

June 29, 1984

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Subject: Unorthodox Location for the  
Mesa Petroleum Co.  
Hilburn #2  
1190' FNL & 1980' FWL  
Sec. 13, T16S, R35E  
Lea County, New Mexico

NSL #1919  
RULE 104F(II)  
160 acres-dedicated  
NW/4  
Approve Immediately  
Fee land

Pursuant to Rule 102 (F.)(II.), application for administrative approval of an unorthodox location based upon geologic conditions is requested. Field rules for the North Shoebar Strawn and Wolfcamp pools require a well to be located within 150' of the center of a standard quarter/quarter. Subject well is 530' from the center of the NE 1/4 of the NW 1/4 of Section 13.

In support of this application, please find enclosed a land plat showing Mesa leasehold interests and offsetting operator of subject 160 acre proration unit and geological letter with attachments showing the necessity for drilling the Hilburn #2 well at an unorthodox location.

By copy of this letter, Rockwood Resources, Inc. is notified via registered mail of this request.

Sincerely,

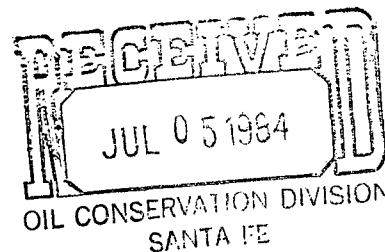
*R. E. Mathis*

R. E. Mathis  
Regulatory Coordinator  
Onshore Operations Division

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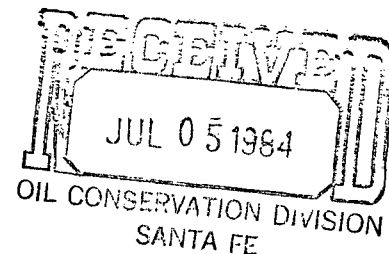
Enc.

XC: NMOCD(Orig + 2)  
Rockwood Resources, Inc. (w/o enc.)





June 26, 1984



New Mexico Oil Conservation Division

Gentlemen:

Subject: Request for Administrative Approval  
for Unorthodox Location Based on  
Geology for the Mesa Petroleum Co.  
#2 Hilburn to be Located 1190' FNL &  
1980' FWL Section 13, T16S, R35E, Lea  
County NM. North Shoebar Wolfcamp  
and Strawn Fields.

The attached geologic maps, 1) Structure Top/Wolfcamp Three Brothers with isopach of the Wolfcamp "B" Bank 2) Structure Top/Strawn with isopach of Strawn Bank and 3) Structural Cross section A-A' indicate the fields are located on structural noses with a narrow sinuous NE-SW trending carbonate bank developed on the nose.

The reason for the unorthodox location is to locate the proposed well at the optimum structural and stratigraphic location for the maximum bank facies development on the narrow objective "Banks" in both Wolfcamp and Strawn potential pay horizons.

The NW/4 section 13 is a 160 acre proration and spacing unit for Strawn oil production, in addition, the field rules require 160 acre spacing for Wolfcamp production.

The NW/4 section 13 is pooled for oil and gas production in all zones.

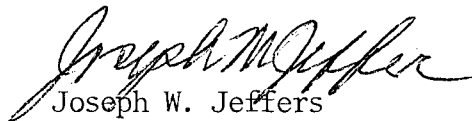
Cost of well to drill and complete to 11,550' is \$865,000.

We respectfully request the granting of the proposed unorthodox location based on the high risk of drilling a standard location to the north of the proposed location.

June 26, 1984

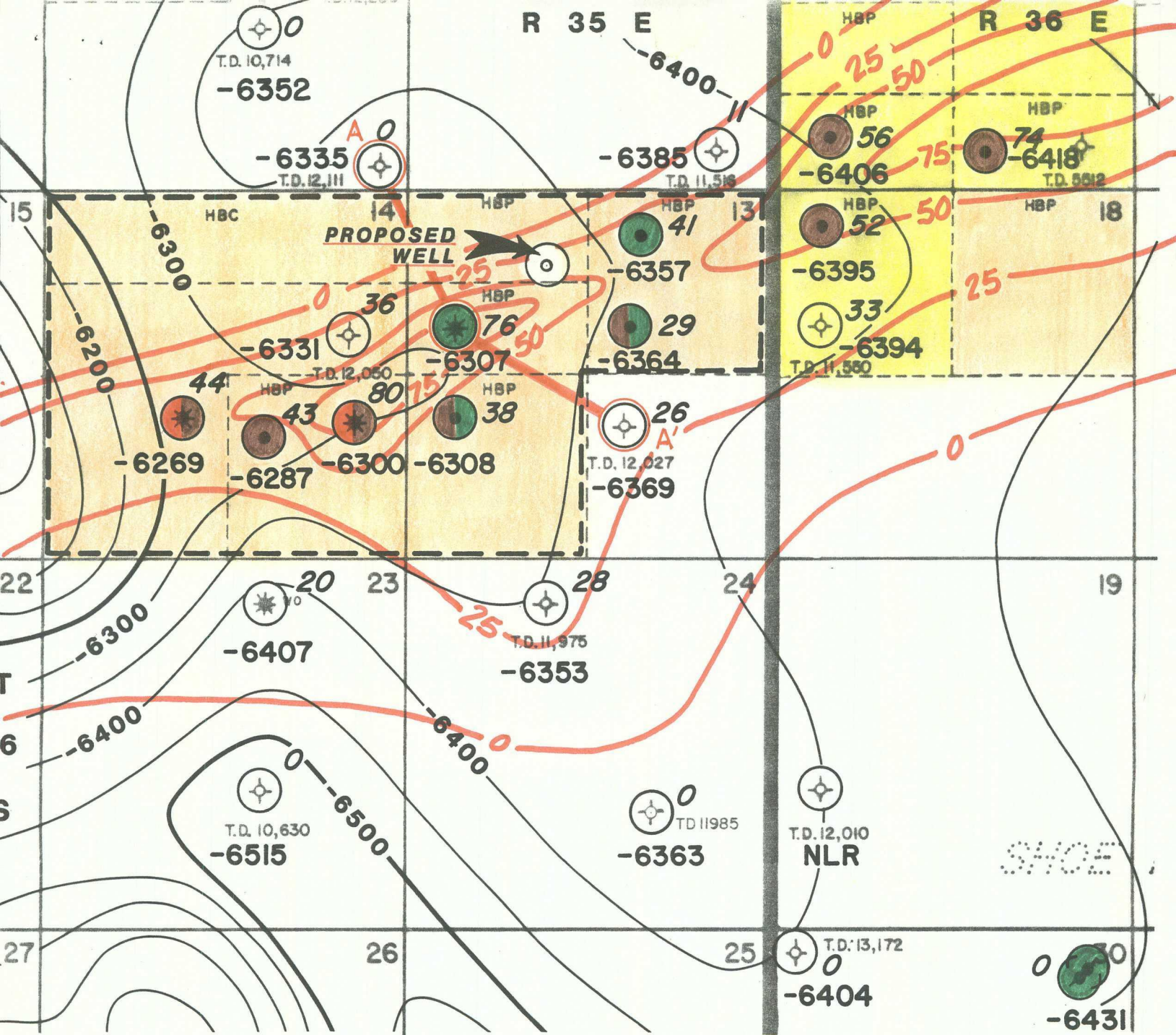
In my opinion, the approval of the unorthodox location for the #2 Hilburn well for the Strawn and Wolfcamp formations will be in the interest of conservation, the prevention of waste, and the protection of correlative rights.

Sincerely,



Joseph W. Jeffers

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**MESA**

PETROLEUM CO.  
PERMIAN BASIN DIVISION

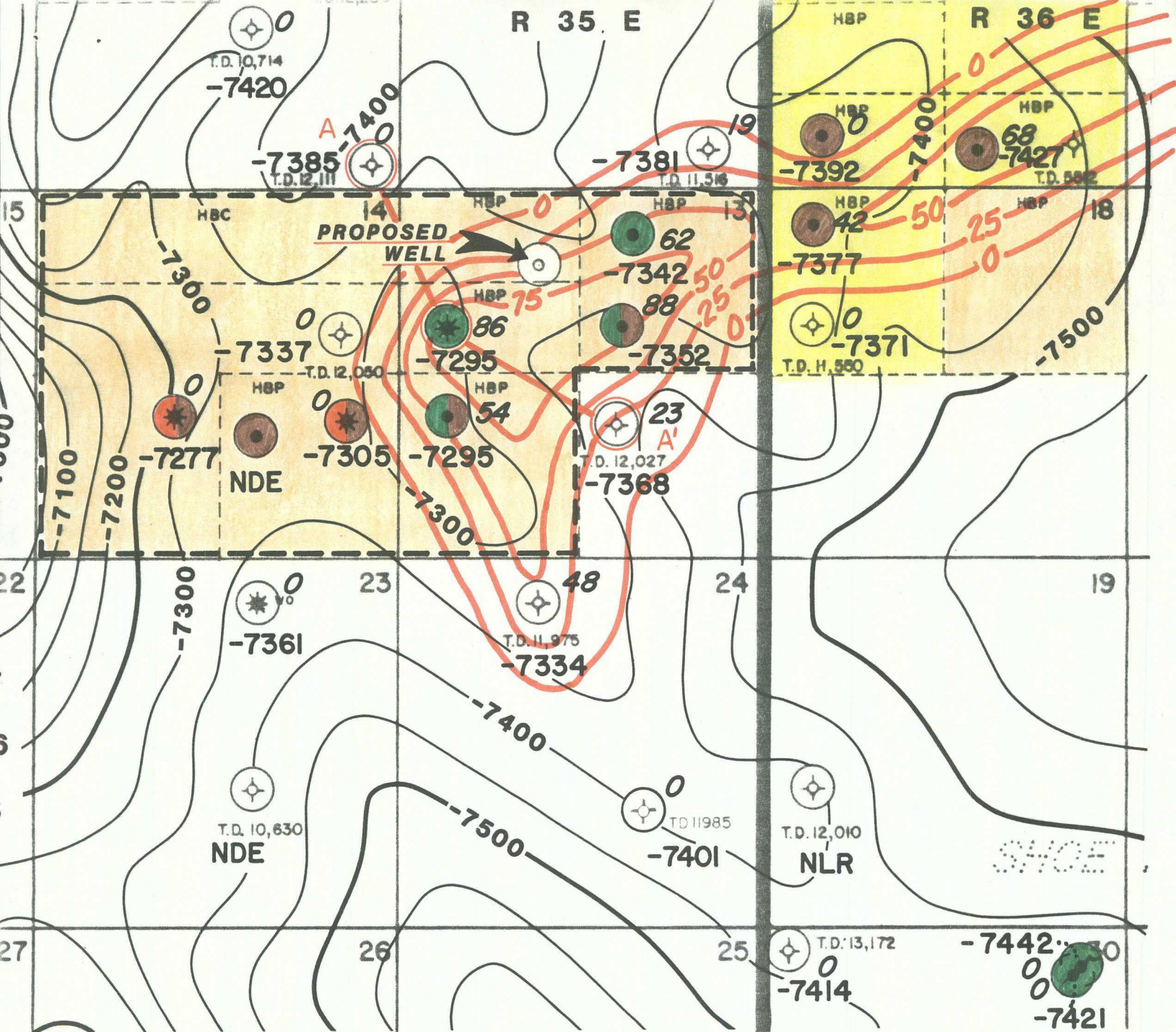
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**S. W. LOVINGTON PROSPECT**  
Lea County, New Mexico

**STRUCTURE**  
Top/Wolfcamp Three Brothers  
C. I. = 50'  
ISOPACH  
Wolfcamp "B" Bank  
C. I. = 25'

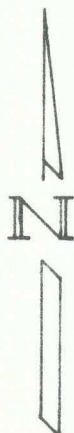
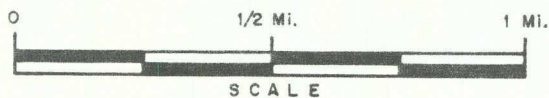
BY: J.W. JEFFERS  
DATE: 6-28-84

DRAWN BY: C.C. Keith  
SCALE: 1" = 2000'



# **LEGEND**

- Wolfcamp Production
- Strawn Production
- Atoka Production



**MESA**

**PETROLEUM CO.**  
 PERMIAN BASIN DIVISION

**S. W. LOVINGTON PROSPECT**  
 Lea County, New Mexico  
**STRUCTURE**  
 Top/Strawn  
 C. I. = 50'  
**GROSS ISOPACH**  
 Strawn Bank Facies  
~ C. I. = 25' ~

BY J. W. JEFFERS  
 DATE 6-25-84

DRAWN BY C. C. Keith  
 SCALE 1" = 2000'

