

INFILL DRILLING FINDINGS 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-A

I.

Operator Marbob Energy Corporation Well Name and No. NG Phillips State Well No. 27  
Location: Unit I Sec. 27 Twp. 17S Rng. 28E Cty. Eddy

II.

THE DIVISION FINDS:

- (1) That Section 271.305(b) of the Federal Energy Regulatory Commission 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 that the infill 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.
- (2) That by Order No. R-6013-A, dated February 8, 1980, 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 completed in the Artesia Queen Grayburg San Andres Pool, and the standard spacing unit in said pool is 40 acres.
- (4) That a 40-acre proration unit comprising the NE/4 SE/4 of Sec. 27, Twp. 17S, Rng. 28E, is currently dedicated to the NG Phillips State Well No. 4 located in Unit I 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 90,641 MCF of gas from the proration unit which would not otherwise be recovered.
- (8) That all the requirements of Order No. R-6013-A 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.

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 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 11th day of May, 19 82.

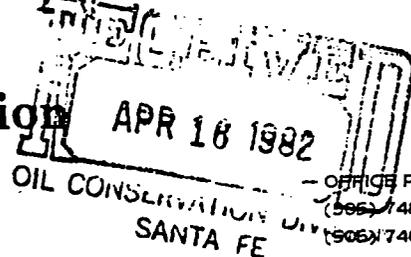
DIVISION DIRECTOR \_\_\_\_\_ EXAMINER \_\_\_\_\_



# Marbob Energy Corporation

P. O. DRAWER 217  
ARTESIA, NEW MEXICO 88210

April 15, 1982



— OFFICE PHONE —  
(505) 746-3303  
(505) 746-2422  
— NIGHT PHONES —  
(505) 746-6197  
(505) 746-6500

Mr. Michael E. Stogner  
Petroleum Engineer  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Re: Infill well applications

Dear Mike:

Enclosed are three more infill applications - NG  
Phillips St. #29, NG Phillips St. #28 and NG Phillips St.  
#27. I hope these are acceptable. If you have any questions  
or problems please call.

Sincerely,

Ray Miller  
Ray Miller  
Land Department

RPM/co

Encl.

*Request for Infill Finding on*

*NG Phillips State #27*

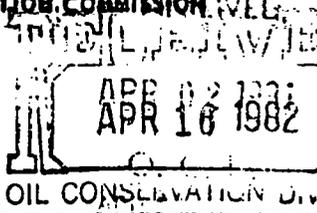
*In accordance with Administrative*

*Procedures Amended February 8, 1980*

RECEIVED	
DISTRIBUTION	
DATE	
BY	
U.S.S.	
AND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

30-015-23731



Form C-101  
Revised 1-4-85

3A. Indicate Type of Lease  
STATE  FEE

3. State Oil & Gas Lease No.  
B-2071

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Type of Work

Type of Well  
 DRILL  DEEPEN  PLUG BACK   
 OIL WELL  GAS WELL  OTHER   
 SINGLE ZONE  MULTIPLE ZONE

Name of Operator  
Marbob Energy Corporation

Address of Operator  
P.O. Box 304, Artesia, N.M. 88210

Location of Well  
 UNIT LETTER I LOCATED 2264.4 FEET FROM THE South LINE  
977.8 FEET FROM THE East LINE OF SEC. 27 TWP. 17S RGE. 28E SMPM

19. Proposed Depth  
2150'

19A. Formation  
Premier

20. Rotary or C.T.  
Rotary

Elevations (Show whether D.F., RT., etc.)  
3649.5' GR

21A. Kind & Status Plug. Bond  
Statewide active

21B. Drilling Contractor  
Stewart Bros Drlg. Co.

22. Approx. Date Work will start  
4/5/81

7. Unit Agreement Name

8. Farm or Lease Name  
NG Phillips St.

9. Well No.  
27

10. Field and Pool, or Wildcat  
Artesia Qn. Grbg. SA

12. County  
Eddy

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8 5/8"	24#	550'	350	
7 7/8"	4 1/2"	10.50#	2150'	Attempt to circ.	

We propose to drill to 550', set 8 5/8" 24# casing, drill on to 2150' to test the Premier formation, run 4 1/2" 10.50# casing and cement.

10-3-81  
DAY  
INWAY

ABOVE SPACE DESCRIBE PROPOSED PROGRAM IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

By Carsten Ouis Title Production Clerk Date 4/2/81

(This space for State Use)

APPROVED BY W.A. Gressett TITLE SUPERVISOR, DISTRICT II DATE APR 03 1981

CONDITIONS OF APPROVAL, IF ANY:

3777

MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the Section. APR 18 1982

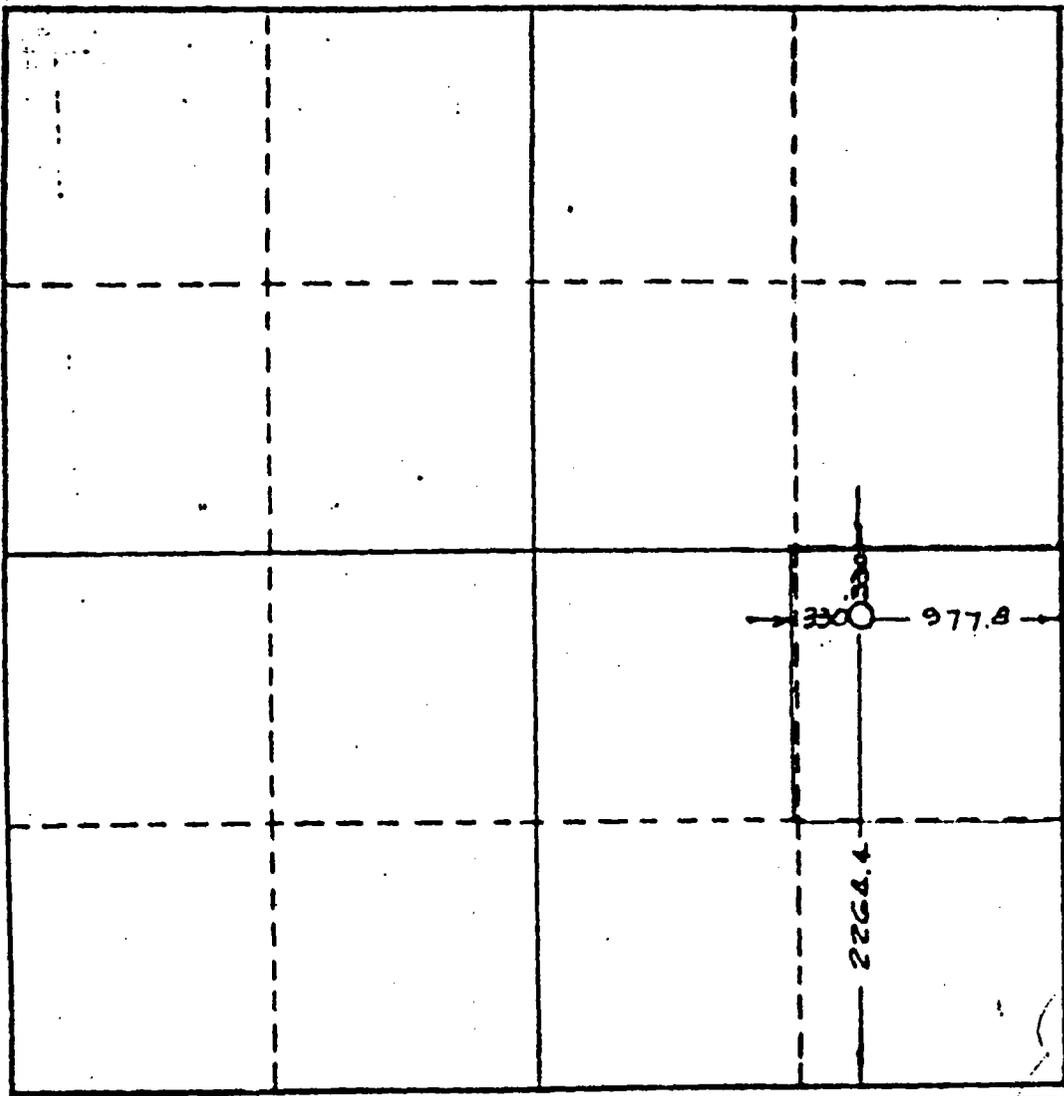
Lessee <b>MARBOR ENERGY CORPORATION</b>		Lease <b>M. G. PHILLIPS STATE</b>		Well No. <b>27</b>
Unit Letter <b>I</b>	Section <b>27</b>	Township <b>17 South</b>	Range <b>28 East</b>	County <b>SANTA FE EDDY</b>
Actual Footage Location of Well <b>2264.8</b> feet from the <b>South</b> line and <b>977.8</b> feet from the <b>East</b> line				
Cased Level Elev. <b>3669.5</b>	Producing Formation <b>Premier</b>	Pool <b>Artesia Qn. Grbg. SA</b>	Dedicated Acreage <b>40</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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, force-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.

*Carolyn Orris*  
Name  
**Carolyn Orris**

Position  
**Production Clerk**

Company  
**Marbob Energy Corp.**

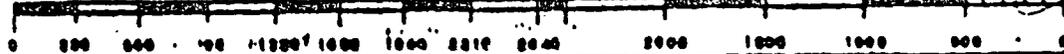
Date  
**4/2/81**

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  
**February 16, 1981**

Registered Professional Engineer and/or Land Surveyor  
*John W. Stearns*

Certificate No.  
**1559**



Rule 6:

NG Phillips State #27

Pool: Artesia Queen Grayburg San Andres

Standard spacing unit - 40 acres

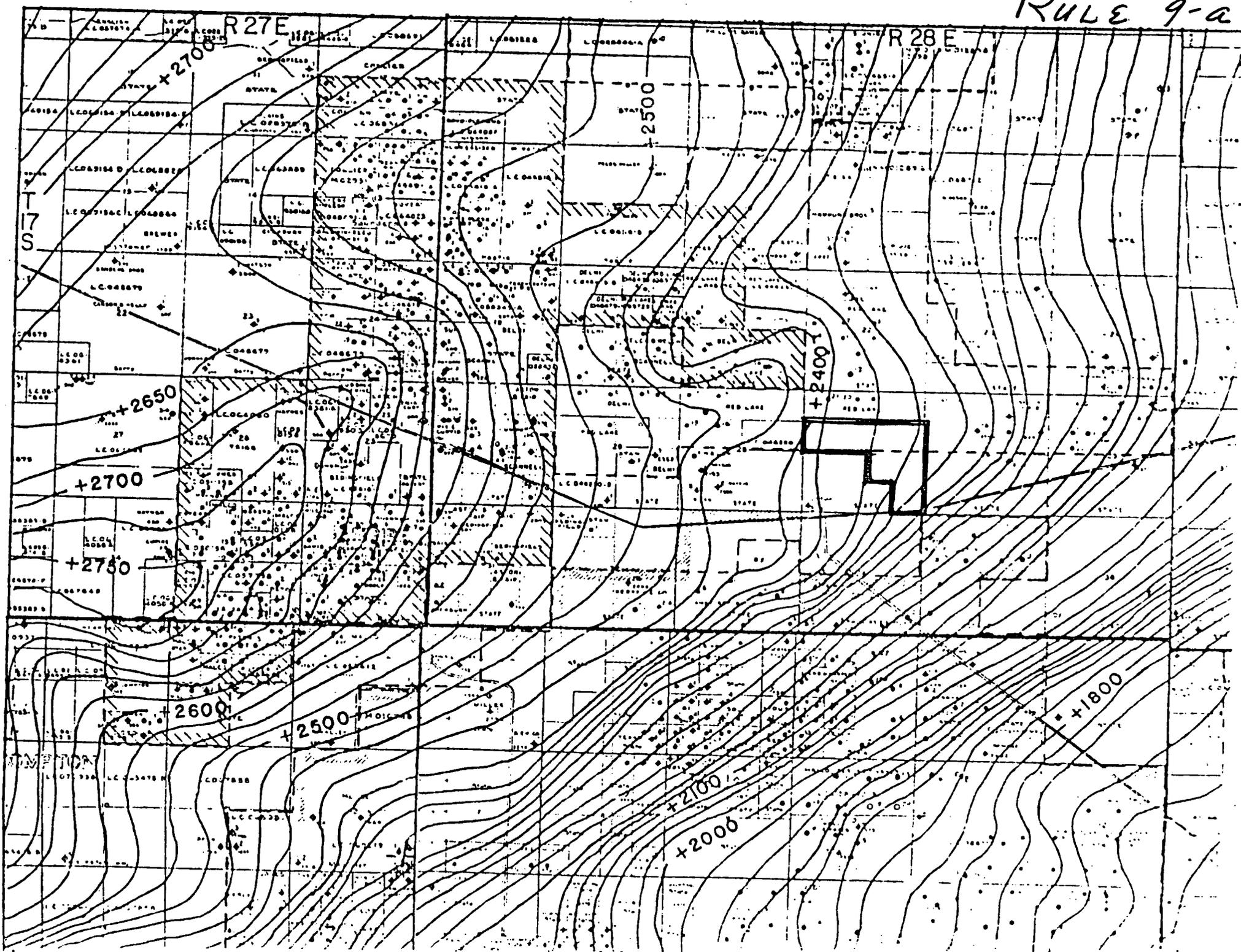
Rule 7:

NA

Rule 8:

- a. NG Phillips St. #27 - 2264.4 FSL 977.8 FEL Sec. 27-17S-28E  
NG Phillips St. #4 - 1650 FSL 330 FEL Sec. 27-17S-28E
- b. #27 - 4/5/81  
#4 - 11/11/60
- c. #27 - 5/19/81  
#4 - 1/4/61, converted to injection 8/22/68
- d. None
- e. NA
- f. 10 bbl. oil, 115 mcf gas/day - #27  
#4 - NA
- g. The NG Phillips St. #27 was completed in both the Premier zone (2018-2028') and a deeper zone (2375-2425'). The #4 well was only drilled to 2100' and was completed in the Premier zone 1/4/61. It was converted to injection in September 1968. At the time of conversion it was producing less than 10 mcf per day. The Phillips #27 needed to be drilled to open the additional lower zone, drain reserves that because of the low permeability and poor recovery mechanism could not be drained through the #4, and because the #4 needs to remain on injection as it is currently the only injection well on the lease for the disposal of produced water.

RULE 9-a



Marbob Energy Corporation  
Artesia Queen Grayburg San Andres  
NG Phillips State  
Well #27

**Pertinent Engineering Data and Conclusions:**

Well No. 27 was completed in the Artesia Queen Grayburg pool in May 1981. This is an infill well located as per the attached plat.

Effective March 1, 1982, oil reserves recoverable will be 10,020 barrels and gas reserves recoverable will be 90,641 mcf.

Oil reserves were calculated from the attached rate/time curves to an economic limit of approximately 1 BOPD. Gas reserves were estimated using a study of the gas oil ratio performance not only on the specific well but on the entire pool.

My study reveals that as early as 1964 the producing well rate was 3.6 barrels of oil per day per well. The wells in the pool have remained on 40 acre spacing up until the past two years.

From infill well performance it is obvious that well density in this pool has to be increased to recover remaining reserves. The low permeability and low quality solution gas recovery mechanism will require reduced spacing to efficiently produce the reserves.

The daily producing rate for Well No. 27 was 10 BOPD in February 1982. This, of course, indicates that no interference has as yet been experienced from offset wells.

In my opinion the infill wells which increase the density of pattern will produce an amount of oil and gas reserves equal to the older wells in the field.

Therefore, it is my recommendation that well density be increased and it is my conclusion that infill wells will experience new reservoir conditions.

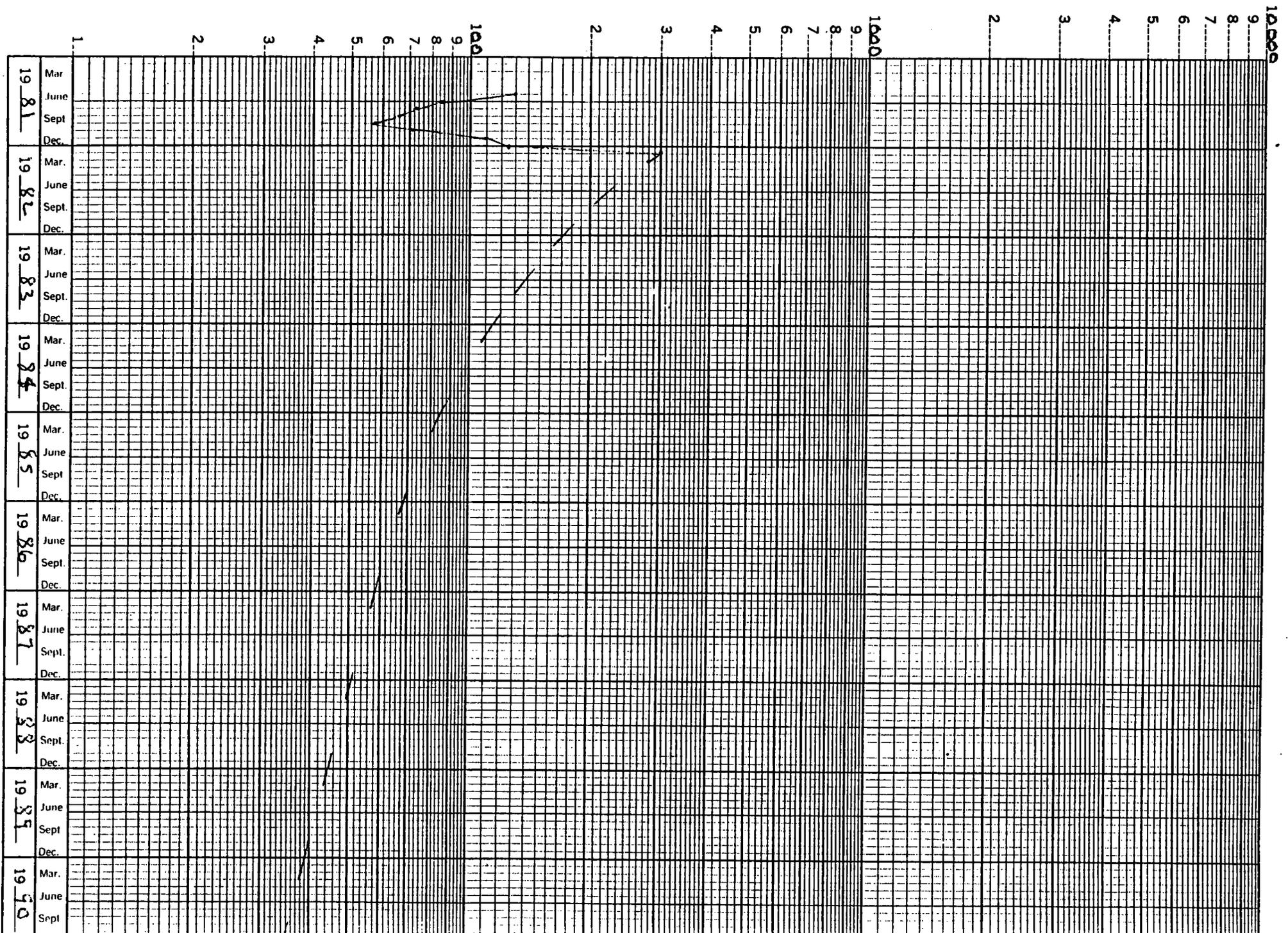
Paul G. White  
Paul G. White  
Petroleum Engineer

4-13-82  
Date

PGW/co  
Encl.

Page 9-b.

OIL/Bbls/month



WELL NO 27

Rule 11:

*Notice of this infill request has been set to Depco, Inc., 1000 Petroleum Bldg., Denver, Colorado 80202, by certified mail, as the only offset operator.*



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

LARRY KEHOE  
SECRETARY

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

Mr. Raye Miller  
Marbob Energy Corporation  
P.O. Drawer 217  
Artesia, NM 88210

Re: Application for NGPA Infill Well  
Findings Under Provisions of  
Order No. R-6013-A NG Phillips

State Well Nos. 25, 27, 28, 29 and

West Artesia Grayburg Unit Well

Nos. 22, 24, and 25.

Dear Raye:

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,

Michael E. Stogner,  
Petroleum Engineer

MES/dp

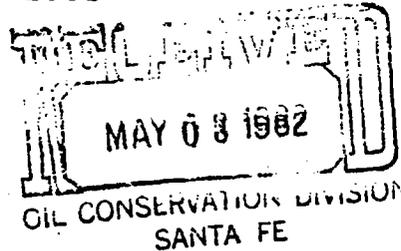
# Marbob Energy Corporation

P. O. DRAWER 217  
ARTESIA, NEW MEXICO 88210

— OFFICE PHONE —  
(505) 748-3303  
(505) 746-2422

April 29, 1982

— NIGHT PHONES —  
(505) 746-6197  
(505) 746-6500



Mr. Michael Stogner  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Dear Mike:

Per your request, we are enclosing Paul G. White's calculations on the oil reserves for the NG Phillips St. #25, 27, 28 and 29 and the West Artesia Grayburg Unit #22, 24, 21 and 25.

Let us know if you need further information.

Very truly yours,

Carolyn Orris  
Production Clerk

cc

Encl.

Marbob Energy Corp.  
NG Phillips St. #27  
2264.4 FSL 977.8 FEL Sec. 27-T17S-R28E

<u>Year</u>	<u>Gross Monthly Oil - bbls.</u>	<u>Gross Yearly Oil - bbls.</u>
1982	220	2,640
1983	138	1,656
1984	100	1,200
1985	85	1,020
1986	68	816
1987	58	696
1988	51	612
1989	44	528
1990	38	456
1991	33	<u>396</u>
Total Oil Remaining		10,020
Cumulative to 1/1/82		<u>1,297</u>
Total Ultimate Reserves		11,317

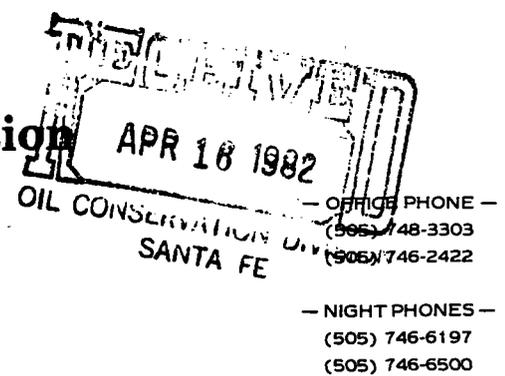
Gas-Oil Ratio Average - 9,046 to 1

Remaining Gas Reserves - 90,641 MCF

# Marbob Energy Corporation

P. O. DRAWER 217  
ARTESIA, NEW MEXICO 88210

April 15, 1982



Mr. Michael E. Stogner  
Petroleum Engineer  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Re: Infill well applications

Dear Mike:

Enclosed are three more infill applications - NG  
Phillips St. #29, NG Phillips St. #28 and NG Phillips St.  
#27. I hope these are acceptable. If you have any questions  
or problems please call.

Sincerely,

Ray Miller  
Ray Miller  
Land Department

RPM/co

Encl.

Request for Infill Finding on

NG Phillips State #27 Santa Fe

In accordance with Administrative

Procedures Amended February 8, 1980

NEW MEXICO OIL CONSERVATION COMMISSION

30-015-23731

RECEIVED	
DISTRIBUTION	
DATE	
BY	
AND OFFICE	
OPERATOR	

APR 16 1981

Form C-101  
Revised 14-85

5A. Indicate Type of Lease  
STATE  FEDERAL

5B. State Oil & Gas Lease No.  
B-2071

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Type of Work: DRILL  DEEPEN  PLUG BACK

Type of Well: OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

Name of Operator: Marbob Energy Corporation

Address of Operator: P.O. Box 304, Artesia, N.M. 88210

Location of Well: UNIT LETTER I LOCATED 2264.4 FEET FROM THE South LINE  
977.8 FEET FROM THE East LINE OF SEC. 27 TWP. 17S RGE. 28E NMPM

7. Unit Agreement Name

8. Firm or Lease Name: NG Phillips St.

9. Well No.: 27

10. Field and Pool, or Wildcat: Artesia Qn. Grbg. SA

18. County: Eddy

16. Proposed Depth: 2150'

19A. Formation: Premier

20. Rotary or C.T.: Rotary

Elevations (Show whether DF, RT, etc.): 3649.5' GR

21A. Kind & Status Plug. Bond: Statewide active

21B. Drilling Contractor: Stewart Bros Drlg. Co.

22. Approx. Date Work will start: 4/5/81

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	BETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8 5/8"	24#	550'	350	
7 7/8"	4 1/2"	10.50#	2150'	Attempt to circ.	

We propose to drill to 550', set 8 5/8" 24# casing, drill on to 2150' to test the Premier formation, run 4 1/2" 10.50# casing and cement.

APPROVAL PERIOD: 28 DAYS  
PERMIT EXPIRES: 10-3-81  
UNLESS DRILLING UNDERWAY

ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCE ZONE. GIVE SLOTTED PREVENTER PROGRAM, IF ANY.

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

Signature: *Charles Ows* Title: Production Clerk Date: 4/2/81

(This space for State Use)

PREPARED BY: *W. A. Gressett* TITLE: SUPERVISOR, DISTRICT II DATE: APR 02 1981

CONDITIONS OF APPROVAL, IF ANY:

MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102  
Superseded C.  
Effective 1-4-8

All distances must be from the outer boundaries of the section. APR 16 1982

MARBOB ENERGY CORPORATION		Lease		H. G. PHILLIPS OIL STATE		Well No.	
Unit Letter	Section	Township	Range	County		27	
I	27	17 South	28 East	SANTA FE EDDY			

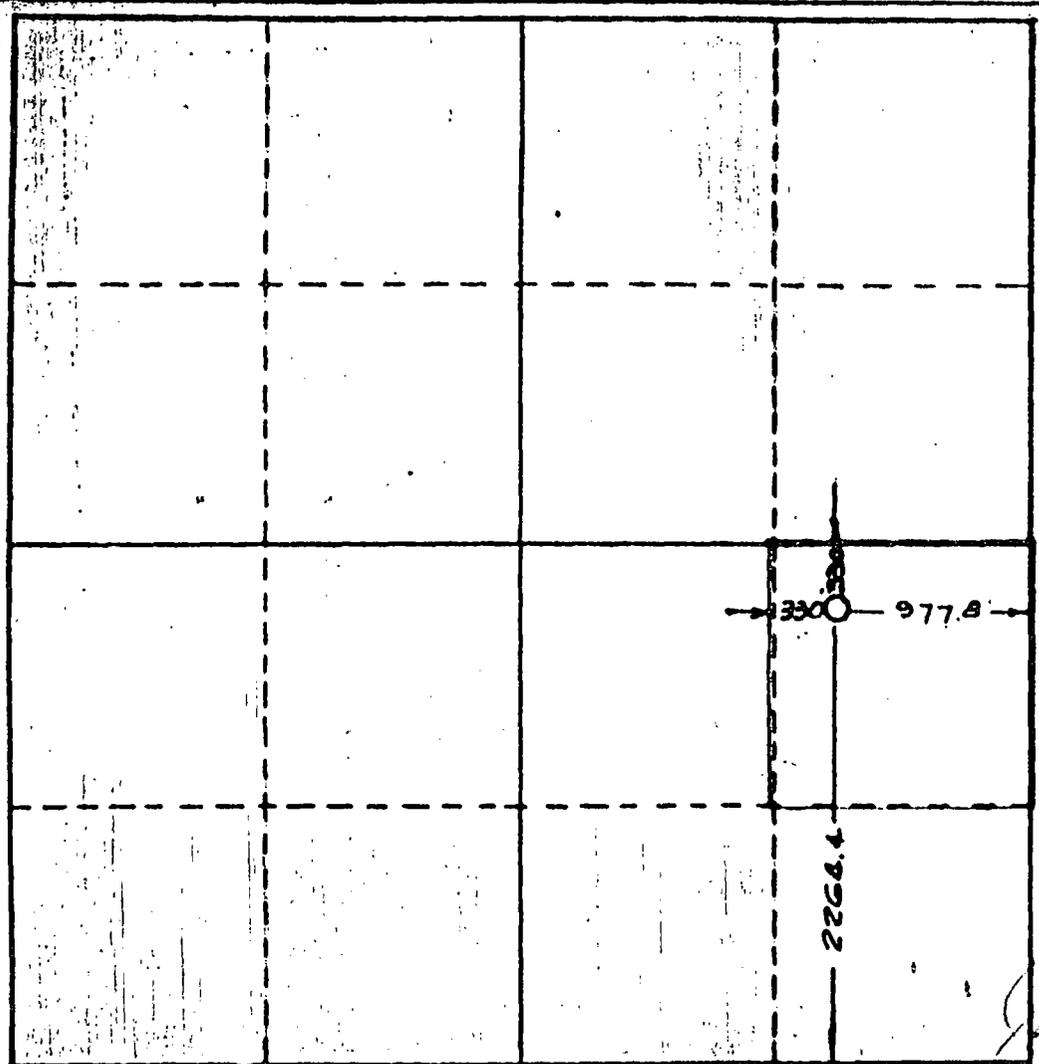
Actual Well Location of Well:		2264.6 feet from the South line and		977.8 feet from the East line	
Ground Level Elev:	Producing Formation	Pool	Dedicated Acreage:		Acres
3049.5	Premier	Artesia Qn. Grbg. SA	40		

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, force-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.

*Carolyn Orris*

Name  
Carolyn Orris

Position  
Production Clerk

Company  
Marbob Energy Corp.

Date  
4/2/81

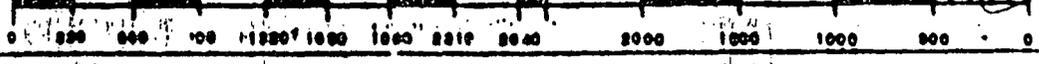
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
February 16, 1981

Registered Professional Engineer  
and/or Land Surveyor

*J. W. Shear*

Certificate No.  
1559



PLC 3772

Rule 6:

NG Phillips State #27

Pool: Artesia Queen Grayburg San Andres

Standard spacing unit - 40 acres

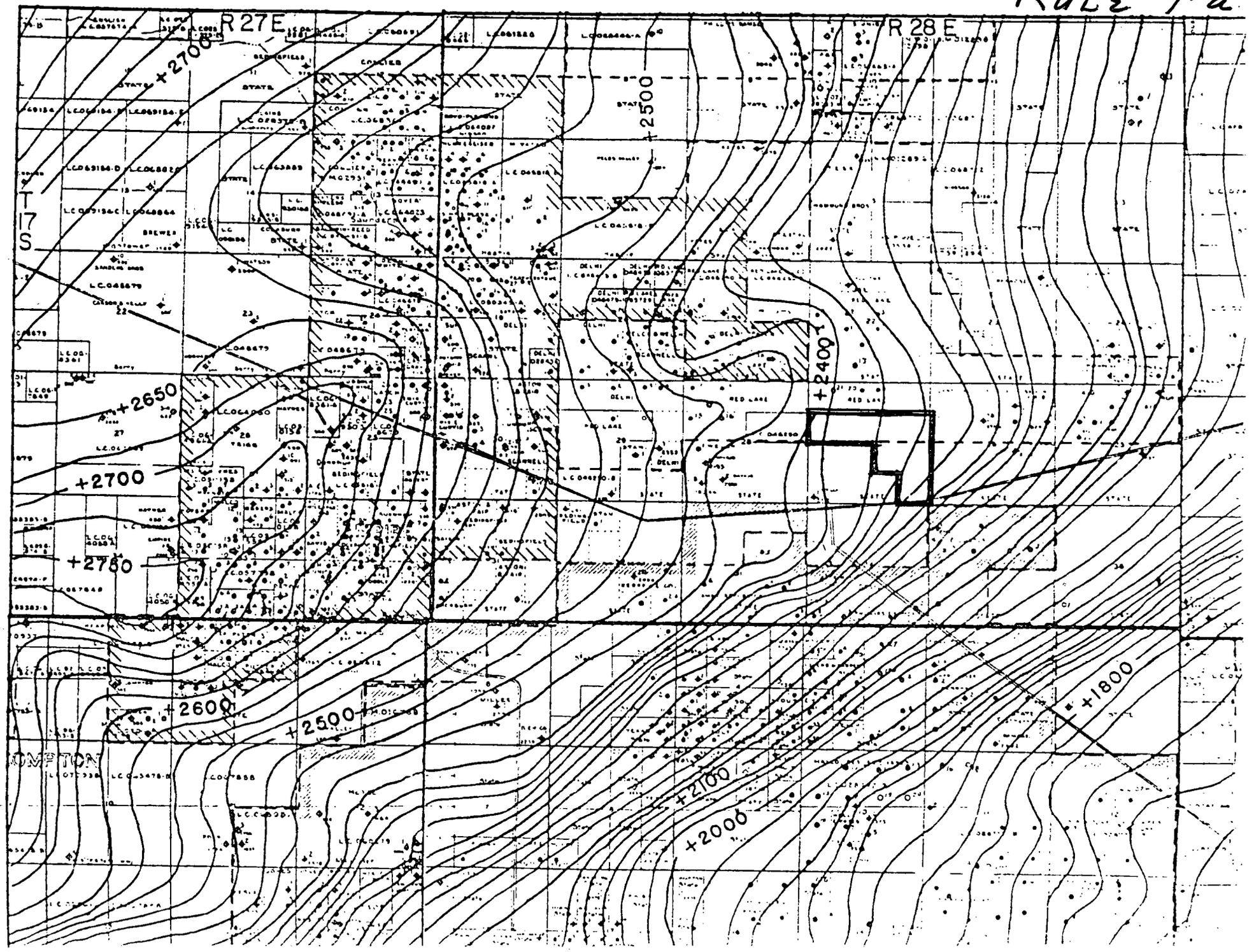
Rule 7:

NA

Rule 8:

- a. NG Phillips St. #27 - 2264.4 FSL 977.8 FEL Sec. 27-17S-28E  
NG Phillips St. #4 - 1650 FSL 330 FEL Sec. 27-17S-28E
- b. #27 - 4/5/81  
#4 - 11/11/60
- c. #27 - 5/19/81  
#4 - 1/4/61, converted to injection 8/22/68
- d. None
- e. NA
- f. 10 bbl. oil, 115 mcf gas/day - #27  
#4 - NA
- g. The NG Phillips St. #27 was completed in both the Premier zone (2018-2028') and a deeper zone (2375-2425'). The #4 well was only drilled to 2100' and was completed in the Premier zone 1/4/61. It was converted to injection in September 1968. At the time of conversion it was producing less than 10 mcf per day. The Phillips #27 needed to be drilled to open the additional lower zone, drain reserves that because of the low permeability and poor recovery mechanism could not be drained through the #4, and because the #4 needs to remain on injection as it is currently the only injection well on the lease for the disposal of produced water.

RULE 9-a



Marbob Energy Corporation  
Artesia Queen Grayburg San Andres  
NG Phillips State  
Well #27

Pertinent Engineering Data and Conclusions:

Well No. 27 was completed in the Artesia Queen Grayburg pool in May 1981. This is an infill well located as per the attached plat.

Effective March 1, 1982, oil reserves recoverable will be 10,020 barrels and gas reserves recoverable will be 90,641 mcf.

Oil reserves were calculated from the attached rate/time curves to an economic limit of approximately 1 BOPD. Gas reserves were estimated using a study of the gas oil ratio performance not only on the specific well but on the entire pool.

My study reveals that as early as 1964 the producing well rate was 3.6 barrels of oil per day per well. The wells in the pool have remained on 40 acre spacing up until the past two years.

From infill well performance it is obvious that well density in this pool has to be increased to recover remaining reserves. The low permeability and low quality solution gas recovery mechanism will require reduced spacing to efficiently produce the reserves.

The daily producing rate for Well No. 27 was 10 BOPD in February 1982. This, of course, indicates that no interference has as yet been experienced from offset wells.

In my opinion the infill wells which increase the density of pattern will produce an amount of oil and gas reserves equal to the older wells in the field.

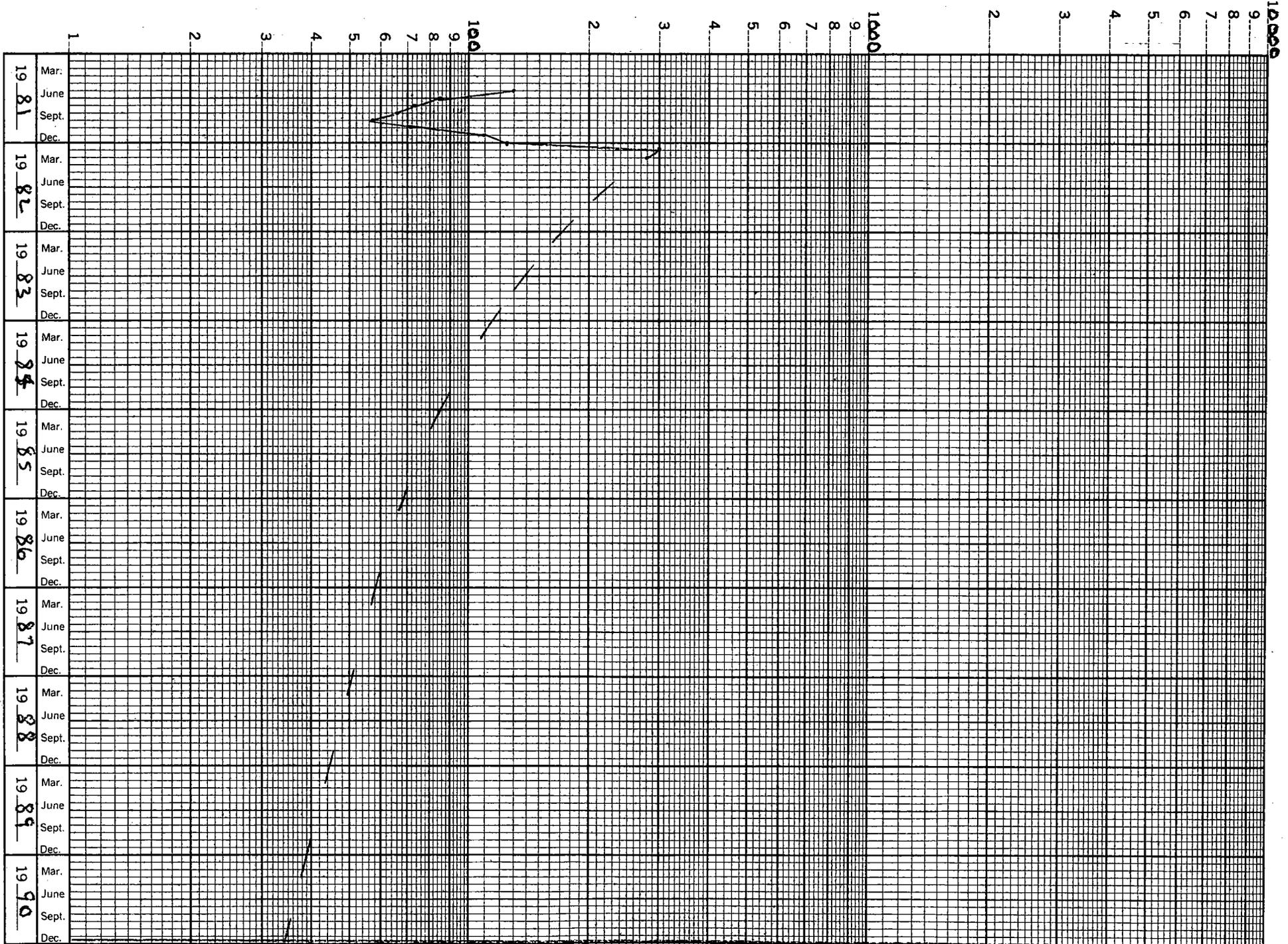
Therefore, it is my recommendation that well density be increased and it is my conclusion that infill wells will experience new reservoir conditions.

Paul G. White  
Paul G. White  
Petroleum Engineer  
4-13-82  
Date

PGW/co  
Encl.

RULE 9-b.

OIL/Bbls/month



N.G. PHILLIPS  
WELL NO 27

Rule 11:

Notice of this infill request has been set to Depco, Inc., 1000 Petroleum Bldg., Denver, Colorado 80202, by certified mail, as the only offset operator.



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

LARRY KEHOE  
SECRETARY

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

Mr. Raye Miller  
Marbob Energy Corporation  
P.O. Drawer 217  
Artesia, NM 88210

Re: Application for NGPA Infill Well  
Findings Under Provisions of  
Order No. R-6013-A NG Phillips

State Well Nos. 25, (27) 28, 29 and

West Artesia Grayburg Unit Well

Nos. 22, 24, and 25.

Dear Raye:

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,

Michael E. Stogner,  
Petroleum Engineer

MES/dp

- A copy of Form C-101 must be submitted.
- A copy of Form C-102 must be submitted.
- 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.

---

---

---

---

- The geologic and reservoir data is incomplete or insufficient.

All of Paul G. White's reports refer in paragraph three to calculated oil reserves, please include this calculations.

---

---

---

- Other:

---

---

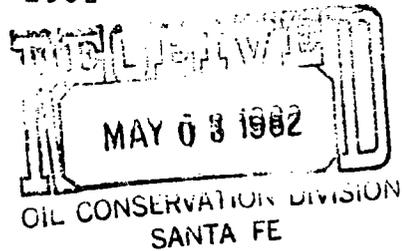
# Marbob Energy Corporation

P. O. DRAWER 217  
ARTESIA, NEW MEXICO 88210

— OFFICE PHONE —  
(505) 748-3303  
(505) 746-2422

April 29, 1982

— NIGHT PHONES —  
(505) 746-6197  
(505) 746-6500



Mr. Michael Stogner  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Dear Mike:

Per your request, we are enclosing Paul G. White's calculations on the oil reserves for the NG Phillips St. #25, 27, 28 and 29 and the West Artesia Grayburg Unit #22, 24, 21 and 25.

Let us know if you need further information.

Very truly yours,



Carolyn Orris  
Carolyn Orris  
Production Clerk

CO

Encl.

Marbob Energy Corp.  
NG Phillips St. #27  
2264.4 FSL 977.8 FEL Sec. 27-T17S-R28E

<u>Year</u>	<u>Gross Monthly Oil - bbls.</u>	<u>Gross Yearly Oil - bbls.</u>
1982	220	2,640
1983	138	1,656
1984	100	1,200
1985	85	1,020
1986	68	816
1987	58	696
1988	51	612
1989	44	528
1990	38	456
1991	33	396
		<hr/>
Total Oil Remaining		10,020
Cumulative to 1/1/82		<u>1,297</u>
Total Ultimate Reserves		11,317

Gas-Oil Ratio Average - 9,046 to 1

Remaining Gas Reserves - 90,641 MCF