

## OIL CONSERVATION DIVISION

P. O. Box 2088

SANTA FE, NEW MEXICO  
87501STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

ADMINISTRATIVE ORDER

NFL 8INFILL DRILLING FINDINGS AND WELL-SPACING WAIVER  
MADE PURSUANT TO SECTION 271.305(b) OF THE  
FEDERAL ENERGY REGULATORY COMMISSION REGULATIONS,  
NATURAL GAS POLICY ACT OF 1978 AND OIL CONSERVATION DIVISION  
ORDER NO. R-6013

I.

Operator AMOCO PRODUCTION CO. Well Name and No. South Mattix Unit Well No. 38  
Location: Unit A Sec. 15 Twp. 24S Rng. 37E Cty. Lea County

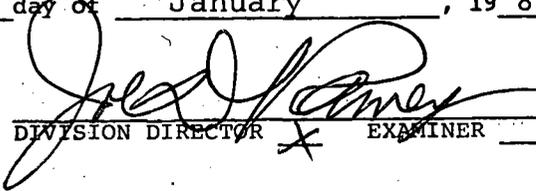
II.

THE DIVISION FINDS:

- (1) That Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, ~~and must grant a waiver of existing well-spacing requirements.~~
- (2) That by Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.
- (3) That the well for which a finding is sought is to be completed in the Fowler-Upper Yeso Pool, and the standard spacing unit in said pool is 80 acres.
- (4) That an 80 -acre proration unit comprising the E/2 NE/4 of Sec. 15, Twp. 24S, Rng. 37E, is currently dedicated to the South Mattix Unit Well No. 10 located in Unit H of said section.
- (5) That this proration unit is (X) standard ( ) nonstandard; if nonstandard, said unit was previously approved by Order No. \_\_\_\_\_.
- (6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.
- (7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 657 MMCF of gas from the proration unit which would not otherwise be recovered.
- (8) That all the requirements of Order No. R-6013 have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.
- (9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved ~~as an exception to the standard well-spacing requirements for the pool.~~

IT IS THEREFORE ORDERED:

- (1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order ~~is an exception to applicable well-spacing requirements~~ ~~and~~ is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this 3rd day of January, 19 80.

  
 DIVISION DIRECTOR  EXAMINER

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

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

ADMINISTRATIVE ORDER  
NFL 8

INFILL DRILLING FINDINGS AND WELL-SPACING WAIVER  
MADE PURSUANT TO SECTION 271.305(b) OF THE  
FEDERAL ENERGY REGULATORY COMMISSION REGULATIONS,  
NATURAL GAS POLICY ACT OF 1978 AND OIL CONSERVATION DIVISION  
ORDER NO. R-6013

I.

Operator Amoco Production Co. Well Name and No. South Matrix Unit Well No 38  
Location: Unit A Sec. 15 Twp. 24S Rng. 37E Cty. Lea County

II.

THE DIVISION FINDS:

(1) That Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, ~~and must grant a waiver of existing well spacing requirements.~~

(2) That by Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) That the well for which a finding is sought is to be completed in the Fowler-Upper Yeso Pool, and the standard spacing unit in said pool is 80 acres.

(4) That an 80-acre proration unit comprising the E/2 NE/4 of Sec. 15, Twp. 24S, Rng. 37E, is currently dedicated to the South Matrix Unit Well No 10 located in Unit H of said section.

(5) That this proration unit is () standard ( ) nonstandard; if nonstandard, said unit was previously approved by Order No. \_\_\_\_\_.

(6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.

(7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 657 M MCF of gas from the proration unit which would not otherwise be recovered.

(8) That all the requirements of Order No. R-6013 have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved ~~as an exception to the standard well spacing requirements for the pool.~~

IT IS THEREFORE ORDERED:

(1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is ~~an exception to applicable well spacing requirements~~ and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_.

DIVISION DIRECTOR \_\_\_\_\_ EXAMINER \_\_\_\_\_



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

LARRY KEHOE  
SECRETARY

November 26, 1979

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-2434

Amoco Production Co.  
P. O. Box 68  
Hobbs, New Mexico 88240

Re: Application for NGPA Infill Well  
Findings Under Provisions of  
Order No. R-6013 South Mattix  
Unit Wells Nos. 38 and 39,  
Sec. 15, T-24-S, R-37-E, Lea  
County

We may not process the subject application for infill findings until the required information, forms, or plats checked on the reverse side of this letter are submitted.

Sincerely,

R. L. STAMETS  
Technical Support Chief

RLS/dr

- A copy of Form C-101 must be submitted.
- A copy of Form C-102 must be submitted. for the Fowler Upper-Yeso Pool showing all wells on the proration unit.
- The pool name must be shown.
- The standard spacing unit size for the pool must be shown.
- Give the Division Order No. which granted the non-standard proration unit.
- Please state whether or not the well has been spudded and give the spud date, if any.
- Information relative to other wells on the proration unit is incomplete. There is no clear showing that Unit Wells No. 9 and No. 10 could not efficiently and effectively drain their respective proration units.

- The geologic and reservoir data is incomplete or insufficient. May be OK. Please have someone call me on this.

Phoned in by April Grizzel 12-19-79 OK

- Other: The map does not appear to show the same offset operators as were notified.



**Amoco Production Company**

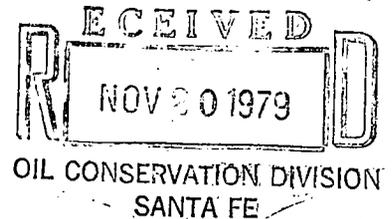
Post Office Box 68  
Hobbs, New Mexico 88240

V. E. Staley  
District Superintendent

November 14, 1979

File: VES-986.51-1011

Re: Application for Administrative Approval -  
Natural Gas Policy Act Infill Finding  
South Mattix Unit No. 38  
Fowler Upper Yeso 750' FNL and 750' FEL  
Section 15, T-24-S, R-37-E  
Lea County, New Mexico



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

Gentlemen:

Amoco Production requests your approval for the simultaneous dedication of our South Mattix Unit No. 38 in order, to effectively and efficiently drain the Fowler Upper Yeso Formation. In compliance with special rules and regulations set forth under Order No. R-6009, the following information is submitted in support of our proposal.

1. Copies of forms 9-331 (C-101) and (C-102).
2. A completion attempt will be made in the Fowler Drinkard with a dual completion in the Fowler Upper Yeso. The Fowler Drinkard has a 40 acre proration dedication while the Fowler Upper Yeso has an 80 acre proration unit.
3. The South Mattix Unit No. 38 has not been spudded. The proposed location is 750' FNL and 750' FEL of Section 15, T-24-S, R-37-E, Lea County, New Mexico.
4. One well, the South Mattix Unit No. 9, located 660' FNL and 1980' FEL of Section 15, T-24-S, R-37-E has been drilled in the proration unit. This well was spudded on March 30, 1953 and completed on August 19, 1953 in the Fowler Upper Yeso Formation. The well produced at an average rate of 4.5 BOPD and 92 MCFD during September, 1979.

November 14, 1979  
File: VES-986.51-1011  
Page 2

5. A structure map on the Fowler Upper Yeso is attached. The proposed location is shown by an arrow.
6. The memorandum which documents the incremental reserves used to justify drilling of South Mattix Unit No. 38 is attached.
7. There are three offset operators as listed below. Each has been notified of this application by certified mail.

ARCO  
Gulf Oil Company  
Exxon Oil Company

Yours very truly,

A handwritten signature in black ink, consisting of a large, stylized 'S' or 'J' shape with a horizontal line extending to the left.

Attachments

cc: S. J. Okerson, w/attachments

ARCO-Hobbs

Tenneco Oil Company-Houston

Chevron-Midland

Conoco, Inc.-Hobbs



NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

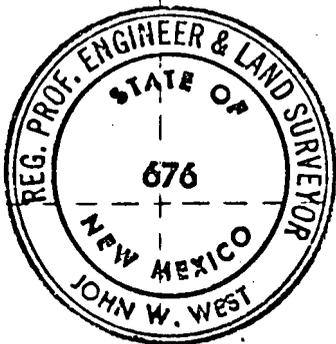
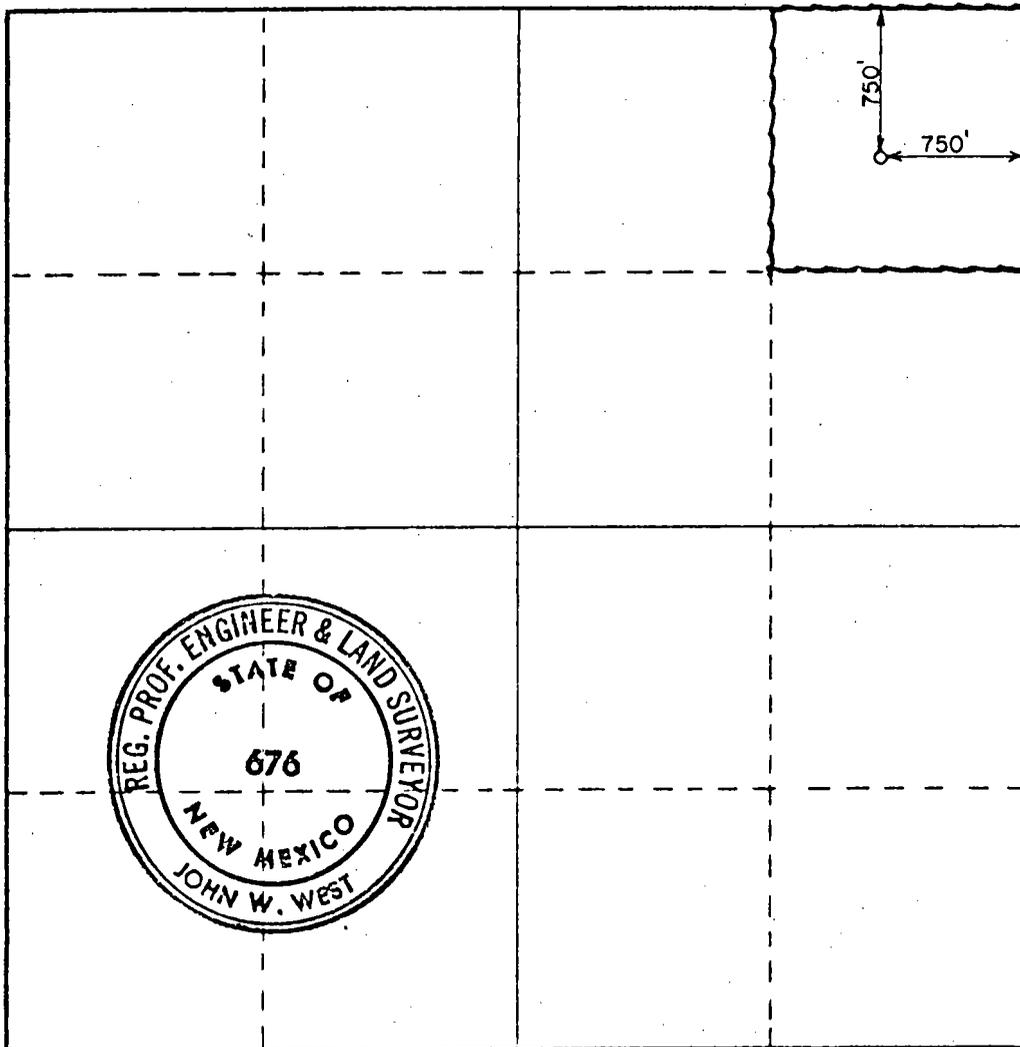
Operator <b>AMOCO PRODUCTION CO.</b>		Lease <b>South Mattix Unit</b>		Well No. <b>38</b>
Unit Letter <b>A</b>	Section <b>15</b>	Township <b>24 South</b>	Range <b>37 East</b>	County <b>Lea</b>
Actual Footage Location of Well: <b>750</b> feet from the <b>North</b> line and <b>750</b> feet from the <b>East</b> line				
Ground Level Elev. <b>3246.3</b>	Producing Formation <b>Drinkard</b>	Pool <b>Fowler Drinkard</b>	Dedicated Acreage: <b>40</b> 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.

Name: **Bob Davis**  
 Position: **Assist. Admin. Analyst**  
 Company: **Amoco Production Company**  
 Date: **11- -79**

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: **October 18, 1979**  
 Registered Professional Engineer and Land Surveyor:  
  
 Certificate No. **John W. West 676**  
**Ronald J. Eidson 3239**



POO 2884478

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO	
Exxon Company	
STREET AND NO.	
P. O. Box 1600	
P.O., STATE AND ZIP CODE	
Midland, TX 79702	
POSTAGE	\$ .28
CERTIFIED FEE	.80 <sup>c</sup>
CONSULT POSTMASTER FOR FEES	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
SHOW TO WHOM AND DATE DELIVERED	.45
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	
TOTAL POSTAGE AND FEES	\$ 1.53
POSTMARK OR DATE	

PS Form 3800, Apr. 1976



POO 2884479

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO	
Arco	
STREET AND NO.	
P. O. Box 1710	
P.O., STATE AND ZIP CODE	
Hobbs, NM 88240	
POSTAGE	\$ .28
CERTIFIED FEE	.80 <sup>c</sup>
CONSULT POSTMASTER FOR FEES	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
SHOW TO WHOM AND DATE DELIVERED	.45
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	
TOTAL POSTAGE AND FEES	\$ 1.53
POSTMARK OR DATE	

PS Form 3800, Apr. 1976



POO 2884480

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO	
Gulf Oil Company	
STREET AND NO.	
P. O. Box 1150	
P.O., STATE AND ZIP CODE	
Midland TX 79702	
POSTAGE	\$ .28
CERTIFIED FEE	.80 <sup>c</sup>
CONSULT POSTMASTER FOR FEES	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
SHOW TO WHOM AND DATE DELIVERED	.45
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	
TOTAL POSTAGE AND FEES	\$ 1.53
POSTMARK OR DATE	

PS Form 3800, Apr. 1976



*file*

November 15, 1979

File: VES-986.51-1016

Re: Simultaneous Dedication of Acreage  
South Mattix Unit Well No. 38

Gulf Oil Company  
Gulf Building  
P. O. Box 1150  
Midland, Texas 79702

Exxon Company  
P. O. Box 1600  
Midland, TX 79702

ARCO  
P. O. Box 1710  
Hobbs, NM 88240

Gentlemen:

As offset operator, we are requesting your approval for the simultaneous dedication of 80 acres to include our South Mattix Unit Well No. 38, 750' FNL and 750' FEL, and South Mattix Unit Well No. 9, 660' FNL and 1980' FEL, Section 15, T-24-S, R-37-E, Lea County, New Mexico.

We have filed, with the NMCCD in Santa Fe, an application for administrative approval of simultaneous dedication of this proration unit to permit us to effectively and efficiently drain the Fowler Upper Yeso Pool from this acreage. Please approve and return a signed copy of this letter to this office and one to the NMCCD in Santa Fe. Self-addressed envelopes are enclosed.

Yours very truly,

Approved: \_\_\_\_\_

ORIGINAL SIGNED  
BY V. E. STALEY

By: \_\_\_\_\_

Date: \_\_\_\_\_

**Enclosures**

cc: NMCCD  
P. O. Box 2088  
Santa Fe, NM 87501

Mr. S. J. Okerson  
Houston, TX

WF: South Mattix Unit Well No. 38

Houston, Texas  
November 1, 1979

Re: Transmittal of Engineering Justification  
South Mattix Unit Nos. 38 and 39  
Fowler Field  
Lea County, New Mexico

RECEIVED HOBBS DISTRICT NOV 5 1979		
DS		
DAS		
DE		
DF		
DF-PLT		
DRL-S		
SE		
AS		
File		

V. F. Staley  
Hobbs, New Mexico

Attached is the memorandum which documents the incremental reserves used to justify drilling of South Mattix Unit 38 and 39. Two copies are provided for inclusion with the filing for NGPA Classification 103.

ORIGINAL SIGNED  
S. J. OKERSON  
BY HHR

S. J. Okerson

AAG/sso  
424/C1

October 29, 1979

Re: Justification of Reserves  
South Mattix Unit 38 and 39  
Fowler Field  
Lea County, New Mexico

MEMORANDUM

Due to the very tight rock and reservoir heterogeneity of the Upper Yeso it can be illustrated that minimal reserves from an offset 40-acre location are recovered when the pressure is depleted in any developed 40-acre unit. The attached figure illustrates rapid decline in individual well pressures vs. field cumulative production and indicates limited pressure communication between the 40-acre spaced wells.

South Mattix Unit No. 27 had an initial bottom hole pressure of 1755 psi when completed in April, 1977, only 445 psi below the original reservoir bottomhole pressure of 2200 psi. This is true although the No. 27 well was drilled 15 years after the reservoir discovery and in a location offset by three essentially depleted Upper Yeso completions, South Mattix Unit 20, 22 and 14, which had cumulatives of 251 MBO, 163 MBO and 189 MBO. Wells No. 20 and 22 were completed in 1966 and Well No. 14 in 1962.

Pressure vs. well cumulative production data plotted for the three wells, South Mattix Unit Wells Nos. 1, 3, and 14, were used to quantify the drainage of an undeveloped 40-acre tract by offsetting completions. This data shows that an average of 20% of the well's reserves were produced when the well reached a bottom hole pressure of 1755 psi. It was concluded that 20% of the original reserves for the undeveloped tract had been drained by the three offsets, SMU 20, 22 and 14, and assumed for use in further work that each of the three offsetting wells had drained an equal portion (1/3 of 20% or 6.7% each).

Examination of ultimate recoveries of the structurally comparable Upper Yeso Wells in the area of the two proposed wells led to the following estimates for reserves:

Well	Ultimate Recovery	No. of Offsets x 6.7% Drainage	Ultimate Recovery Corrected for Drainage
SMU 38	110 MBO	2	95,330 BO
SMU 39	150 MBO	3	120,000 BO

*This is an ind. well drilled earlier*

*This is used to quantify what No 27 they found in well*

*Which wells & volume*

*Well No 9 Rec 124 398 Thru 1978  
" " 10 " 164 554*

The oil reserves are substantial as are the associated gas reserves shown below:

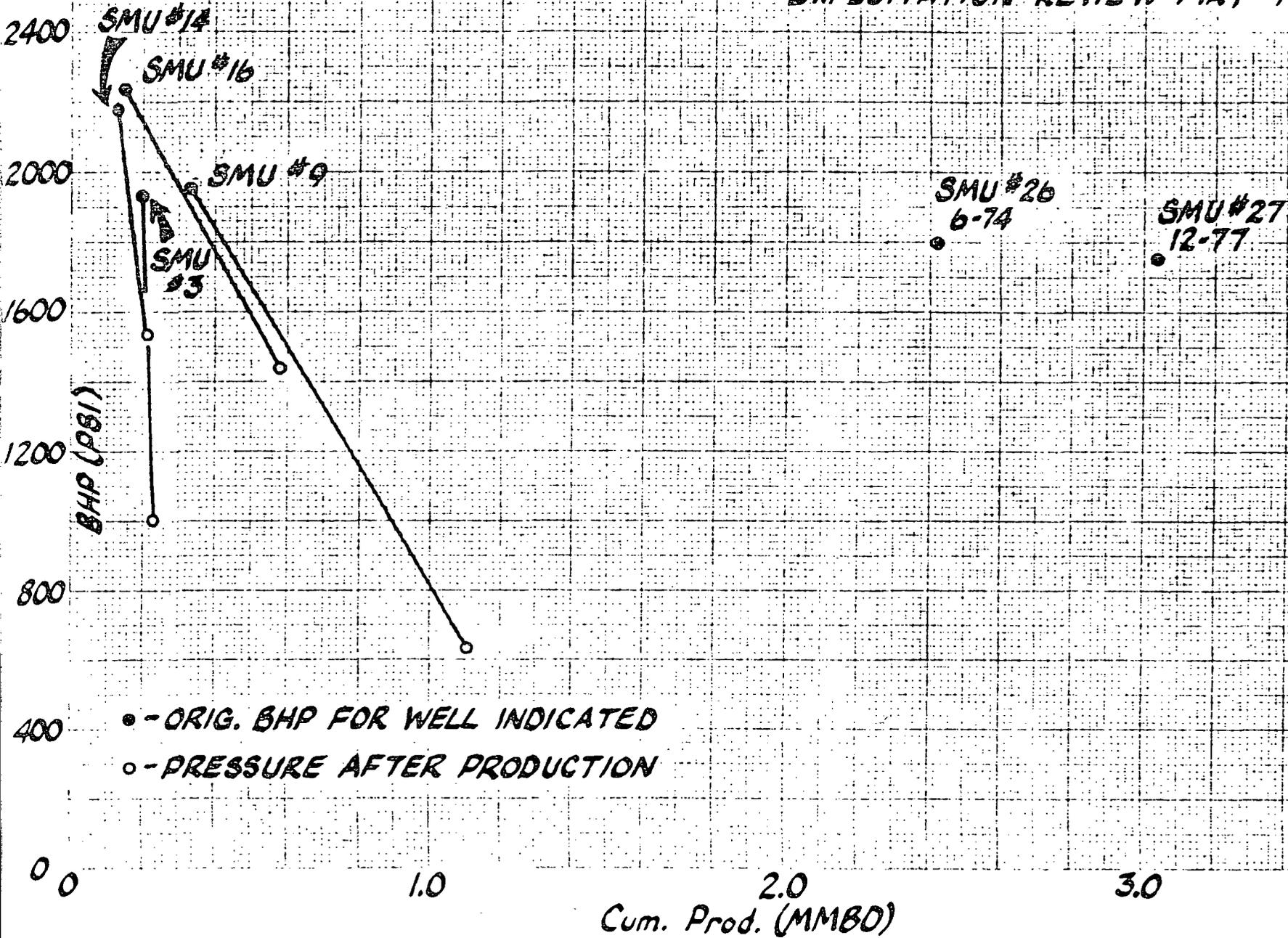
<u>Well</u>	<u>Expected Average Producing GOR</u>	<u>Oil Reserves</u>	<u>Gas Reserves</u>
SMU 38	7,000 cuft/hbl	95 MBO	657 MMCF
SMU 39	7,000 cuft/hbl	120 MBO	840 MMCF

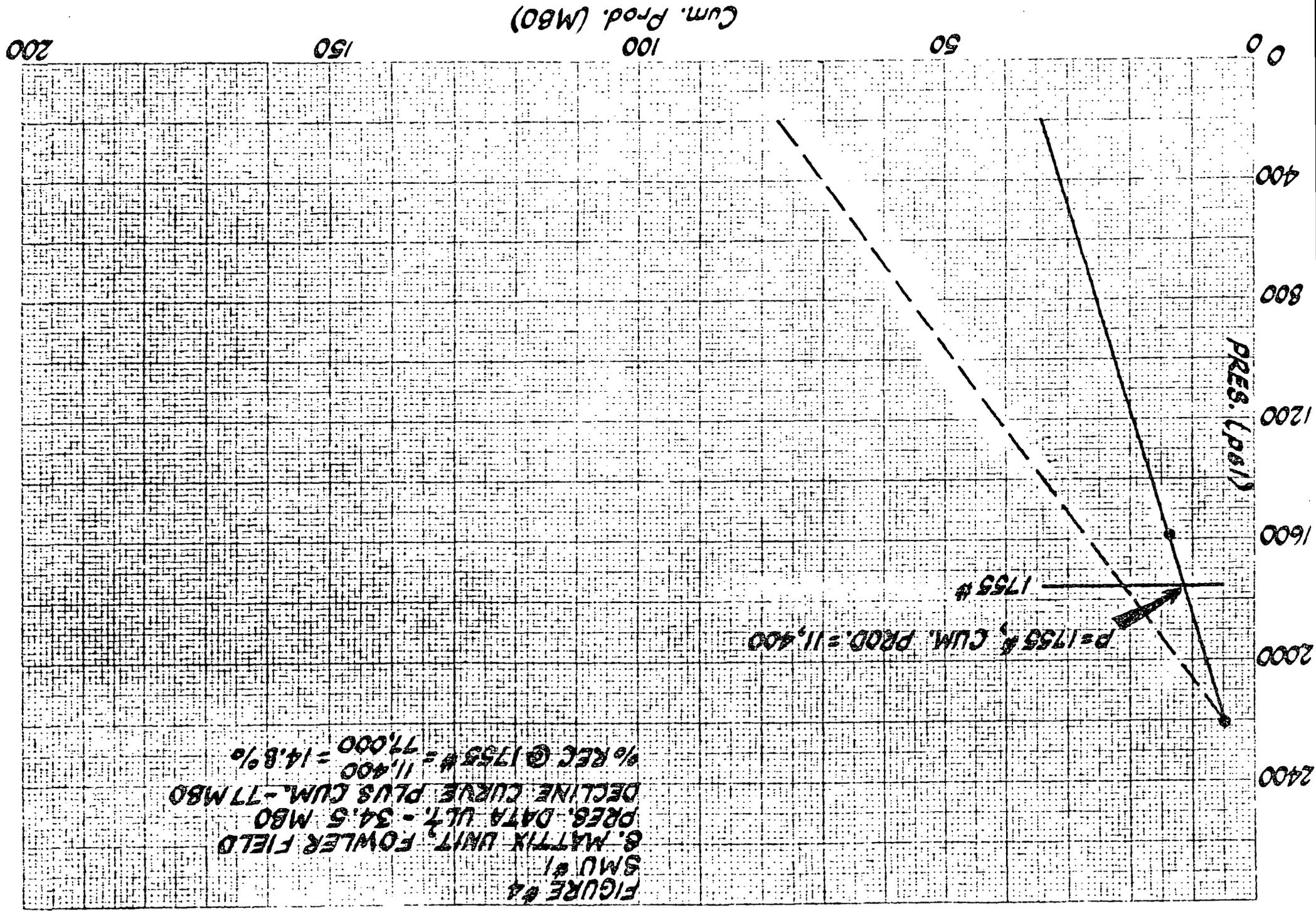
The significance of these reserves definitely warrants 40-acre development of the Upper Yeso for the two proposed locations.

April A. Grizzle

AAG/sso  
424/C2

FOWLER UPPER YESO PRESSURE DATA  
BHP vs. FIELD CUM. PROD.  
FIGURE #4  
EXPLOITATION REVIEW MAY '79





Cum. Prod. (MBO)

200

150

100

50

0

400

800

1200

1600

2000

2400

PRES. (ps)

FIGURE #4  
8MU #3  
B. MATTIX UNIT, FOWLER FIELD  
PRES. DATA ULT. - 70.5 MBO  
DECLINE CURVE PLUS CUM. - 72 MBO  
 $\% \text{ REC @ } 1755 \# = \frac{13,500}{72,000} = 18.8\%$

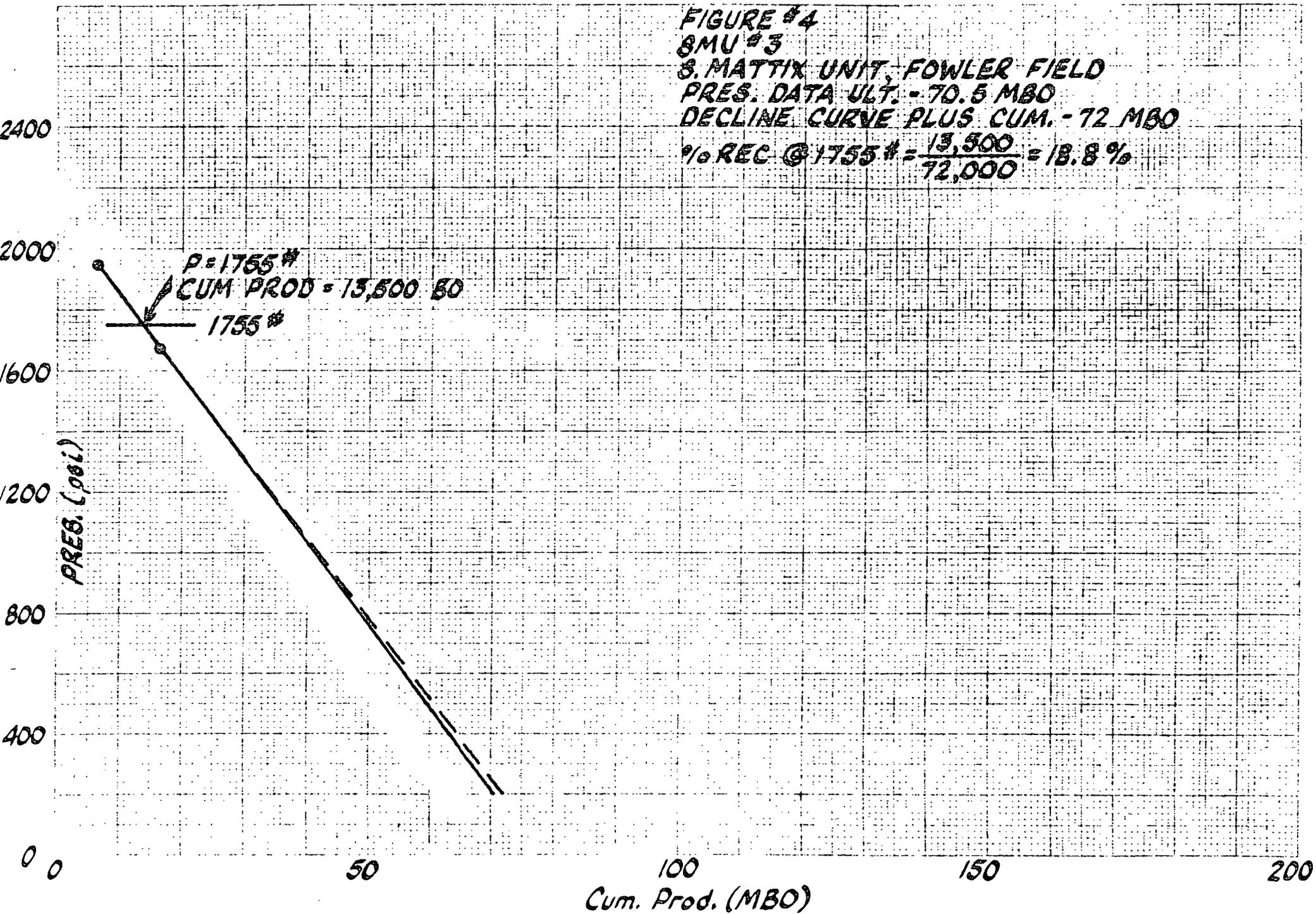
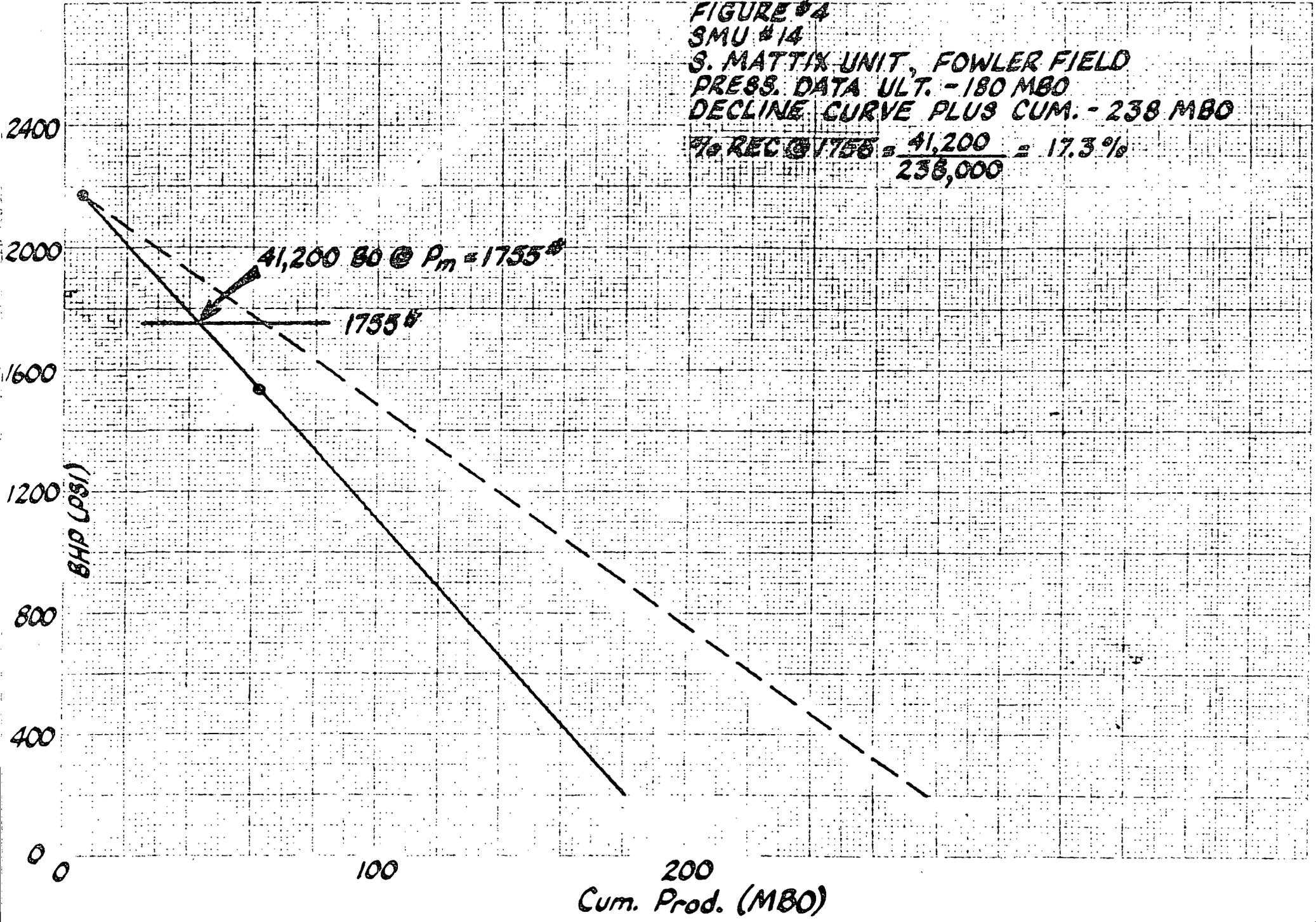
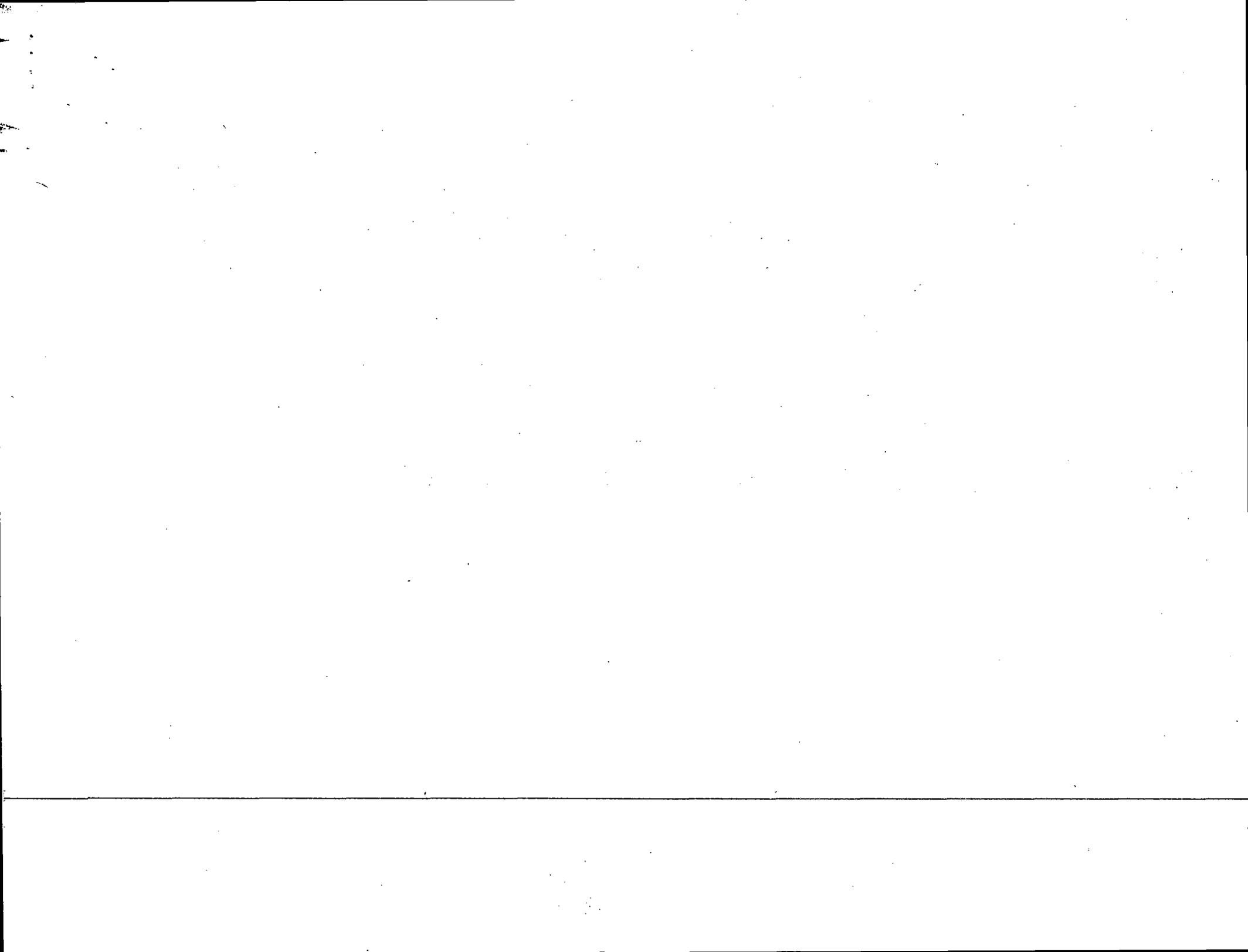


FIGURE #4  
 SMU #14  
 S. MATTIX UNIT, FOWLER FIELD  
 PRESS. DATA ULT. - 180 MBO  
 DECLINE CURVE PLUS CUM. - 238 MBO

$$\% \text{ REC @ } 1755 = \frac{41,200}{238,000} = 17.3\%$$







**Amoco Production Company**

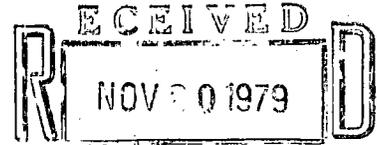
Post Office Box 68  
Hobbs, New Mexico 88240

V. E. Staley  
District Superintendent

November 15, 1979

File: VES-986.51-1016

Re: Simultaneous Dedication of Acreage  
South Mattix Unit Well No. 38



OIL CONSERVATION DIVISION  
SANTA FE

Gulf Oil Company  
Gulf Building  
P. O. Box 1150  
Midland, Texas 79702

Gentlemen:

As offset operator, we are requesting your approval for the simultaneous dedication of 80 acres to include our South Mattix Unit Well No. 38, 750' FNL and 750' FEL, and South Mattix Unit Well No. 9, 660' FNL and 1980' FEL, Section 15, T-24-S, R-37-E, Lea County, New Mexico.

We have filed, with the NMOCD in Santa Fe, an application for administrative approval of simultaneous dedication of this proration unit to permit us to effectively and efficiently drain the Fowler Upper Yeso Pool from this acreage. Please approve and return a signed copy of this letter to this office and one to the NMOCD in Santa Fe. Self-addressed envelopes are enclosed.

Yours very truly,

Approved: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_

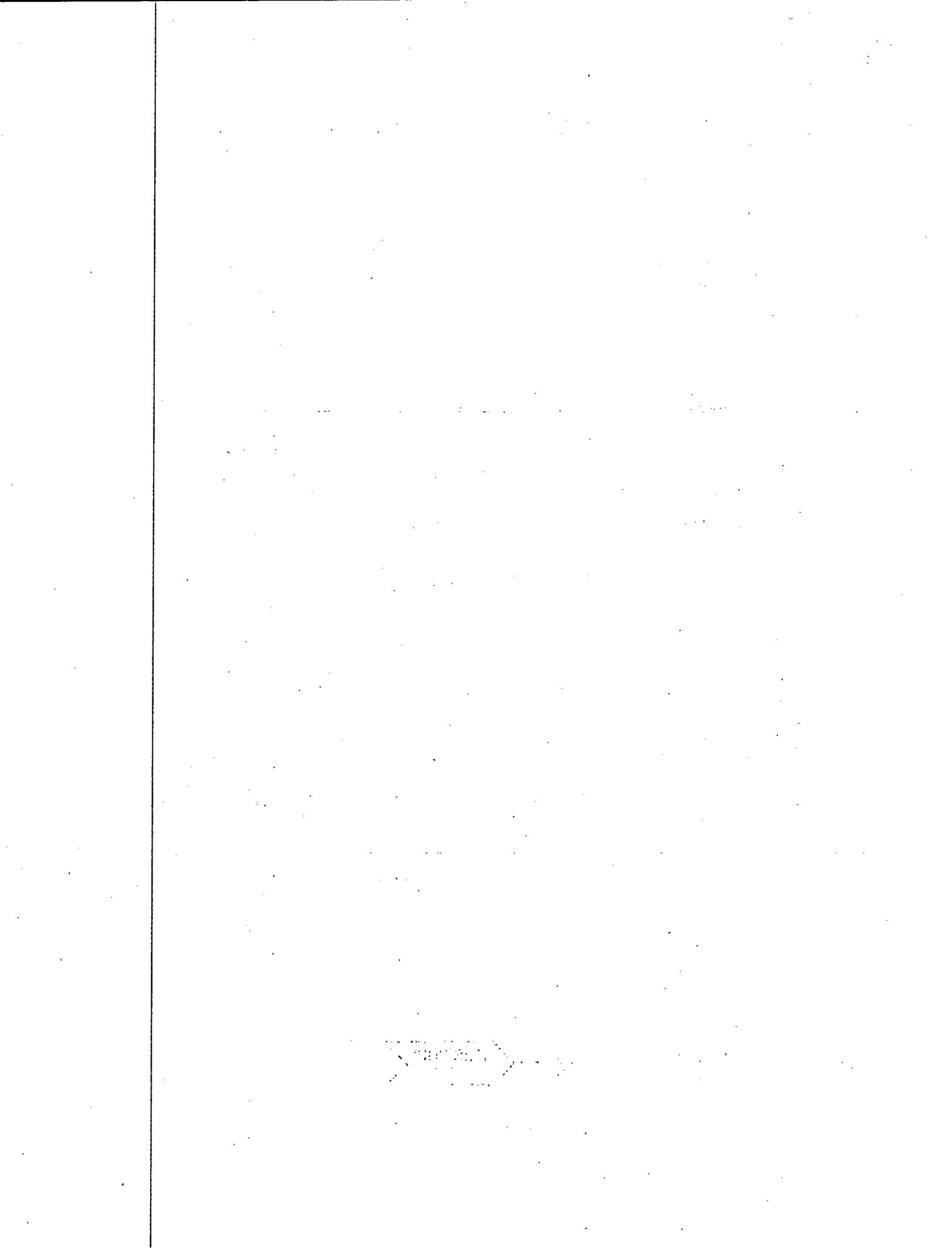
**Enclosures**

cc: NMOCD  
P. O. Box 2088  
Santa Fe, NM 87501



Mr. S. J. Okerson  
Houston, TX

WF: South Mattix Unit Well No. 38



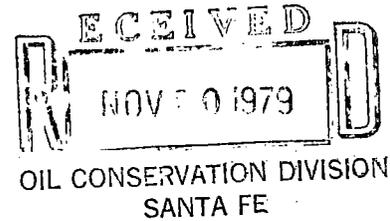


**Amoco Production Company**

Post Office Box 68  
Hobbs, New Mexico 88240

V. E. Staley  
District Superintendent

November 15, 1979



File: VES-986.51-1016

Re: Simultaneous Dedication of Acreage  
South Mattix Unit Well No. 38

ARCO  
P. O. Box 1710  
Hobbs, New Mexico 88240

Gentlemen:

As offset operator, we are requesting your approval for the simultaneous dedication of 80 acres to include our South Mattix Unit Well No. 38, 750' FNL and 750' FEL, and South Mattix Unit Well No. 9, 660' FNL and 1980' FEL, Section 15, T-24-S, R-37-E, Lea County, New Mexico.

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Yours very truly,

Approved: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_

Enclosures

cc: NMOCD  
P. O. Box 2088  
Santa Fe, NM 87501



Mr. S. J. Okerson  
Houston, TX

WF: South Mattix Unit Well No. 38



**Amoco Production Company**

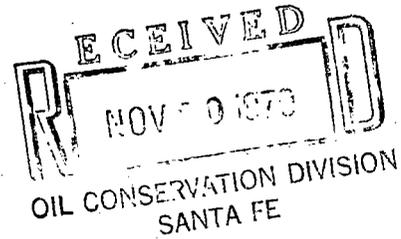
Post Office Box 68  
Hobbs, New Mexico 88240

V. E. Staley  
District Superintendent

November 15, 1979

File: VES-986.51-1016

Re: Simultaneous Dedication of Acreage  
South Mattix Unit Well No. 38



Exxon Company  
P. O. Box 1600  
Midland, Texas 79702

Gentlemen:

As offset operator, we are requesting your approval for the simultaneous dedication of 80 acres to include our South Mattix Unit Well No. 38, 750' FNL and 750' FEL, and South Mattix Unit Well No. 9, 660' FNL and 1980' FEL, Section 15, T-24-S, R-37-E, Lea County, New Mexico.

We have filed, with the NMOCD in Santa Fe, an application for administrative approval of simultaneous dedication of this proration unit to permit us to effectively and efficiently drain the Fowler Upper Yeso Pool from this acreage. Please approve and return a signed copy of this letter to this office and one to the NMOCD in Santa Fe. Self-addressed envelopes are enclosed.

Yours very truly,

Approved: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_

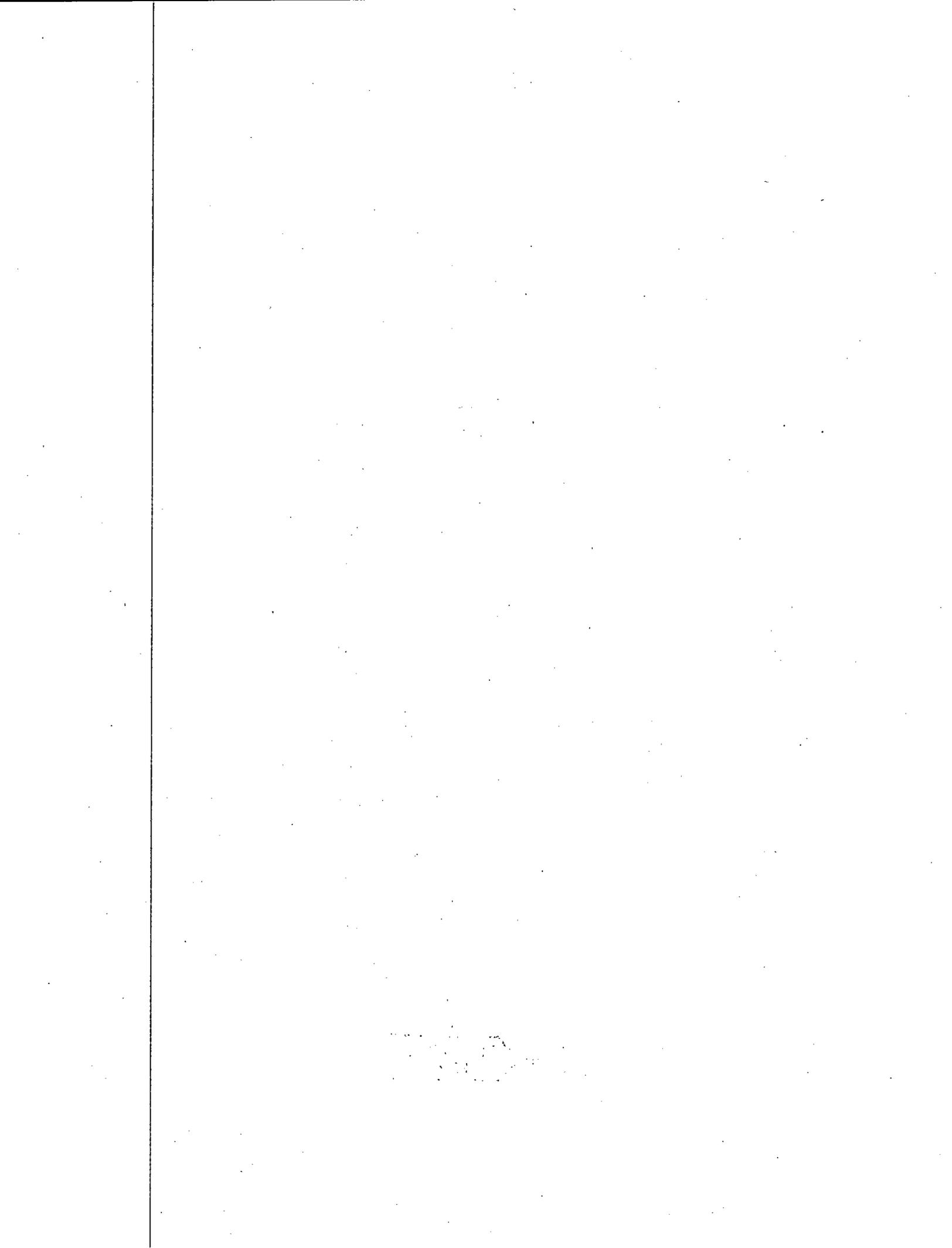
**Enclosures**

cc: NMOCD  
P. O. Box 2088  
Santa Fe, NM 87501



Mr. S. J. Okerson  
Houston, TX

WF: South Mattix Unit Well No. 38





**Amoco Production Company**

Post Office Box 68  
Hobbs, New Mexico 88240

V. E. Staley  
District Superintendent

November 15, 1979

File: VES-986.51-1016

*NFL*

Re: Simultaneous Dedication of Acreage  
South Mattix Unit Well No. 38

ARCO  
P. O. Box 1710  
Hobbs, New Mexico 88240

Gentlemen:

As offset operator, we are requesting your approval for the simultaneous dedication of 80 acres to include our South Mattix Unit Well No. 38, 750' FNL and 750' FEL, and South Mattix Unit Well No. 9, 660' FNL and 1980' FEL, Section 15, T-24-S, R-37-E, Lea County, New Mexico.

We have filed, with the NMOCD in Santa Fe, an application for administrative approval of simultaneous dedication of this proration unit to permit us to effectively and efficiently drain the Fowler Upper Yeso Pool from this acreage. Please approve and return a signed copy of this letter to this office and one to the NMOCD in Santa Fe. Self-addressed envelopes are enclosed.

Yours very truly,

Approved: *Arthur Malara*

By: ARCO OIL & GAS CO

Date: November 26 1979

Enclosures

cc: NMOCD  
**RECEIVED** Box 2088  
Santa Fe, NM 87501  
NOV 29 1979  
Mr. S. J. Okerson  
Houston, TX  
OIL CONSERVATION DISTRICT  
SANTA FE  
WF: South Mattix Unit Well No. 38





**Amoco Production Company**

Post Office Box 68  
Hobbs, New Mexico 88240

V. E. Staley  
District Superintendent

November 14, 1979

File: VES-986.51-1011

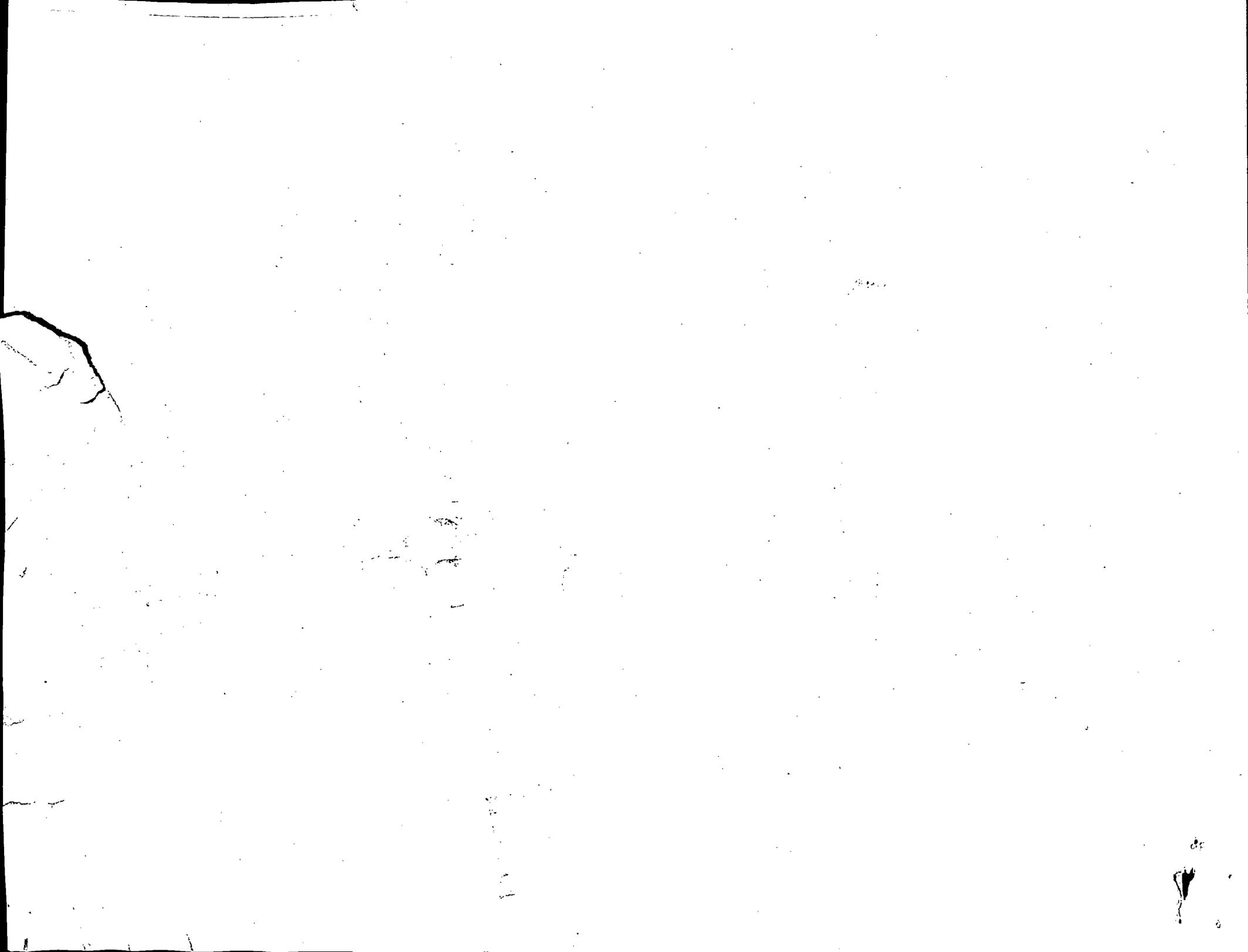
Re: Application for Administrative Approval  
Natural Gas Policy Act Infill Finding  
South Mattix Unit No. 38  
Fowler Upper Yeso 750' FNL and 750' FEL  
Section 15, T-24-S, R-37-E  
Lea County, New Mexico

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

Gentlemen:

Amoco Production requests your approval for the simultaneous dedication of our South Mattix Unit No. 38 in order, to effectively and efficiently drain the Fowler Upper Yeso Formation. In compliance with special rules and regulations set forth under Order No. R-6009, the following information is submitted in support of our proposal.

1. Copies of forms 9-331 (C-101) and (C-102).
2. A completion attempt will be made in the Fowler Drinkard with a dual completion in the Fowler Upper Yeso. The Fowler Drinkard has a 40 acre proration dedication while the Fowler Upper Yeso has an 80 acre proration unit.
3. The South Mattix Unit No. 38 has not been spudded. The proposed location is 750' FNL and 750' FEL of Section 15, T-24-S, R-37-E, Lea County, New Mexico.
4. One well, the South Mattix Unit No. 9, located 660' FNL and 1980' FEL of Section 15, T-24-S, R-37-E has been drilled in the proration unit. This well was spudded on March 30, 1953 and completed on August 19, 1953 in the Fowler Upper Yeso Formation. The well produced at an average rate of 4.5 BOPD and 92 MCFD during September, 1979.



November 14, 1979  
File: VES-986.51-1011  
Page 2

5. A structure map on the Fowler Upper Yeso is attached. The proposed location is shown by an arrow.
6. The memorandum which documents the incremental reserves used to justify drilling of South Mattix Unit No. 38 is attached.
7. There are three offset operators as listed below. Each has been notified of this application by certified mail.

ARCO  
Gulf Oil Company  
Exxon Oil Company

Yours very truly,

A handwritten signature in black ink, consisting of a large, stylized 'S' or 'J' shape with a horizontal line extending to the left.

Attachments

cc: S. J. Okerson, w/attachments

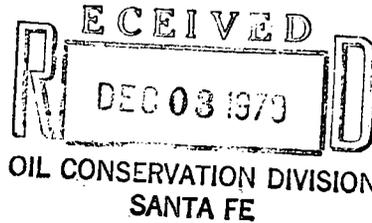
ARCO-Hobbs

Tenneco Oil Company-Houston

Chevron-Midland

Conoco, Inc.-Hobbs





Amoco Production Company

Post Office Box 68  
Hobbs, New Mexico 88240

V. E. Staley  
District Superintendent

November 15, 1979

File: VES-986.51-1016

Re: Simultaneous Dedication of Acreage  
South Mattix Unit Well No. 38

Gulf Oil Company  
Gulf Building  
P. O. Box 1150  
Midland, Texas 79702

Gentlemen:

As offset operator, we are requesting your approval for the simultaneous dedication of 80 acres to include our South Mattix Unit Well No. 38, 750' FNL and 750' FEL, and South Mattix Unit Well No. 9, 660' FNL and 1980' FEL, Section 15, T-24-S, R-37-E, Lea County, New Mexico.

We have filed, with the NMOCD in Santa Fe, an application for administrative approval of simultaneous dedication of this proration unit to permit us to effectively and efficiently drain the Fowler Upper Yeso Pool from this acreage. Please approve and return a signed copy of this letter to this office and one to the NMOCD in Santa Fe. Self-addressed envelopes are enclosed.

Yours very truly,

Approved: Gulf Oil Corp.

By: D. T. Berlin  
D. T. Berlin, Manager-Engineering

Date: November 28, 1979

Enclosures

cc: NMOCD  
P. O. Box 2088  
Santa Fe, NM 87501

Mr. S. J. Okerson  
Houston, TX

WF: South Mattix Unit Well No. 38



**Amoco Production Company**

Post Office Box 68  
Hobbs, New Mexico 88240

V. E. Staley  
District Superintendent

RECEIVED  
DEC 07 1979  
OIL CONSERVATION DIVISION  
SANTA FE

November 15, 1979

File: VES-986.51-1016

Re: Simultaneous Dedication of Acreage  
South Mattix Unit Well No. 38

Exxon Company  
P. O. Box 1600  
Midland, Texas 79702

Gentlemen:

As offset operator, we are requesting your approval for the simultaneous dedication of 80 acres to include our South Mattix Unit Well No. 38, 750' FNL and 750' FEL, and South Mattix Unit Well No. 9, 660' FNL and 1980' FEL, Section 15, T-24-S, R-37-E, Lea County, New Mexico.

We have filed, with the NMOCD in Santa Fe, an application for administrative approval of simultaneous dedication of this proration unit to permit us to effectively and efficiently drain the Fowler Upper Yeso Pool from this acreage. Please approve and return a signed copy of this letter to this office and one to the NMOCD in Santa Fe. Self-addressed envelopes are enclosed.

Yours very truly,

Approved: \_\_\_\_\_  
EXXON COMPANY U.S.A.  
(A DIVISION OF EXXON CORPORATION)  
By: \_\_\_\_\_  
Date: \_\_\_\_\_

Enclosures

cc: NMOCD  
P: O. Box 2088  
Santa Fe, NM 87501

Mr. S. J. Okerson  
Houston, TX

WF: South Mattix Unit Well No. 38

APPROVED EXXON CORPORATION

BY [Signature]

DATE 12/3/79

SOUTH MATTIX UNIT WELL NO. 10

UPPER YESO COMPLETION HISTORY

NOTE: Prior to July 15, 1970, when the two pools were combined to create the Fowler (Upper Yeso) Pool, the Fowler (Lower Paddock) and Fowler (Blinebry) were treated as two separate completions.

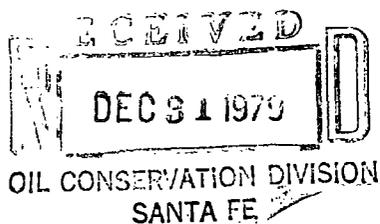
10-24-64: Abandoned Paddock gas perf and completed in Fowler (Blinebry). Set retainer at 4200' and squeezed Paddock perf 4878-94 W/150 sacks Incor. Drilled retainer at 4800' and cement to 6000'. Set cast-iron bridge plug at 5820'. Perforated intervals: 5424-34, 5456-60, 5470-72, 5488-5501, 5516-18, 5558-62, 5598-5601, 5614-18, 5664-72, 5690-92 W/2 JSPF. Acidized with 2000 gallons LSTNE acid and placed on production on PT - Flowed 28 BO x 4 BW on 26/64" choke. Notes - Well operating 5 hours a day on intermitter.

9-4-67: Running liner to shut off water production from casing leak. Cleaned out to 5820' and ran 4 1/2" - 9.5# J-55 casing to 5820' inside 7" casing. Cemented W/185 sacks INCOR Neat. TCMT-3795'. Cleaned out to 5775'. Perforated Blinebry interval 5424-34, 5456-60, 5470-72, 5498-5501, 5516-18, 5550-62, 5598-5601, 5614-18, 5664-72, 5690-92 W/2JSPF and acidized 2000 gallons 15% LSTNE Acid. Fraced Blinebry with 40,000 gallons gelled Brine water and 60,000# 20-40 sand tailed in 4000# Glass Beads. PPWO: 3BOPD GOR 1925. PAWO: Flowed 143 BO x 16 BWON 22/64" choke.

4-10-73: Perforated additional intervals 5181-86, 5189, 5210, 5231-33, 5244-48, 5251-56, 5261-66, 5274, 5280, 5293-5300, 5304, 5310-15, 5332-5337, 5352-54, 5368-70, 5378-80 with 26SPF. Acidized perfs with 750 gallons 15% NE acid and fracked with 63,300 gallons Gelled Brine and 81000# sand. Placed back on production. PPWO - Pumped 21 BOPD x 3 BWPD x 85 MCFPD PAWO - Flowed 182 BOPD x 123 BWPD.

3-22-78: Acidized perf 5181-5623 with 2000 gallons 15% DS-30 acid PPWO-15 BO x 36 BW PAWO - Pumped 43 BOX 11 BW/D

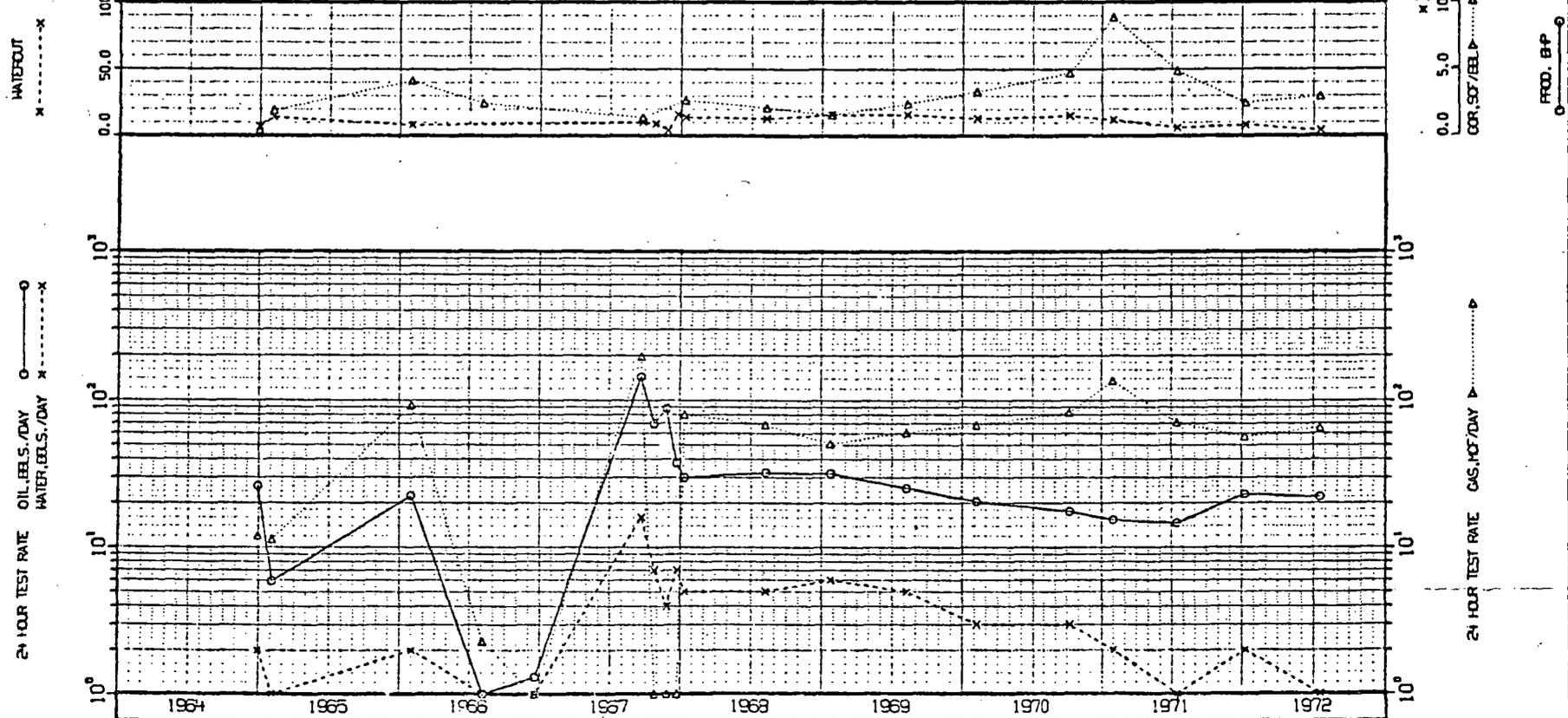
AG/1p  
4/398



RECEIVED  
 DEC 31 1979  
 OIL CONSERVATION  
 SANTA FE

WELL TEST DATA 09-01-79

DATE	TIME	TEST	PSIG	CYCLE TIME	CHOKED	GFR (MCF/BEU)
09/01/79	00:00	10	22.22	12	0	2.6
09/01/79	00:00	10	22.22	12	0	2.6
09/01/79	00:00	10	22.22	12	0	2.6
09/01/79	00:00	10	22.22	12	0	2.6
09/01/79	00:00	10	22.22	12	0	2.6
09/01/79	00:00	10	22.22	12	0	2.6
09/01/79	00:00	10	22.22	12	0	2.6
09/01/79	00:00	10	22.22	12	0	2.6
09/01/79	00:00	10	22.22	12	0	2.6
09/01/79	00:00	10	22.22	12	0	2.6



DIVISION NO - 4 HOUSTON  
 OPER AREA - 63 HOEGS  
 OPERATOR - AMOCO PRODUCTION COMPANY  
 MAIL TO LOC. NO. - 4JE

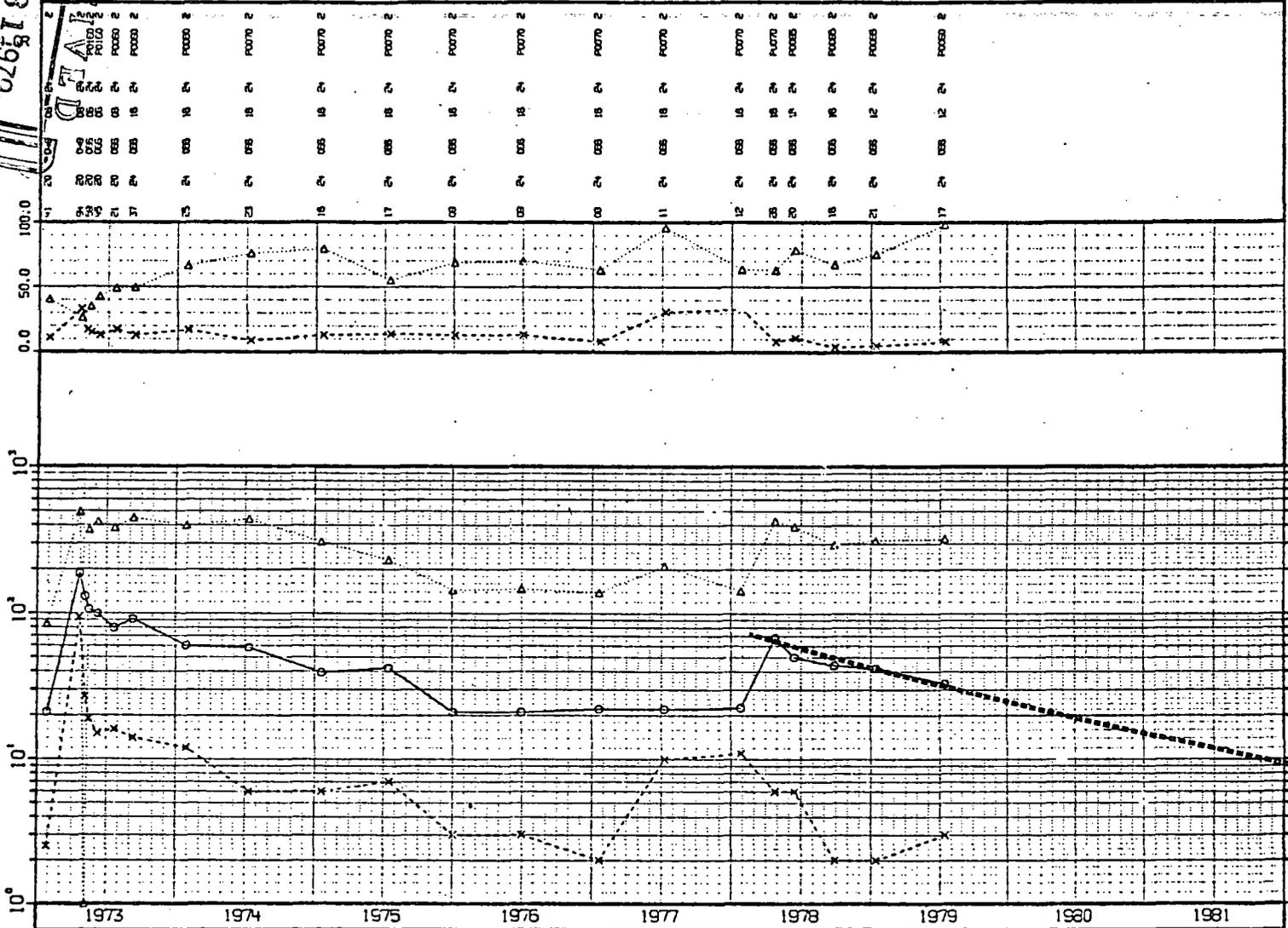
COMPLETION ZONE NAME - YESO, LP  
 STATE-REG FIELD/POOL - 30 4075 FOWLER-YESO, UPPER  
 FLAC(L/U) - 330316 SOUTH MATTIX UNIT FEDERAL  
 NAME - DONALD W FLENOY 7 MAIL CODE/ROOM - 27

FLAC(HELL)-HOR - 624834-03  
 COMPLETION-DATE - 12-00-64  
 LEASE WELL NO - 010415  
 JOB REQUEST - 005-11

OIL CONSERVATION  
 RECEIVED  
 DEC 31 1979

WELL TEST DATA 09-01-79

STATUS: ON PRODUCTION  
 WELL: YESO, UP  
 PROD. PER HOUR: 10.0  
 SPH: 10.0  
 TBC. OF STRONG: 10.0  
 DIA. PUMP 16116  
 VOL. EFF.



INPUT PS10 (1)  
 CYCLE TIME  
 Q. 0-04  
 6-17-6  
 INPUT GFR (MCF/BBL.)  
 10.0  
 5.0  
 0.0  
 COR. STD/BBL

WATERFOOT  
 -----x

24 HOUR TEST RATE OIL BBL./DAY  
 WATER BBL./DAY x

24 HOUR TEST RATE GAS MCF/DAY  
 -----▲

DIVISION NO - 4 HOUSTON  
 OPER AREA - 63 HOESB  
 OPERATOR - AMOCO PRODUCTION COMPANY  
 MAIL TO LOC. NO. - 4JE

COMPLETION ZONE NAME - YESO, UP  
 STATE-REG FIELD/POOL - 30 4075 FOWLER-YESO, UPPER  
 FLACIL(1) - 392916 SOUTH MATTIX UNIT FEDERAL  
 NAME - DONALD W FLENOY 7 MAIL CODE/ROOM - 27

FLAC(HELL)-HOR - 924834-03  
 COMPLETION DATE - 12-00-64  
 LEASE WELL NO - 010415  
 JOB REQUEST - 005-11