T21S, R23E.

12. COUNTY OR PARISH
Eddy

13. STATE
New Mexico

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3961.0

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) **Surface Casing**			X
(Other)	☐			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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.) *

March 10, 1964

Ran 128 feet of 13 3/8 inch O.D., 8 round, 48 Lb. Spiralweld. Set at 125 feet K.B. Cemented with 250 sacks of Incor with 2% Calcium Chloride and 1/4 Lb. Flocele per sack. Cement circulated. Plug down at 3:00 a.m.

RECEIVED
MAR 18 1964
O. C. C.
ARTESIA, OFFICE

18. I hereby certify that the foregoing is true and correct

SIGNED **C. E. Harrington** TITLE **Geologist** DATE **March 12, 1964**

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
MAR 17 1964
R. L. BEERMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

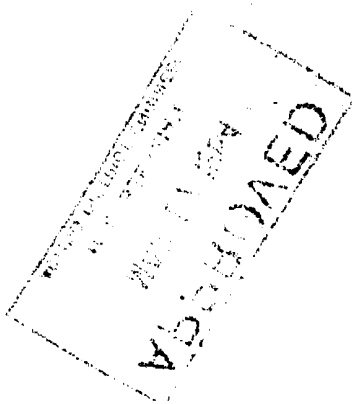
Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-685229



Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
NM06953

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Federal "C" 35 #1

2. Name of Operator
Marathon Oil Company

9. API Well No.
30-015-10403

3a. Address
P.O. Box 552, Midland, TX 79702

3b. Phone No. *(include area code)*
915-682-1626

10. Field and Pool, or Exploratory Area
Indian Basin Upper Penn Gas Pool

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
UL "F", 1650' FNL & 1650' FWL
Section 35, T-21-S, R-23-E

11. County or Parish, State
Eddy NM

JUN 2000 RECEIVED OCD - ARTESIA

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☒ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Add perfs and acidize
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed 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.)

Work commenced 5/6/00. MIRU PU. RU reverse unit & kill well. ND wellhead & NU BOPs. POOH w/tbg & sub pump. PU 4-1/2" RBP & RIH to 8009'. Set RBP, load & test to 500 psi. POOH w/tbg, RU wireline and RIH w/4" port plug guns & GR tool. Perf from 7486'-7530' w/4 jspf @ 120 degree phasing. RD wireline & RIH w/PPI packers to 7542'. RU Halliburton, pickled tbg w/500 gals. 28% HCl acid. Dropped FCV & spotted 15% CCA sour acid to PPI tool. PUH treating perfs from 7530'-7486' in 2' increments w/100 gpf for a total of 5300 gals. of 15% CCA sour acid. Max press - 3688 psi, Min press - 2600 psi, Avg press - 2918 psi. Avg. rate - 2.8 BPM. Fished valves & RD Halliburton. SITP - 125 psig, SICP 20 spig. Made 13 swab runs recovering 82 bbls fluid. Released packer & PUH to 7308' & set. Made 7 swab runs recovering 42 bbls fluid. Released packer & POOH L/D tools. PU RBP & RIH. Set RBP, load & test to 500 psi. PU & assemble sub pump. RIH, latch on to RBP and continue RIH w/tbg. & set bottom of RBP @ 7581' Made final splice and landed tbg in seaboard head. ND BOP & NU wellhead. Turned well over to production on 5/14/00.

ACCEPTED FOR RECORD
JUN 20 2000

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)* Ginny Larke
Title Engineer Technician
Date 6/2/00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Title
Date

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.
Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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.

N.M. Oil Cons. Division
311 S. 1st Str
Artesia, NM 88210-2834

Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires November 30 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
NM-06953

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Federal C 35 #1

2. Name of Operator
Marathon Oil Company

9. API Well No.
30-015-10403

3a. Address
P.O. Box 552, Midland, TX 79702

3b. Phone No. (include area code)
915-682-1626

10. Field and Pool, or Exploratory Area
Indian Basin Upper Penn Gas Pool

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
UL "F", 1650' FNL & 1650' FWL
Sec 35, T-21-S, R-23-E

11. County or Parish, State
Eddy County NM

RECEIVED
MAR 2000
OCD - ARTESIA

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☒ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other ADD PAY AND STIMULATE
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Coommpleted 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.)

3/23/00 Run pressure gradient, MIRU PU. Set XN plug @ 8246' & tested. ND wellhead and NU BOP. POOH w/tbg. Perf from 7383'-7460' w/4" guns @ 4 jspf. RIH w/7" RBP w/ball catcher & RTTS packer on 3-1/2" tbg. Set RBP @ 7600', PU & set RTTS @ 7350', load & test. RU Halliburton & acid frac on new perfs using gelled water as pad and 13,500 gals. CSA sour acid in 6 stages. Max pressure 7372 psi, avg. pressure 5352 psi, max rate 38.7 bpm, avg. rate 27 bpm. SI & RD Halliburton. Released RTTS packer & POOH L/D 3-1/2" tbg. Changed out rams to 2-7/8" & RIH w/RTTS pkr to 7292' & set. RD PU & RU swab. Made 26 runs & recovered 145 bbls water. SDFN. Made 28 run recovering 155 bbls water. RD swab & RU PU. Released RTTS packer, went down & latched onto RBP, released & started out of hole. Set RBP @ 2600', RTTS packer @ 3575', loaded and tested. ND BOP & NU wellhead. NU BOP, POOH w/ packer, RIH w/overshot & POOH & L/D RBP. RIH w/sub pump, made final splice, ND BOP & NU wellhead. RD PU & turned over to production on 4/3/00.

ACCEPTED FOR RECORD
APR 2000

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed) Ginny Larke
Title Engineer Technician
Date 4/6/00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Title
Date

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.
Office

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.

Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires November 30 2000

C-SF

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
NM 06953

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
FEDERAL C 35 #1

2. Name of Operator
Marathon Oil Company

9. API Well No.
30-015-10403

3a. Address
P.O. Box 552 Midland, TX 79702

3b. Phone No. *(include area code)*
915-682-1626

10. Field and Pool, or Exploratory Area
INDIAN BASIN UPPER PENN GAS POOL

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
UL "F" 1650' FNL & 1650' FWL
SECTION 35, T-21-S, R-23-E

11. County or Parish, State
EDDY NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other OFF LEASE STORAGE & SALES, & ALT. MSMT. METHOD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Coommpleted 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.

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)* Ginny Larke — Ginny Larke

Title Engineer Technician

Date 1/8/99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (ORIG. SGD.) ALEXIS C. SWOBODA

Title PETROLEUM ENGINEER

Date JAN [illegible] 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.

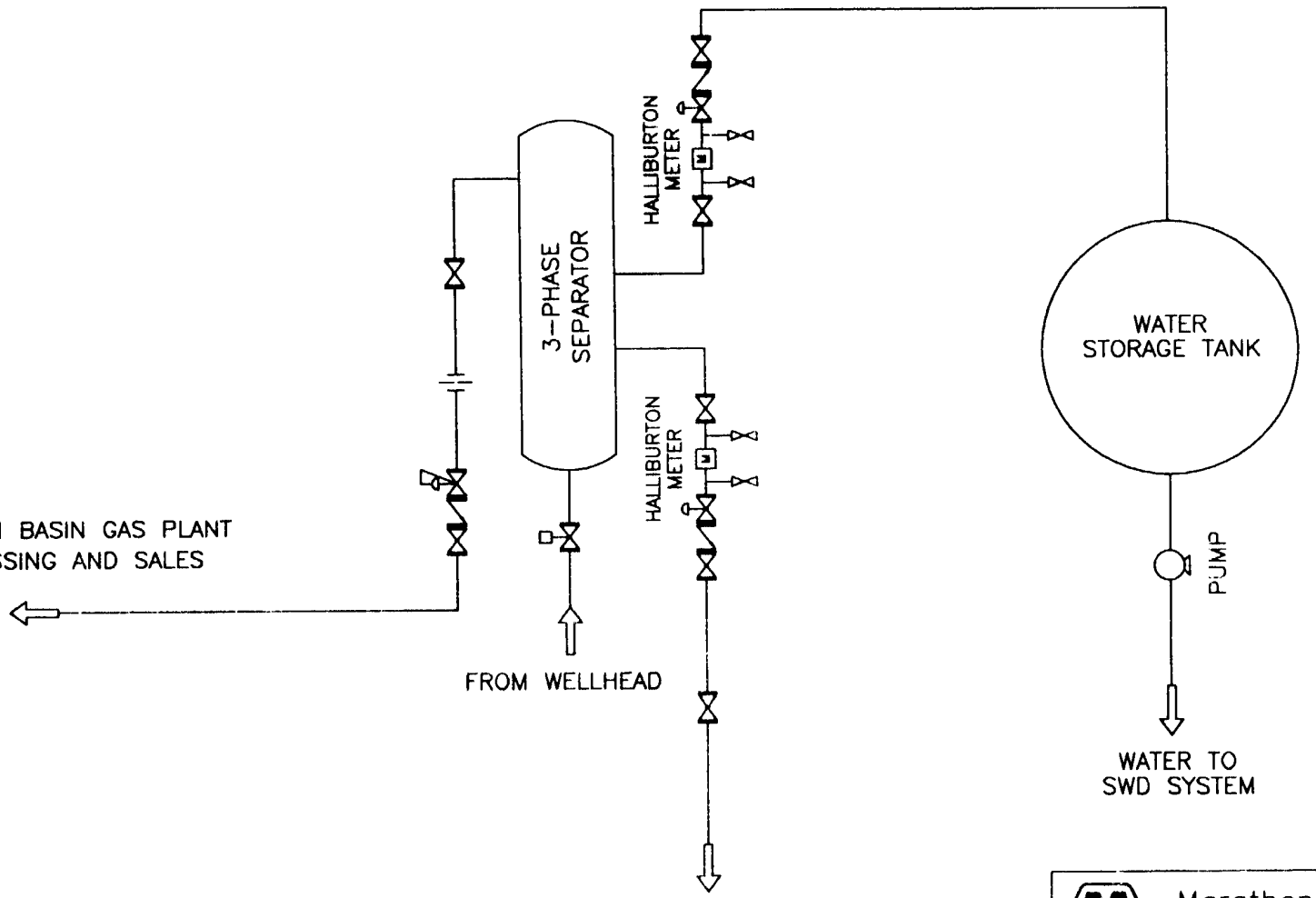
Office

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.

(Instructions on reverse)

MARATHON OIL COMPANY
FEDERAL C "35" #2
STATION 235
800' FSL & 800' FWL
SEC.35 T-21-S, R-23-E
NM 08853
EDDY CO. N.M.

THE FACILITY IS SUBJECT TO THE SITE SECURITY PLAN FOR THE INDIAN BASIN FIELD. THE PLAN IS LOCATED AT:
MARATHON OIL CO.
329 MARATHON RD.
LAKEWOOD, NM 88230

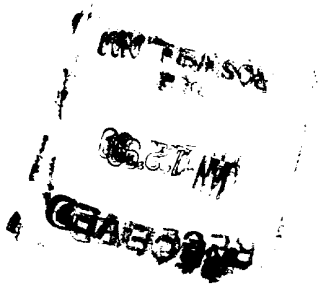


Marathon Oil Company

FACILITY DESCRIPTION

FIEDC352.DWG

INDIAN BASIN FIELD
FEDERAL C "35" #2
EDDY COUNTY, NM



Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

C/SP

5. Lease Designation and Serial No.
NM06953

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
FEDERAL C 35 #1 & #2

9. API Well No.

10. Field and Pool, or exploratory Area

11. County or Parish, State
EDDY NM

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

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
Marathon Oil Company

3. Address and Telephone No.
P.O. Box 552 Midland, TX 79702 915/687-8449

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

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other PERMIT LINED 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 drille 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.

NOV 1997
RECEIVED
OCD - ARTESIA

14. I hereby certify that the foregoing is true and correct
Signed Ginny Larke Title Engineer Technician Date 10/21/97

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
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 or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
..y, 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

☐ **AMENDED REPORT**

c15F

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
Marathon Oil Company P.O. Box 552 Midland, Texas 79702	014021 [3] Reason for Filing Code RC

[4] API Number	[5] Pool Name	[6] Pool Code
30-015-10403	Indian Basin / Upper Penn	79040
[7] Property Code	[8] Property Name	[9] Well Number
16957	Federal "C" 35	1

II. [10] Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	35	21S	23E		1650	North	1650	West	Eddy

[11] 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

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
F	Flow	2/20/97			

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] POD	[21] O/G	[22] POD ULSTR Location and Description
014035	Marathon Oil Company P. O. Box 1324 Artesia, NM 88211-1324	[illegible]	G	F, Sec. 35, 21S, 23E
014035	Marathon Oil Co 1958910 PO Box 1324 Artesia, NM 88211-1324	[illegible]	O	F Sec 35, 21S 23E

IV. Produced Water

[23] POD	[24] POD ULSTR Location and Description
[illegible]	1958950. F, Sec. 35, 21S, 23E

V. Well Completion Data

[25] Spud Date	[26] Ready Date	[27] TD	[28] PBTD	[29] Perforations
2/13/97	2/19/97	10778'	9,200'	8350-64

[30] Hole Sie	[31] Casing & Tubing Size	[32] Depth Set	[33] Sacks Cement
NO Change See Original	Completion Report		Post ID-2
			4-5-97
			comp - U/Penn
	2 7/8"	8248	P&A Morrow

VI. Well Test Data

[34] Date New Oil	[35] Gas Delivery Date	[36] Test Date	[37] Test Length	[38] Tbg. Pressure	[39] Csg. Pressure
2/20/97	2/20/97	2/20/97	24 hr	1700	Pkr
[40] Choke Size	[41] Oil	[42] Water	[43] Gas	[44] AOF	[45] Test Method
64/64	18.6	.2	3167	4,900	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: Thomas M Price

Printed name: Thomas M. Price

Title: Advanced Engineering Technician

Date: 3/23/97 Phone: 915/682-1626

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY TIM W. GUM

Title: DISTRICT II SUPERVISOR

Approval Date: MAR 27 1998

[47] If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date

Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Marathon Oil Co					Lease or Unit Name: Federal "C" 35				
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 2-20-1997		Well No.: 1		
Completion Date: 2-16-1997		Total Depth: 10115		Plug Back TD: 9200	Elevation: GL: 3961		Unit Ltr. - Sec. - TWP - Rge.: F 35 T21S,R23E		
Csg. Size: 4 1/2 Lin	Wt.:	d:	Set At:	Perforations: From: 8350	To: 8364		County: Eddy		
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At:	Perforations: From:	To:		Pool: Indian Basin/Upper Pe		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 8248			Formation: PENN		
Producing Thru: Tubing	Reservoir Temp. °F: 159@8350	Mean Annual Temp. °F:		Baro. Press - P_a: 13.2			Connection:		
L: 8350	H: 8350	Gg: .6194	% CO_2: 0	% N_2: 1	% H_2S: 0	Prover:	Meter Run: 3.068	Taps: Flange	

FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					2665		Packer		24
1.	3.068 X 2.250	116.4	5.3	93	2548	74			1
2.	3.068 X 2.250	114.6	10.2	80	2461	74			1
3.	3.068 X 2.250	112.8	37.8	58	2085	74			1
4.	3.068 X 2.250	127.4	60.8	60	1680	74			1
5.									

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F pv.	Rate of Flow Q, Mcfd
1.	28.78	26.21	129.6	.9697	1.271	1.010	.939
2.	28.78	36.10	127.8	.9813	1.271	1.010	1.309
3.	28.78	69.01	126.0	1.0019	1.271	1.012	2.560
4.	28.78	92.46	140.6	1.0000	1.271	1.012	3.422
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.19	553	1.53	.9805
2.	.19	540	1.49	.9798
3.	.19	518	1.43	.9760
4.	.21	520	1.44	.9760
5.				

Gas Liquid Hydrocarbon Ratio	N.A. Mcf/bbl.	
A.P.I. Gravity of Liquid Hydrocarbons	N.A. Deg	
Specific Gravity Separator Gas	.6194	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	.6194
Critical Pressure	670 P.S.I.A.	670 P.S.I.A.
Critical Temperature	362 R	362 R

P_c 2678.2 P_c^2 7172.9

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	6559.7	2562.7	6567.4	605.4
2.	6121.7	2476.8	6134.5	1038.3
3.	4402.4	2114.5	4471.1	2701.7
4.	2866.9	722.9	2968.4	4204.4
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.70602$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4318$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4900$

Absolute Open Flow 4900 Mcfd @ 15.025 Angle of Slope θ 56.1 Slope, n .672

Remarks:

Approved By Division

Conducted By: Bruce Elliott, Metering & Testing

Calculated By: Dan Fleeman, Metering & Testing

Checked By:

915-332-5992

GAS WELL
BACK PRESSURE CURVE

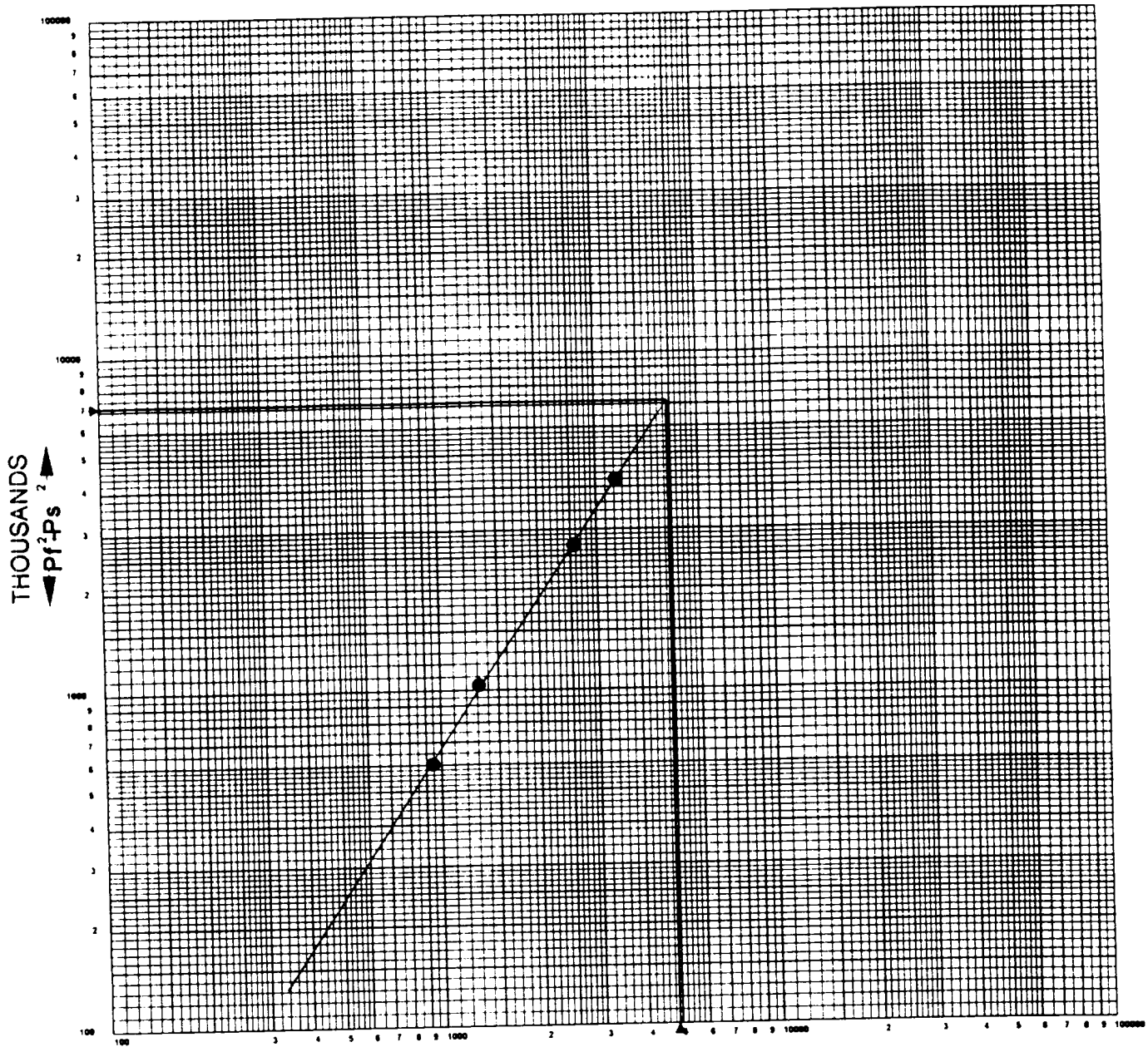
County Eddy Field _____

Operator Marathon Oil Co

Lease Federal "C" 35 Well 1

Volume 4900 MCF/24 hr

Date February 20,1997



Θ= 56.1

N= .672

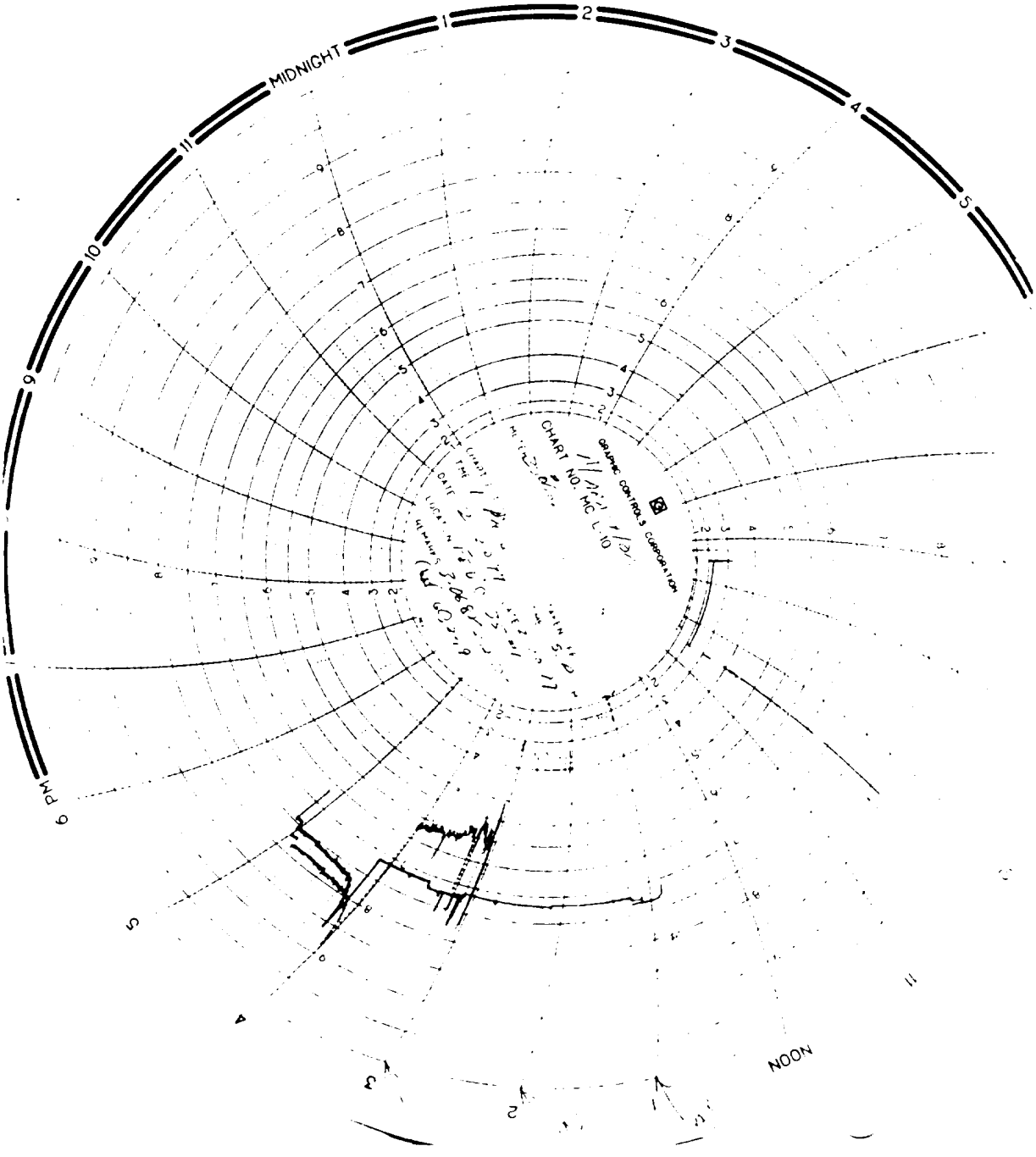
METERING & TESTING SERVICE
1410 N. Grant
Odessa, Texas 79761
915-332-5992

Donald Price
Midland Office

FIELD TEST DATA

COMPANY Marathon O. L Co. LEASE Fed. "C" 35 WELL #1
FORMATION ______ FIELD ______ COUNTY Eddy STATE N.M.
TEST DATE 2-20-97 COMPLETION DATE 2-20-97 TYPE OF TEST 4-Point
GAS GRAV ______ TUBING SIZE/WT ______ PERFS FROM ______ TO ______
SHUT IN D.W. PRESS 2665# Gage 9" Top 1" Wtr

DATE	TIME	CHOKE SIZE	TUBING PRESS.	CASING PRESS.	Temp.	BBL OIL PER HR	TOTAL OIL	WATER METER	BBL WATER PER HR	TOTAL WATER	DIFF. PRESS	STATIC PRESS	GAS RATE	GAS-OIL RATIO	COMMENTS
2/20	1 PM	8/64	2665		88°F.			85.0	0	0	0	7.2	0		2.250" plate Coef. 60.217
	1:15	8/64	2569		86°F.			85.0	0	0	2.3	7.2	998,		250# x 100" 3.068 Run
	1:30	8/64	2552		88°			85.0	0	0	2.4	7.2	1,041,		
	1:45	8/64	2549		90°			85.0	0	0	2.4	7.2	1,041,		
	2 PM	To 10/64	2548		93°			85.0	0	0	2.3	7.2	998,		
	2:15	10/64	2452		86°			85.0	0	0	3.6	7.2	1,562,		
	2:30	10/64	2446		83°			85.0	0	0	3.5	7.2	1,518,		
	2:45	10/64	2441		80°			85.1	.1	.1	3.5	7.2	1,518,		
	3 PM	To 14/64	2461		80°			85.1	0	.1	3.2	7.15	1,378,		
	3:15	14/64	2216		58°			85.3	.2	.3	5.8	7.2	2,516,		
	3:30	14/64	2141		57°			85.4	.1	.4	6.0	7.1	2,567,		
	3:45	14/64	2109		58°			85.6	.2	.6	6.1	7.1	2,609,		
	4 PM	To 18/64	2085		58°			85.7	.1	.7	6.15	7.1	2,631,		
	4:15	18/64	1765		56°			85.9	.2	.9	7.9	7.7	3,665,		
	4:30	18/64	1705		56°			86.2	.3	1.2	7.9	7.6	3,617,		
	4:45	18/64	1682		59°			86.4	.2	1.4	7.8	7.5	3,524,		
	5 PM	18/64	1680		60°			86.6	.2	1.6	7.8	7.5	3,524,		Gage: 9½" Top 1½" Wtr Top


MIDNIGHT
NOON
6 PM
GRAPHIC CONTROLS CORPORATION
CHART NO. MC L 10

Tubing	2 7/8 L-80
Tubing ID	2 441
Tubing Length	8362
Top Perf	8350
Grav (G)	0 6194
% C02	0 3852
% N2	1 0911
Bottom hole Temp	159

Gas Volume #1		**Gas Volume #2**		**Gas Volume #3**		**Gas Volume #4**	
Static	129 6	*Static*	127 8	*Static*	126 03	*Static*	140 6
Differential	5 3	*Differential*	10 2	*Differential*	37 8	*Differential*	60 8
Temperature	93	*Temperature*	80	*Temperature*	58	*Temperature*	60
Orifice Factor	28 78	*Orifice Factor*	28 78	*Orifice Factor*	28 78	*Orifice Factor*	28 78
Pcr	670	*Pcr*	670	*Pcr*	670	*Pcr*	670
Tcr	362	*Tcr*	362	*Tcr*	362	*Tcr*	362
Pm	129 6	Pm	127 8	Pm	126 03	Pm	140 6
Tm	553	Tm	540	Tm	518	Tm	520
Pr	0 19	Pr	0 19	Pr	0 19	Pr	0 21
Tr	1 53	Tr	1 49	Tr	1 43	Tr	1 44
Z	0 9805	Z	0 9798	Z	0 976	Z	0 976
Fpv	1 0099	Fpv	1 0103	Fpv	1 0122	Fpv	1 0122
Ft	0 9697	Ft	0 9813	Ft	1 0019	Ft	1 0000
Fg	1 2706	Fg	1 2706	Fg	1 2706	Fg	1 2706
Q1	939	Q2	1309	Q3	2560	Q4	3422

Bottom Hole Pressure for First Flow Rate

Fr	0 010763
[L/H]*(Fr*Qm)^2	0 000102044
T @H=0	534
T @H=8350/2	577
T @H=8350	619

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10	11	
1	H		0	4175					8350					
2	G/H		0	2586 00					5171 99					
3	37 5 G/H		0	96974 81					193949 63					
4	Pc or Pn		2561 2	2867 7	2861 7	2855 6	2855 2	2855 0	3148 8	3143 6	3138 3	3137 8	3137 6	
5	Pr		3 82	4 28	4 27	4 26	4 26	4 26	4 70	4 69	4 68	4.68	4 68	
6	T		534	577	577	577	577	577	619	619	619	619	619	
7	Tr		1 48	1 59	1 59	1 59	1 59	1 59	1 71	1 71	1 71	1 71	1 71	
8	Z		0 7606	0 8199	0 8199	0 8189	0 8189	0 8189	0 8725	0 8725	0 8725	0.8725	0 8725	
9	P/Z	4/8	3367 34	3497 67	3490 33	3487 15	3486.62	3486 43	3608 95	3602 96	3596 92	3596 38	3596 09	
10	P/TZ	9/6	6 3059	6.0618	6 0491	6 0436	6 0427	6 0423	5 8303	5 8206	5 8109	5.8100	5.8095	
11	(P/TZ)^2/1000		0 039764	0 036746	0 036592	0 036525	0 036514	0 036510	0 033992	0 033880	0 033766	0 033756	0 033750	
12	L/H(FrQm)^2		0 000102044	0 000102	0 000102	0 000102	0 000102	0 000102	0 000102	0 000102	0 000102	0 000102	0 000102	
13		11+12	0 039866206	0 036848	0 036694	0 036627	0 036616	0 036612	0 034094	0 033982	0 033868	0 033858	0 033853	
14	In	10/13	158 1761535	164 5101	164 8540	165 0035	165 0288	165 0377	171 0047	171 2872	171 5730	171 5986	171 6125	
15	M=Pn-Pn-1			306 54	300 52	294 43	293 99	293 83	293 77	288.55	283 28	282 81	282 55	282 52
16	N=In+In-1			322 6862129	329 3640917	329 8574862	330 0322171	330 0664733	336 0424481	342 2919617	342 8602556	343 171583	343 2110495	
17	MxN	15x16						96984 87814					96975 89831	
18	Sum(MxN)	Sum 17											193960 7764	

Delta P	587 7620599
Ps1	3148 96206

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		8350	4175				0				
2	G/H		5171 99	2586 00				0				
3	37 5 G/H		193949 63	96974 81				0				
4	Pc or Pn		3149 0	2866 3	2860 8	2855 3	2855 7	2562 912265	2556 579297	2550 365836	2551 114088	2551 439589
5	Pr		4 70	4 28	4 27	4 26	4 26	3 83	3 82	3 81	3 81	3 81
6	T		619	577	577	577	577	534	534	534	534	534
7	Tr		1 71	1 59	1 59	1 59	1 59	1 48	1 48	1 48	1 48	1 48
8	Z		0 8725	0 8199	0 819	0 8189	0 8189	0 7606	0 7606	0 7606	0 7606	0 7606
9	P/Z	4/8	3609 13	3495 86	3493 08	3486 76	3487.23	3369 59	3361 27	3353 10	3354 08	3354 51
10	P/TZ	9/6	5 8306	6 0587	6 0539	6 0429	6 0437	6 3101	6 2945	6 2792	6 2811	6 2819
11	(P/TZ)^2/1000											
12	L/H(FrQm)^2											
13		11+12										
14	In	10/13	171 5097	165 0525	165 1840	165 4830	165 4609	158 4761	158 8687	159 2557	159 2090	159 1887
15	M=Pn-Pn-1			282 71	288 13	293 65	293 27	292 7794884	299 1124566	305 3259178	304 5776653	304 2521647
16	N=In+In-1			336 562236	330 2365042	330 6670005	330 9439347	323 9370136	317 3448118	318 1244291	318 4647708	318 3977493
17	MxN	15x16					97056 02909					96873 20447
18	Sum(MxN)	Sum 17	193949 625				96893 59591					

Delta P	586 2209293
Pw1	2562 741131

Tubing	2 7/8 L-80
Tubing ID	2.441
Tubing Length	8362
Top Perf	8350
Grav (G)	0.6194
% CO2	0.3852
% N2	1.0911
Bottom hole Temp	159

Gas Volume #1	
Static	129.6
Differential	5.3
Temperature	93
Orifice Factor	28.78
Pcr	670
Tcr	362
Pm	129.6
Tm	553
Pr	0.19
Tr	1.53
Z	0.9805
Fpv	1.0099
Ft	0.9697
Fg	1.2706
Q1	939

Gas Volume #2	
Static	127.8
Differential	10.2
Temperature	80
Orifice Factor	28.78
Pcr	670
Tcr	362
Pm	127.8
Tm	540
Pr	0.19
Tr	1.49
Z	0.9798
Fpv	1.0103
Ft	0.9813
Fg	1.2706
Q2	1309

Gas Volume #3	
Static	126.03
Differential	37.8
Temperature	58
Orifice Factor	28.78
Pcr	670
Tcr	362
Pm	126.03
Tm	518
Pr	0.19
Tr	1.43
Z	0.976
Fpv	1.0122
Ft	1.0019
Fg	1.2706
Q3	2560

Gas Volume #4	
Static	140.6
Differential	60.8
Temperature	60
Orifice Factor	28.78
Pcr	670
Tcr	362
Pm	140.6
Tm	520
Pr	0.21
Tr	1.44
Z	0.976
Fpv	1.0122
Ft	1.0000
Fg	1.2706
Q4	3422

Bottom Hole Pressure for Second Flow Rate

Fr	0.010763
(L/H)*(Fr*Qm)^2	0.000198463
T@H=0	534
T@H=8350/2	577
T@H=8350	619
Delta P	571.3630462
Ps2	3045.563046

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10	11
1	H		0	4175					8350				
2	G/H		0	2586.00					5171.99				
3	37.5 G/H		0	96974.81					193949.63				
4	Pc or Pn		2474.2	2771.5	2766.1	2760.7	2760.1	2759.8	3045.3	3040.6	3035.9	3035.5	3035.2
5	Pr		3.69	4.14	4.13	4.12	4.12	4.12	4.55	4.54	4.53	4.53	4.53
6	T		534	577	577	577	577	577	619	619	619	619	619
7	Tr		1.48	1.59	1.59	1.59	1.59	1.59	1.71	1.71	1.71	1.71	1.71
8	Z		0.7596	0.8169	0.8169	0.8169	0.8169	0.8169	0.8686	0.8686	0.8686	0.8686	0.8686
9	P/Z	4/8	3257.24	3392.75	3386.15	3379.44	3378.76	3378.38	3506.00	3500.60	3495.14	3494.65	3494.39
10	P/TZ	9/6	6.0997	5.8800	5.8685	5.8569	5.8557	5.8551	5.6640	5.6552	5.6464	5.6456	5.6452
11	(P/TZ)^2/1000		0.037206	0.034574	0.034440	0.034303	0.034290	0.034282	0.032081	0.031982	0.031882	0.031873	0.031868
12	L/H(FrQm)^2		0.000198463	0.000198	0.000198	0.000198	0.000198	0.000198	0.000198	0.000198	0.000198	0.000198	0.000198
13		11+12	0.037404823	0.034773	0.034638	0.034502	0.034488	0.034480	0.032279	0.032180	0.032081	0.032072	0.032067
14	In	10/13	163.0725967	169.0979	169.4239	169.7562	169.7900	169.8087	175.4688	175.7365	176.0074	176.0316	176.0449
15	M=Pn-Pn-1			297.34	291.94	286.47	285.91	285.60	285.51	280.62	276.08	275.65	275.42
16	N=In+In-1			332.1705366	338.5218154	339.1800377	339.546122	339.5986661	345.2775151	351.2052694	351.7438949	352.0390784	352.0765272
17	MxN	15x16						96989.81915					96970.12013
18	Sum(MxN)	Sum 17											193959.9393

Delta P	568.7673146
Pw2	2476.795732

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		8350	4175				0				
2	G/H		5171.99	2586.00				0				
3	37.5 G/H		193949.63	96974.81				0				
4	Pc or Pn		3045.6	2770.9	2765.8	2760.8	2761.1	2476.83318	2471.089065	2465.471021	2466.149946	2466.444704
5	Pr		4.55	4.14	4.13	4.12	4.12	3.70	3.69	3.68	3.68	3.68
6	T		619	577	577	577	577	534	534	534	534	534
7	Tr		1.71	1.59	1.59	1.59	1.59	1.48	1.48	1.48	1.48	1.48
8	Z		0.8686	0.8169	0.8169	0.8159	0.8159	0.7596	0.7596	0.7596	0.7596	0.7596
9	P/Z	4/8	3506.29	3391.98	3385.74	3383.73	3384.15	3260.71	3253.15	3245.75	3246.64	3247.03
10	P/TZ	9/6	5.6644	5.8766	5.8678	5.8643	5.8651	6.1062	6.0920	6.0782	6.0799	6.0806
11	(P/TZ)^2/1000											
12	L/H(FrQm)^2											
13		11+12										
14	In	10/13	176.5399	170.1071	170.4206	170.5219	170.5005	163.7682	164.1488	164.5229	164.4776	164.4579
15	M=Pn-Pn-1			274.65	279.75	284.78	284.43	284.2982701	290.042386	295.660429	294.9815048	294.6667465
16	N=In+In-1			346.6470063	340.5276812	340.942476	341.0224021	334.2686575	327.9169935	328.6717214	329.000473	328.935524
17	MxN	15x16					96997.54602					96932.93937
18	Sum(MxN)	Sum 17	193949.625				96952.07898					

Tubing	2 7/8 L-80
Tubing ID	2 441
Tubing Length	8362
Top Perf	8350
Grav (G)	0 6194
% CO2	0 3852
% N2	1 0911
Bottom hole Temp	159

Gas Volume #1		Gas Volume #2		Gas Volume #3		Gas Volume #4	
Static	129 6	*Static*	127 8	*Static*	126 03	*Static*	140 6
Differential	5 3	*Differential*	10 2	*Differential*	37 8	*Differential*	60 8
Temperature	93	*Temperature*	80	*Temperature*	58	*Temperature*	80
Orifice Factor	28 78	*Orifice Factor*	28 78	*Orifice Factor*	28 78	*Orifice Factor*	28 78
Pcr	670	*Pcr*	670	*Pcr*	670	*Pcr*	670
Tcr	362	*Tcr*	362	*Tcr*	362	*Tcr*	362
Pm	129 6	Pm	127 8	Pm	126 03	Pm	140 6
Tm	553	Tm	540	Tm	518	Tm	520
Pr	0 19	Pr	0 19	Pr	0 19	Pr	0 21
Tr	1 53	Tr	1 49	Tr	1 43	Tr	1 44
Z	0 9805	Z	0 9798	Z	0 976	Z	0 976
Fpv	1 0099	Fpv	1 0103	Fpv	1 0122	Fpv	1 0122
Ft	0 9697	Ft	0 9813	Ft	1 0019	Ft	1 0000
Fg	1 2706	Fg	1 2706	Fg	1 2706	Fg	1 2706
Q1	939	Q2	1309	Q3	2560	Q4	3422

Bottom Hole Pressure for Third Flow Rate

		LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10	11	
Fr	0 010763	1	H		0	4175					8350					
[L/H]*(Fr*Qm)^2	0 000759043	2	G/H		0	2586 00					5171 99					
T@H=0	534	3	37 5 G/H		0	96974 81					193949 63					
T@H=8350/2	577	4	Pc or Pn		2098 2	2355 6	2352 4	2349 0	2348 7	2348 5	2598 8	2595 9	2593 0	2592 7	2592 6	
T@H=8350	619	5	Pr		3 13	3 52	3 51	3 51	3 51	3 51	3 88	3 87	3 87	3 87	3 87	
		6	T		534	577	577	577	577	577	619	619	619	619	619	
		7	Tr		1 48	1 59	1 59	1 59	1 59	1 59	1 71	1 71	1 71	1 71	1 71	
		8	Z		0 7612	0 8124	0 8124	0 8124	0 8124	0 8124	0 8586	0 8586	0 8586	0 8586	0 8586	
		9	P/Z	4/8	2756 44	2899 58	2895 57	2891 46	2891 05	2890 83	3026 75	3023 40	3020 00	3019 70	3019 54	
		10	P/TZ	9/6	5 1619	5 0253	5 0183	5 0112	5 0105	5 0101	4 8897	4 8843	4 8788	4 8784	4 8781	
		11	(P/TZ)^2/1000		0 026645	0 025253	0 025184	0 025112	0 025105	0 025101	0 023910	0 023857	0 023803	0 023798	0 023796	
		12	L/H(FrQm)^2		0 000759043	0 000759	0 000759	0 000759	0 000759	0 000759	0 000759	0 000759	0 000759	0 000759	0 000759	
		13		11+12	0 027403919	0 026012	0 025943	0 025871	0 025864	0 025860	0 024669	0 024616	0 024562	0 024557	0 024555	
		14	In	10/13	188 3623833	193 1879	193 4396	193 6984	193 7241	193 7383	198 2174	198 4229	198 6327	198 6511	198 6612	
		15	M=Pn-Pn-1			257 42	254 18	250 82	250 49	250 31	250 26	247 39	244 47	244 21	244 07	244 05
		16	N=In+In-1			381 5502977	386 6275569	387 1380265	387 4224383	387 462391	391 9557114	396 6403143	397 0556511	397 2838073	397 3122693	
Delta P	500 7404849	17	MxN	15x16						96984 81296					96971 75874	
Ps3	2598 940485	18	Sum(MxN)	Sum 17											193956 5717	

		LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
		1	H		8350	4175				0				
		2	G/H		5171 99	2586 00				0				
		3	37 5 G/H		193949 63	96974 81				0				
		4	Pc or Pn		2598 9	2361 8	2358 3	2354 8	2355 2	2111 743962	2112 667368	2113 549453	2113 44618	2113 401622
		5	Pr		3 88	3 53	3 52	3 51	3 52	3 15	3 15	3 15	3 15	3 15
		6	T		619	577	577	577	577	534	534	534	534	534
		7	Tr		1 71	1 59	1 59	1 59	1 59	1 48	1 48	1 48	1 48	1 48
		8	Z		0 8586	0 8124	0 8124	0 8124	0 8124	0 7932	0 7932	0 7932	0 7932	0 7932
		9	P/Z	4/8	3026 95	2907 23	2902 87	2898 60	2899 04	2662 31	2663 47	2664 59	2664 46	2664 40
		10	P/TZ	9/6	4 8901	5 0385	5 0310	5 0236	5 0243	4 9856	4 9878	4 9899	4 9896	4 9895
		11	(P/TZ)^2/1000											
		12	L/H(FrQm)^2											
		13		11+12										
		14	In	10/13	204 4962	198 4707	198 7691	199 0619	199 0313	200 5777	200 4901	200 4064	200 4162	200 4204
		15	M=Pn-Pn-1			237 11	240 65	244 12	243 76	243 4377135	242 5143093	241 8322224	241 7354957	241 7800535
		16	N=In+In-1			402 9668743	397 2397669	397 8310066	398 0932045	399 6089952	401 0677818	400 8964391	400 8225577	400 836576
Delta P	484 4535325	17	MxN	15x16					97038 72555					96914 2888
Pw3	2114 486952	18	Sum(MxN)	Sum 17	193949 625				96910 89945					

Tubing	2 7/8 L-80
Tubing ID	2 441
Tubing Length	8362
Top Perf	8350
Grav (G)	0 6194
% C02	0 3852
% N2	1 0911
Bottom hole Temp	159

Gas Volume #1		Gas Volume #2		Gas Volume #3		Gas Volume #4	
Static	129 6	*Static*	127 8	*Static*	126 03	*Static*	140 6
Differential	5 3	*Differential*	10 2	*Differential*	37 8	*Differential*	60 8
Temperature	93	*Temperature*	80	*Temperature*	58	*Temperature*	60
Orifice Factor	28 78	*Orifice Factor*	28 78	*Orifice Factor*	28 78	*Orifice Factor*	28 78
Pcr	670	*Pcr*	670	*Pcr*	670	*Pcr*	670
Tcr	362	*Tcr*	362	*Tcr*	362	*Tcr*	362
Pm	129 6	Pm	127 8	Pm	126 03	Pm	140 6
Tm	553	Tm	540	Tm	518	Tm	520
Pr	0 19	Pr	0 19	Pr	0 19	Pr	0 21
Tr	1 53	Tr	1 49	Tr	1 43	Tr	1 44
Z	0 9805	Z	0 9798	Z	0 976	Z	0 976
Fpv	1 0099	Fpv	1 0103	Fpv	1 0122	Fpv	1 0122
Ft	0 9697	Ft	0 9813	Ft	1 0019	Ft	1 0000
Fg	1 2706	Fg	1 2706	Fg	1 2706	Fg	1 2706
Q1	939	Q2	1309	Q3	2560	Q4	3422

Bottom Hole Pressure for Fourth Flow Rate

		LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10	11	
Fr	0 010763	1	H		0	4175					8350					
(L/H)*(Fr*Qm)^2	0 001356801	2	G/H		0	2588 00					5171 99					
T@H=0	534	3	37 5 G/H		0	96974 81					193949 63					
T@H=8350/2	577	4	Pc or Pn		1693 2	1906 0	1905 0	1903 9	1903 8	1903 7	2114 3	2113 0	2111 7	2111 6	2111 6	
T@H=8350	619	5	Pr		2 53	2 84	2 84	2 84	2 84	2 84	3 16	3 15	3 15	3 15	3 15	
		6	T		534	577	577	577	577	577	619	619	619	619	619	
		7	Tr		1 48	1 59	1 59	1 59	1 59	1 59	1 71	1 71	1 71	1 71	1 71	
		8	Z		0 782	0 8242	0 8242	0 8242	0 8242	0 8242	0 8653	0 8653	0 8653	0 8653	0 8653	
		9	P/Z	4/8	2165 22	2312 58	2311 31	2310 00	2309 88	2309 81	2443 40	2441 96	2440 48	2440 36	2440 30	
		10	P/TZ	9/6	4 0547	4 0079	4 0057	4 0035	4 0033	4 0031	3 9473	3 9450	3 9426	3 9424	3 9423	
		11	(P/TZ)^2/1000		0 016441	0 016064	0 016046	0 016028	0 016026	0 016025	0 015581	0 015563	0 015544	0 015543	0 015542	
		12	L/H(FrQm)^2		0 001356801	0 001357	0 001357	0 001357	0 001357	0 001357	0 001357	0 001357	0 001357	0 001357	0 001357	
		13		11+12	0 017797508	0 017420	0 017403	0 017385	0 017383	0 017382	0 016938	0 016920	0 016901	0 016900	0 016899	
		14	In	10/13	227 8248247	230 0721	230 1785	230 2890	230 2992	230 3048	233 0424	233 1578	233 2765	233 2862	233 2915	
		15	M=Pn-Pn-1			212 83	211 78	210 70	210 60	210 55	210 53	209 28	208 00	207 90	207 84	207 84
		16	N=In+In-1			457 8968793	460 2505923	460 4675822	460 5882243	460 6039912	463 3471961	466 2001961	466 4343332	466 5627265	466 5777147	
Delta P	420 9172384	17	MxN	15x16						96978 13215					96974 60604	
Ps4	2114 117238	18	Sum(MxN)	Sum 17											193952 7402	

		LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
		1	H		8350	4175				0				
		2	G/H		5171 99	2588 00				0				
		3	37 5 G/H		193949 63	96974 81				0				
		4	Pc or Pn		2114 1	1922 7	1920 4	1918 2	1918 4	1722 948753	1720 481016	1718 108914	1718 467288	1718 661038
		5	Pr		3 16	2 87	2 87	2 86	2 86	2 57	2 57	2 56	2 56	2 57
		6	T		619	577	577	577	577	534	534	534	534	534
		7	Tr		1 71	1 59	1 59	1 59	1 59	1 48	1 48	1 48	1 48	1 48
		8	Z		0 8653	0 8241	0 8241	0 8242	0 8242	0 78	0 78	0 7806	0 7806	0 7806
		9	P/Z	4/8	2443 22	2333 13	2330 33	2327 32	2327 61	2208 91	2205 74	2201 01	2201 47	2201 72
		10	P/TZ	9/6	3 9470	4 0436	4 0387	4 0335	4 0340	4 1385	4 1306	4 1217	4 1226	4 1231
		11	(P/TZ)^2/1000											
		12	L/H(FrQm)^2											
		13		11+12										
		14	In	10/13	253 3543	247 3069	247 6046	247 9251	247 8935	241 7486	242 0951	242 6158	242 5652	242 5379
		15	M=Pn-Pn-1			191 38	193 69	195 94	195 70	195 4711903	197 9369278	200 3090294	199 9506557	199 7569053
		16	N=In+In-1			500 6611839	494 9114526	495 5296977	495 8188578	489 6421521	483 8437064	484 7109045	485 1810407	485 1030998
Delta P	391 1677673	17	MxN	15x16					97031 38179					96902 69397
Pwf	1722 949471	18	Sum(MxN)	Sum 17	193949 625				96918 26321					

Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

c/s F

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED
APR 02 1997
OIL CON. DIV.

5. LEASE DESIGNATION AND SERIAL NO.: NM 06953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☒ DIFF. RESVR. ☒ Other

8. FARM OR LEASE NAME, WELL NO.: Federal 'C' "35" #1

2. NAME OF OPERATOR: Marathon Oil Company

9. API WELL NO.: 30-015-10403

3. ADDRESS AND TELEPHONE NO.: P.O. Box 552, Midland, TX 79702 915/682-1626

10. FIELD AND POOL, OR WILDCAT: Indian Basin, U. Penn

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: UL "F" 1650' FNL & 1650' FWL
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec 35, T21S, R23E

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH: Eddy Co.,

13. STATE: N.M.

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2/13/97		2/19/97	GL:3961 KB:3974	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
10,778	9,200		→		

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*: Indian Basin Upper Penn

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN: None

27. WAS WELL CORED

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
No Change	See	Original	Completion	Report	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	8248	8248

31. PERFORATION RECORD (*Interval, size and number*): 8,350-64 6 SPF

MAR 31 1997

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
None	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping - size and type of pump*)	WELL STATUS (*Producing or shut-in*)
2/19/97	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO
2/20/97	24	64/64		18.6	3167	.2	170269

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)
1700	Pkr		18.6	3167	.2	48

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Sold

TEST WITNESSED BY: John Connaway

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED Thomas Pucl TITLE Adv. Eng. Tech. DATE 3/23/97

*(See Instructions and Spaces for Additional Data on Reverse Side)

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

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

RECEIVED
APR 02 1997
OIL CON. DIV.
DIST. 2

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: NM 06953

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA, Agreement Designation:

1. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other

8. Well Name and No.: Federal "C" "35" #1

2. Name of Operator: Marathon Oil Company

9. API Well No.: 30-015-10403

3. Address and Telephone No.: P.O. Box 552, Midland, TX 79702 915/682/1626

10. Field and Pool, or exploratory Area: Indian Basin, U. Penn

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 1650' FNL & 1650' FWL, Sec. 35, T-21-S, R-23-E

11. County or Parish, State: Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[✓] Subsequent Report	[X] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other Recopmplete to Penn	[ ] 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.)*

Marathon Oil Co. recently plugged back and recompleted this well as per the work summarized below.
2/13/97: MIRU PU. ND tree. NU BOP. POOH with tbg and pkr. Set CIBP @ 9250'. Dump bailed 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. Turned well into test facility. RDMO PU 2/20/97.

ACCEPTED FOR RECORD
MAR 31 1997
acs

14. I hereby certify that the foregoing is true and correct
Signed: Thomas M. Price Title: Adv. Eng. Tech. Date: 3/23/97

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
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 or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

Form 3160-3
(July 1992)

N.M. Oil Cons. Division

SUBMIT IN TRIPL. (Other instructions on reverse side)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: NM 06953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WORK: DRILL ☐ DEEPEN ☐ x Plug back

b. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ OTHER — SINGLE ZONE ☒ MULTIPLE ZONE ☐

8. FARM OR LEASE NAME, WELL NO.: Federal C 35 1

2. NAME OF OPERATOR: Marathon Oil Company

RECEIVED
MAR 31 1997
OIL CON. DIV.
DIST. 2

9. API WELL NO.: 30-015-10403

3. ADDRESS AND TELEPHONE NO.: P.O. Box 552, Midland, TX 79702 (915)682-1626

10. FIELD AND POOL, OR WILDCAT: Indian Basin, U. Penn

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: UL "F", 1650' ~~FSL~~ FNL & 1650' FWL
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 35, T21S, R23E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

12. COUNTY OR PARISH: Eddy Co., 13. STATE: N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
3630	640	640
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
	Plug back to 9200	Work over unit

21. ELEVATIONS (Show whether DF,RT, GR, etc.): GL:3,961 KB:3,974

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
No Change	See Original	Completion	Report	

Marathon Oil Company intends to plugback and recomplete this well to the Upper Penn as per the procedure outlined below.

MIRU PU. Kill well. NU and test BOP. Release Pkr and POOH with tubing and packer. Using wireline set CIBP @ 9,250'. Dump bail 50' cement on top of plug for PBTD +- 9,200'. Pick up Vann gunn tubing conveyed guns and start in hole. Set packer @ +- 8,250'. ND BOP. NU tree. Drop bar to fire guns and perf 8,350'-8,362' with 6 JSPF. Turn well to test. Stimulate as directed by test results. RDMO PU. Turn well into production.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED Thomas m Price TITLE Advanced Engineering Tech DATE 3/10/97

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval 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.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY (ORIG. SGD.) ALEXIS C. SWOBODA TITLE PETROLEUM ENGINEER DATE MAR 26 1997

*See Instructions On Reverse Side

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

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO 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-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

[X] **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
3001510403	79040	Indian Basin Upper Penn

4 Property Code	5 Property Name	6 Well Number
16957	Federal C 35	1

7 OGRID No.	8 Operator Name	9 Elevation
014021	Marathon Oil Company	GL: 3961

10 Surface Location

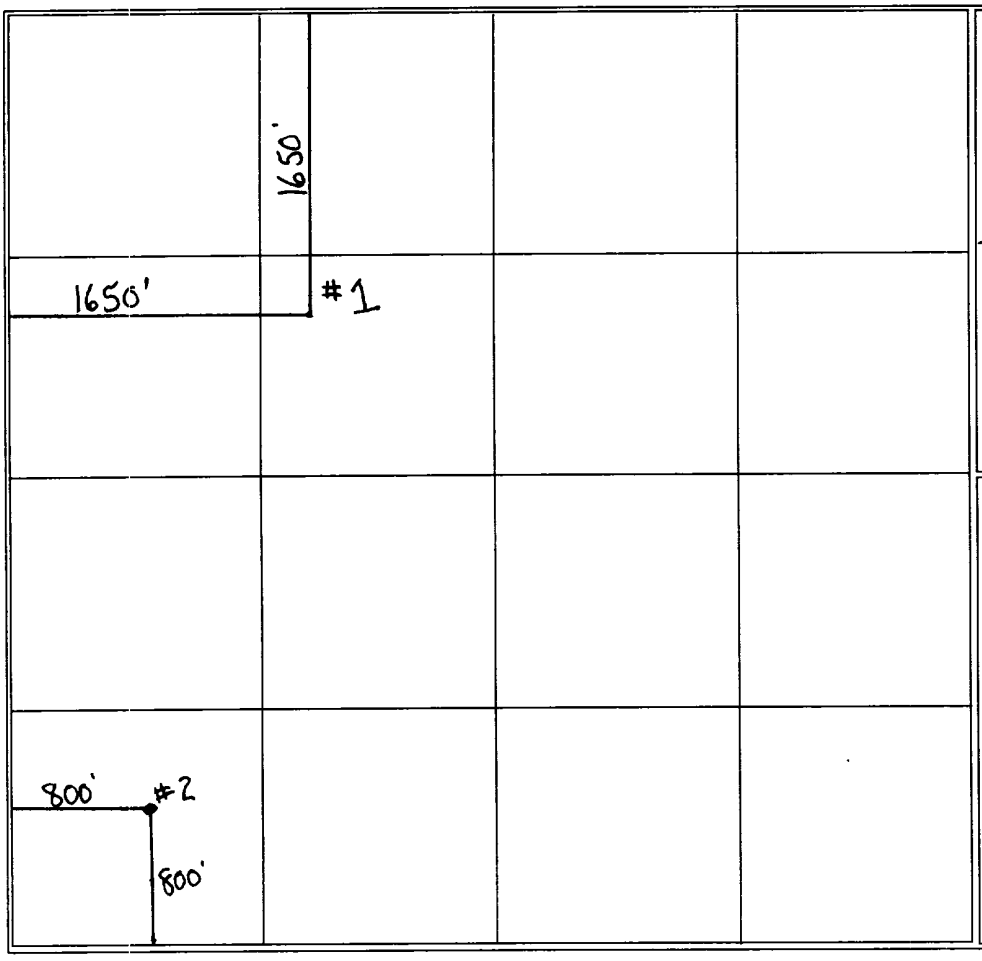
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	35	21S	23E		1650	North	1650	West	Eddy

11 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

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
640	Y		

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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Thomas M Price
Signature
Thomas M. Price
Printed Name
Advanced Eng. Tech.
Title
3/21/97
Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

Signature and Seal of Professional Surveyer:

Certificate Number

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO 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

☐ **AMENDED REPORT**

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
Marathon Oil Company P.O. Box 552 Midland, Texas 79702	014021
	[3] Reason for Filing Code: RC

[4] API Number	[5] Pool Name	[6] Pool Code
30-015-10403	Indian Basin Morrow	78960
[7] Property Code	[8] Property Name	[9] Well Number
16957	Federal "C" 35	1

II. [10] Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	35	21S	23E		1650	North	1650	West	Eddy

[11] 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

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
F	Flow	5-15-96			

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] POD	[21] O/G	[22] POD ULSTR Location and Description
014035	Marathon Oil Company P. O. Box 1324 Artesia, NM 88211-1324	1958930 ~~28677~~	G	F, Sec. 35, 21S, 23E

RECEIVED
JUL 30 1996
OIL CONS. DIV.

Post FD-2
8-16-96
comp Morr

IV. Produced Water

[23] POD	[24] POD ULSTR Location and Description
1958950 ~~28677~~	F, Sec. 35, 21S, 23E

V. Well Completion Data

[25] Spud Date	[26] Ready Date	[27] TD	[28] PBTD	[29] Perforations
4-23-96	5-9-96	10778'	10019'	9288' - 9416'

[30] Hole Sie	[31] Casing & Tubing Size	[32] Depth Set	[33] Sacks Cement
	4 1/2" Liner	7610' - 10115'	345 sx
	2 7/8"	9192'	-

VI. Well Test Data

[34] Date New Oil	[35] Gas Delivery Date	[36] Test Date	[37] Test Length	[38] Tbg. Pressure	[39] Csg. Pressure
	5-15-96	7-18-96	24 hr	540	pkr
[40] Choke Size	[41] Oil	[42] Water	[43] Gas	[44] AOF	[45] 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: Thomas M Price
Printed name: Thomas M. Price
Title: Advanced Engineering Technician
Date: 7/24/96 Phone: 915/682-1626

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY TIM W. GUM
Title: DISTRICT II SUPERVISOR
Approval Date: JUL 31 1996

[47] If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date

N.M. Oil Cons. Division
811 S. 1st Street
Artesia, NM 88210-2834

Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

RECEIVED
JUL 30 12 36 PM '96
CARLSBAD AREA HEADQUARTERS

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: Marathon Oil Company

3. ADDRESS AND TELEPHONE NO.: P.O. Box 552, Midland, TX 79702 915/682-1626

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements)**
At surface: UL "F"1650' FNL & 1650' FWL
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: NM-06953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME, WELL NO.: Federal "C" 35 1

9. API WELL NO.: 30-015-10403

10. FIELD AND POOL, OR WILDCAT: Indian Basin/Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 35, 21S, 23E

14. PERMIT NO. / DATE ISSUED: AUG 05 1995

12. COUNTY OR PARISH: Eddy

13. STATE: NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
4-23-96	5-9-96	5-22-96	GL: 3961 KB: 3974	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
10,778'	10,019'		→	ALL	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*: 9288' - 9338' Morrow

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: HAL/NET/SONIC/BHC

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
	See	Original	Comp	Report	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4 1/2"	7,610'	10,115'	345	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	9192'	9192'

31. PERFORATION RECORD (*Interval, size and number*)
9288'-96', 9326'-38', 6 JSPF
9384'-96', 9402'-16', 8 JSPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9288'-9388'	3500 gal 7 1/2% HCl
9288'-9388'	2825 gal 10% HCl
9288-9416	32K GAL FOAM, 45K # SAND

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping - size and type of pump*)	WELL STATUS (*Producing or shut-in*)
5-15-96	Flowing	Prod

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO
7-19-96	24	20/64		0	1089	65	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)
540	pkr	→	0	1089	65	

ACCEPTED FOR RECORD

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Sold

TEST WITNESSED BY: Pat Hedderman

35. LIST OF ATTACHMENTS: Logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Thomas M Price TITLE Advanced Engineering Tech. DATE 7/24/96

*(See Instructions and Spaces for Additional Data on Reverse Side)

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Morrow Sand	9143	9437	Sand, shale, lime - gas

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Morrow	8985'	
Barnett	9438'	
Mississippian	9788'	
Woodford	10,040'	
Devonian	10,090'	

U.S. GOVERNMENT PRINTING OFFICE: 1992-774-671

WELL NAME AND NUMBER Federal C-35 #1

LOCATION Sec. 35, T21S, R24E, Eddy County, New Mexico
(Give Unit, Section, Township and Range)

OPERATOR Marathon Oil Company

DRILLING CONTRACTOR McVay Drilling Company

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
¼ 8347		
¼ 8847		
3/4 9335		
1 3/4 9430		
2¼ 9935		
1½ 10468		
1 3/4 10778		

Drilling Contractor: McVay Drilling Company
By: [signature]

Subscribed and sworn to before me this 6th **day of** May, **1996**

[signature]
Notary Public

My Commission Expires: 8-16-97 **Lea County New Mexico**

N.M. Oil Cor Division
811 S. 1st Street
Artesia, NM 88210-2834

c/SP

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE

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OIL CON. DIV.
DIST. 2

5. Lease Designation and Serial No. NM06953
6. If Indian, Allottee or Tribe Name
7. If Unit or CA, Agreement Designation
8. Well Name and No. Federal "C" 35 1
9. API Well No. 30-015-10403
10. Field and Pool, or exploratory Area Indian Basin/Morrow
11. County or Parish, State Eddy Co. NM

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Marathon Oil Company

3. Address and Telephone No.
P.O. Box 552, Midland, TX 79702 915-682-1626

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
UL F, 1650' FNL & 1650' FWL
Sec. 35, T-21-S, R-23-E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Add Perfs & Stimulate	☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

RECEIVED
JUL 30 1996
CARLSBAD AREA

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.)*

6-06-96: Using thru tbg guns on wireline, perforated 9384'-96', 9402'-16' w/8 JSPF.
6-12-96: Acidized 9288'-9416' w/9000 gallons 30% foamed acid containing 6300 gallons 7 1/2% HCL/Mech acid, 4725 gal 10% HCl & 1575 gal methenol. Used 300 ball sealers. Flowed well back to test tank. Put into line.
6-29-96: MIRU PU. NU BOP. POOH w/prod tbg & pkr.
6-30-96: Started fishing Van guns. Recovered guns on 7-1-96.
7-02-96: NU 6" 5000# BOP. Installed 3 1/2" treating string w/pkr @ 9192'.
7-03-96: Frac'd 9288'- 9416' w/32,000 gallons, 52 quality foam & 45,000# sand. Started blowing down to frac tank.
7-04-96: Put well to test.
7-10-96: Set tbg plug, lost wire line tools. Started RU Cudd pressure control.
7-12-96: Washed down to 9196' w/coiled tbg. Fished wireline tools.
7-13-96: Fished for tbg plug.
7-14-96: C/O w/coiled tbg.
7-15-96: POOH w/tbg & pkr. Started in hole with 2 7/8" prod tbg.
7-16-96: Set pkr @ 9166'. Loaded backside w/2% KCl chemically inhibited wtr. Tested backside to 500#. ND BOP. NU tree. Kicked well off to test. RDMO. PU.
e

14. I hereby certify that the foregoing is true and correct

Signed *Thomas M Price* Title Advanced Engineering Tech. Date 7/24/96

(This space for Federal or State office use)

Approved by ____ Title ____ Date ____
Conditions of approval, if any:

ACCEPTED FOR RECORD
David R. Glass
JUL 31 1996
BLM

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.

* See Instruction on Reverse Side

OIL CONSERVATION DIV
811 S. 1st ST
ARTESIA, NM 88210-2834

c/sf

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
NM 06953

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

8. Well Name and No.
Federal 'C' "35" #1

2. Name of Operator
Marathon Oil Company

9. API Well No.
30-015-10403

3. Address and Telephone No.
P.O. Box 552, Midland, TX 79702

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OIL CON. DIV.
DIST. 2

10. Field and Pool, or exploratory Area
Indian Basin, U. Penn

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1650' FNL & 1650' FWL
Sec. 35, T-21-S, R-23-E

11. County or Parish, State
Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☒ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Deepen to Devonian	☐ 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.)*

See attached for detail

ACCEPTED FOR RECORD
JUN 19 1996
CARLSBAD, N.M.

BUREAU OF LAND MANAGEMENT
RECEIVED
MAY 31 1996
DIST. 6 N.M.
Carlsbad, New Mexico

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Drlg. Supt. Date 5/30/96

(This space for Federal or State office use)
Approved by ______ Title ______ Date ______
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 or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

Mid-C. inent Region
Production United States

Marathon Oil Company

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

dsf

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: NM-06953

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA, Agreement Designation:

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.: Federal C 1

2. Name of Operator: Marathon Oil Company

9. API Well No.: 30-015-10403

3. Address and Telephone No.: P.O. Box 552, Midland, TX 79702 915/682/1626

10. Field and Pool, or exploratory Area: Indian Basin Upper Penn

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
UL "F", 1650' FNL & 1650' FWL
Sec 35, T-21-S, R-23-E

11. County or Parish, State: Eddy Co., NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☒ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other _____	☐ 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.)*

This well was tested for mechanical integrity on 1/24/96 and failed. Marathon intends to initiate work to repair the leak by 2/22/96. The casing leak will be isolated using a packer and RBP. The repair procedure will depend on the location of the leak. If the leak is high enough a joint may be backed of and replace. Otherwise the leak will cement squeezed. Upon repair of the leak the casing will be tested again for mechanical integrity.

RECEIVED
APR 01 1996
OIL CON. DIV.
DIST. 2

RECEIVED
96 FEB 5 9 16 AM
CARLSBAD, NEW MEXICO

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Advanced Engineering Tech. Date 2/2/96

(This space for Federal or State office use)
Approved by (ORIG. SGD.) JOE G. LARA Title PETROLEUM ENGINEER Date 3/21/96
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 or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

C/SF

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
~~NM06353~~ NM-06953

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
INDIAN BASIN

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

8. Well Name and No.
FEDERAL "C" 1

2. Name of Operator
Marathon Oil Company

9. API Well No.
30-015-10403

3. Address and Telephone No.
P.O. Box 552, Midland, TX 79702 915/682-1626

10. Field and Pool, or exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
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, REPORT, OR OTHER DATA

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 Abandonment Notice	☐ Altering Casing	☒ Conversion to Injection
	☒ Other DEEPEN	☐ 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.

RECEIVED
FEB 2 1996
OIL CON. DIV.
DIST. 2

...approval
...by State

14. I hereby certify that the foregoing is true and correct
Signed W.J. ... FOR DPN Title DRILLING SUPERINTENDENT Date 01/05/96

(This space for Federal or State office use)
Approved by Orig. Signed by Adam Salameh Title Petroleum Engineer Date 1/31/96
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 or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 3160-3
(July 1992)

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.
~~NM 06353~~ NM 06953 B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL ☐ DEEPEN ☒

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☐ OTHER X SINGLE ZONE ☐ MULTIPLE ZONE ☐

7. UNIT AGREEMENT NAME
INDIAN BASIN UNIT

8. FARM OR LEASE NAME, WELL NO.
IBU "C" 1

2. NAME OF OPERATOR
Marathon Oil Company

9. API WELL NO.
30-015-10403

3. ADDRESS AND TELEPHONE NO.
P.O. Box 552, Midland, TX 79702 915/682-1626

10. FIELD AND POOL, OR WILDCAT
SEE BELOW

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
1650' FNL & 1650' FWL
At proposed prod. zone
1650' FNL & 1650' FWL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC 35,T-21-S,R-23-E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
10 MILES WEST OF LAKEWOOD, NM

12. COUNTY OR PARISH: EDDY
13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
19470'	4160	NONE-SWD
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
SEE BELOW	11000'	ROTARY

21. ELEVATIONS (Show whether DF,RT, GR, etc.)
GL 3961 KB 3974

22. APPROX. DATE WORK WILL START*
ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48	125'	250 SX CIRC
12 1/4"	9 5/8"	36	3340'	1630 SX CIRC
8 3/4"	7"	23,26	7850	200 SX
6 1/8"	4 1/2"	11,35	10000'	300 SX TOC @ 7250'

3 3/8" – OPEN HOLE TO 11,000'

WELL IS A PROPOSED SWD CONVERSION

*CSG IN PLACE

RECEIVED
FEB 2 1996
OIL CON. DIV.
DIST. 2

API# 30-015-10403

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED W. J. Duncan FOR OPN TITLE DRILLING SUPERINTENDENT DATE 01/18/96

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval 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.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

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

Thirteen Point Surface Use Plan
MARATHON OIL COMPANY

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

1. Existing Roads: 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. Planned Access Road: 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. Location of Existing Wells: See Vicinity Lease Map.

4. Location of Existing and Proposed Production Facilities within a one-mile radius:

   a. Existing: There are 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. New Facilities: 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' x 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. Ancillary Facilities: 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

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.

1/8-96
Date

W. J. Quinn FOR DPN
D. P. Nordt

DRILLING PROGRAM
MARATHON OIL COMPANY

Federal "C" #1

1. Estimated KB Elevation: 3974'

FORMATION	TOP MEASURED	TOP SUBSEA	BASE MEASURED	BASE SUBSEA	FLUID CONTENT
Morrow	9050'	-5076'	9482'	-5508'	water
Barnett	9482'	-5508'	9736'	-5762'	water
Mississipian	9736'	-5762'	10126'	-6152'	
Woodford	10126'	-6152'	10193'	-6214	
Devonian	10193'	-6219	11176'	-7202	

FORMATION	EST SBHP PSIG	SBHP PPG EMW	EST SBHT DEG f	H2S PPM	SIGNIFICANCE (obj, marker, etc.)
Morrow	3656	9.4		500	marker
Barnett	3795	9.4			marker
Mississipian	3910	9.4			marker
Woodford	4072	9.4			
Devonian	3095	8.3			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. **Pressure Control Equipment**:

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, H_2S 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

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 LENGTH	HOLE SIZE	CSG SIZE	WT. PPF	GRADE	THREADS COUPLINGS	NEW USED
7250'	10000'	2750'	6.125"	4.5"	11.35	L-80	FL-45	New
10000'	11000'	1000'	3.875	Open Hole				

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 DEPTH	TOC	HOLE SIZE	% EXCESS	YIELD	DENSITY	QTY SX
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

5. Mud Program:

---DEPTH--- FROM	TO	MUD TYPE	WEIGHT (PPG)	VIS	WL CC	ADDITIVES	VISUAL MONTR.
7850'	*10000'*	*Cut Brine*	*9.4*	*32-36*	*<20*	*Salt Gel, Starch, Caustic*	*Steel Pits*
10000'	*11000'*	*Freshwater*	*8.4*	*28-30*	*N/C*	*Gel*	

Sufficient quantities of additives will be on location to maintain above mud properties for any anticipated well conditions.

6. Logging, Testing & Coring Programs:

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

7. Abnormal Pressures, Temperatures or Potential Hazards:

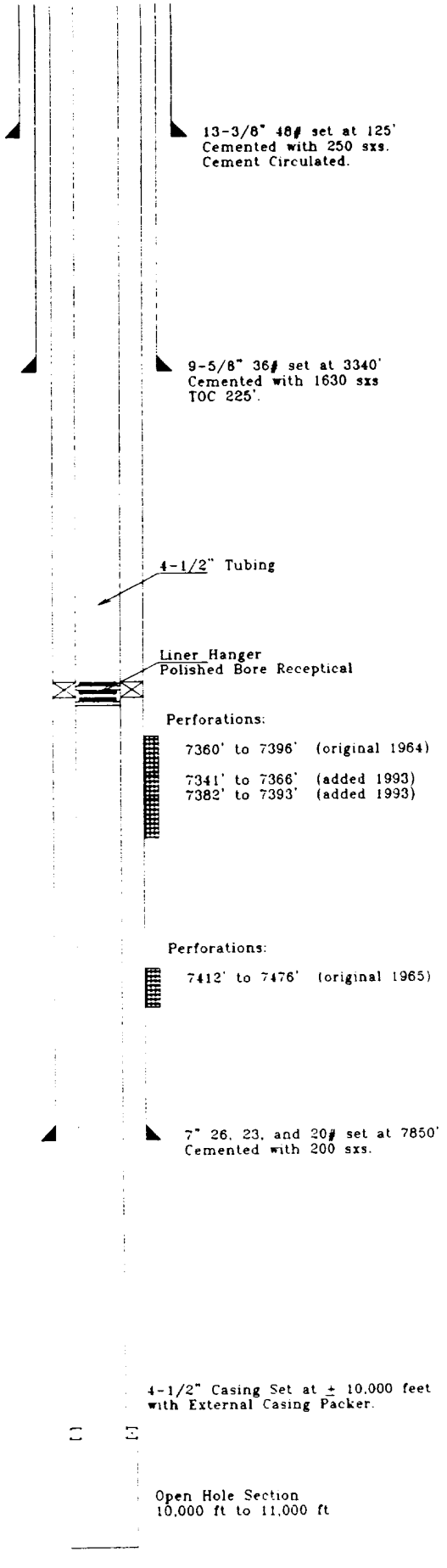
None anticipated. Possible H_2S in Cisco & Upper penn. See H_2S Drilling Operations Plan.

8. Other Information:

Anticipated Starting Date: As soon as possible.

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

PROPOSED SWD CONVERSION



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.

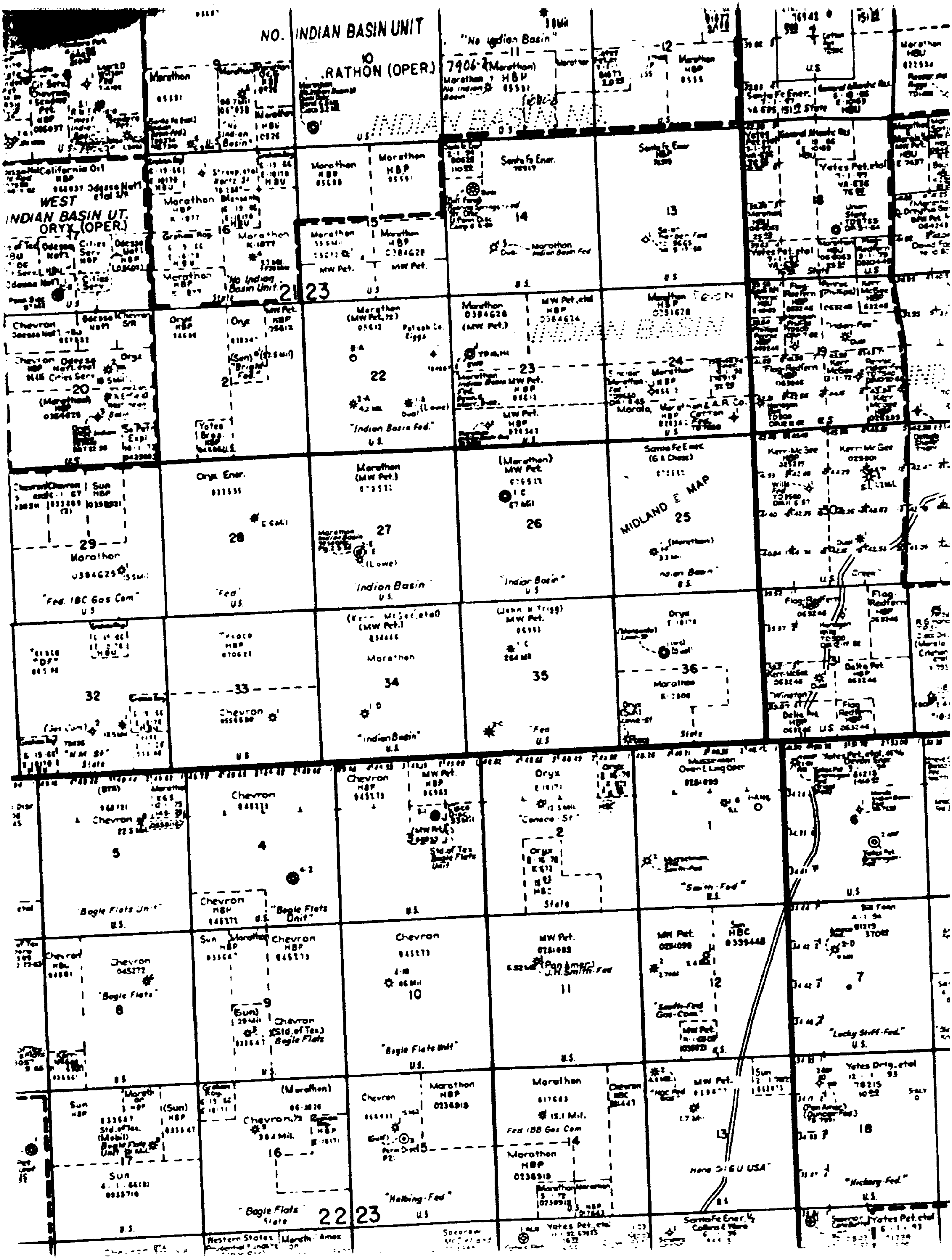
P R O P O S E D

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

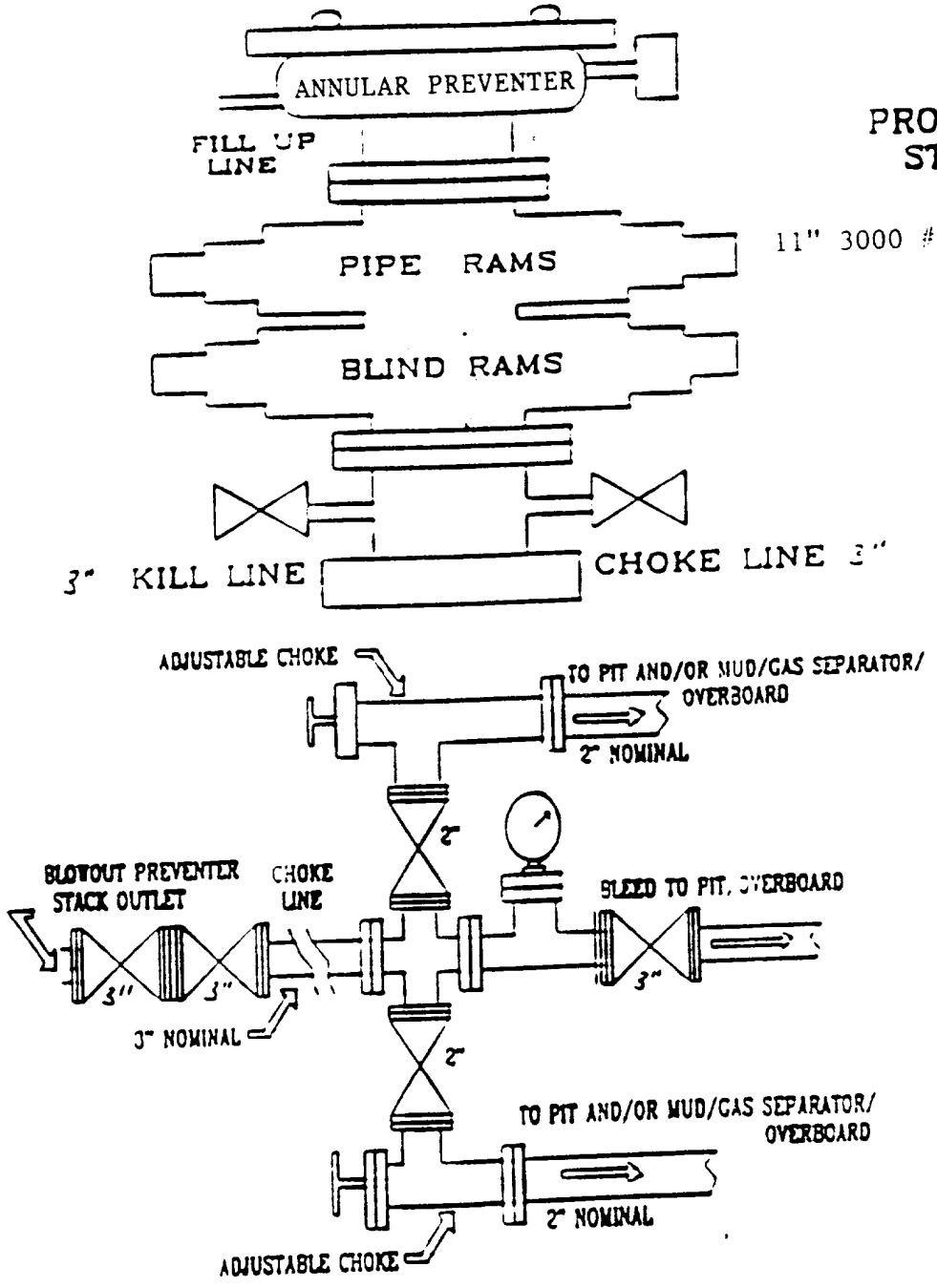
INJECTION INTERVAL
Open Hole 10,000 ft to 11,00 ft
Hole Size: 6-1/8"

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

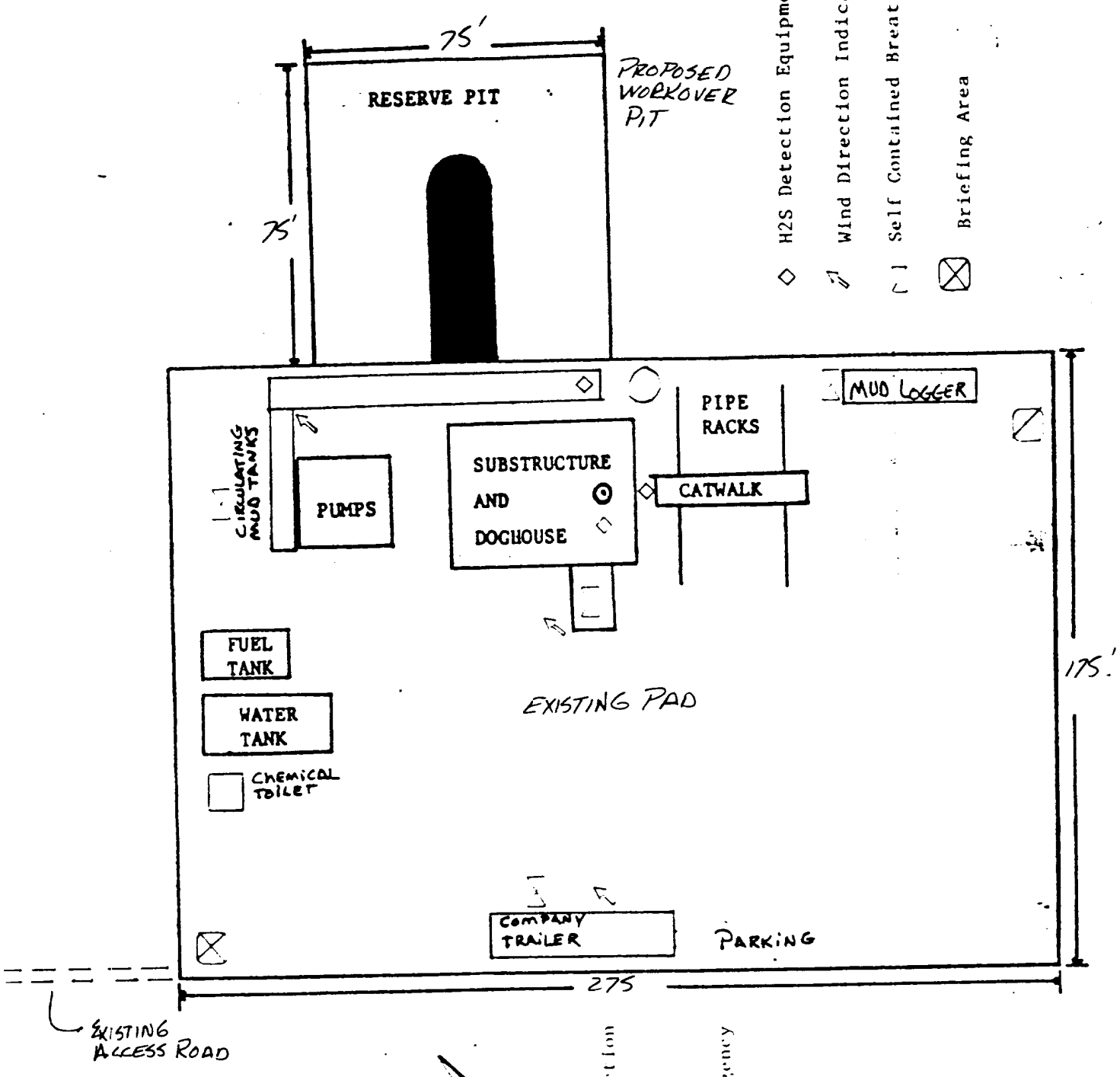


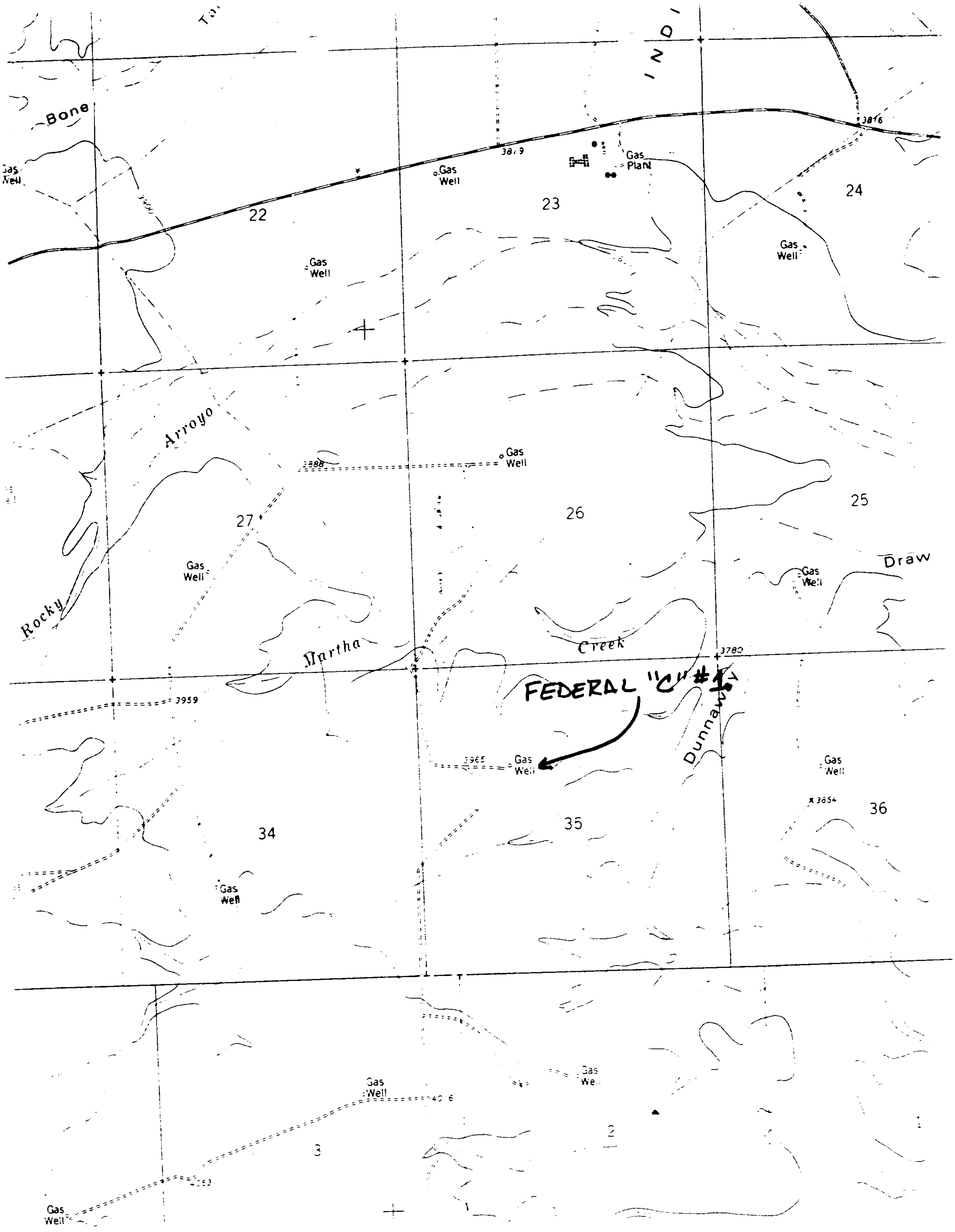
NO. INDIAN BASIN UNIT
10
RATHON (OPER.)
"No Indian Basin"
7906-2 (Marathon)
Marathon HBP 05551
INDIAN BASIN
WEST
INDIAN BASIN UT.
ORYX (OPER.)
California Oil
Odessa Nat'l
Cities Serv
"No Indian Basin Unit"
21
23
Marathon HBP 05560
Santa Fe Ener.
Yates Pet. etal
14
13
16
15
17
18
Marathon Indian Basin Fed
Chevron
Oryx
(Sun) "Bright Fed."
22
"Indian Basin Fed."
Marathon 0384628 (MW Pet.)
MW Pet. etal HBP 0384624
23
24
Marathon & A.R. Co.
Flag-Redfern
Kerr McGee
19
20
Yates Bros. HBP
Oryx Ener.
28
Marathon (MW Pet.)
27
Indian Basin
(Marathon) MW Pet.
26
"Indian Basin"
Santa Fe Ener. (G A Chase)
MIDLAND MAP
25
29
Marathon 0384625
"Fed. IBC Gas Com"
"Fed"
Kerr-McGee
Flag-Redfern
Delta Pet.
Texaco HBP 070622
32
33
Chevron
(John H Trigg) MW Pet.
Marathon
34
"Indian Basin"
35
"Fed"
Oryx
36
Marathon
State
"N M St"
Chevron
5
4
Chevron HBP
"Bagle Flats Unit"
MW Pet. HBP
Std. of Tex. Bagle Flats Unit
Oryx
"Conoco St"
2
Oryx HBC State
Owen E Ling Oper
1
"Smith Fed"
Yates Pet. etal
Devon Ener.
6
Yates Pet.
U.S.
Chevron HBU
Chevron 045272
"Bagle Flats"
8
Sun HBP
Chevron HBP
9
(Sun)
Chevron (Std. of Tex.) Bagle Flats
Chevron
10
"Bagle Flats Unit"
MW Pet.
(Pan Amer.) J.H. Smith Fed
11
MW Pet.
Sun HBC 0339448
12
"Smith-Fed Gas-Com"
Bill Fenn
7
"Lucky Stiff Fed."
Sun HBP
Std. of Tex. (Mobil) Bagle Flats Unit
(Sun) HBP
17
Sun
(Marathon)
Chevron 1/2
16
"Bagle Flats State"
22
23
Chevron
Marathon HBP 0238918
15
"Helbing Fed"
Marathon
15.1 Mil.
Fed IBB Gas Com
14
Marathon HBP 0238918
Chevron HBC
MW Pet.
13
Yates Drlg. etal
(Pan Amer.) (Duncan Fed.)
18
"Hickory Fed."
Western States
Santa Fe Ener. 1/2
Yates Pet. etal

PRODUCTION STACK



INDIAN BASIN C #1





Bone
Gas Well
Gas Well
3879
Gas Plant
3816
22
23
24
Gas Well
Gas Well
Arroyo
3888
Gas Well
27
26
25
Gas Well
Gas Well
Draw
Rocky
Martha
Creek
3780
3959
FEDERAL "C" #1
Dunnaway
3965
Gas Well
Gas Well
3654
34
35
36
Gas Well
Gas Well
Gas Well
2
3
1
Gas Well

MARATHON OIL COMPANY

H2S DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

All contractors and subcontractors employed by Marathon Oil Company will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

1. The hazards and characteristics of hydrogen sulfide (H2S)
2. Safety precautions
3. Operations of safety equipment and life support systems

In addition, contractor supervisory personnel will be trained or prepared in the following areas:

1. The effect of H2S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

II. H2S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location.

A. Wind direction indicators as seen in attached diagram.

B. Automatic H2S detection alarm equipment (both audio and visual).

C. Clearly visible warning signs as seen on the attached diagram. Signs will use the words "POISON GAS' and "CAUTION" with a strong color contrast.

D. Protective breathing equipment will be located in the dog house and at briefing areas as seen in the attached diagram.

2. WELL CONTROL SYSTEMS

A. Blowout Prevention Equipment

Equipment includes but is not limited to:

a. pipe rams to accomodate all pipe sizes
b. blind rams
c. choke manifold
d. closing unit

Auxillary equipment added as appropriate includes:

a. annular preventor _____
b. rotating head _____
c. mud- gas separator _____
d. flare line and means of ignition _____
e. remote operated choke _____

B. Communication

The rig contractor will be required to have two-way communication capability. Marathon Oil Company will have either land-line or mobile telephone capabilities.

C. Mud Program

The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers when appropriate will minimize hazards when penetrating H2S bearing zones.

D. Drill Stem Test intervals are as follows:

DST No. 1 _____ft. 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

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

C/SF

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
NM-06953

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
Oil Well [ ] Gas Well [X] Other

8. Well Name and No.
Indian Basin Federal Com #1

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