

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division 2
1301 W. 9th St.
Albuquerque, NM 87102

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

clsi

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

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company

3a. Address

P.O. Box 552 Midland, TX 79702

3b. Phone No.

915/687-8357

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

Section 35, T-21-S, R-23-E, 2310' FNL & 1980' FEL, U.L. "G"

5. Lease Serial No.

NM-06953

6. If Indian, Allottee or Tribe Name

N/A

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

8. Well Name and No.

Federal C 35 # 4

9. API Well No.

30-015-31828

10. Field and Pool, or Exploratory Area
Upper Penn/ Morrow
Mississippian

11. County or Parish, State

Eddy N.M.

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

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|--|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input type="checkbox"/> Other |
| <input checked="" type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

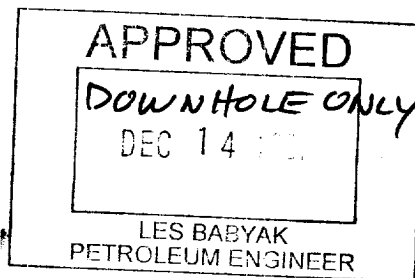
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths 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 recompleat 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.)

Marathon Oil Company is proposing to drill the Federal C-35 # 4 well 300' deeper than originally proposed on the APD. We plan on going to the Mississippian which falls under State Wide Rules therefore being a Standard location. I have attached the changes to the Drilling Program. All changes are in BOLD print.

A new C-102 is attached for the Mississippian Test as well as the Upper Penn. which was omitted from the previous Sundry.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Well is Non-Standard



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

Name (Printed/Typed)

Jerry Fletcher

Title

Engineer Tech.

Date

12/04/01

THIS SPACE FOR FEDERAL OR

Approved by

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.

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any per States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DESIGN FACTORS FOR COLLAPSE AND
JOINT STRENGTH EXCEEDED IN DESIGN
FOR 7.00 INCH CASING

DRILLING PROGRAM
MARATHON OIL COMPANY
Federal "C" 35 # 4

1. Estimated KB Elevation: 3891' KB

<u>FORMATION</u>	<u>-----TOP-----</u>		<u>-----BASE-----</u>		<u>FLUID CONTENT</u>
	<u>MEASURED</u>	<u>SUBSEA</u>	<u>MEASURED</u>	<u>SUBSEA</u>	
Queen	Surface	+3891'	535'	+3356'	water
San Andres	535'	+3356'	2073'	+1818'	water
Glorietta	2073'	+1818'	2355'	+1671'	
Yeso	2220	+1671'	3710	+181'	
Bone Spring	3710'	+181'	5860	-1969'	oil gas
Tubb	5860	-1969'	6010'	-2119'	
Wolfcamp	6010'	-2119'	7385'	-3494'	oil gas
Cisco	7385'	-3494'	7550	-3659'	
Canyon	7550'	-3659'	8665'	-4774'	
Atoka	8665'	-4774'	8947'	-5056'	gas
Morrow	8947'	-5056'	9600'	-5709'	gas
Mississippian	9751'	-5860	9900'	-6009'	gas
T.D.	9900'	-6009'	9900'	-6009'	

<u>Formation</u>	<u>PSIG</u>	<u>PPG EMW</u>	<u>H2S PPM</u>	<u>(obj, marker, etc.)</u>
Bone Springs	1210	8.5	500	marker
Wolfcamp	1680	8.5	5000	marker
Morrow	3460	9.2	0	Objective Pay
Mississippian	3520	9.2	0	Test

2. See (1) above.
If any unexpected water or mineral bearing zones are encountered, they will be reported, evaluated, and protected as circumstances and regulations require.

3. **Pressure Control Equipment:**

4. 9-5/8" Surface: 11" 3M annular tested to 200 psi /2000 psi, 11" 3M dual rams, choke manifold and mud cross, tested to 300psi/3000psi

Auxiliary Equipment:

Surface Hole: Annular or rotating head w/air rig.

Intermediate Hole: N/A

Production Hole: Flow indicator, PVT, H₂S Sensors, air packs, stroke counter, rotating head.

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and pressure tested prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and will be recorded on the daily drilling report. Casing will be pressure tested before drilling casing cement plugs.

Upper and lower kelly cocks with valve handle and safety valve and subs to fit all drillstring connections in use will be available on rig floor.

A. P. D. (cont.)
Thirteen Point Surface Use Plan
Federal "C" 35 # 4

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:

<u>---DEPTH---</u>	<u>SECTION</u>	<u>HOLE</u>	<u>CSG</u>	<u>WT.</u>	<u>THREADS</u>	<u>NEW</u>
<u>FROM TO</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>SIZE</u>	<u>PPF</u>	<u>GRADE COUPLINGS</u>	<u>USED</u>
0 1200'	1200	12.25"	9-5/8"	36.00#	K-55 8rd, STC	New
0 4800'	4800'	8.750"	7.00"	23.00#	K-55 8rd, LT&C	New
4800' 9900'	5100'	8.750"	7.00"	26.00#	K-55 8rd, LT&C	New

<u>Casing</u>	<u>DV</u>	<u>Lead</u>	<u>Amt</u>	<u>Type</u>	<u>Yield</u>	<u>Wt.</u>	<u>TOC</u>	<u>Additives</u>
<u>String</u>	<u>Depth</u>	<u>Stg.</u>	<u>Tail</u>	<u>SXS</u>	<u>Cement</u>	<u>CF/SX</u>	<u>PPG.</u>	
9.625"	none	1	L	350	"C"	2.02	12.4	surf. 5# /Sk.Gilsonite,2% Cacl1/4# cello
9.625"	none		T	150	"C Neat	1.34	14.8	800' 2% Cacl, 1/4# cello
7.0"	6300'	1	L	340	Prem.	1.44	13.0	5600' Foamers, N2
7.0"		2	L	840	Interfill "C"	2.47	11.9	1/4pps Cello,3pps Gilsonite,0.2% Halad 322
7.0		2	T	100	"C" Neat	1.32	14.8	6000' N/A

Each stage will be predated by an appropriate mud flush. Actual production hole volumes will be based on the caliper Volume plus 25% excess.

A. P. D. (cont.)
Thirteen Point Surface Use Plan
Federal "C" 35 # 4

Centralizer Program

9-5/8" Conventional centralizers. Bottom 3 joints and every fourth joint to surface.

7.0" Conventional centralizers middle of 1st joint, then every joint to 7500', and 1 cent. Every 4th joint thereafter to 9600'

5. Mud Program

---DEPTH---			WEIGHT		WL	ADDITIVES	VISUAL
FROM	TO	MUD TYPE	(PPG)	VIS	CC		MONTR.
0	1200'	fresh water	8.3	28	N/A	Gel, Lime	Reserve
1200'	7800'	fresh	8.5	28-32	N/C	Gel, caustic, H ₂ S Scavenger	Reserve
7800'	8200'	Cut Brine	9.0	32-36	>20	Gel, Starch, Caustic	Steel Pits
8200'	9900'	Cut Brine	9.0	32-36	> 20	Gel, Starch, Caustic	Steel Pits

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

6. Logging, Testing & Coring Programs:

LOG/TEST/CORE/MUDLOG/OTHER	--INTERVAL--		REMARKS
	FROM	TO	
DLL/MSFL/GR/CNL/LDT/CAL	TD	5000'	
LDT/CNL/GR/CAL	TD	surf casing	
MUD LOGGER	6000'	TD	ROP, Lithology, Gas Analysis, Chromatograph
NO CORES OR DST'S			

7. Abnormal Pressures, Temperatures or Potential Hazards:

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

8. Other Information:

Anticipated Starting Date: As soon as possible.

Duration of Well: drilling - 24 days, completion - 10 days.

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

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

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

DISTRICT IV
P.O. Box 2088, Santa Fe, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
30-015-31828	79040	Indian Basin Upper Penn.
Property Code	Property Name	Well Number
	FEDERAL "C" 35	4
OGRID No.	Operator Name	Elevation
14021	MARATHON OIL COMPANY	3928'

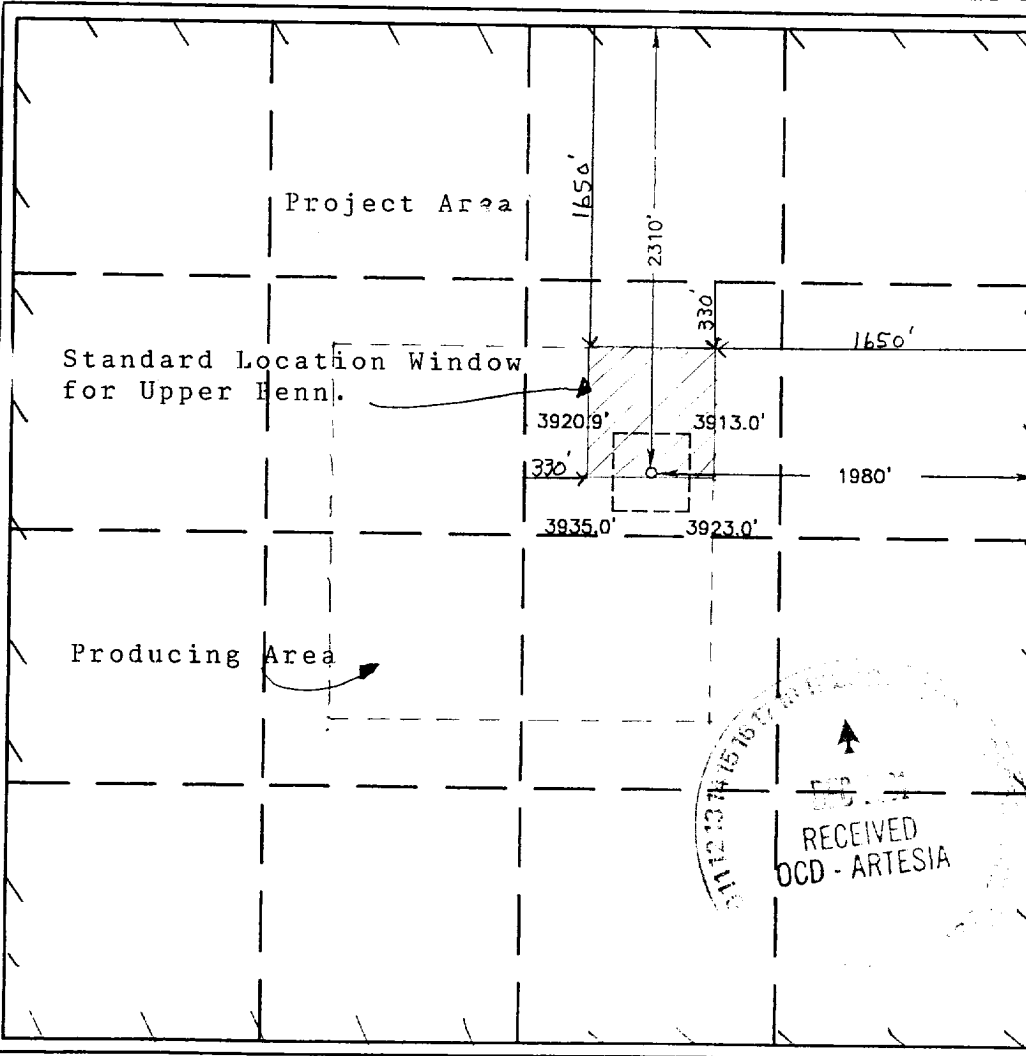
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	35	21-S	23-E		2310	NORTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
640									

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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Jerry Fletcher</i> Signature</p> <p>Jerry Fletcher Printed Name</p> <p>Engineer Tech. Title</p> <p>12/04/01 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>JUNE 20, 2001</p> <p>Date Surveyed</p> <p>Signature & Seal of Professional Surveyor</p> <p><i>Ronald J. Eidson</i> 6/22/01</p> <p>04-11-0782</p> <p>Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641</p>
--	--

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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-31828	Pool Code	Pool Name Mississippian (Wildcat)
Property Code	Property Name FEDERAL "C" 35	Well Number 4
OGRID No. 14021	Operator Name MARATHON OIL COMPANY	Elevation 3928'

Surface Location

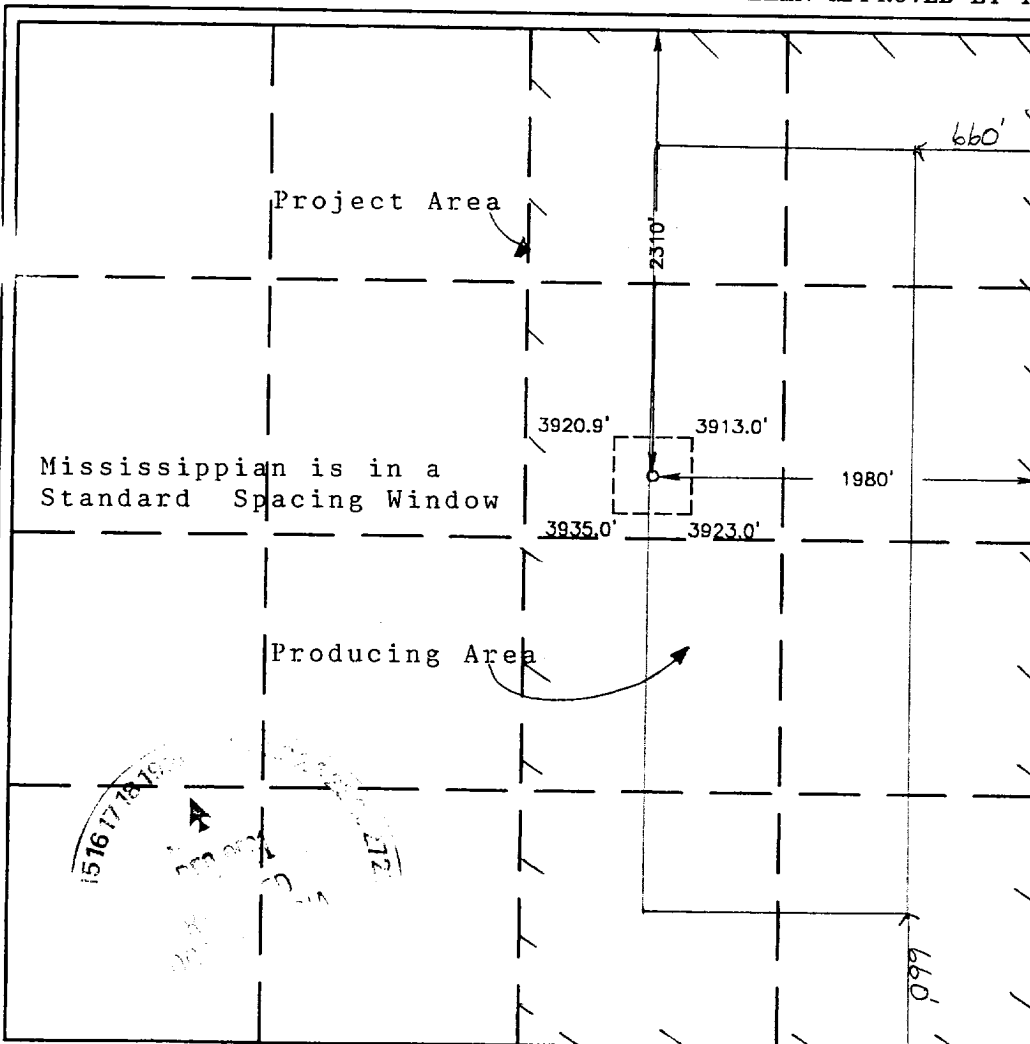
UL or lot No. G	Section 35	Township 21-S	Range 23-E	Lot Idn	Feet from the 2310	North/South line NORTH	Feet from the 1980	East/West line EAST	County EDDY
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UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

Dedicated Acres 320 E/2	Joint or Infill	Consolidation Code	Order No.
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Jerry Fletcher
Signature

Jerry Fletcher
Printed Name
Engineer Tech.

Title
12/04/01
Date

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Date Surveyed
Signature & Seal of
Professional Surveyor

Ronald G. Edson
6/22/01
01-11-0782

Certificate No. RONALD G. EDSON 3239
GARY EDSON 12641

LONE STAR STEEL - CASING DESIGN PROGRAM

Length	Item ID	Size	Weight (lb/ft)	Grade	Joint Type
4800	2931	7.0	23.00	K-55	LT+C
5100	3061	7.0	26.00	K-55	LT+C

TD 9950

	Collapse Load	Collapse Strgth	S.F.	Burst Load	Internal Strgth	Yield S.F.	Tension Load	Joint Strgth	Joint S.F.	Body S.F.
2244	2852	1.27	3441	4360	1.27	209.5	341	<u>1.63</u>		1.75
4629	4320	<u>0.933</u>	1773	4980	2.81	114.35	401	3.51		3.63

Mud Wt. = 9.0

DESIGN FACTORS FOR COLLAPSE AND JOINT
STRENGTH EXCEEDED IN DESIGN

3M BOP OK

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

9512

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3b. Phone No. (include area code)

915/687-8357

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Eddy N.M.

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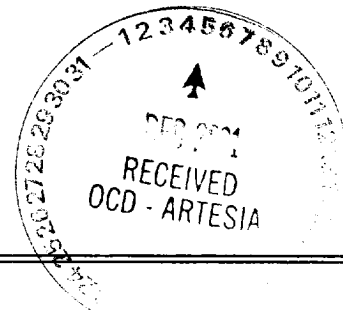
- | | | | |
|--|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
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DRILLING PROGRAM
MARATHON OIL COMPANY
Federal "C" 35 # 4

1. Estimated KB Elevation: 3891' KB

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A. P. D. (cont.)
Thirteen Point Surface Use Plan
Federal "C" 35 # 4

Test Frequency

1. When installed.
2. Anytime a pressure seal is broken (test confined only to affected equipment).
3. At least every 20 days.
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<u>---DEPTH---</u> <u>FROM</u>	<u>TO</u>	<u>SECTION</u> <u>LENGTH</u>	<u>HOLE</u> <u>SIZE</u>	<u>CSG</u> <u>SIZE</u>	<u>WT.</u> <u>PPF</u>	<u>GRADE</u>	<u>THREADS</u> <u>COUPLINGS</u>	<u>NEW</u> <u>USED</u>
0	1200'	1200	12.25"	9-5/8"	36.00#	K-55	8rd, STC	New
0	4800'	4800'	8.750"	7.00"	23.00#	K-55	8rd, LT&C	New
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<u>Casing</u> <u>String</u>	<u>DV</u> <u>Depth</u>	<u>Stg.</u>	<u>Lead</u> <u>Tail</u>	<u>Amt</u> <u>SXS</u>	<u>Type</u> <u>Cement</u>	<u>Yield</u> <u>CF/SX</u>	<u>Wt.</u> <u>PPG.</u>	<u>TOC</u>	<u>Additives</u>
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9.625"	none		T	150	"C Neat	1.34	14.8	800'	2% Cacl, 1/4# cello
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7.0"		2	L	840	Interfill "C"	2.47	11.9		1/4pps Cello,3pps Gilsonite,0.2% Halad 322
7.0		2	T	100	"C" Neat	1.32	14.8	6000'	N/A

Each stage will be predated by an appropriate mud flush. Actual production hole volumes will be based on the caliper Volume plus 25% excess.

A. P. D. (cont.)
Thirteen Point Surface Use Plan
Federal "C" 35 # 4

Centralizer Program

9-5/8" Conventional centralizers. Bottom 3 joints and every fourth joint to surface.

7.0" Conventional centralizers middle of 1st joint, then every joint to 7500', and 1 cent. Every 4th joint thereafter to 9600'

5. Mud Program

---DEPTH---			WEIGHT		WL			VISUAL
FROM	TO	MUD TYPE	(PPG)	VIS	CC	ADDITIVES		MONTR.
0	1200'	fresh water	8.3	28	N/A	Gel, Lime		Reserve
1200'	7800'	fresh	8.5	28-32	N/C	Gel, caustic, H ₂ S Scavenger		Reserve
7800'	8200'	Cut Brine	9.0	32-36	>20	Gel, Starch, Caustic		Steel Pits
8200'	9900'	Cut Brine	9.0	32-36	> 20	Gel, Starch, Caustic		Steel Pits

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

6. Logging, Testing & Coring Programs:

<u>LOG/TEST/CORE/MUDLOG/OTHER</u>	<u>--INTERVAL--</u>		<u>REMARKS</u>
	<u>FROM</u>	<u>TO</u>	
DLL/MSFL/GR/CNL/LDT/CAL	TD	5000'	
LDT/CNL/GR/CAL	TD	surf casing	
MUD LOGGER	6000'	TD	ROP, Lithology, Gas Analysis, Chromatograph
NO CORES OR DST'S			

7. Abnormal Pressures, Temperatures or Potential Hazards:

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

8. Other Information:

Anticipated Starting Date: As soon as possible.

Duration of Well: drilling - 24 days, completion - 10 days.

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

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

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

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-31828	Pool Code 79040	Pool Name Indian Basin Upper Penn.
Property Code	Property Name FEDERAL "C" 35	Well Number 4
OGRID No. 14021	Operator Name MARATHON OIL COMPANY	Elevation 3928'

Surface Location

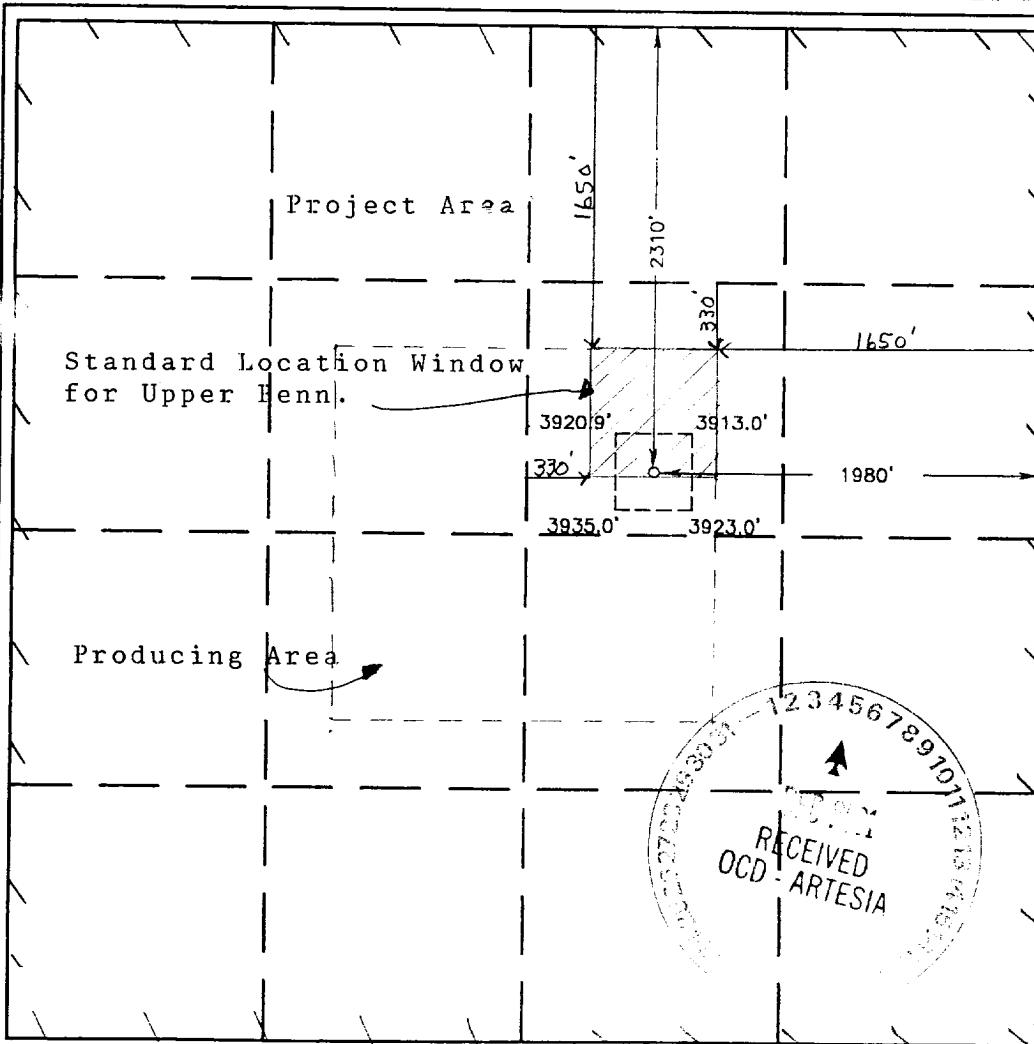
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	35	21-S	23-E		2310	NORTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.
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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



OPERATOR CERTIFICATION

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

Jerry Fletcher
Signature

Jerry Fletcher
Printed Name

Engineer Tech.
Title

12/04/01
Date

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.

JUNE 20, 2001

Date Surveyed AWB

Signature & Seal of
Professional Surveyor

Ronald J. Eidson 6/22/01
01-11-0782

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641

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

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

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1000 Rio Brazos Rd., Artec, NM 87410

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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-31828	Pool Code	Pool Name Mississippian (Wildcat)
Property Code	Property Name FEDERAL "C" 35	Well Number 4
OGRID No. 14021	Operator Name MARATHON OIL COMPANY	Elevation 3928'

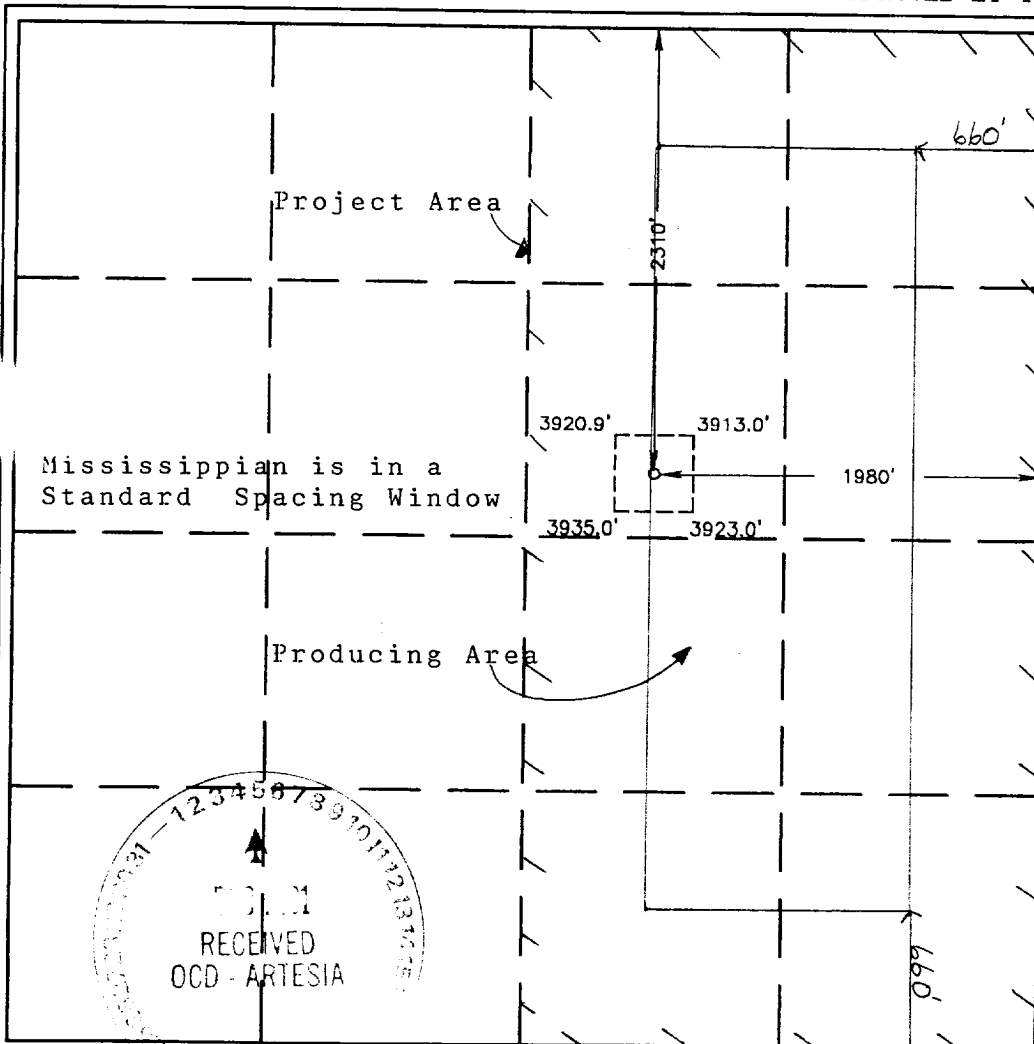
Surface Location

UL or lot No. G	Section 35	Township 21-S	Range 23-E	Lot Idn	Feet from the 2310	North/South line NORTH	Feet from the 1980	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
dedicated Acres 320 E/2	Joint or Infill	Consolidation Code	Order No.						

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



OPERATOR CERTIFICATION

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

Jerry Fletcher
Signature

Jerry Fletcher

Printed Name

Engineer Tech.

Title

12/04/01

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown
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JUNE 20, 2001

Date Surveyed

AWB

Signature & Seal of
Professional Surveyor

Ronald G. Edson
6/22/01
601-11-0782

Certificate No. RONALD G. EDSON 3239
GARY EDSON 12641