

November 28, 1979

Orville Slaughter  
2626 Adams Street

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Subject: Request for Administration Approval  
of Non-Standard Location

*NSL-1126  
Rule 104 F  
Immediate*

Gentlemen:

*Sangre De Cristo No 4*

It was our desire to drill an undesigned Fruitland re-entry well at a point 670' FNL and 580' FWL of Section 34, T30N, R11W. We considered this the most desirable standard location due to the close proximity of the Sangre De Cristo No. 2 located 990' FWL and 800' FNL of Section 34, T30N, R11W and which has been a very successful undesigned Fruitland well.

*Pool*

Since this is a re-entry to an existing well, considerable time, money and energy will be saved, helping to increase our national energy program by expending less natural resources to obtain a production well. (See attached drilling plan and archaeological clearance survey).

There are no other points within the NW 1/4 of Section 34 where the topography is suitable to drill No. 2, because of deep canyons which would require considerable work and expense to build a location along with additional expense to maintain and operate the well. We are requesting administrative approval of a location 670' FNL and 580' FWL of Section 34, T30N, R11W, which is more suitable terrain for drilling and operating. Due to geological conditions, we believe a well drilled at any other point would result in a poor producing well.

Since a comparison of the well logs on the Murphy No. 2-E and the Sangre De Cristo No. 2 indicates that the undesigned Fruitland formation geologic conditions for producing gas are much better in the Sangre De Cristo No. 2 well, we believe a better producing well can be drilled at the non-standard location in the NW 1/4 of NW 1/4 of Section 34, closer to the Sangre De Cristo No. 2 well

El Paso Natural Gas Company operates all off-set wells to the non-standard location and has been sent thru the U.S. Postal Service a certified copy of this proposal mailed this 29th day of November, 1979.

In order for you to better consider this request, we are enclosing copies of the Fruitland section of the well logs on the Murphy #2-E, the Sangre De Cristo #2, and a topographic map of the area.

Sincerely,

A handwritten signature in cursive script that reads "Orville Slaughter". The signature is written in dark ink and is positioned above the typed name.

Orville Slaughter,  
Operator

OS/fg  
Encs.

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10-1-78

All distances must be from the outer boundaries of the Section

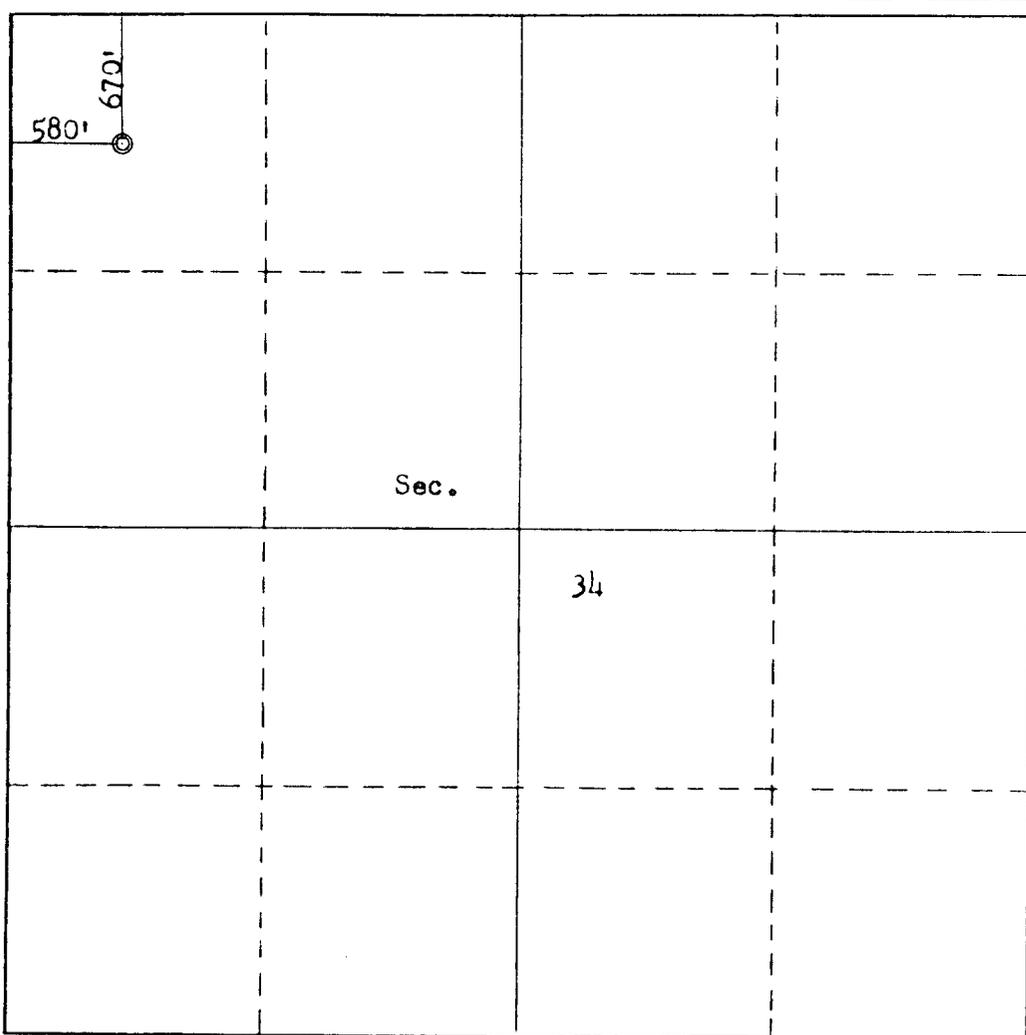
Operator <b>ORVILLE SLAUGHTER &amp; ASSOCIATES</b>		Lease <b>SANGRE DE CRISTO</b>			Well No. <b>4</b>
Unit Letter <b>D</b>	Section <b>34</b>	Township <b>30N</b>	Range <b>11W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>670</b> feet from the <b>North</b> line and <b>580</b> feet from the <b>West</b> line					
Ground Level Elev. <b>5900</b>	Producing Formation		Pool	Dedicated Acreage: Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

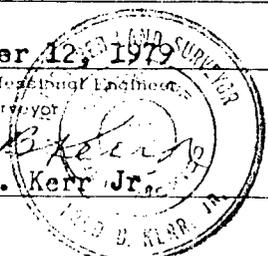
*Orville Slaughter*  
Name  
*Operator*  
Position

Company  
*12 Nov 1979*  
Date

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 knowledge and belief.

Date Surveyed  
**November 12, 1979**  
Registered Professional Engineer and/or Land Surveyor  
*Fred B. Kerr Jr.*  
**Fred B. Kerr Jr.**

Certificate No.  
**3950**



File NSL-1126

**El Paso** NATURAL GAS  
COMPANY

P. O. BOX 990  
FARMINGTON, NEW MEXICO 87401  
PHONE: 505-325-2841



November 29, 1979

NEW MEXICO OIL CONSERVATION COMMISSION  
Attention: Mr. J. D. Ramey-Director  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Orville Slaughter & Associates  
Request for Non-Standard Location  
for the Sangre De Cristo No. 4  
Fruitland, 670' FNL, 580' FWL  
Section 34, T30N, R11W  
San Juan County, New Mexico

Dear Mr. Ramey:

This is to advise that El Paso Natural Gas Company, as owner of offset acreage to the captioned proposed well, has no objections to the request by Orville Slaughter & Associates.

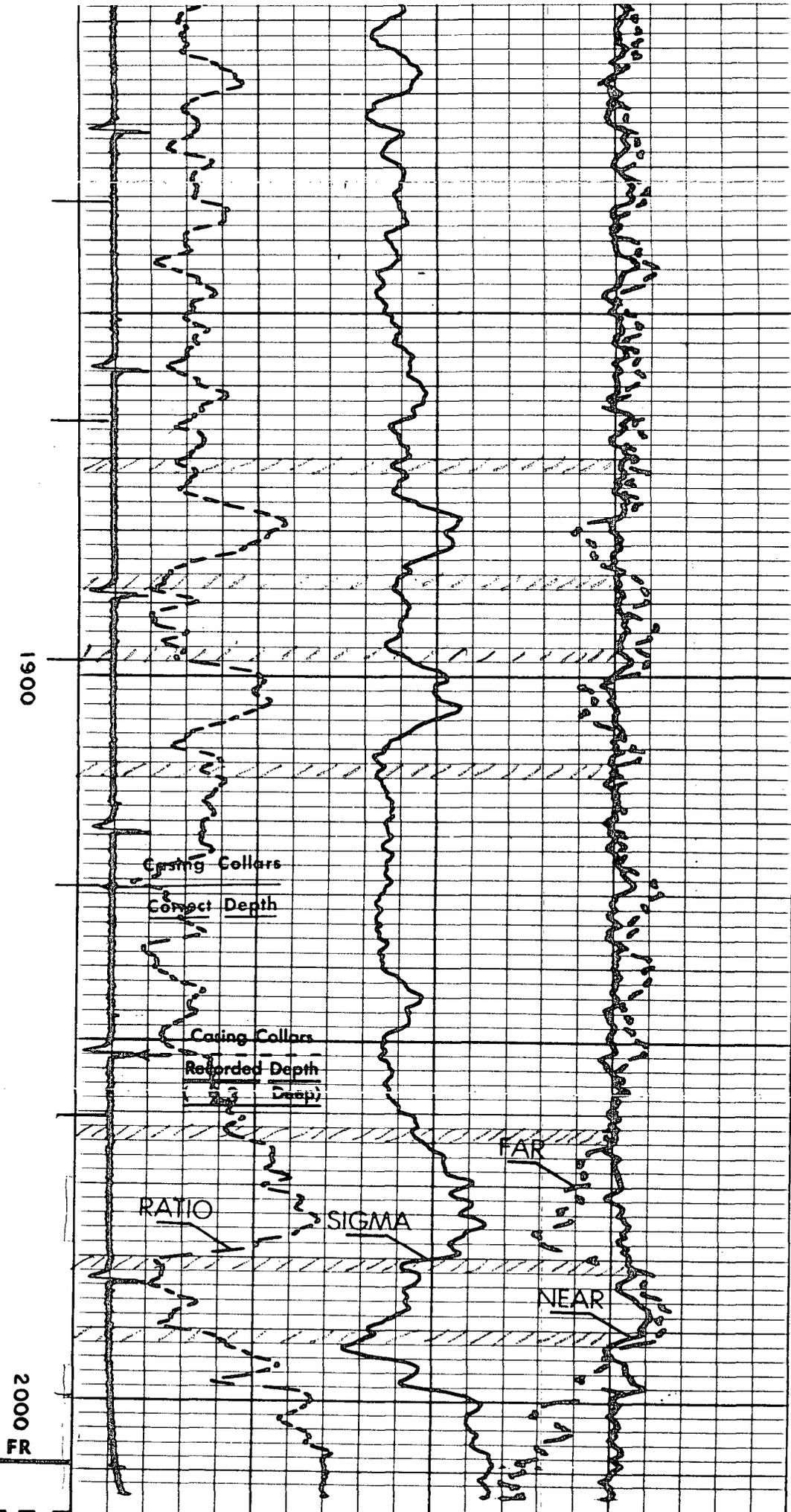
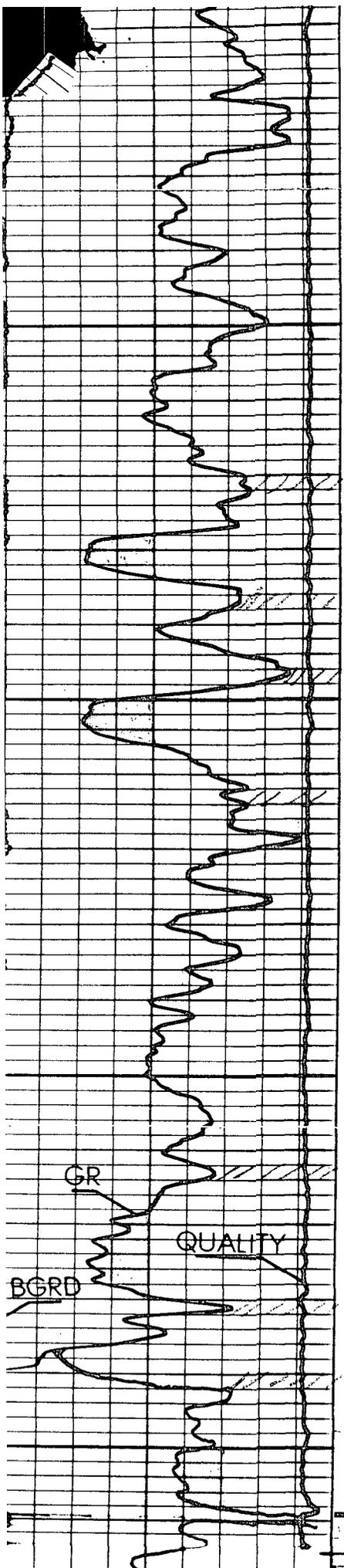
Yours very truly,

A handwritten signature in cursive script that reads "John A. Ahlm".

John A. Ahlm  
Regional Land Manager  
Exploration-Land

JAA:ld  
cc: Mr. Orville Slaughter





SCHL.  
T.D.

# C H L U M B E R G E

## MICROLOGGING

 <p style="text-align: center;">A360 M</p> <p style="text-align: center;">5875</p> <p style="text-align: center;">R.B. or G.L.: 5867</p>	<p>COMPANY: El Paso Natural Gas Co.</p> <p>WELL: #2-E Murphy</p> <p>FIELD: Aztec</p> <p>LOCATION: SW NE NW 34-30N-11W</p> <p>COUNTY: San Juan</p> <p>STATE: New Mexico</p> <p>FLING No. ....</p>	<p>COUNTY: San Juan A360-M</p> <p>FIELD OR SW NE NW</p> <p>LOCATION: 34-30N-11W</p> <p>WELL: #2-E MURPHY</p> <p>COMPANY: EL PASO NAT. GAS</p>
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RUN NO.	One				
Spading	328-55				
Spading	2189				
Spading	133				
Logs Measured	2066				
Shoe Sinker	133				
Shoe Driller	133				
Depth Reached	2202				
Shoe Driller	2202				
Shoe Driller	KB				
Shoe Driller	991				
Density	0.6				
Viscosity	120				
Resistivity	4.2 @ 61f	⊙	⊙	⊙	⊙
Resistivity BHT	2.8 @ 93f	⊙	⊙	⊙	⊙
pH	---	⊙	⊙	⊙	⊙
Water Loss	CC/30 Min	CC/30 Min	CC/30 Min	CC/30 Min	CC/30 Min
Steam Temp. °F	83				
Size	8 3/4"				
Rings - AM	2H				
A	---				
AO	1.5"				
Log Time	1 Hr				
Log No.	1786Pam				
Recorded By	Montgomery				
Checked By	Brown				

**REMARKS**  
 Micro log from 133' to 2199'  
 Insul. Sonds H pad

Spontaneous Potential millivolts	DEPTH- feet	Resistivity ohms m <sup>2</sup> /m
-   ↔   +	5" = 100'	Micro Inverse 1" x 1" 0                      20                      40
		Micro Normal 2" 0 ----- 20 ----- 40 -----
Caliper		
9 10 11 12 13 14 15 meter in inches		
	LR 133'	



I. Location: 580' FWL, 670' FNL Section 34, T-30-11W, San Juan County, N.M.

Field: Undesignated Fruitland

II. Geology:

A. Formation Tops:	Surface	San Jose
	Ojo Alamo	415'
	Kirtland	420'
	Farmington	515'
	Fruitland	1685'
	Total Depth	2057'

B. Logging Program: Induction Electric and TDF Gamma Ray at TD.

C. Coring: None

D. Samples: None

III. Drilling:

A. Mud Program: Mud from 1500' to Total Depth. Clean out existing hole to TD 1500'. Deepen hole to 2057'.

A. Casing Program:

IV. Materials

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Csg. Size</u>	<u>Wt. &amp; Grade</u>
	12 1/8"	100'	8 5/8"	12.5# H-20
	7 7/8"	1400'	4 1/2"	10.5# J-55
	3 1/4"	2057'	2 7/8"	8.0# J-55

B. Float Equipment: 2 7/8" Production Casing - Howco guide shoe and self-fill insert valve, with one centralizer on the 3rd joint from bottom.

C. Tubing: 2057' of 2 1/16" small coupling tubing with a common pump seating nipple and an expendable check valve with drill type guide.

D. Wellhead Equipment: 10" 1000 x 8 5/8" WKM Brewster Type R Casing Head with 10" x 2 7/8 Type SA Casing Hanger will be used.

V. Cementing:

Surface casing this well is a re-entry thru existing casing.

Production Casing -

2 7/8" production casing will be run inside 4 1/2" existing casing and cemented 100 sacks of 65/35 class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack and over displace to surface with water.



An Archaeological Clearance Survey of  
Three Proposed Well Locations & Access Roads  
Conducted for Orville Slaughter & Associates

Dabney Ford

Sangre De Cristo #4  
Sangre De Cristo #5  
Sangre De Cristo #6

Report 79-SJC-327  
of the  
Cultural Resource Management Program  
San Juan Campus  
New Mexico State University

15 November 1979

Report 79-SJC-327  
Permit 80-NM-004

An Archaeological Clearance Survey of  
Three Proposed Well Locations & Access Roads  
Conducted for Orville Slaughter & Associates

Dabney Ford  
Cultural Resource Management  
San Juan Campus  
New Mexico State University

15 November 1979

An Archaeological Clearance Survey of  
Three Proposed Well Locations & Access Roads  
Conducted for Orville Slaughter & Associates

On 15 November 1979, Dabney Ford from the Cultural Resource Management Program, New Mexico State University, San Juan Campus, conducted an archaeological clearance survey of three proposed well locations and access roads at the request of Mr. Orville Slaughter. Mr. Slaughter was present during the inspection of the wells which are on Public Lands administered by the Bureau of Land Management and were surveyed under Federal Antiquities permit 80-NM-004.

METHODOLOGY

Each well location was surveyed by walking parallel transects, 75 feet apart, over the 150 x 150 foot easements. The access roads were inspected by walking the routes from existing roads or wells to the proposed locations.

GENERAL RECOMMENDATIONS

No cultural resources were found and full archaeological clearance is recommended.

Proposed Well: O.S. & A. - SANGRE DE CRISTO #4

Land Status: Bureau of Land Management.

Location: The location is in the SW $\frac{1}{4}$  of the NW $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 34, Township 30 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. The well will be 670 feet from the north line and 580 feet from the west line of Section 34. (Figure 1)

Access: 300 feet long and 20 feet wide approaching the well from the south.

Area Surveyed: 0.50 acres.

Terrain: Broken mesa slope/badlands with easterly drainage, alluvial surface deposits, and sandstone outcrops.

Soil: Sandy clay.

Vegetation: Juniper, pinon, narrowleaf yucca, bitterbrush, galleta, snakeweed, indian ricegrass, rabbitbrush, prickly pear.

Cultural Resources: None found.

Recommendations: Clearance recommended.



File NSL-1126

OIL CONSERVATION COMMISSION  
Albuquerque DISTRICT

OIL CONSERVATION COMMISSION  
BOX 2088  
SANTA FE, NEW MEXICO

DATE 12-10-79

RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL ✓ \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated 11-28-79  
for the Orville S. Slaughter Sangre De Cristo #4  
Operator Lease and Well No. Unit, S-T-R

D-34-30N-1160

and my recommendations are as follows:

Approve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

RECEIVED  
DEC 12 1979  
OIL CONSERVATION DIVISION  
SANTA FE

Yours very truly,

AR Kendrick