

Release Date
Sept 23, 1987

By DMC

Mid-Continent Region
Exploration United States



**Marathon
Oil Company**

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

September 21, 1987

*Dual Completion
Wildcat Atoka
320 Acre spacing
N/2 dedication - Sect 27
Wildcat Bone Spring
40 Acres ded.
NW 1/4 NE 1/4 Section 27*

*NSL-2408
RULE-104 F(II)*

State of New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

RECEIVED

SEP 23 1987

OIL CONSERVATION DIVISION

Attention: Division Director

RE: Application for Unorthodox Well Location
MOC State - V-1687 #1 Well,
Our Lease NM-4333 - State of NM - V-1687
1300' FNL and 1980' FEL
Section 27, T-17-S, R-36-E, N.M.P.M.
Our Arkansas Junction Area
Lea County, New Mexico

Gentlemen:

Marathon hereby applies for administrative approval of an unorthodox drilling location to be located 1300' FNL and 1980' FEL of Section 27, T-17-S, R-36-E, N.M.P.M., Lea County, New Mexico. Marathon is proposing the drilling of a 12,400' Atoka test with the primary objective being the Third Bone Spring Sand.

Enclosed for your review please find a leasehold ownership plat showing the ownership of all leases offsetting the proration unit, a geologic map, seismic line and a discussion of the geological and geophysical conditions which result in the necessity for the unorthodox location.

Since the offsetting operators of the unorthodox well location for a 320 acre gas spacing unit will be participating in a voluntary working interest unit covering the S/2 of Section 22, SW/4 of Section 23, W/2 of Section 26, all of Section 27, and the E/2 and E/2 W/2 of Section 28, T-17-S, R-36-E, for the drilling of the captioned test, and due to the fact Marathon will be the offset operator of our own lease on a 40 acre spacing unit, it has been determined that it is not necessary to notify and request waivers from the offset operators.

In as much as Marathon is planning to begin drilling operations on the above referenced well on or before October 15, 1987, we respectfully request the expeditious approval of the above unorthodox well location.

Thank you for your consideration concerning this matter.

Yours very truly,

MARATHON OIL COMPANY

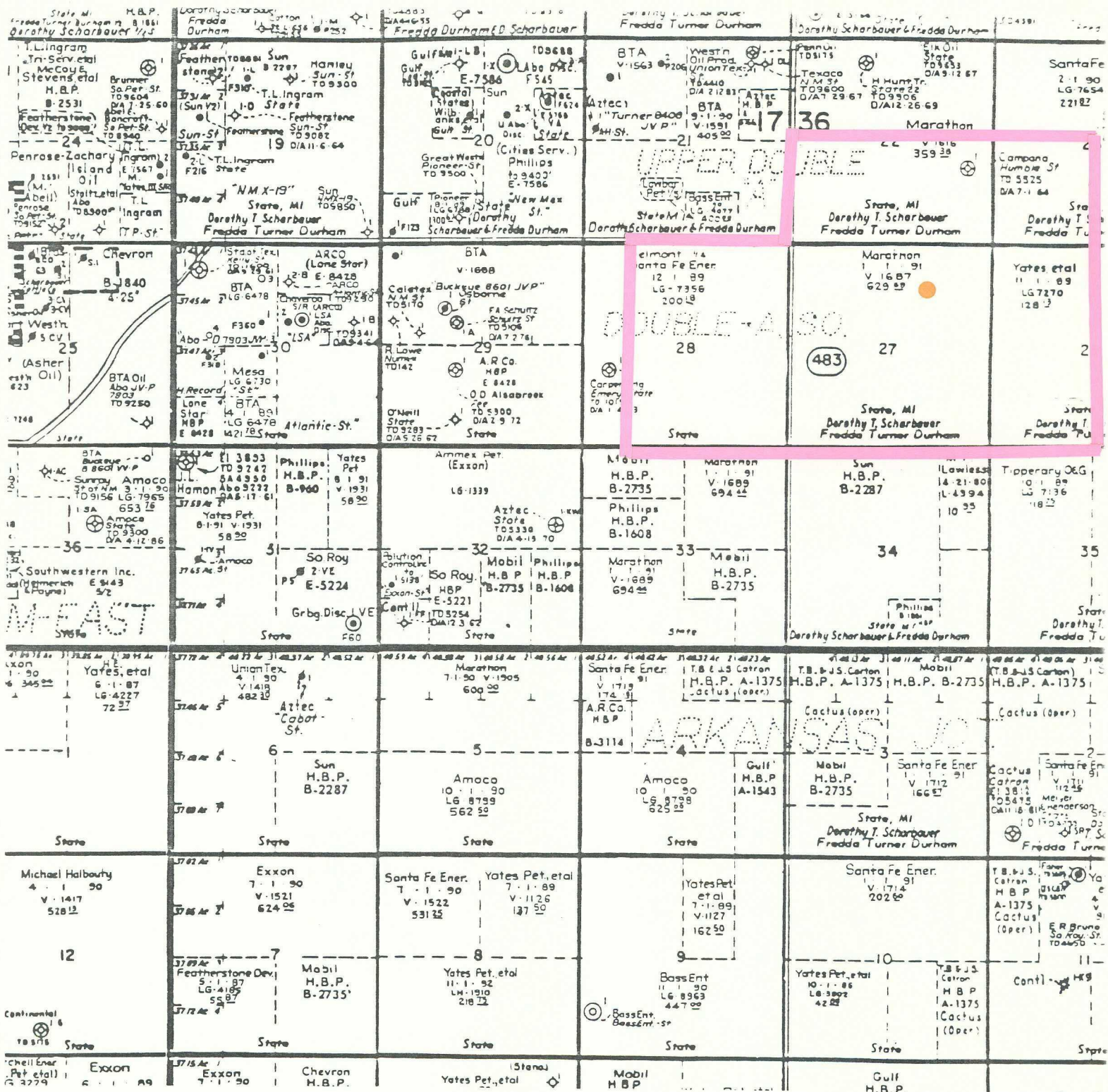
A handwritten signature in cursive script, appearing to read "Steve Daniels".

Steve Daniels
Landman

SMD/mlg
Enclosures

xc: State of New Mexico Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

Attention: Mr. Jerry T. Sexton





**Marathon
Oil Company**

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

September 21, 1987

State of New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088
Attn: Division Director

RE: Geological & Geophysical report for
unorthodox well location
Marathon State-V-1687 #1
1300' FNL & 1980' FEL
Section 27, T-17-S, R-36-E NMPM
Lea County, New Mexico

Gentlemen:

Marathon Oil Company is requesting an unorthodox well location in Section 27, T-17-S, R-36-E Lea County, New Mexico for a 12,400' Bone Spring and Atoka test. The requested well location in Section 27 is 1,300' FNL & 1,980' FEL. The well location is needed to support the geophysical interpretation of the Third Bone Spring debris interval.

The enclosed "Top of Third Bone Spring" structure map (Exhibit "A"), constructed from seismic and subsurface data, shows the leading edge of the debris sheet defined at VP 88 on seismic line MOC-ARK-7-86 and at VP 118 on seismic line MOC-ARK-8-86. The 1,300' FNL footage will provide a safe margin for error back of the leading edge of the debris sheet. This, hopefully will assure successful penetration of the debris zone.

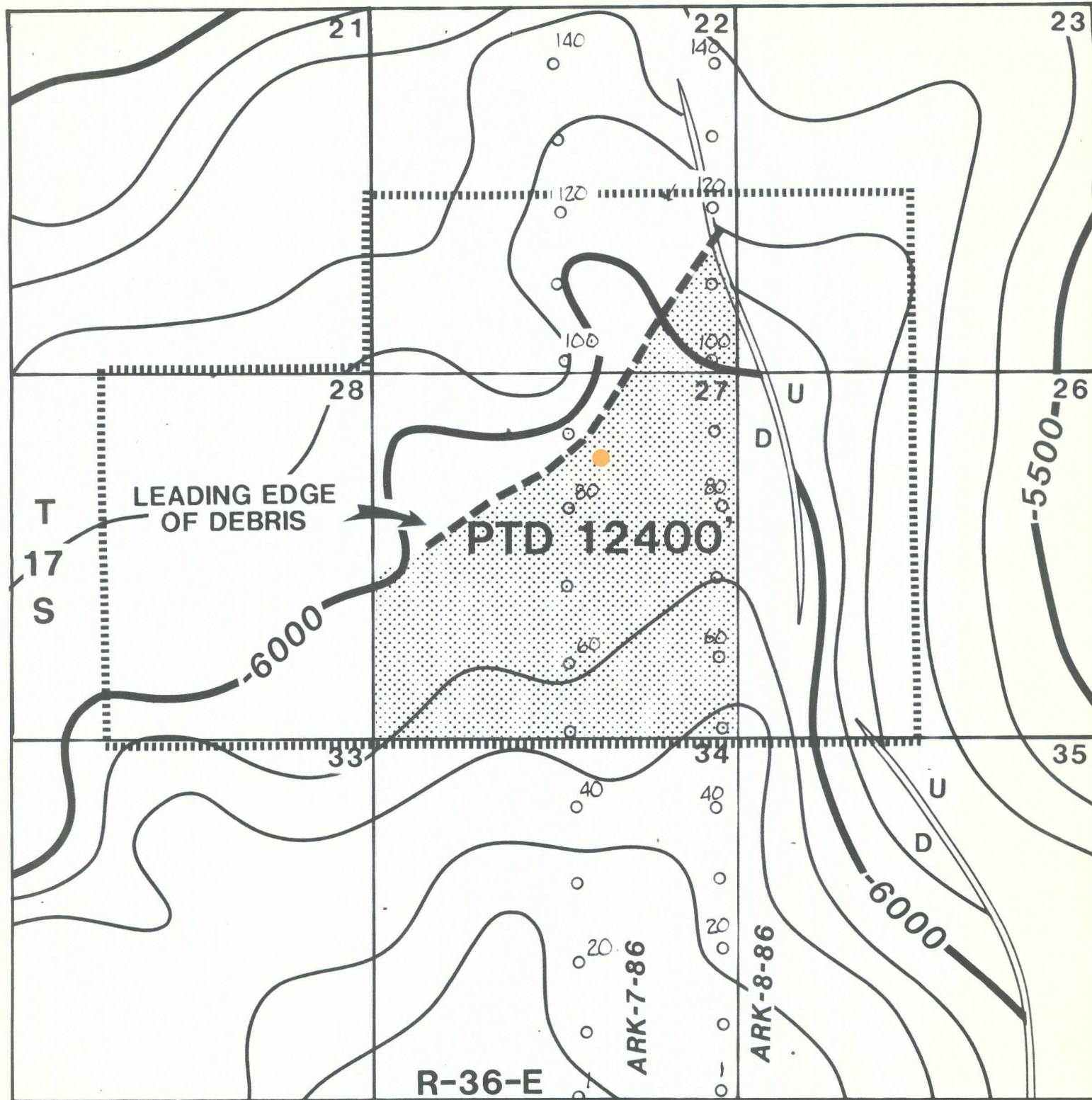
The enclosed seismic line MOC-ARK-7-86 (Exhibit "B") shows the interpreted Third Bone Spring debris sheet in pink. The amplitude break up at VP 88 defines the leading edge of the debris sheet.

Approval of the unorthodox location for the Marathon State V-1687 #1 well by the State of New Mexico will help fulfill the geological and geophysical merits of the prospect by providing an optimum well location.

Sincerely,

D. L. Rebenstorf
Geophysicist

DLR:hrm
Enclosures



LEGEND



3RD BONE SPRING DEBRIS

..... VOLUNTARY WORKING
INTEREST UNIT



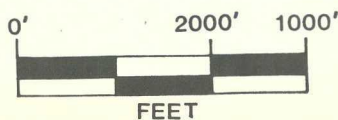
PRODUCTION, U.S.
MID-CONTINENT REGION

ARKANSAS JUNCTION PROSPECT

LEA CO., NEW MEXICO

T/3RD BONE SPRING SAND

EXHIBIT "A"



BY D. REBENSTORF

C.I. 100'

9-21-87



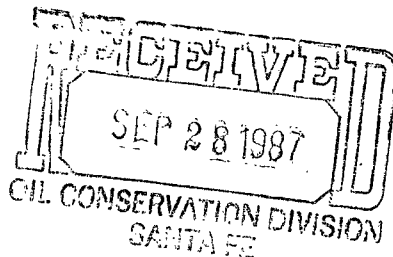
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

9-23-87

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501



NSL-2408

RE: Proposed:

MC _____
DHC _____
NSL ☒ _____
NSP _____
SWD _____
WFX _____
PMX _____

Gentlemen:

I have examined the application for the: MOC State V-1687 #1
Marathon Oil Co. 1300'/N + 1980'/E 27-17-36
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK JS

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed