

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.

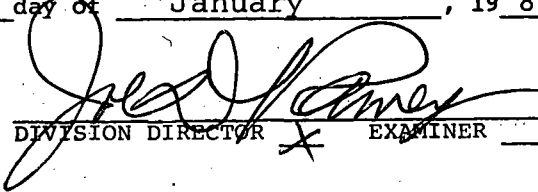
(9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved ~~as an exception to the standard well-spacing requirements for the pool.~~

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 X 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 (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 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

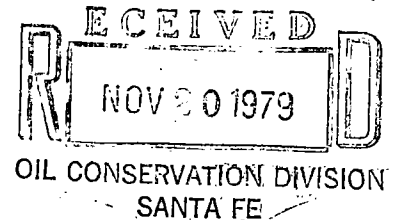
Post Office Box 68
Hobbs, New Mexico 88240

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

P. O. Box 68, Hobbs, NM 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface 750' FNL & 750' FEL, Sec. 15
(Unit A, NE/4 NE/4)

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

6 miles North and 3-1/2 miles East Jal, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

-

16. NO. OF ACRES IN LEASE

-

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

-

19. PROPOSED DEPTH

6400'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3246.3 GL

22. APPROX. DATE WORK WILL START*

11-20-79

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	1100'	Circ to Surf.
8-3/4"	7"	23# & 26#	6400'	Circ to Surf. Tie back

Propose to drill and equip well in the Drinkard zone. After reaching TD logs will be run and evaluated; perforate and/or stimulate as necessary in attempting commercial production. After evaluation of logs, may attempt a dual completion in the Fowler Upper Yeso.

Mud Program: 0-1100' Native mud and fresh water.
1100'-TD Native mud and brine and enough commercial
mud to maintain good hole conditions.

BOP Program Attached
Archaeological Survey Attached

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Bob Davis

TITLE

Assist. Administrative Analyst

11-6-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

0+4-USGS-H, 1-Hou, 1-Susp, 1-BD

*See Instructions On Reverse Side

**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

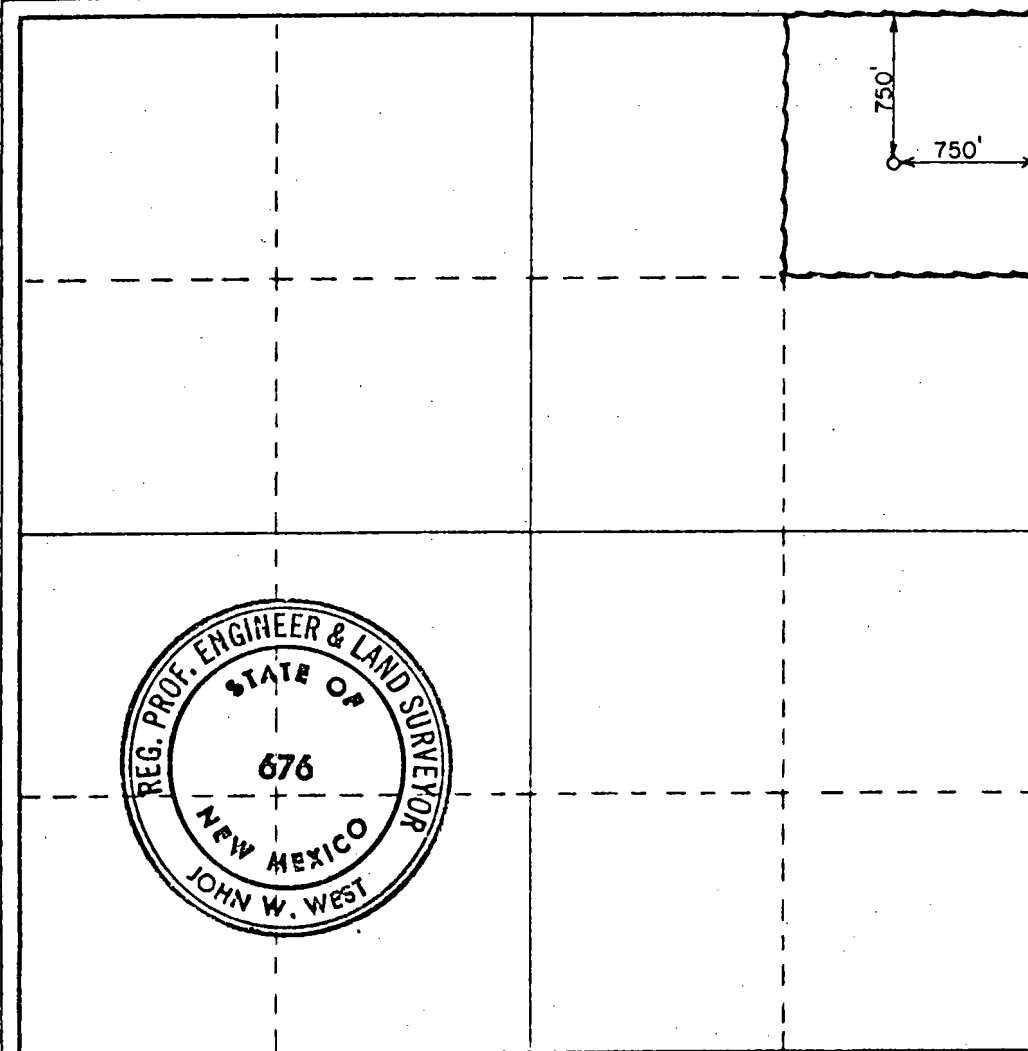
Operator AMOCO PRODUCTION CO.			Lease South Mattix Unit		Well No. 38
Unit Letter A	Section 15	Township 24 South	Range 37 East	County Lea	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between; align-items: center;"> 750 feet from the North line and 750 feet from the East line </div>					
Ground Level Elev. 3246.3	Producing Formation Drinkard		Pool Fowler Drinkard		Dedicated Acreage: 40 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

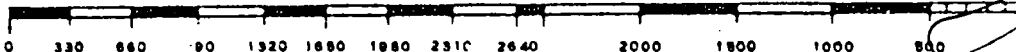
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
October 18, 1979

Registered Professional Engineer and Land Surveyor

John W. West

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
SPECIAL DELIVERY			
RESTRICTED DELIVERY			
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
SPECIAL DELIVERY			
RESTRICTED DELIVERY			
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
SPECIAL DELIVERY			
RESTRICTED DELIVERY			
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 NMOC 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 Yesso Pool from this acreage. Please approve and return a signed copy of this letter to this office and one to the NMOC in Santa Fe. Self-addressed envelopes are enclosed.

Yours very truly,

Approved: _____

ORIGINAL SIGNED
BY V. E. STALEY

By: _____

Date: _____

Enclosures

cc: NMOC
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

Well No 9 Rec 124398 Thru 1978
" " 10 " 164554

Which wells
& volume

This is
an infill well
drilled
earlier

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

Page 2
October 29, 1979

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

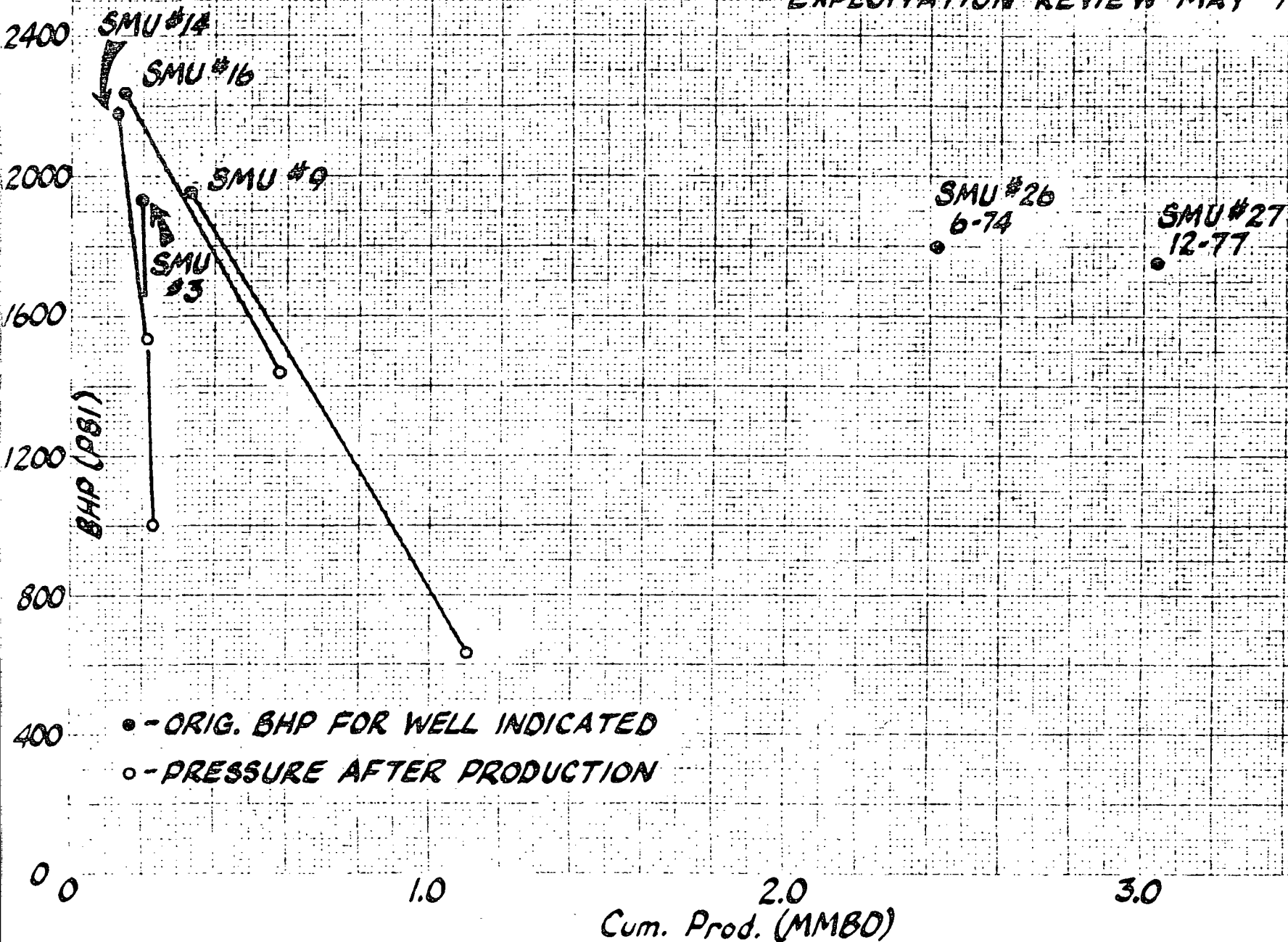
<u>Well</u>	<u>Expected Average Producing GOR</u>	<u>Oil Reserves</u>	<u>Gas Reserves</u>
SMU 38	7,000 cuft/bbl	95 MBO	657 MMCF
SMU 39	7,000 cuft/bbl	120 MBO	840 MMCF

The significance of these reserves definitely warrants 40-acre development of the Upper Yezo 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



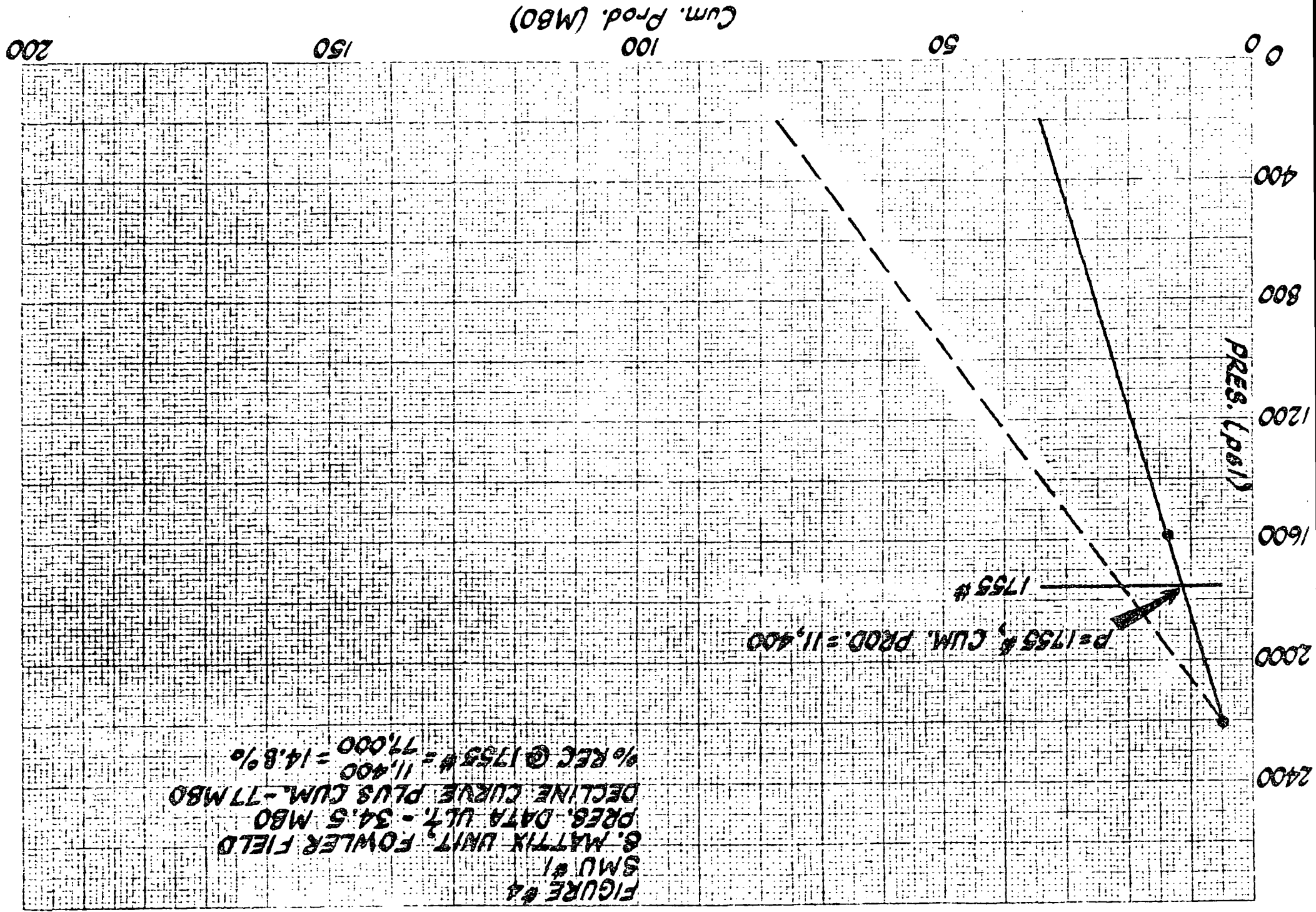


FIGURE #4

8MU #3

8. MATTIX UNIT, FOWLER FIELD

PRES. DATA ULT. - 70.5 MBO

DECLINE CURVE PLUS CUM. - 72 MBO

% REC @ 1755 # = $\frac{13,500}{72,000} = 18.8\%$

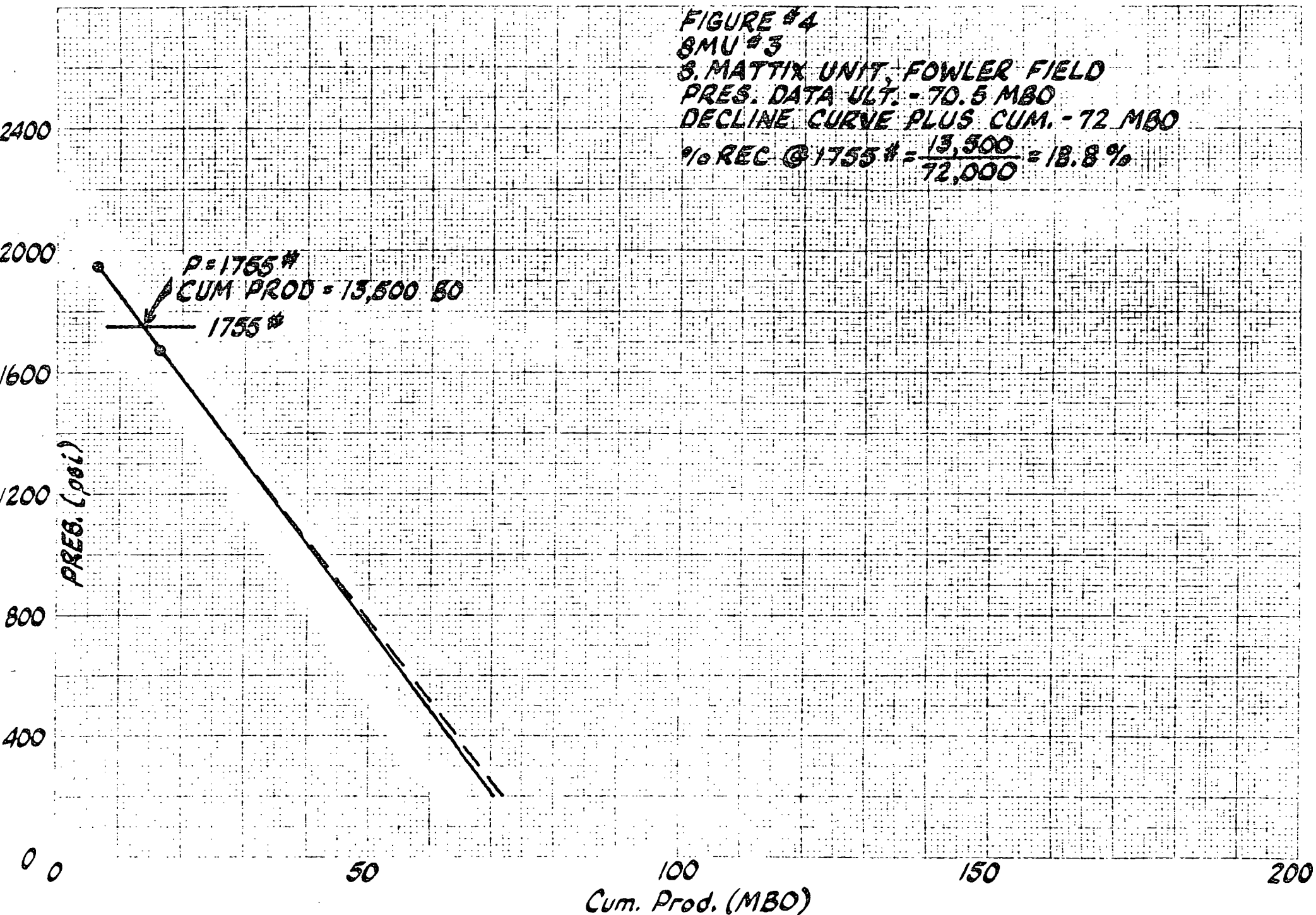


FIGURE #4

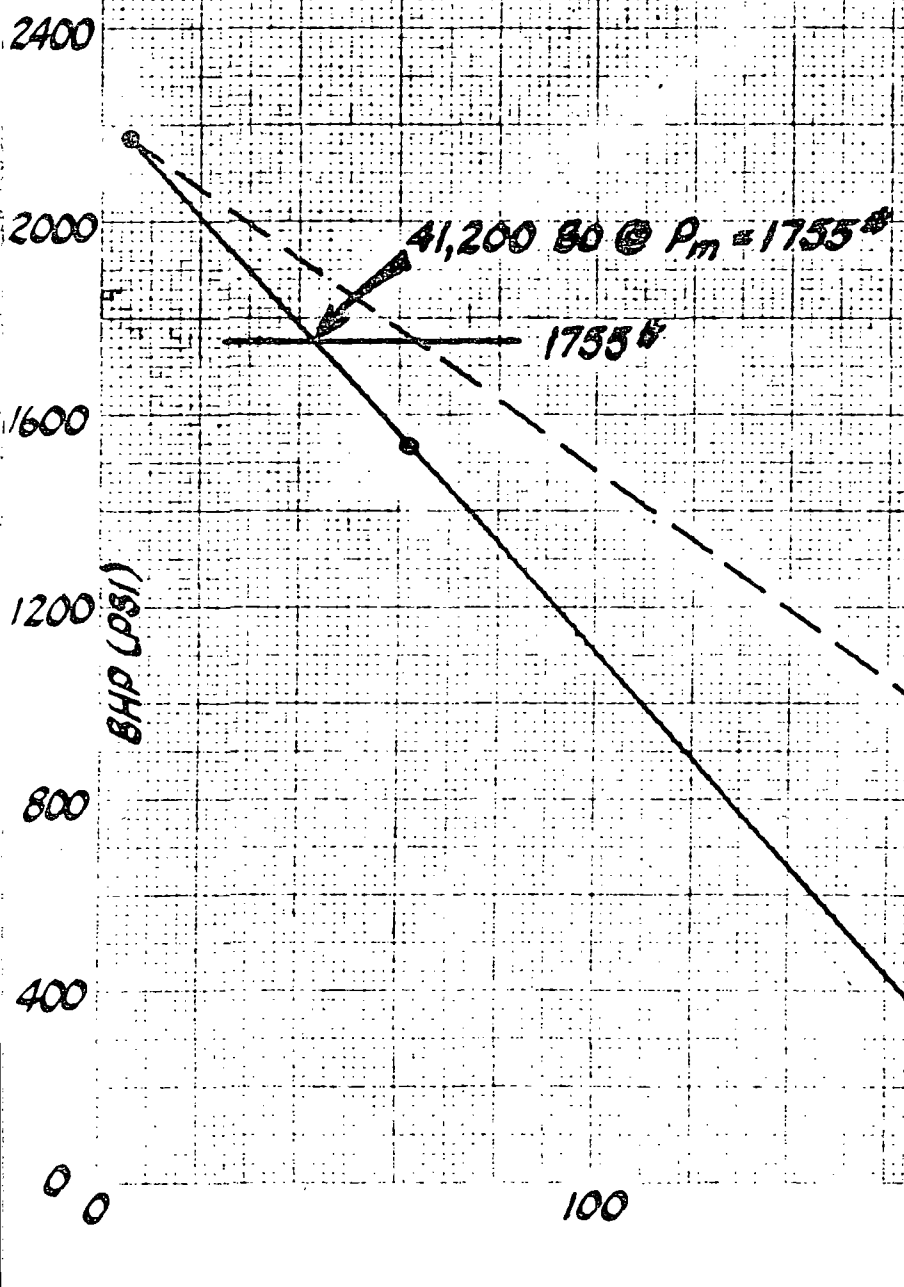
SMU #14

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

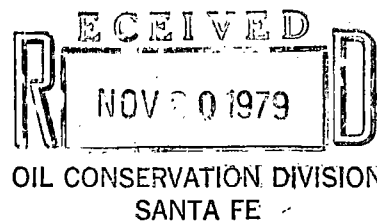
Post Office Box 68
Hobbs, New Mexico 88240

V. E. Staley
District Superintendent

November 15, 1979

File: VES-986.51-1016

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



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

THIS COPY
FOR

Mr. S. J. Okerson
Houston, TX

WF: South Mattix Unit Well No. 38



Amoco Production Company

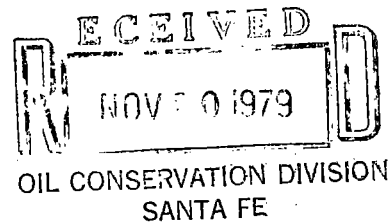
Post Office Box 68
Hobbs, New Mexico 88240

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

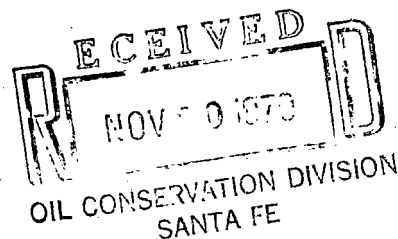
Post Office Box 68
Hobbs, New Mexico 88240

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

THIS COPY
FOR

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.

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Yours very truly,

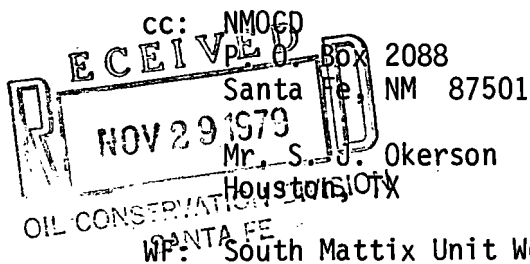
Approved: _____

By: ARCO OIL & GAS CO

Date: _____

November 26 1979

Enclosures





Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

V. E. Staley
District Superintendent

November 14, 1979

File: VES-986.51-1011

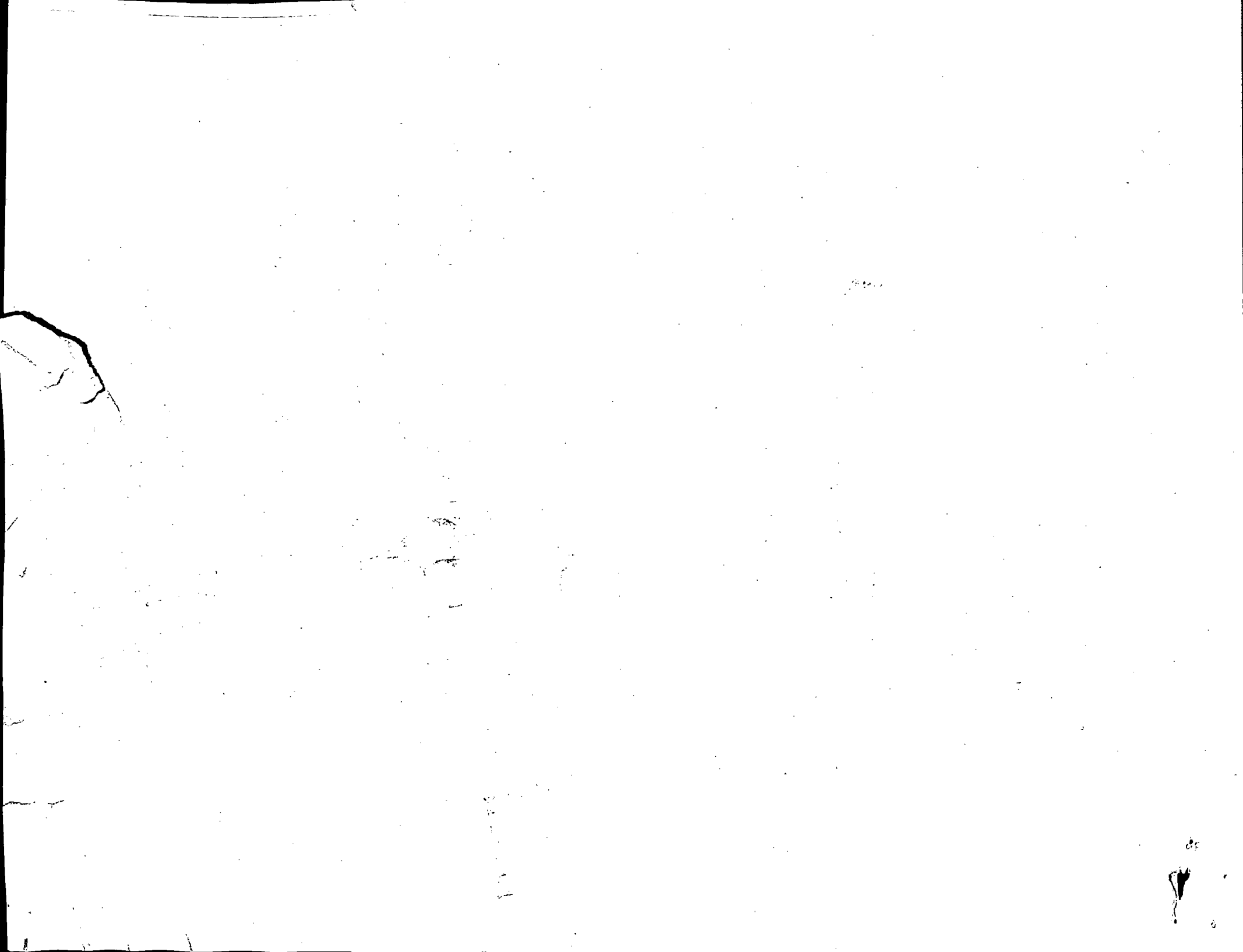
Re: Application for Administrative Approval
Natural Gas Policy Act Infill Finding
South Mattix Unit No. 38
Fowler Upper Yeso 750' FNL and 750' FEL
Section 15, T-24-S, R-37-E
Lea County, New Mexico

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 dark ink, consisting of a stylized 'S' or 'J' shape with a horizontal line extending to the left.

Attachments

cc: S. J. Okerson, w/attachments

ARCO-Hobbs

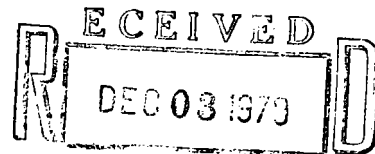
Tenneco Oil Company-Houston

Chevron-Midland

Conoco, Inc.-Hobbs



V. E. Staley
District Superintendent



OIL CONSERVATION DIVISION
SANTA FE

Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

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.

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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



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:

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Yours very truly,

Enclosures

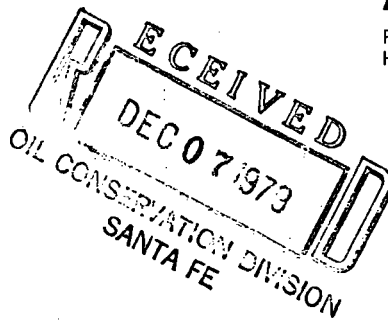
cc: NMOCD
P: O. Box 2088
Santa Fe, NM 87501

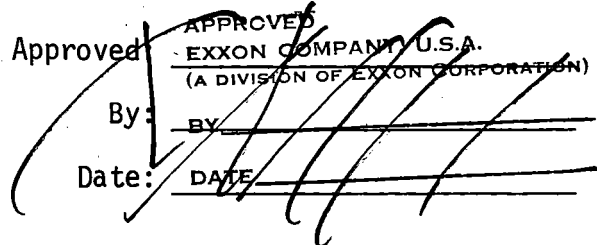
Mr. S. J. Okerson
Houston, TX

WF: South Mattix Unit Well No. 38

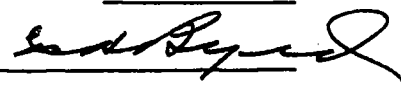
Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240



Approved: 
By: _____
Date: 12/3/79

APPROVED EXXON CORPORATION

BY 

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.

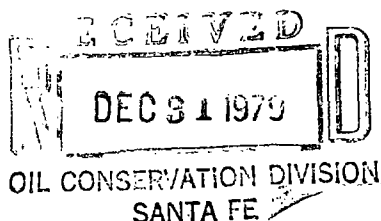
10-24-64: Abandoned Paddock gas perf and completed in Fowler (Blinebry). Set retainer at 4200' and squeezed Paddock perf 4878-94 W/150 sacks Incor. Drilled retainer at 4800' and cement to 6000'. Set cast-iron bridge plug at 5820'. Perforated intervals 5424-34, 5456-60, 5470-72, 5488-5501, 5516-18, 5558-62, 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/lp
4/398



SANTA

DEC 3

STATUS CONDITION
PTP (T) OR
PMP, OSC. PRES (I)
IFOP (C)
PROD. HOURS
PER DAY
SPM
TBO. CH. OR
STROKE LEN.
DIA.
PUMP 16THS
VOL. EFF.

WATERLOO
M---X

24 HR TEST RATE OIL, BBL S./DAY 0-----0
WATER, BBL S./DAY X-----X

OIL, BBL S./DAY
WATER, BBL S./DAY

WELL TEST DATA 09-01-79

[illegible]

INPUT
PSIO (1)

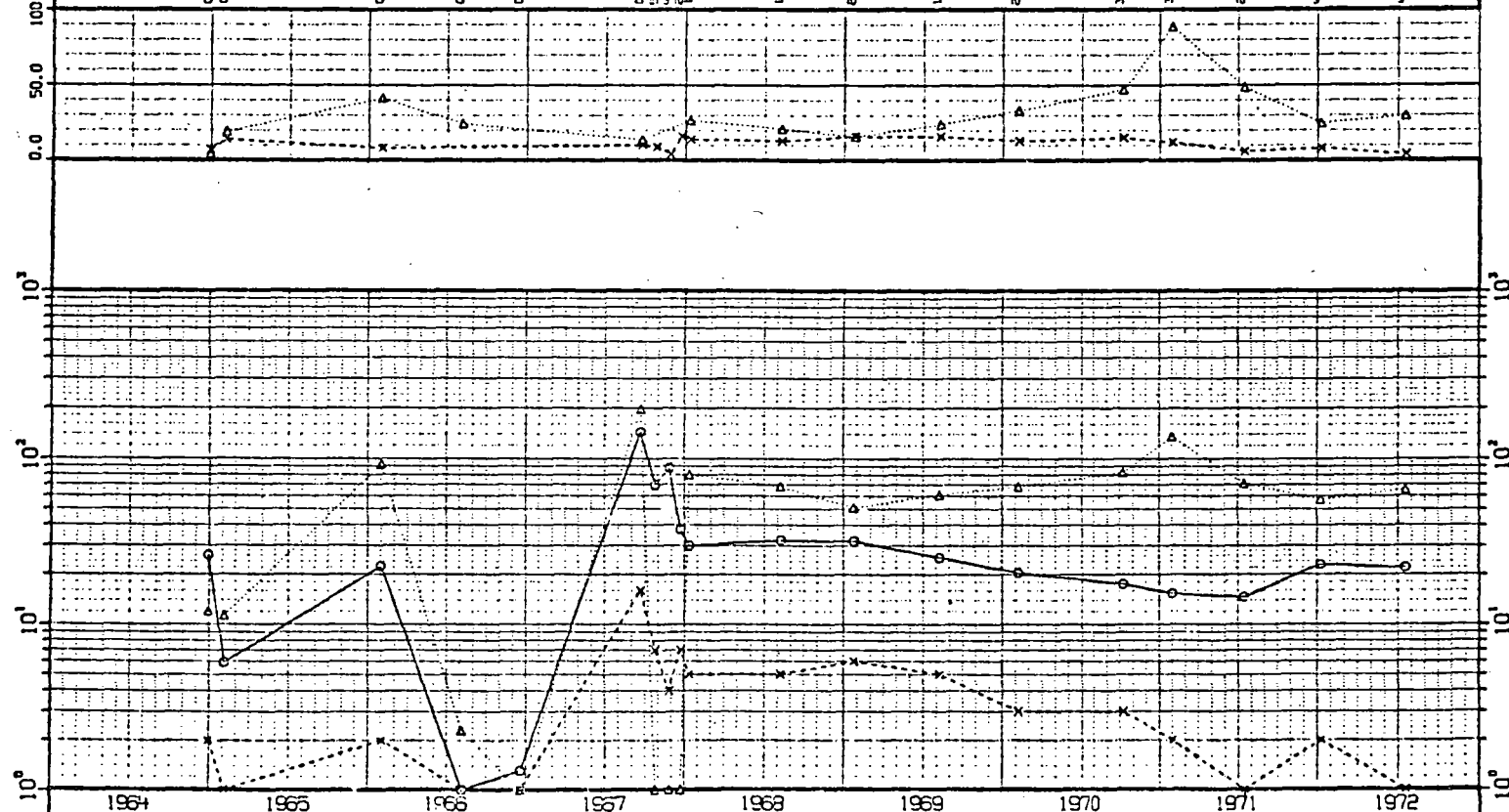
CYCLE TIME

Q. ONE
SIXTHS

INPUT GFR (MLF/88L.)

$C_i \times 10^2$ (mol/l)	$R_p \times 10^3$ (mol/l-hr) at 100°C (Δ)	$R_p \times 10^3$ (mol/l-hr) at 120°C (□)
0.0	0.0	0.0
2.5	2.5	1.5
5.0	5.0	3.0
7.5	7.5	4.5
10.0	10.0	6.0

PROD. 84



24 HOUR TEST RATE GAS, MCF/DAY ▶.....▶▶

DIVISION NO - 4 HOUSTON
OPER AREA - 53 HOBBS
OPERATOR - 4000 PRODUCTION COMPANY
MAIL TO LOC. NO. - 4JE

COMPLETION ZONE NAME - YESO, UP
STATE-REG FIELD/POOL - 30 4075 FOWLER-YESO, UPPER
FLAC(L/U) - 35G316 SOUTH MATTIX UNIT FEDERAL
NAME - DONALD W FLENDY 7 MAIL CODE/ROOM - 27

FLAC(WELL)-HOR - S24834-03
COMPLETION-DATE - 12-00-84
LEASE WELL NO - 010415
JOB REQUEST - 005-11

OIL CONSERVATION
 RECEIVED
 DEC 31 1979

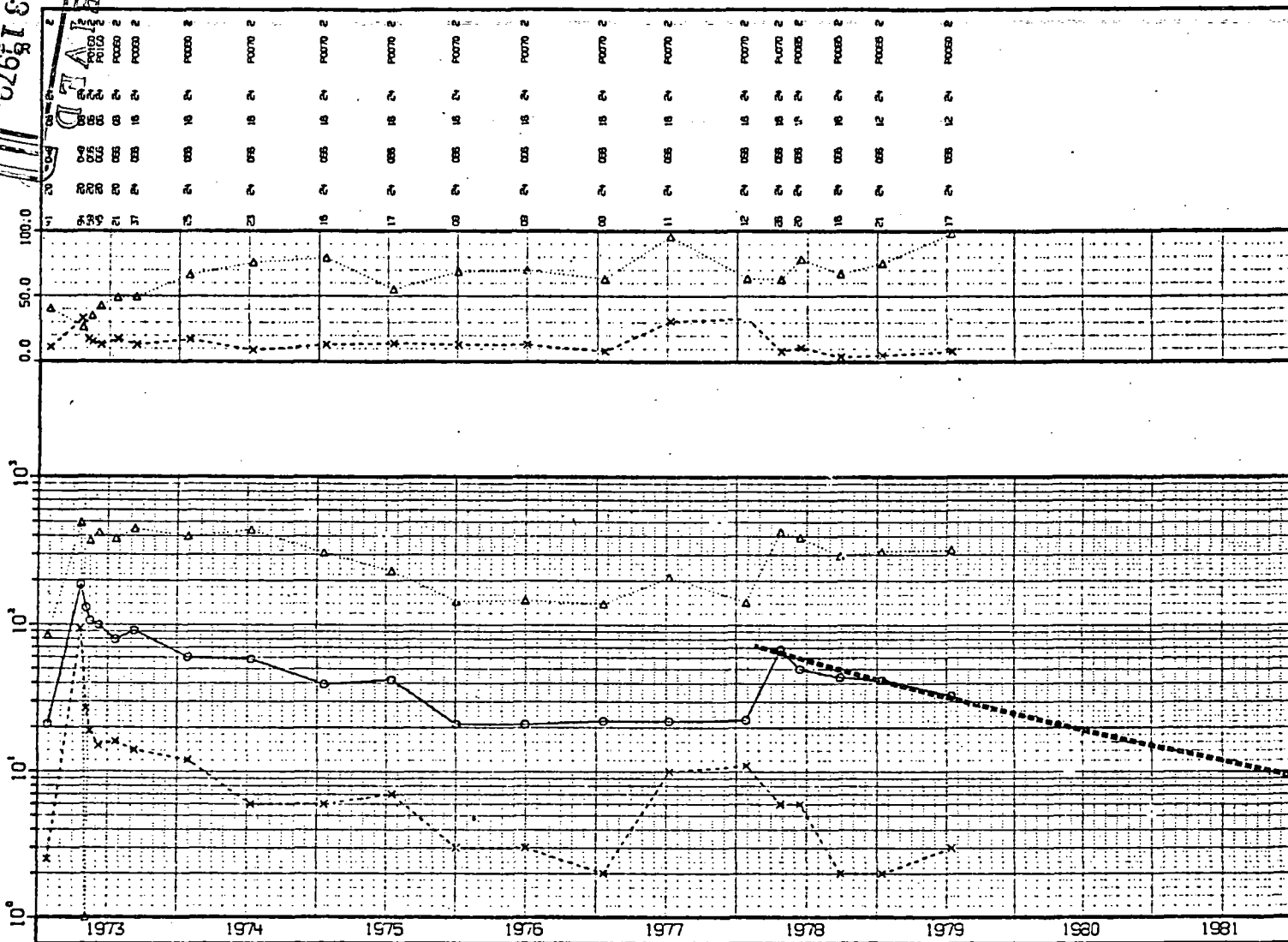
WELL TEST DATA 09-01-79

STATUS: ON POSITION
 PP (1) 1000
 PROD. LOSS
 PER DAY
 SPH
 TBG. C/O OR
 STROK. L/D
 DIA.
 PUMP 15THS
 VOL. EFF.

INPUT
 PS10 (1)
 CYCLE TIME
 Q. 0-04
 64THS
 INPUT GFR (MCF/BEU.)

WATERFLOUT

24 HOUR TEST RATE
 OIL BEELS./DAY
 WATER BEELS./DAY



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

COMPLETION ZONE NAME - YESO, UP
 STATE-REG FIELD/POOL - 30 4075 FOWLER-YESO, UPPER
 FLACIL/11 - 392916 SOUTH MATIX 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