

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 CORP. Well Name and No. M. Dodd "A" Federal Well No. 26

Location: Unit J Sec. 22 Twp. 17 South Rng. 29 East 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 Grayburg Jackson Pool, and the standard spacing unit in said pool is 40 acres.
- (4) That a 40-acre proration unit comprising the NW/4 SE/4 of Sec. 22, Twp. 17 South, Rng. 29 East, is currently dedicated to the M. Dodd "A" Federal Wells No. 6 & 12 located in Unit J 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 9,553 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 26 day of June, 19 84.

  
DIVISION DIRECTOR                      EXAMINER                     

cc: OGD Artesia  
Well File  
USBLM - Roswell

Received March 7, 1984

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

ADMINISTRATIVE ORDER  
NFL 86

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

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Operator Marbach Energy Corporation Well Name and No. M. Dodd "A" Federal Well No. 26  
Location: Unit J Sec. 22 Twp. 17 South Rng. 29 East Cty. Eddy

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- (4) That a 40-acre proration unit comprising the NW 1/4 SE 1/4 of Sec. 22, Twp. 17 South, Rng. 29 East, is currently dedicated to the M. Dodd "A" Federal Wells No. 6 and 12, both located in Unit J of said section.
- (5) That this proration unit is (X) standard ( ) nonstandard; if nonstandard, said unit was previously approved by Order No. \_\_\_\_\_.
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- (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\_\_\_\_.

c.c. - OCO Arizona

Well file

USBLM - Powell

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

Request for Infill Finding on

M. Dodd "A" #26

in accordance with Administrative  
Procedures amended February 8, 1980

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

Marbob Energy Corporation

## 3. ADDRESS OF OPERATOR

P.O. Dr. 217, Artesia, N.M. 88210

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

At surface 2615 FSL 1345 FEL

At proposed prod. zone

Same

NWSE  
J

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

20 air miles east of Artesia, N.M. 88210

## 15. DISTANCE FROM PROPOSED\*

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

25'

## 16. NO. OF ACRES IN LEASE

600

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.

600'

## 19. PROPOSED DEPTH

3450'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3575' GR

## 22. APPROX. DATE WORK WILL START\*

9/15/83

23. *L. L. N. 8/20/83*

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	350'	Sufficient to circulate
7 7/8"	5 1/2"	15.50#	3450'	450 sax, to base of salt

Pay zone will be selectively perforated and stimulated as needed for optimum production.

Attached are: 1. Location & acreage dedication plat  
2. Supplemental drilling data  
3. Surface use plan

RECEIVED  
AUG 30 2 07 PM '83  
BUREAU OF LAND MANAGEMENT  
POST OFFICE DISTRICT

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

*Carolyn Quinn*

TITLE

Production Clerk

DATE

8/29/83

#5

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

*David A. Glass*

TITLE

*Chief, Branch of Fluids*

DATE

09-21-83

CONDITIONS OF APPROVAL, IF ANY:

*For Armando A. Lopez*

\*See Instructions On Reverse Side

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

*NMOC Approval For Northstar Location*

**NE( EXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

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

All distances must be from the outer boundaries of the Section.

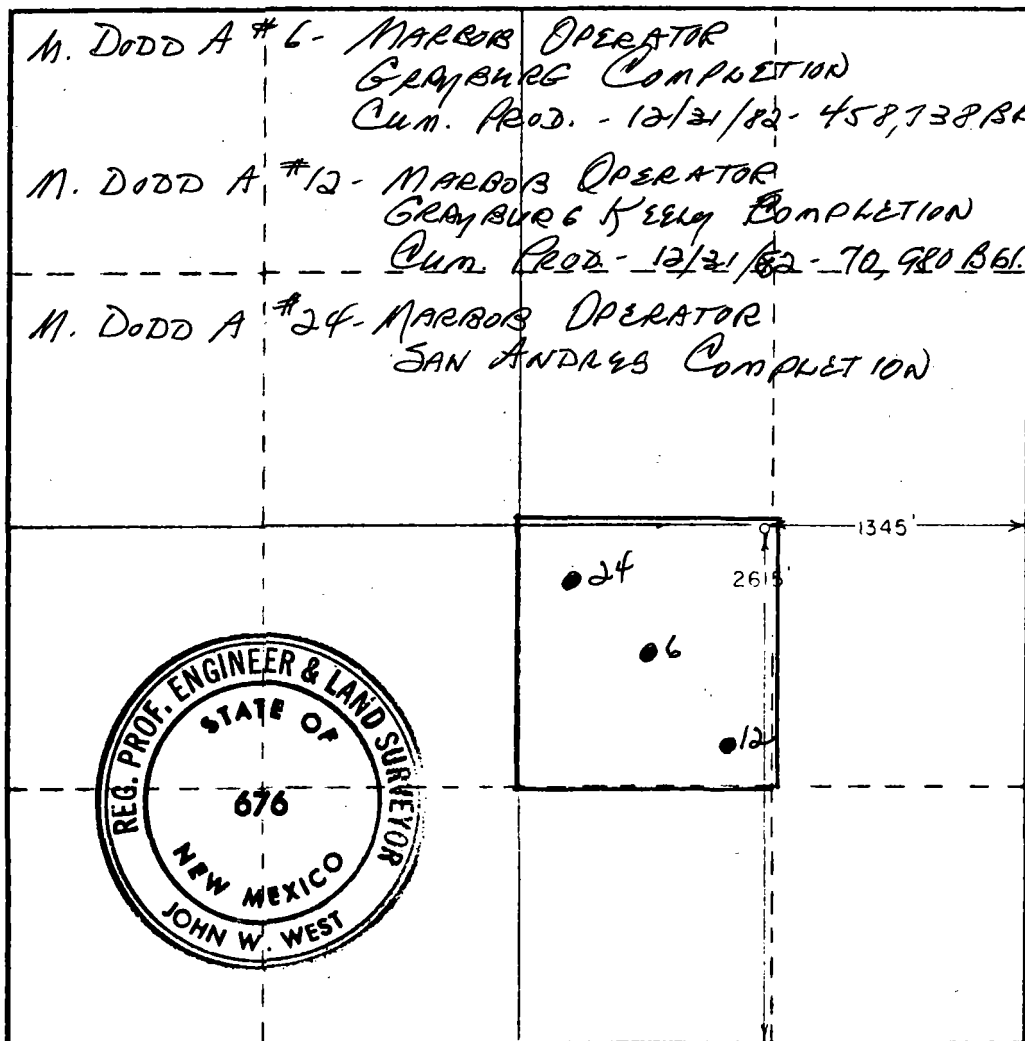
Operator <b>MARBOB ENERGY CORP.</b>		Lease <b>M DODD A</b>		Well No. <b>26</b>
Unit Letter <b>J</b>	Section <b>22</b>	Township <b>17S</b>	Range <b>29E</b>	County <b>EDDY</b>
Actual Footage Location of Well: <b>2615</b> feet from the <b>SOUTH</b> line and <b>1345</b> feet from the <b>EAST</b> line				
Ground Level Elev. <b>3575.0</b>	Producing Formation <b>San Andres</b>	Pool <b>Grayburg Jackson</b>	Dedicated Acreage: <b>40</b> Acres	

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

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

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

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



**CERTIFICATION**

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

*Carolyn Orris*

Name  
**Carolyn Orris**  
Position  
**Production Clerk**  
Company  
**Marbob Energy Corporation**  
Date  
**8/29/83**

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  
**11/13/82**  
Registered Professional Engineer and/or Land Surveyor  
*John W. West*

Certificate No.  
**JOHN W. WEST N.M. NO. 676**

**Rule 6:**

**M. Dodd "A" #26**

**Pool: Grayburg Jackson Seven Rivers Queen Grayburg San Andres**

**Standard spacing unit: 40 acres**

**Rule 7:**

**NA**

Rule 8:

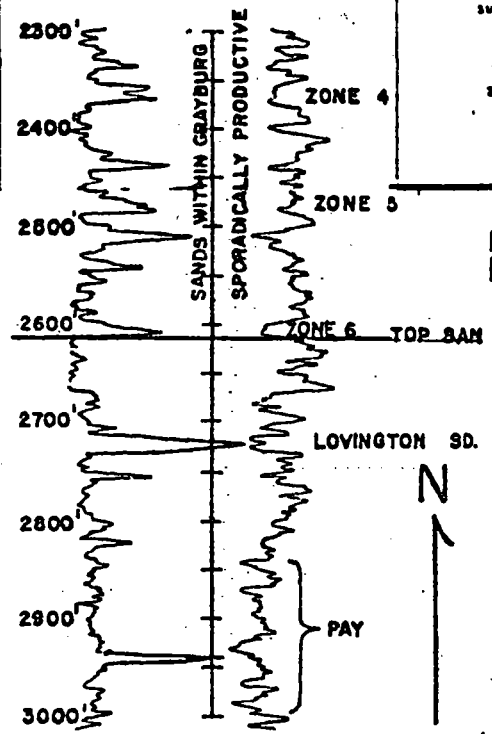
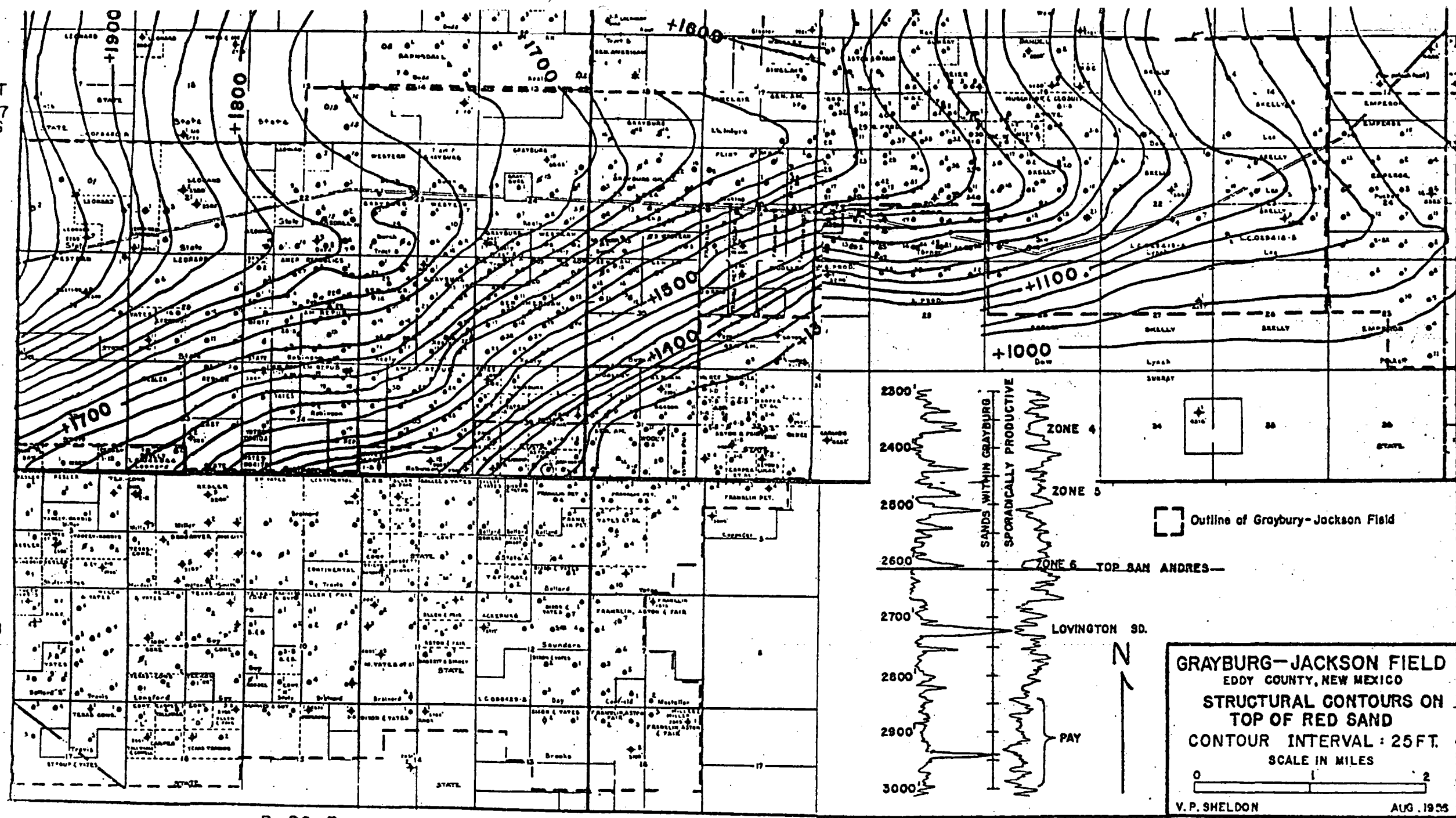
- a. M. Dodd A #26 - 2615 FSL 1345 FEL Sec. 22-T17S-R29E  
M. Dodd A #24 - 2310 FSL 2310 FEL Sec. 22-T17S-R29E  
M. Dodd A #12 - 1650 FSL 1650 FEL Sec. 22-T17S-R29E  
M. Dodd A #6 - 1980 FSL 1980 FEL Sec. 22-T17S-R29E
- b. #26 - 11/12/83  
#24 - 8/2/83  
#12 - 12/6/55  
#6 - 4/10/37
- c. #26 - 1/4/84  
#24 - 8/19/83  
#12 - 3/9/56  
#6 - 6/2/37
- d. None
- e. #26 - 18 bbl oil, 10 mcf gas/day  
#24 - 42 bbl oil, 165 mcf gas/day  
#12 - 24 bbl oil, 2-3 mcf gas/day  
#6 - 3 bbl oil, no gas/day
- f. NA
- g. The #4 well produces no gas. The #12 well produces a negligible amount of gas. The #24 experienced new reservoir conditions when it was drilled. Likewise, new reservoir conditions have been experienced on the #26. The #26 did not impact the production reservoir of the #24. The complexity of this reservoir and the new reservoir type production rates obtained in the new well indicate it was necessary to drill the new well to properly drain the reservoir.

Rule 9-A

T  
17  
S

T  
18  
S

R 29 E



Outline of Grayburg-Jackson Field

**GRAYBURG-JACKSON FIELD**  
EDDY COUNTY, NEW MEXICO  
**STRUCTURAL CONTOURS ON**  
**TOP OF RED SAND**  
CONTOUR INTERVAL: 25 FT.  
SCALE IN MILES

V. P. SHELDON

AUG. 1935





1/2  
1/4

1/2

1/4

1/4

2

1

1/2 1/4

Marbob Energy Corporation  
M. Dodd "A" Fed. Well #26  
Grayburg Jackson  
Eddy County, New Mexico

Engineering Appraisal and Conclusions:

Well No. 26 was completed in the Grayburg Jackson Pool on January 1, 1984. This is an infill well located as per the attached plat.

Two accepted engineering principles were used in the preparation of estimated recoverable hydrocarbons. First, an analysis of the electric log was made with a volumetric calculation based on a twenty acre drainage unit. Secondly, analagous comparisons with comparable wells in the area were utilized. The economic producing limit on the wells was considered to be reached with a producing rate of 1 BOPD.

Effective January 1, 1984 the recoverable oil reserves will be 19,106 barrels, recoverable gas reserves will be 9,553 mcf.

Based on the initial producing rate of this well it is evident that increased pattern density on no smaller allocation than 20 acres is necessary to properly drain and produce existing reserves.

It is also my conclusion that infill wells will experience original reservoir conditions.

Paul G. White  
Paul G. White  
Petroleum Engineer

2-29-84  
Date

*Rule # 9-B*

Rule 11:

Notice of this infill request has been sent to General American Oil Co., P.O. Box 3306, Odessa, Texas 79760; and Tenneco Oil Exploration & Production, 6800 Park Ten Blvd., Suite 200 North, San Antonio, Texas 79212; as offset operators.

# Marbob Energy Corporation

P. O. DRAWER 217  
ARTESIA, NEW MEXICO 88210

February 20, 1984

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

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

Re: Notice to Offset Operators

Dear Sirs:

Notice is hereby given to you as an offset operator to the request of Marbob Energy Corporation to the New Mexico Oil Conservation Division for an infill finding on the following well:

M. Dodd "A" #26  
2615 FSL 1345 FEL Sec. 22-T17S-R29E  
Eddy County, N.M.

This notice is given pursuant to the Special Rules and Regulations Natural Gas Policy Act Infill Finding Administrative Procedure (amended February 8, 1980). These special rules and regulations shall apply to effective and efficient drainage findings for completed infill wells pursuant to Section 271.305 of the final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978.

If there are any questions please contact me.

Very truly yours,

  
Raye P. Miller  
Land Department

RPM/co

2-20-84



*Request for Infill Finding on*

*M. Dodd "A" #26*

*in accordance with Administrative  
Procedures amended February 8, 1980*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-015-24615

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC-028731 (A)
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Marbob Energy Corporation		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Dr. 217, Artesia, N.M. 88210		8. FARM OR LEASE NAME M. Dodd "A"
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 2615 FSL 1345 FEL		9. WELL NO. 26
At proposed prod. zone Same		10. FIELD AND POOL, OR WILDCAT Grayburg Jackson
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 20 air miles east of Artesia, N.M. 88210		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22-17S-29E
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 25'	16. NO. OF ACRES IN LEASE 600	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. 600'	19. PROPOSED DEPTH 3450'	20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3575' GR		22. APPROX. DATE WORK WILL START* 9/15/83

NWSE

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	350'	Sufficient to circulate
7 7/8"	5 1/2"	15.50#	3450'	450 sax, to base of salt

Pay zone will be selectively perforated and stimulated as needed for optimum production.

Attached are: 1. Location & acreage dedication plat  
2. Supplemental drilling data  
3. Surface use plan

RECEIVED  
AUG 30 2 07 PM '83  
FEDERAL BUREAU OF REVENUE

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 Carolyn Orin TITLE Production Clerk DATE 8/29/83 #5

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY David A. Glass TITLE Chief Branch of Fluids DATE 09-21-83  
CONDITIONS OF APPROVAL, IF ANY: For Armando A. Lopez

\*See Instructions On Reverse Side

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

NMOC Approval For. Unorthodox Location

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
 Supersedes C-120  
 Effective 1-1-65

All distances must be from the outer boundaries of the Section

Lessor <b>MARBOB ENERGY CORP.</b>			Lessee <b>M DODD A</b>			Well No. <b>26</b>
Unit Letter <b>J</b>	Section <b>22</b>	Township <b>17S</b>	Range <b>29E</b>	County <b>EDDY</b>		
Actual Footage Location of Well: <b>2615</b> feet from the <b>SOUTH</b> line and <b>1345</b> feet from the <b>EAST</b> line						
Ground Level Elev. <b>3575.0</b>	Producing Formation <b>San Andres</b>		Pool <b>Grayburg Jackson</b>		Dedicated Acreage: <b>40</b> Acres	

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

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

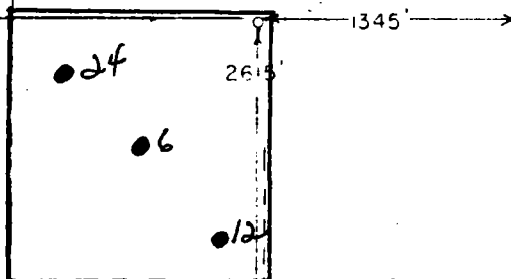
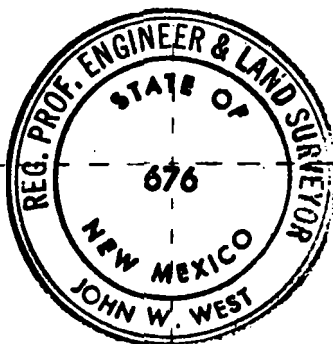
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

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

*M. DODD A #6 - MARBOB OPERATOR  
 GRAYBURG COMPLETION  
 Cum. Prod. - 12/31/82 - 458,738 BBL*

*M. DODD A #12 - MARBOB OPERATOR  
 GRAYBURG KEY COMPLETION  
 Cum. Prod. - 12/31/82 - 70,980 BBL*

*M. DODD A #24 - MARBOB OPERATOR  
 SAN ANDRES COMPLETION*



**CERTIFICATION**

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

Name  
*Carolyn Orris*  
 Carolyn Orris  
 Position  
 Production Clerk  
 Company  
 Marbob Energy Corporation

Date  
 8/29/83

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  
 11/13/82  
 Registered Professional Engineer and/or Land Surveyor  
*John W. West*

Certificate No.  
 JOHN W. WEST N.M. NO. 676

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600



Rule 6:

M. Dodd "A" #26

Pool: Grayburg Jackson Seven Rivers Queen Grayburg San Andres

Standard spacing unit: 40 acres

Rule 7:

NA

Rule 8:

- a. M. Dodd A #26 - 2615 FSL 1345 FEL Sec. 22-T17S-R29E  
M. Dodd A #24 - 2310 FSL 2310 FEL Sec. 22-T17S-R29E  
M. Dodd A #12 - 1650 FSL 1650 FEL Sec. 22-T17S-R29E  
M. Dodd A #6 - 1980 FSL 1980 FEL Sec. 22-T17S-R29E
- b. #26 - 11/12/83  
#24 - 8/2/83  
#12 - 12/6/55  
#6 - 4/10/37
- c. #26 - 1/4/84  
#24 - 8/19/83  
#12 - 3/9/56  
#6 - 6/2/37
- d. None
- e. #26 - 18 bbl oil, 10 mcf gas/day  
#24 - 42 bbl oil, 165 mcf gas/day  
#12 - 24 bbl oil, 2-3 mcf gas/day  
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- f. NA
- g. The #4 well produces no gas. The #12 well produces a negligible amount of gas. The #24 experienced new reservoir conditions when it was drilled. Likewise, new reservoir conditions have been experienced on the #26. The #26 did not impact the production reservoir of the #24. The complexity of this reservoir and the new reservoir type production rates obtained in the new well indicate it was necessary to drill the new well to properly drain the reservoir.



Marbob Energy Corporation  
M. Dodd "A" Fed. Well #26  
Grayburg Jackson  
Eddy County, New Mexico

Engineering Appraisal and Conclusions:

Well No. 26 was completed in the Grayburg Jackson Pool on January 1, 1984. This is an infill well located as per the attached plat.

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It is also my conclusion that infill wells will experience original reservoir conditions.

Paul G. White  
Paul G. White  
Petroleum Engineer

2-29-84  
Date

Rule # 9-B

Rule 11:

Notice of this infill request has been sent to General American Oil Co., P.O. Box 3306, Odessa, Texas 79760; and Tenneco Oil Exploration & Production, 6800 Park Ten Blvd., Suite 200 North, San Antonio, Texas 79212; as offset operators.

# Marbob Energy Corporation

P. O. DRAWER 217  
ARTESIA, NEW MEXICO 88210

February 20, 1984

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

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

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If there are any questions please contact me.

Very truly yours,

  
Raye P. Miller  
Land Department

RPM/co

2-20-84