

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 Mattix Unit Well No. 39
Location: Unit G Sec. 15 Twp. 24S Rng. 37E Cty. Lea

II.

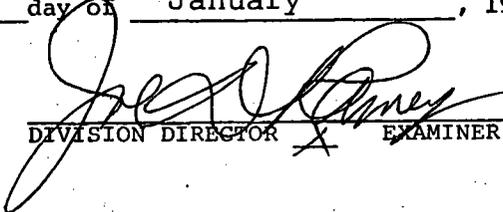
THE DIVISION FINDS:

- (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 a n 80-acre proration unit comprising the W/2 NE/4 of Sec. 15, Twp. 24S, Rng. 37E, is currently dedicated to the South Mattix Unit Well No. 9 located in Unit B 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 840 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

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 Matix Unit Well No 39
Location: Unit G Sec. 15 Twp. 24S Rng. 37E Cty. Lea

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 a 80 -acre proration unit comprising the W/2 NE/4 of Sec. 15, Twp. 24S, Rng. 37E, is currently dedicated to the South Matix Unit Well No 9 located in Unit B 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 840 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 _____



Amoco Production Company

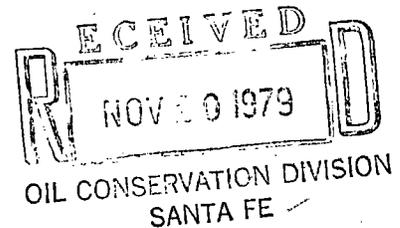
Post Office Box 68
Hobbs, New Mexico 88240

V. E. Staley
District Superintendent

November 14, 1979

File: VES-986.51-1010

Re: Application for Administrative Approval -
Natural Gas Policy Act Infill Finding
South Mattix Unit No. 39
Fowler Upper Yeso 1890' FNL and 2070' 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. 39 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 which has an 80 acre (Upper Yeso) and 40 acre (Fowler Drinkard) proration unit.
3. The South Mattix Unit No. 39 has not been spudded. The proposed location is 1890' FNL and 2070' FEL of Section 15, T-24-S, R-37-E, Lea County, New Mexico.
4. One well, the South Mattix Unit No. 10, located 1980' FNL and 810' FEL of Section 15, T-24-S, R-37-E has been drilled in the proration unit. This well was spudded on May 15, 1953 and completed on September 8, 1953 in the Fowler Upper Yeso Formation. The well produced at an average rate of 32 BOPD and 239 MCFD during September, 1979.

November 14, 1979
File: VES-986.51-1010
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. 39 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,



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 1890' FNL & 2070' FEL, Sec. 15
 At proposed prod. zone (Unit G, SW/4 NE/4)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6 miles North & 3 1/2 miles East of Jal, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) -

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6400'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3243.1 GL

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 <i>1100'</i>

Propose to drill and equip well in the Drinkard formation. 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' - 6400'	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 Asst. Admin. Analyst DATE 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

5. LEASE DESIGNATION AND SERIAL NO.
 LC- 032181-b
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 South Mattix Unit Fed.
 8. FARM OR LEASE NAME
 South Mattix Unit Fed.
 9. WELL NO.
 39
 10. FIELD AND POOL, OR WILDCAT
 Fowler Drinkard
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 15-24-37
 12. COUNTY OR PARISH | 13. STATE
 Lea | NM

16. NO. OF ACRES IN LEASE -
 17. NO. OF ACRES ASSIGNED TO THIS WELL 40
 19. PROPOSED DEPTH 6400'
 20. ROTARY OR CABLE TOOLS Rotary
 22. APPROX. DATE WORK WILL START* 11-20-79

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-4-65

All distances must be from the outer boundaries of the Section

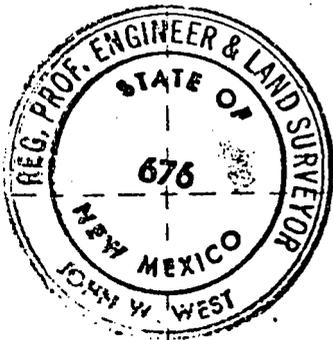
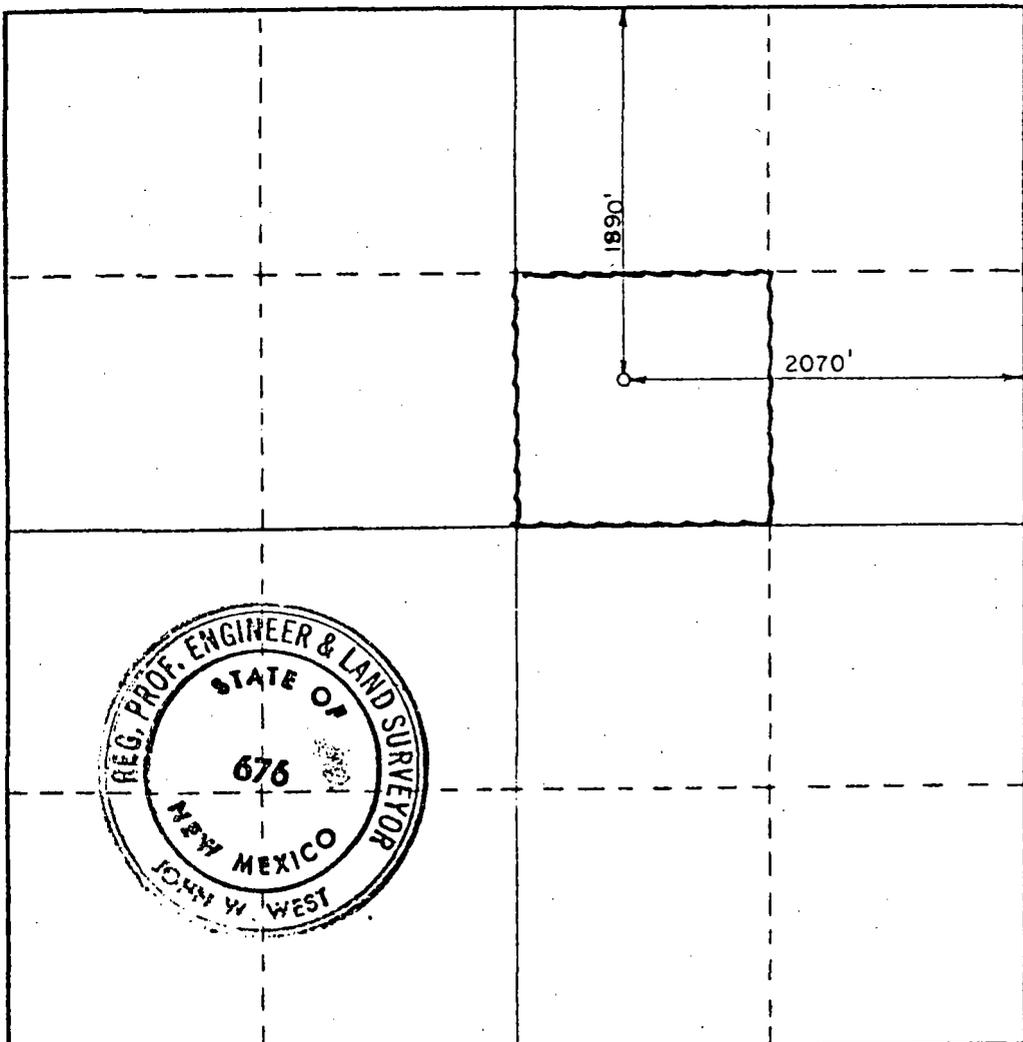
Operator AMOCO PRODUCTION CO.		Lease South Mattix Unit			Well No. 39
Unit Letter G	Section 15	Township 24 South	Range 37 East	County Lea	
Actual Footage Location of Well: 1890 feet from the North line and 2070 feet from the East line					
Ground Level Elev. 3243.1	Producing Formation Drinkard	Pool Fowler 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

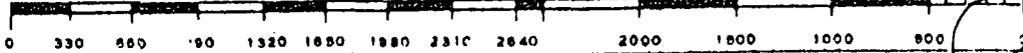
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Bob Davis
Position
Asst. Admin. Analyst
Company
Amoco Production Company
Date
11-6-79

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 16, 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 ^c
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	SPECIAL DELIVERY	
		RESTRICTED DELIVERY	
		SHOW TO WHOM AND DATE DELIVERED	
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY	
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	
RETURN RECEIPT SERVICE			.45
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 ^c
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	SPECIAL DELIVERY	
		RESTRICTED DELIVERY	
		SHOW TO WHOM AND DATE DELIVERED	
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY	
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	
RETURN RECEIPT SERVICE			.45
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 ^c
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	SPECIAL DELIVERY	
		RESTRICTED DELIVERY	
		SHOW TO WHOM AND DATE DELIVERED	
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY	
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	
RETURN RECEIPT SERVICE			.45
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-986.51-1017

Re: Simultaneous Dedication of Acreage
South Mattix Unit Well No. 39

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. 39, 1890' FHL and 2070' FEL, and South Mattix Unit Well No. 10, 1980' FHL and 810' 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: _____

ORIGINAL SIGNED
BY V. E. STALEY

Enclosures

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

Mr. S. J. Okerson
Houston, TX

WF: South Mattix Unit Well No. 39

11/11/11

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

Recoveries Well No

9 124 398 130 Apr 1978
10 164 554 130

This is an initial well drilled earlier

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

locations logic

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 Yeso for the two proposed locations.

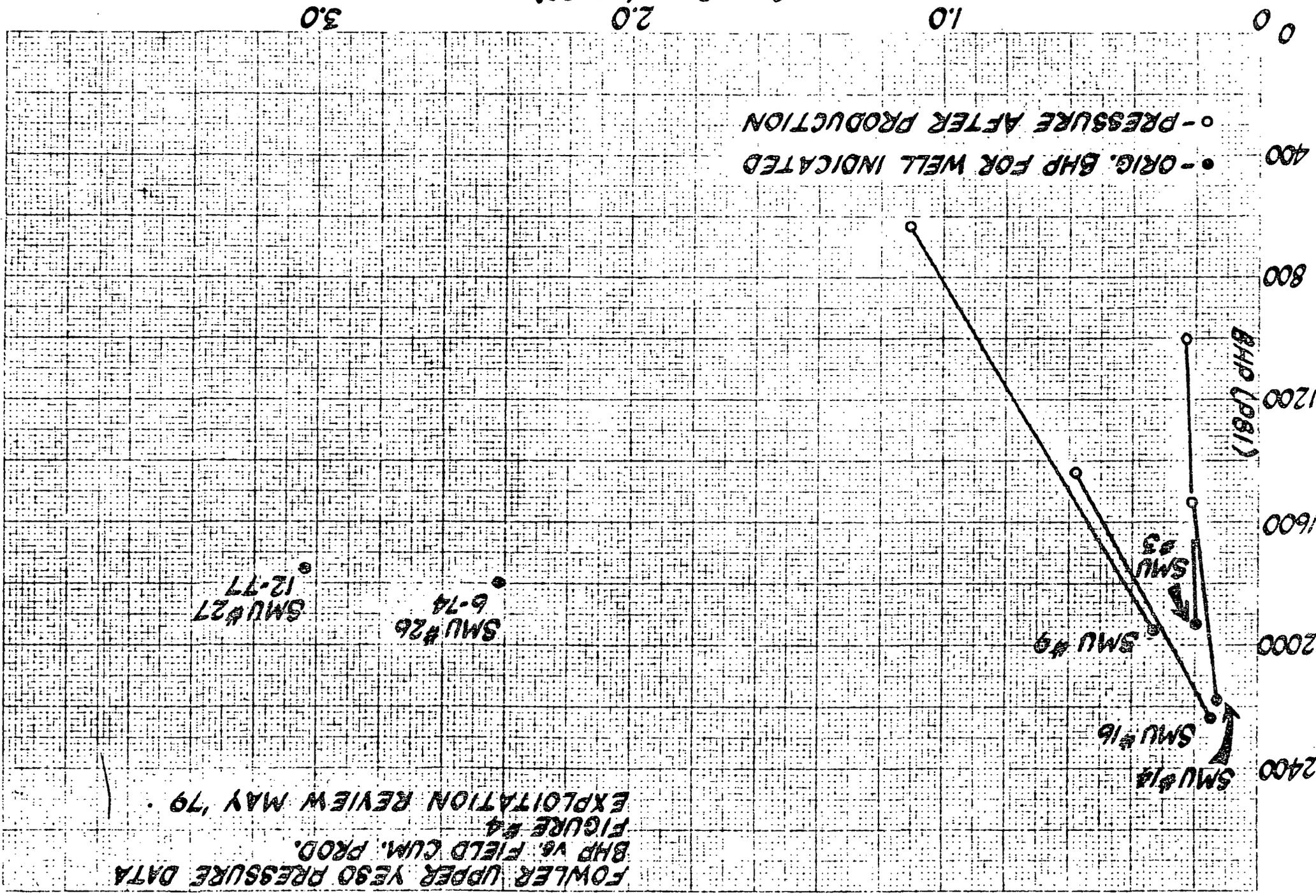
April A. Grizzle

AAG/sso
424/C2

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

SMU #27 12-77
 SMU #26 6-74

• - ORIG. BHP FOR WELL INDICATED
 ○ - PRESSURE AFTER PRODUCTION



Cum. Prod. (MMBbl)
 2.0
 1.0
 3.0

BHP (PSIG)

0
 400
 800
 1200
 1600
 2000
 2400

FIGURE #4
SMU #1
S. MATTIX UNIT, FOWLER FIELD
PRES. DATA ULT. - 34.5 MBO
DECLINE CURVE PLUS CUM. - 77 MBO
% REC @ 1755 # = $\frac{11,400}{77,000} = 14.8\%$

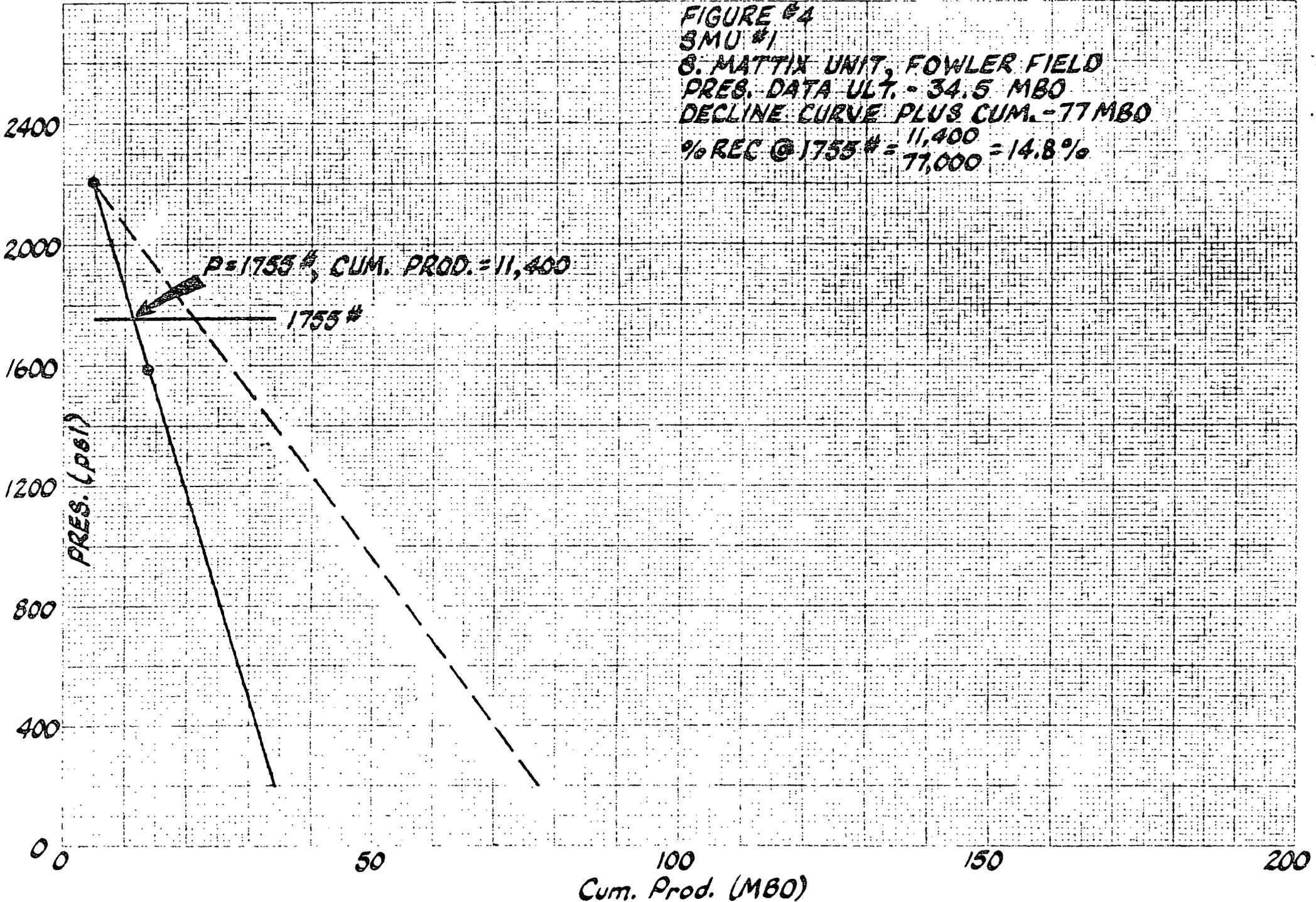


FIGURE #4
SMU #3
B. MATTIX UNIT, FOWLER FIELD
PRES. DATA ULT. - 70.5 MBO
DECLINE CURVE PLUS CUM. - 72 MBO
 $\% \text{ REC @ } 1755 \# = \frac{13,500}{72,000} = 18.8\%$

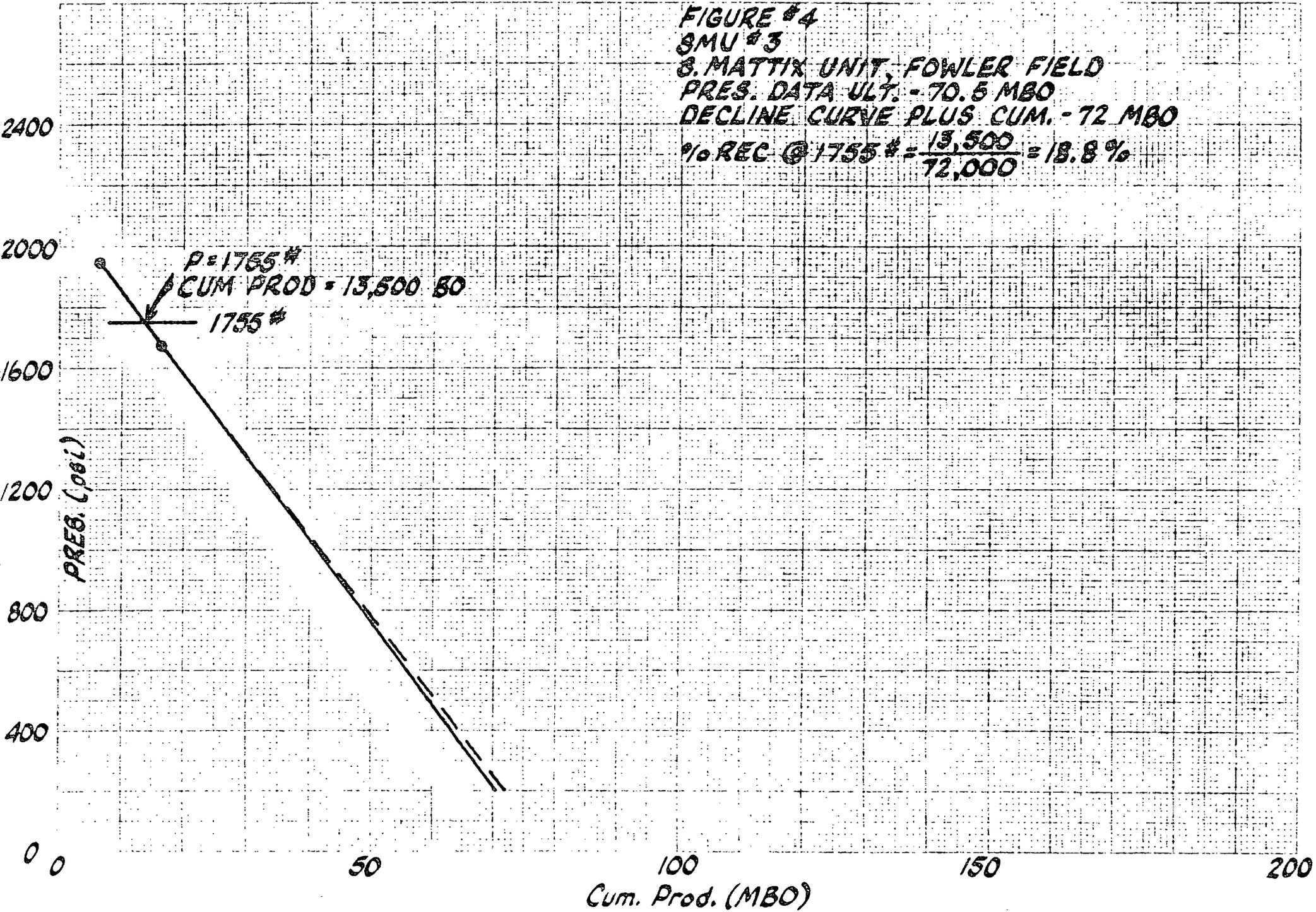
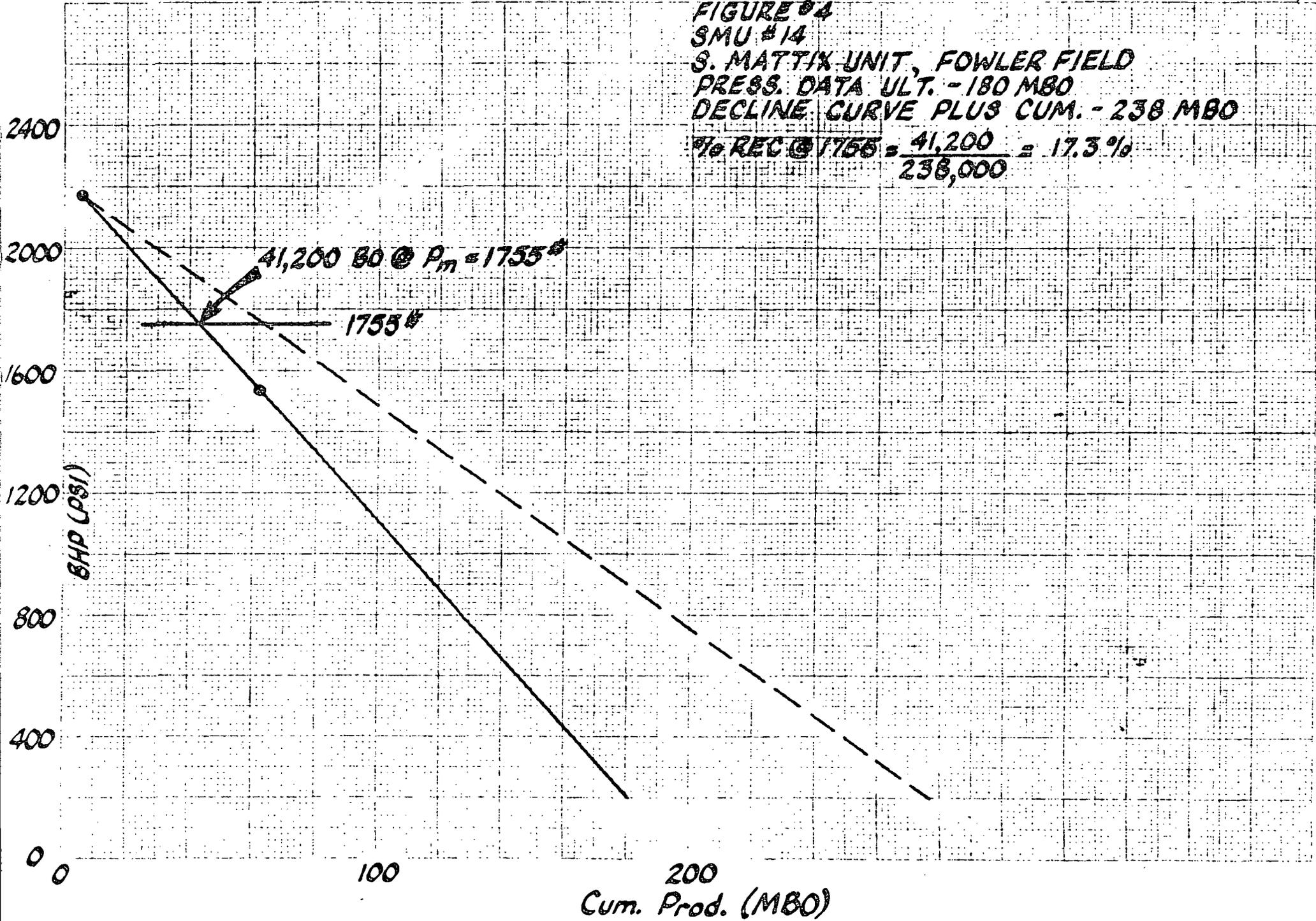


FIGURE #4
 SMU #14
 S. MATTIX UNIT, FOWLER FIELD
 PRESS. DATA ULT. - 180 MBO
 DECLINE CURVE PLUS CUM. - 238 MBO
 $\% \text{ REC @ } 1755 = \frac{41,200}{238,000} = 17.3\%$





Amoco Production Company

Houston Region
500 Jefferson Building
Post Office Box 3092
Houston, Texas 77001
West Texas-Eastern
New Mexico Division

S. J. Okerson
Division Operations
Superintendent

December 21, 1979

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

R. L. Stamets
Oil Conservation Division
Energy and Minerals Department
P. O. Box 2088
Santa Fe, NM 87501

Dear Sir:

In reference to your letter of November 26, 1979 and the subsequent telephone conversation between R. L. Stamets and A. A. Grizzle, the attached data is provided to support our application for NGPA Infield Well Findng under Order No. R-6013 for South Mattix Unit Nos. 38 and 39, Section 15, T-24-S, R-37-E, Lea County, NM. The workover summaries and production profiles for South Mattix Unit Wells No. 9 and 10 demonstrate that each of these wells can be expected to recover only about 30,000 to 35,000 barrels additional reserves. Thus, the South Mattix Unit No. 38 would be required to recover the additional 95,000 barrels of oil and .66 BCF gas reserves in the proration unit established by Well No. 10 and the South Mattix Unit No. 39 is required to recover the additional 120,000 barrels of oil and .84 BCF gas reserves in the proration unit established by Well No. 9.

RECEIVED
DEC 31 1979
OIL CONSERVATION DIVISION
SANTA FE

If any additional information is needed, please contact A. A. Grizzle.

Yours very truly,

AAG/rlc
581/N

cc: V. E. Staley - Hobbs, NM

South Mattix Unit Well No. 9
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.
- 3-30-65: Abandoned Ellenburger zone by spotting 100 sacks cement across perfs 10058'-10222'. Set cast iron bridge plug at 5800 w/10' cement cap. Perforated interval 5710' but was unable to obtain circulation. Set cast iron bridge plug at 5700' and perforated interval 5300'. Set retainer at 5295' and squeezed perf 5300' w/350 sacks. Set retainer at 5230' and perforated interval 5240' and squeezed w/150 sacks Incor. Drilled retainer at 5230 and cleaned out to 5290'. Perforated Lower Paddock interval 5258'-5276' w/2 JSPF and acidized w/2000 gallons LSTNE acid. Drilled cement retainer and cleaned out to bridge plug at 5700'. Placed well on test. On PT-flowed 69 BOPD x no water from Lower Paddock.
- 3-21-67: Workover to dual complete in Blinebry and Paddock zones. Perforated Blinebry intervals 5440-42, 5463-66, 5479-81, 5508-10, 5513-16, 5548-50, 5567-70, 5608-10, 5646-48, 5657-59, 5661-63, 5674-76, 5680-83'. Acidized perfs 5440-5683 w/2000 gallons 15% LSTNE acid and fracked w/6000 gallons Gelled Brine pad and 40,000 gallons Gelled Brine. Put well on Test. On PT-Blinebry flowed 182 BO x 110 BLW in 31 hours on 28/64" choke. Set Baker packer at 5370'.
- 4-3-67: Acidized Lower Paddock perfs 5258-76 with 5000 gallons 28% acid and 5000 gallons Treated water.
PPWO-pumped 16 BOPD x 2 BWPD
PAWO-pumped 21 BOPD x 3 BWPD
- 7-15-70: Fowler (Upper Yeso) Pool created from Fowler (Lower Paddock) and Fowler (Blinebry).
- 6-22-71: Pulled tubing and pushed packer to bottom. Perforated additional intervals 5293-96, 5309, 5313, 5321, 5336-38, 5341-45, 5354, 5371, 5386-88, 5393, 5404-06, 5410, 5417, 5421-23, 5433, & 5484-88 w/2 JSPF. Acidized and fracked with 1750 gallons 15% NE acid, 45000 gallons Gelled Brine and 54000# sand in 3 stages.
Ran tubing and rods
PPWO-pumped 14 BOPD x no water
PAWO-pumped 133 BOPD x 55 BLWPD

3-6-75 Acidized perfs 5293'-5588' w/500 gallons 15% NE acid and 50 gallons
well acid 833.
PPWO-pumped 15 BOPD x 8 BWPD
PAWO-pumped 21 BOPD x 11 BWPD

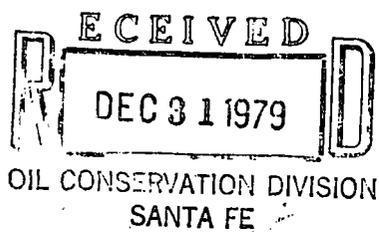
RECEIVED
DEC 3 1975
OIL CONSERVATION DIVISION
SANTA FE

South Mattix Unit #9
Cont'd

6-11-79: Acidized Upper Yeso w/2500 GAL 15% NE x FLUSH w/100 BBLS FW
PAWO: Pumped 16 BO x 20 BW x 230 MCFD - 24 HRS

10-19-79: Acidized perforated interval 5258-5673 w/600 GAL 15% HCL in
3 stages
PPWO: 8 BO x 5 BW x 139 MCFD
PAWO: 33 BO x 20 BW x 235 MCFD

AG/gh
182/B



OIL CONSERVATION DIVISION

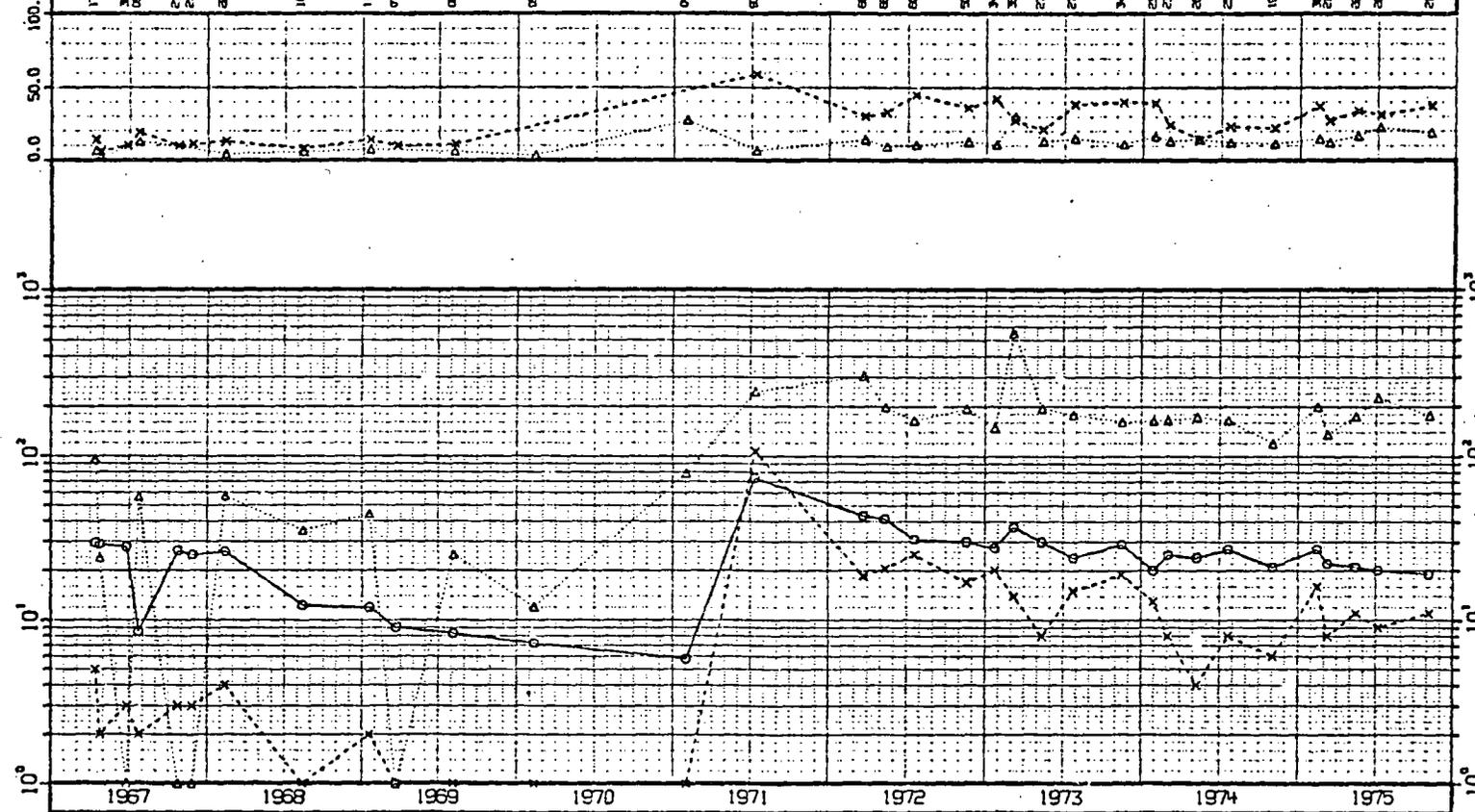
DEC 31 1975
 HOUSTON
 FEDERAL

WELL TEST DATA 09-01-79

STATUS COND	FTP (T) OR	PROD. HOUR	TEC. CH.	DIA.	VOL. EFF.	INPUT	CYCLE TIME	INPUT GFR
OR	OR	PER DAY	STROKE	RUP 16TH	EST.	PSIG (I)	MIN	(MCF/BEU.)
1	1	12	08	24	01	17	12	17
1	1	12	08	24	01	18	12	18
1	1	12	08	24	01	19	12	19
1	1	12	08	24	01	20	12	20
1	1	12	08	24	01	21	12	21
1	1	12	08	24	01	22	12	22
1	1	12	08	24	01	23	12	23
1	1	12	08	24	01	24	12	24
1	1	12	08	24	01	25	12	25
1	1	12	08	24	01	26	12	26
1	1	12	08	24	01	27	12	27
1	1	12	08	24	01	28	12	28
1	1	12	08	24	01	29	12	29
1	1	12	08	24	01	30	12	30
1	1	12	08	24	01	31	12	31
1	1	12	08	24	01	32	12	32
1	1	12	08	24	01	33	12	33
1	1	12	08	24	01	34	12	34
1	1	12	08	24	01	35	12	35
1	1	12	08	24	01	36	12	36
1	1	12	08	24	01	37	12	37
1	1	12	08	24	01	38	12	38
1	1	12	08	24	01	39	12	39
1	1	12	08	24	01	40	12	40
1	1	12	08	24	01	41	12	41
1	1	12	08	24	01	42	12	42
1	1	12	08	24	01	43	12	43
1	1	12	08	24	01	44	12	44
1	1	12	08	24	01	45	12	45
1	1	12	08	24	01	46	12	46
1	1	12	08	24	01	47	12	47
1	1	12	08	24	01	48	12	48
1	1	12	08	24	01	49	12	49
1	1	12	08	24	01	50	12	50

WATERFUT
 x-----x

2-HOUR TEST RATE
 OIL BELS./DAY
 WATER BELS./DAY
 o-----x



INPUT PSIG (I)
 CYCLE TIME
 CL. CHDKE
 64THS
 INPUT GFR (MCF/BEU.)
 x10³
 5.0
 2.5
 0.0
 COR. SQ. FEET
 PROD. B.P.

DIVISION NO - 4 HOUSTON
 OPER AREA - 63 HOBSB
 OPERATOR - AMCOO PRODUCTION COMPANY
 MAIL TO LOC. 12. - 44E

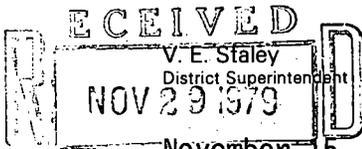
COMPLETION ZONE NAME - YESO, UP
 STATE-REG FIELD/POOL - 30 4075 FOALER-YESO, UPPER
 FLACIL/UI - 390816 SOUTH MATTIX UNIT FEDERAL
 NAME - DONALD W FLENDY 7 MAIL CODE/ROOM - 27

FLAC (WELL) - HOR - 924833-03
 COMPLETION-DATE - 03-00-67
 LEASE WELL NO - 009815
 JOB REQUEST - 025-11



Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240



November 5, 1979
OIL CONSERVATION DIVISION
SANTA FE

NFL

File: VES-986.51-1017

Re: Simultaneous Dedication of Acreage
South Mattix Unit Well No. 39

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. 39, 1890' FNL and 2070' FEL, and South Mattix Unit Well No. 10, 1980' FNL and 810' 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: A.M. Malaise

By: _____

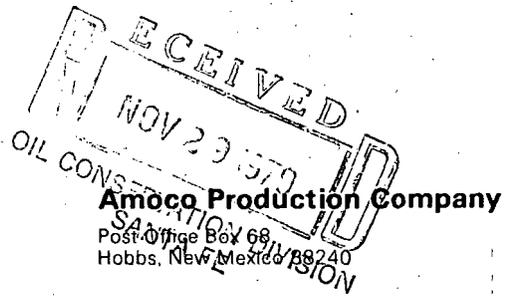
Date: November 26 1979

Enclosures

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

Mr. S. J. Okerson
Houston, TX

WF: South Mattix Unit Well No. 39



V. E. Staley
District Superintendent

November 14, 1979

File: VES-986.51-1010

Re: Application for Administrative Approval -
Natural Gas Policy Act Infill Finding
South Mattix Unit No. 39
Fowler Upper Yeso 1890' FNL and 2070' 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. 39 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 which has an 80 acre (Upper Yeso) and 40 acre (Fowler Drinkard) proration unit.
3. The South Mattix Unit No. 39 has not been spudded. The proposed location is 1890' FNL and 2070' FEL of Section 15, T-24-S, R-37-E, Lea County, New Mexico.
4. One well, the South Mattix Unit No. 10, located 1980' FNL and 810' FEL of Section 15, T-24-S, R-37-E has been drilled in the proration unit. This well was spudded on May 15, 1953 and completed on September 8, 1953 in the Fowler Upper Yeso Formation. The well produced at an average rate of 32 BOPD and 239 MCFD during September, 1979.

November 14, 1979
File: VES-986.51-1010
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. 39 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,



Attachments

cc: S. J. Okerson, w/attachments

ARCO-Hobbs

Tenneco Oil Company-Houston

Chevron-Midland

Conoco, Inc.-Hobbs



RECEIVED
DEC 03 1979
OIL CONSERVATION DIVISION
SANTA FE

Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

V. E. Staley
District Superintendent

November 15, 1979

File: VES-986.51-1017

Re: Simultaneous Dedication of Acreage
South Mattix Unit Well No. 39

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. 39, 1890' FNL and 2070' FEL, and South Mattix Unit Well No. 10, 1980' FNL and 810' 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. F. Berlin
D. F. Berlin, Manager-Engineering

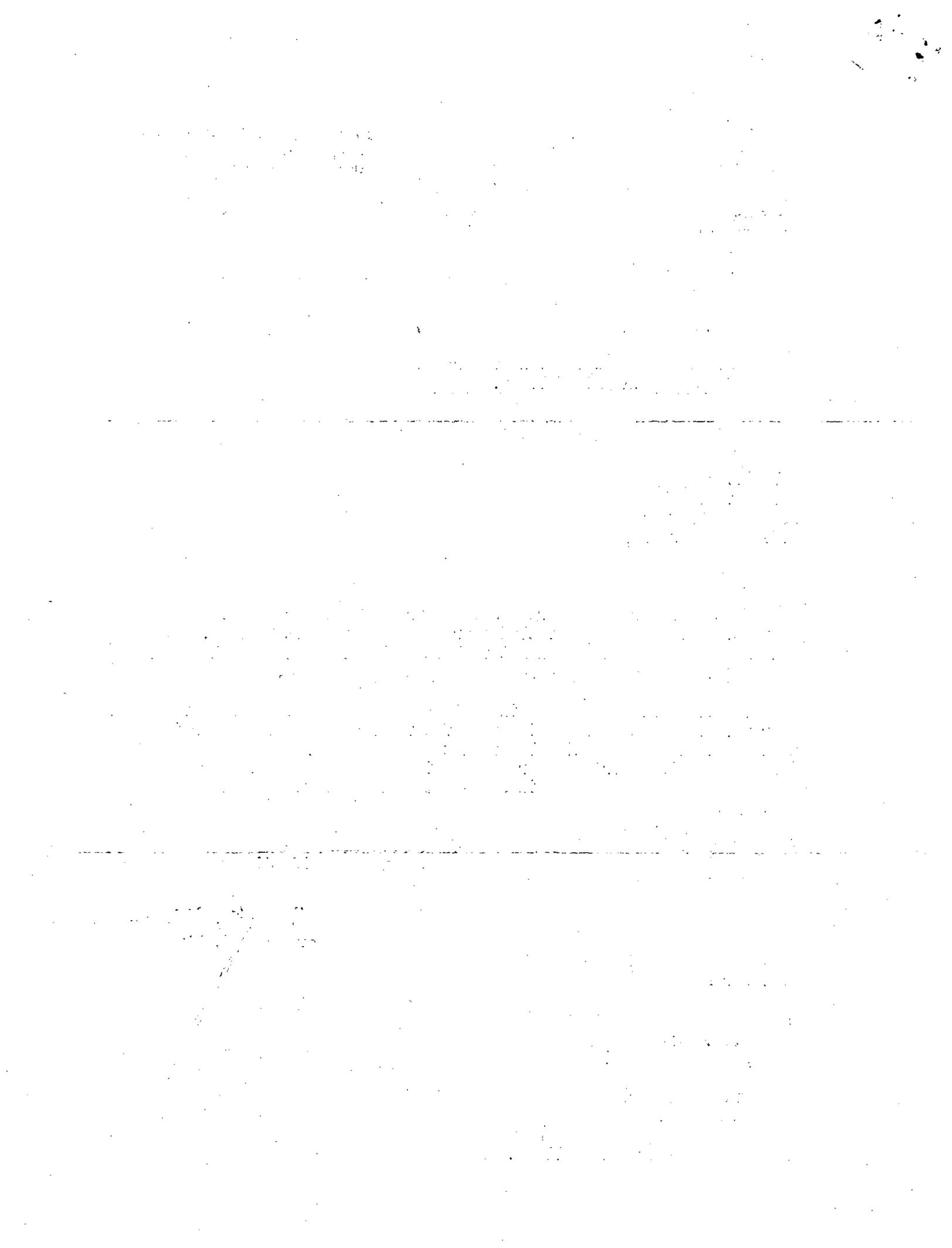
Date: November 28, 1979

Enclosures

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

Mr. S. J. Okerson
Houston, TX

WF: South Mattix Unit Well No. 39





RECEIVED
DEC 07 1979
OIL CONSERVATION DIVISION
SANTA FE

Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

V. E. Staley
District Superintendent

November 15, 1979

File: VES-986.51-1017

Re: Simultaneous Dedication of Acreage
South Mattix Unit Well No. 39

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. 39, 1890' FNL and 2070' FEL, and South Mattix Unit Well No. 10, 1980' FNL and 810' 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: _____
BY _____
Date: _____
DATE _____

Enclosures

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

Mr. S. J. Okerson
Houston, TX

APPROVED EXXON CORPORATION

BY

DATE 12/3/79

WF: South Mattix Unit Well No. 39



Amoco Production Company

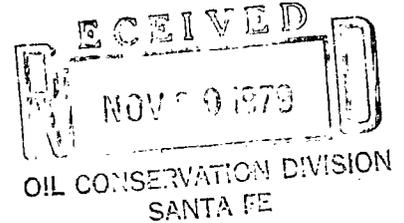
Post Office Box 68
Hobbs, New Mexico 88240

V. E. Staley
District Superintendent

November 15, 1979

File: VES-986.51-1017

Re: Simultaneous Dedication of Acreage
South Mattix Unit Well No. 39



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. 39, 1890' FNL and 2070' FEL, and South Mattix Unit Well No. 10, 1980' FNL and 810' 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. 39



Amoco Production Company

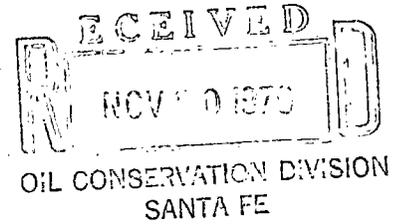
Post Office Box 68
Hobbs, New Mexico 88240

V. E. Staley
District Superintendent

November 15, 1979

File: VES-986.51-1017

Re: Simultaneous Dedication of Acreage
South Mattix Unit Well No. 39



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. 39, 1890' FNL and 2070' FEL, and South Mattix Unit Well No. 10, 1980' FNL and 810' 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. 39



Amoco Production Company

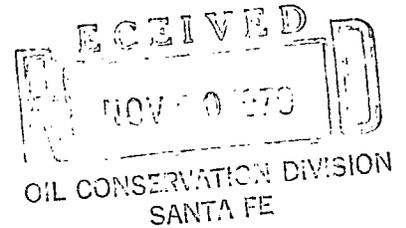
Post Office Box 68
Hobbs, New Mexico 88240

V. E. Staley
District Superintendent

November 15, 1979

File: VES-986.51-1017

Re: Simultaneous Dedication of Acreage
South Mattix Unit Well No. 39



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. 39, 1890' FNL and 2070' FEL, and South Mattix Unit Well No. 10, 1980' FNL and 810' 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. 39