

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. MARBOB ENERGY CORPORATION Well Name and No. M. Dodd "A" Fed. Well No. 23
Operator _____
Location: Unit P 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 SE/4 SE/4 of Sec. 22, Twp. 17 South, Rng. 29 East, is currently dedicated to the M. Dodd "A" Fed. Well No. 4 located in Unit P 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 53,199 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 25th day of June, 19 84.


DIVISION DIRECTOR

EXAMINER

Received 8/11/83
Subline Date 8/10/83

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

ADMINISTRATIVE ORDER

NFL 84

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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.

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Location: Unit P Sec. 22 Twp. 17 South Rng. 29 East Cty. Eddy

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(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 SE 1/4 SE 1/4 of Sec. 22, Twp. 17 South, Rng. 29 East, is currently dedicated to the M. Dodd "A" Fed. Well No. 4 located in Unit P of said section.

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

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

(7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 53,199 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:

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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____.

cc - OGD Artesia

NMO+GEC - Hobbs

U.S. B. L. M. - Roswell

DIVISION DIRECTOR _____ EXAMINER _____

Request for Infill Finding on

M. Dodd A Fed. #23

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

OPERATOR'S COPY

SUBMIT TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-B1425.

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. Drawer 217, Artesia, N.M. 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 990 FSL 990 FEL
At proposed prod. zone Same

5. LEASE DESIGNATION AND SERIAL NO.
LC 028731 (A)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
M. Dodd "A"

9. WELL NO.
23

10. FIELD AND POOL, OR WILDCAT
Grayburg Jackson

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Sec. 22-17S-29E

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
20 air miles east of Artesia, N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 990'

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. 350'

19. PROPOSED DEPTH
3500'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3557.7' GR

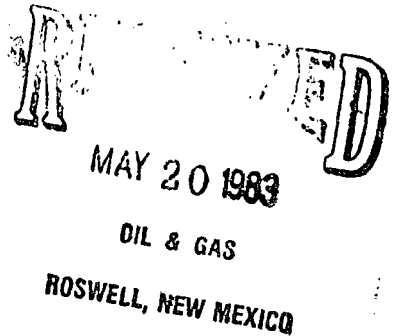
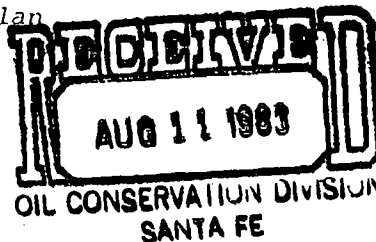
22. APPROX. DATE WORK WILL START*
6/1/83

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24#	350'	Sufficient to circulate
7 7/8"	5 1/2"	15.50#	3500'	Sufficient to circulate

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



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 Carson Quinn TITLE Production Clerk DATE 5/18/83

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Armando G. Lopez TITLE Acting Assistant District Manager DATE 6/8/83
CONDITIONS OF APPROVAL, IF ANY: for Minerals

*See Instructions On Reverse Side

Rule #5

**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

MARBOB ENERGY CORPORATION			Lease M. DODD "A"		Well No. 23
Section Letter P	Section 22	Township 17 SOUTH	Range 29 EAST	County EDDY	

Actual Footage Location of Well:

990	feet from the SOUTH	line and 990	feet from the EAST	line
Ground Level Elev. 3557.7	Producing Formation San Andres	Pool Grayburg Jackson	Dedicated Acreage: 40 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.) _____

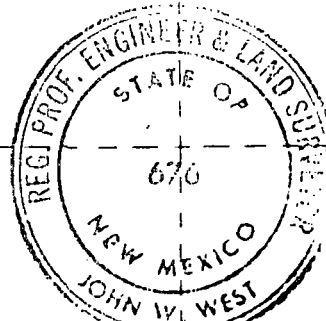
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

M. DODD A FED. #4 - MARBOB OPER. GRAYBURG COMPLETION

M. DODD A FED. #7 - MARBOB OPER. SAN ANDRES COMPLETION

RECEIVED
AUG 11 1983

**OIL CONSERVATION DIVISION
SANTA FE**



CERTIFICATION

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

Carolyn Orris

Carolyn Orris

Production Clerk

Marbob Energy Corporation

5/18/83

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.

Rule #5

Date Surveyed

2/10/83

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No

JOHN W. WEST NO. 676

0 330 660 990 1320 1650 1980 2310 2640 2000 1800 1000 500

Rule 6:

M. Dodd "A" Fed. #23

Pool: Grayburg Jackson Seven Rivers Queen Grayburg San Andres

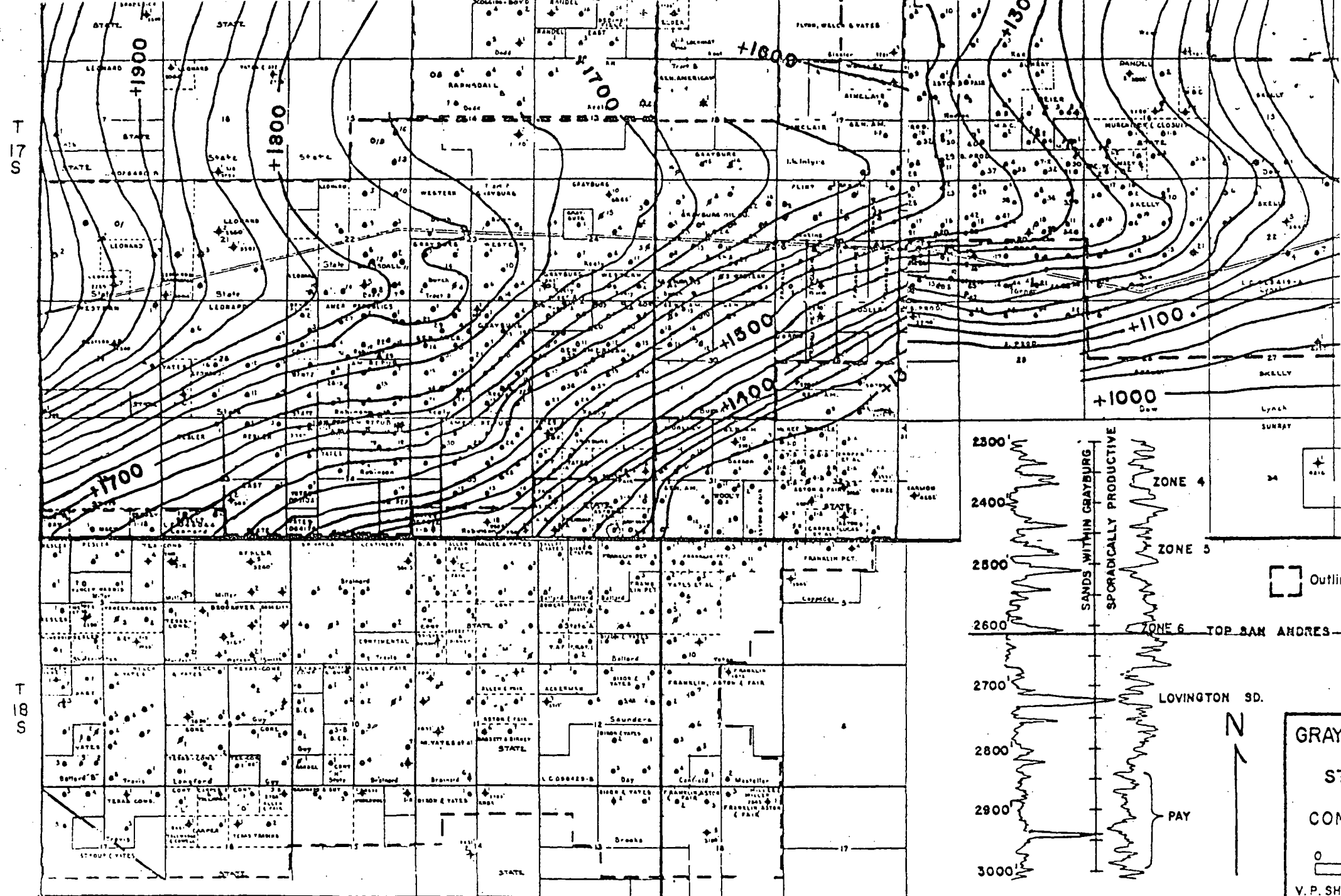
Standard spacing unit: 40 acres

Rule 7:

NA

Rule 8:

- a. M. Dodd A Fed. #4 - 660 FSL 660 FEL Sec. 22-T17S-R29E
M. Dodd A Fed. #7 - 330 FSL 330 FEL Sec. 22-T17S-R29E
M. Dodd A Fed. #23 - 990 FSL 990 FEL Sec. 22-T17S-R29E
- b. #4 - 10/17/36
#7 - 8/2/48
#23 - 6/22/83
- c. #4 - 12/11/36
#7 - 10/18/48
#23 - 7/15/83
- d. None
- e. #4 - 1 bbl. oil/day, no gas
#7 - 10 bbl. oil, 1 mcf gas/day
#23 - 45 bbl. oil/ 200 mcf gas/day
- f. NA
- g. Both wells #4 and #7 produce negligible gas. In 1982 #7 produced 711 mcf and #4 none for the entire year. This year a rework done on #7 did not result in an increase in gas production. With the new reservoir type production rates obtained in a new well it was necessary to drill the new well to drain the reservoir.



R 29 E

Rule # 9-A

Marbob Energy Corporation
M. Dodd "A" Fed. Well #22
Grayburg Jackson
Eddy County, New Mexico

Pertinent Engineering Data and Conclusions:

Well No. 23 was completed in the Grayburg Jackson Pool in July, 1983. This is an infill well located as per the attached plat.

Effective August 1, 1983, oil reserves recoverable will be 35,466 bbls and gas reserves recoverable will be 53,199 mcf.

Oil reserves were calculated from the electric log using a volumetric method for a twenty acre drainage. Analagous comparisons of comparable producing well history in the area were also utilized. The economic limit of the well was considered to be reached with a producing rate of 1 BOPD.

The original producing rate on this well was 45 BOPD. This rate is in excess of many of the older wells. It is evident from the producing rate that oil and gas reserves will be recovered only by increased pattern density. It is my conclusion that the infill wells will experience original reservoir conditions.

Paul G. White

Paul G. White
Petroleum Engineer

8-5-83

Date

Rule # 9-B

Marbob Energy Corporation
M. Dodd "A" #23
990 FSL 990 FEL Sec. 22-17S-29E
Eddy County, N.M.

Total oil remaining	35,466
Remaining gas reserves	53,199

Gas-Oil Ratio Average - 1,500 to 1

Rule #9-B

Rule 11:

Notice of this infill request has been sent to General American Oil Co., of Texas, P.O. Box 3306, Odessa, Texas 79760; Southland Royalty Co., 21 Desta Dr., Midland, Texas 79701; Tenneco Oil Exploration & Production, 6800 Park Ten Blvd., Suite 200 North, San Antonio, Texas 79212, as offset operators.

Request for Infill Finding on

M. Dodd A Fed. #23

*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. Drawer 217, Artesia, N.M. 88210

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

At surface

990 FSL 990 FEL

At proposed prod. zone Same

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

20 air miles east of Artesia, N.M.

10. DISTANCE FROM PROPOSED

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

990'

16. NO. OF ACRES IN LEASE

600

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

350'

19. PROPOSED DEPTH

3500'

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

3557.7' GR

5. LEASE DESIGNATION AND SERIAL NO.

LC 028731 (A)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

M. Dodd "A"

9. WELL NO.

23

10. FIELD AND POOL, OR WILDCAT

Grayburg Jackson

11. SEC., T., R., M., OR BLM.
AND SURVEY OR AREA

Sec. 22-17S-29E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOL

Rotary

22. APPROX. DATE WORK WILL START

6/1/83

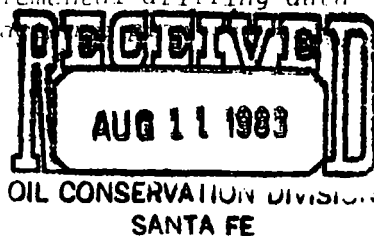
23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24#	350'	Sufficient to circulate
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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



MAY 20 1983
OIL & GAS
ROSWELL, NEW MEXICO

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

TITLE

Production Clerk

DATE

5/18/83

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

Acting Assistant District Manager
for Minerals

DATE

6/8/83

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Rule #5

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

MARBOB ENERGY CORPORATION			M. DODD "A"		23
Section	Range	County	State	Well Name	
P	22	17 SOUTH	29 EAST	EDDY	
Section 990 SOUTH			Section 990 EAST		
San Level Elev. 3557.7			Grayburg Jackson		40
San Andres			Acreage		

- Outline the acreage dedicated to the subject well by colored pencil. (Each mark on the plat below)
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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:

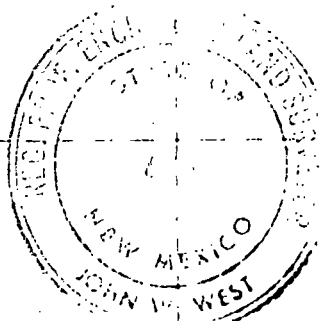
If answer is "no," list the owners and their descriptions which have not been consolidated (Use reverse side of this form if necessary):

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

M. DODD A. FED. #4 - MARBOB OPER.
GRAYBURG COMPLETION

M. DODD A. FED. #7 - MARBOB OPER.
SAN ANDRES COMPLETION

RECEIVED
AUG 11 1983
OIL CONSERVATION DIVISION
SANTA FE



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

Carolyn Orris

Carolyn Orris

Production Clerk

Marbob Energy Corporation

5/18/83

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

K. R. H. #5

2/10/83

Registered Professional Engineer
No. 11111

John W. West

Certified by

JOHN W. WEST NO. 676

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

Rule 6:

M. Dodd "A" Fed. #23

Pool: Grayburg Jackson Seven Rivers Queen Grayburg San Andres

Standard spacing unit: 40 acres

• Rule 7:

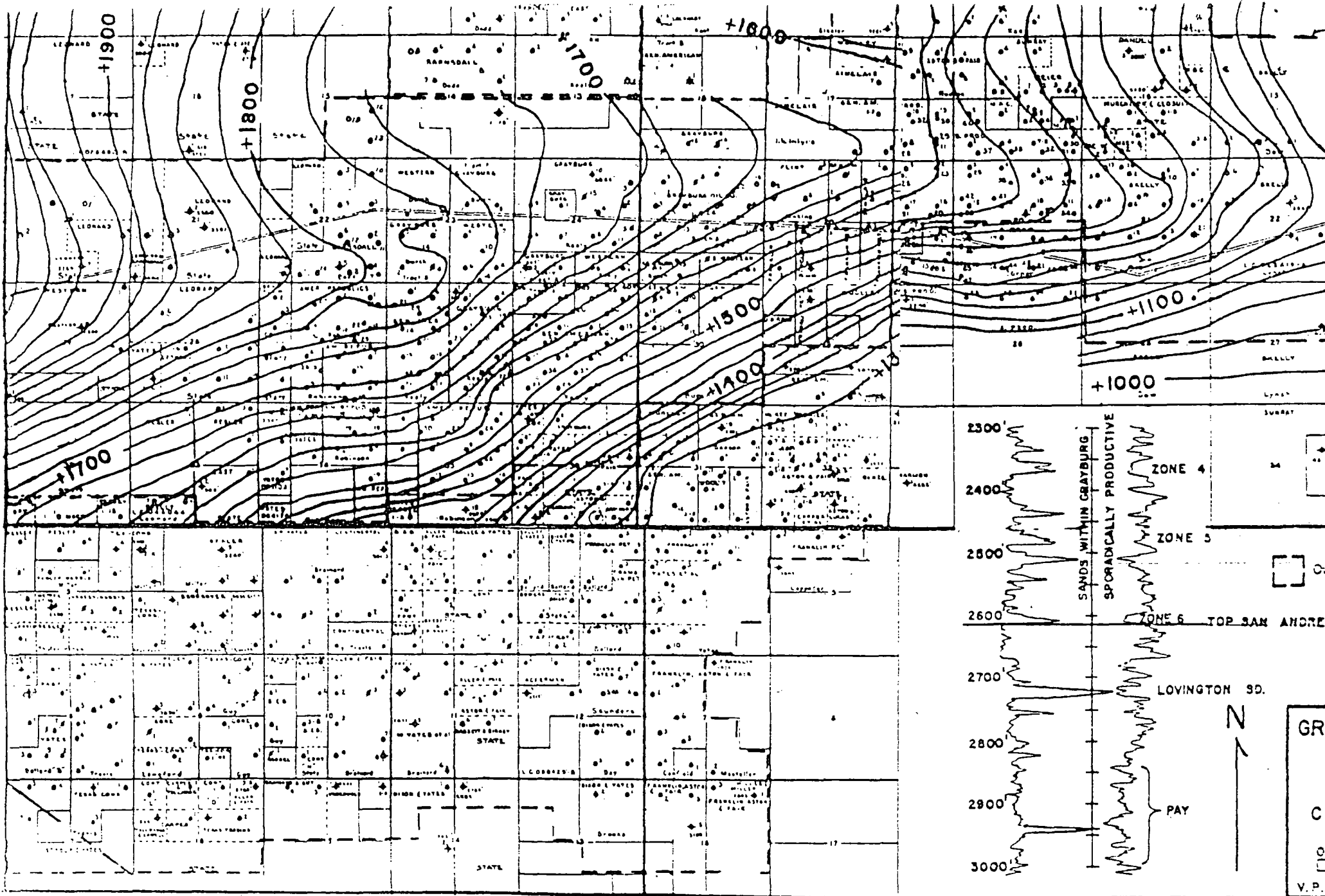
NA

Rule 8:

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M. Dodd A Fed. #7 - 330 FSL 330 FEL Sec. 22-T17S-R29E
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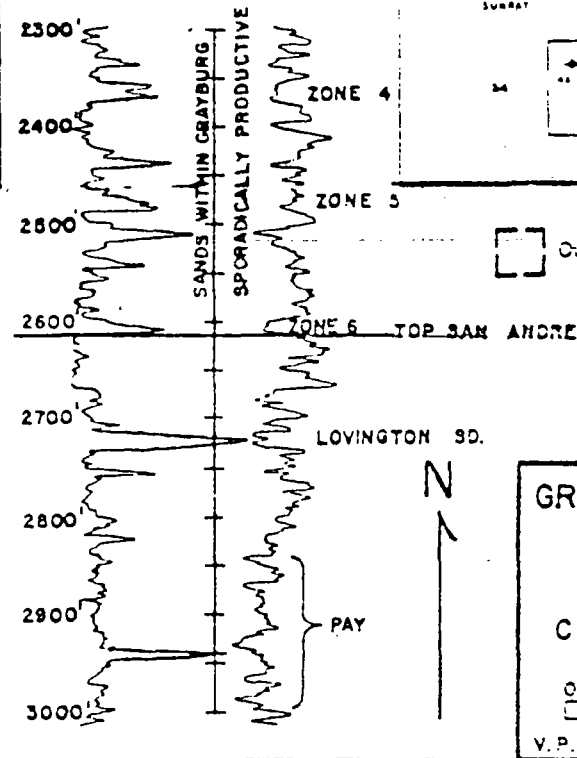
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R 29 E

Well # 9-A



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Grayburg Jackson
Eddy County, New Mexico

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Paul G. White

Paul G. White
Petroleum Engineer

8-5-83

Date

Rule # 9-B

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M. Dodd "A" #23
990 FSL 990 FEL Sec. 22-17S-29E
Eddy County, N.M.

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