

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)

30-025-07012

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☐

Recompletion

RE-ENTER ☒

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL

WELL ☐

GAS

WELL ☒

OTHER ☐

SINGLE

ZONE ☒

MULTIPLE

ZONE ☐

7. Lease Name or Unit Agreement Name

Marshall Com

2. Name of Operator

Mobil Producing Tx. & N.M. Inc.

8. Well No.

2

3. Address of Operator

c/o Mobil Exploration & Producing U.S. Inc.
P.O. Box 633, Midland, Texas 79702

9. Pool name or Wildcat

Blaineby

4. Well Location

Unit Letter F : 1980 Feet From The North Line and 1980 Feet From The West Line

Section 34 Township T21S Range R37E NMPM Lea County

10. Proposed Depth

6619

11. Formation

Blaineby

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

KB-3455 GL-3443

14. Kind & Status Plug. Bond

On file

15. Drilling Contractor

Not known

16. Approx. Date Work will start

As soon as possible

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-3/4"	9-5/8	37#	1207'	275 SX	circ to surface
8-3/4"	7	24#	3620'	350 SX	circ to surface
6 1/4	5	15#	6619	350 SX	circ to surface

- 1) NRU pulling unit. Check H2S conc. & rig up safety equip if needed.
- 2) NO wellhead. NU BOP. Circ hole w/ 2 1/2 KCL wtr. POH w/ 4929' or 2-3/8 and EUE tog. Press csg to 1000 psi (note: CIBP @ 5031'. Old sz holes @ 1450'). If OK, continue w/ wtr. If csg does not hold pressure, then RIH w/ pkr for 5-1/8 csg and locate leak. Sz w/ cmt as necessary.
- 3) RU reverse unit. RIH w/ 4-1/4 bit. csg scraper and DC's on 2-7/8 c.s.s. J-55 workstring. Drill out CIBP @ 5031'. RIH to PBD @ 6387' (note: Paddock perts at 5130'-5296' are open so well will probably not circ). POH w/ tog and bit.
- 4) Pump down csg to insure perts are open. RIH w/ 2-7/8 tog OE to +5320'. RU cementing company. Spot 100 sx Class C neat balanced cmt plug from +5320' to +4375'. Pull tog up to +4000'. Reverse circ to clear tog and annulus or cmt. Close tog valve. Pressure up on csg and pump 12 bbls 2 1/2 KCL wtr to displace cmt from +4375' to +5050' (do not pump more than 13 bbls). Shut well in overnight to allow cmt to set.
- 5) RIH w/ 4-1/4 bit. csg scraper and DC's on 2-7/8 c.s.s. J-55 workstring. Drill out cmt. Periodically pressure test csg when drilling through pert section (5130'-5296'). CD hole to PBD @ 6387'. Repeat szd procedure if necessary. POH w/ tog and bit.
- 6) RU Perforator and full lubricator. Run GR/CCL from 5800' to 5000'. Correlate to Schlumberger's Resistivity Log dated 6-21-89. POH. Perforate the Blaineby formation with a 3-1/8 csg gun, 180° phasing using ODEX's HSC XVI PML charge (16 ga csg, 0.48 EH, 12.82 TTP). Perforate with 2 JSPF

- 7) RIH w/ treating pkr for 5-1/8 csg on 2-7/8 tog (test tog to 5000 psi while RIH). Set pkr at +5450'.
- 8) NRU Downell to acidize. Test all lines to 5000 psi. Open pkr bypass and spot acid to pkr. Close bypass. Pressure annulus to 1000 psi. Bullhead acid into perts 5504'-5648' OA with a total of 5000 gals 15% NE HCl (containing 1 gal A-200 inhibitor, 1 gal W-54 NE, and 10 ppt NTA iron control agent) down 2-7/8 tog at 5 BPM. Drop 182 1-3 SG ROM ball sealers evenly throughout acid. Anticipated TP = 2000 psi. Max TP = 5000 psi. Record ISIP to 15 min SIP. Shut well in for 2 hrs. Swab/rig back load for the remainder of the day.
- 9) Release pkr and drop down through perts to knock balls off. PU to +5450' and set pkr. Press annulus to 1000 psi. Frac the Blaineby perts (5504' - 5648' OA) with 33,000 gals YF138 (equivalent or A-linked 35% Borate gel) plus 99,000 20/40 Ottawa sand down 2-7/8 tog at 18 BPM & 3400 PSI expected treating pressure. Max pressure 5000 psi. Flush to top perts with either 25 KCL wtr. Obtain ISIP, 5 min, 10 min & 15 min SIP. Strip frac tanks. RD Downell. Shut well in overnight.
- 10) Flow/sweep well to test tank. Obtain stabilized rate. Release pkr and POH. RIH w/ hydrostatic bailer and clean out hole to PBD @ 6387'. POH w/ bailer. RIH w/ 2-3/8 J-55 prod tog. If well will not flow, contact Operations Engineering for rod design. NO BOP. NU wellhead. RDND PU.
- 11) Turn well over to production.

INDUCTIVE

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

SIGNATURE

Judy Dixon

TYPE OR PRINT NAME

Judy Dixon

TITLE

Regulatory Technician

Mobil Producing Texas & New Mexico Inc.
acting by and through its agent
Mobil Exploration & Producing U.S. Inc.

DATE 8/23/90

TELEPHONE NO. (915) 688-2452

(This space for State Use)

APPROVED BY JERRY SEXTON

SUPERVISOR

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Working Underway.

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

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Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
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DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

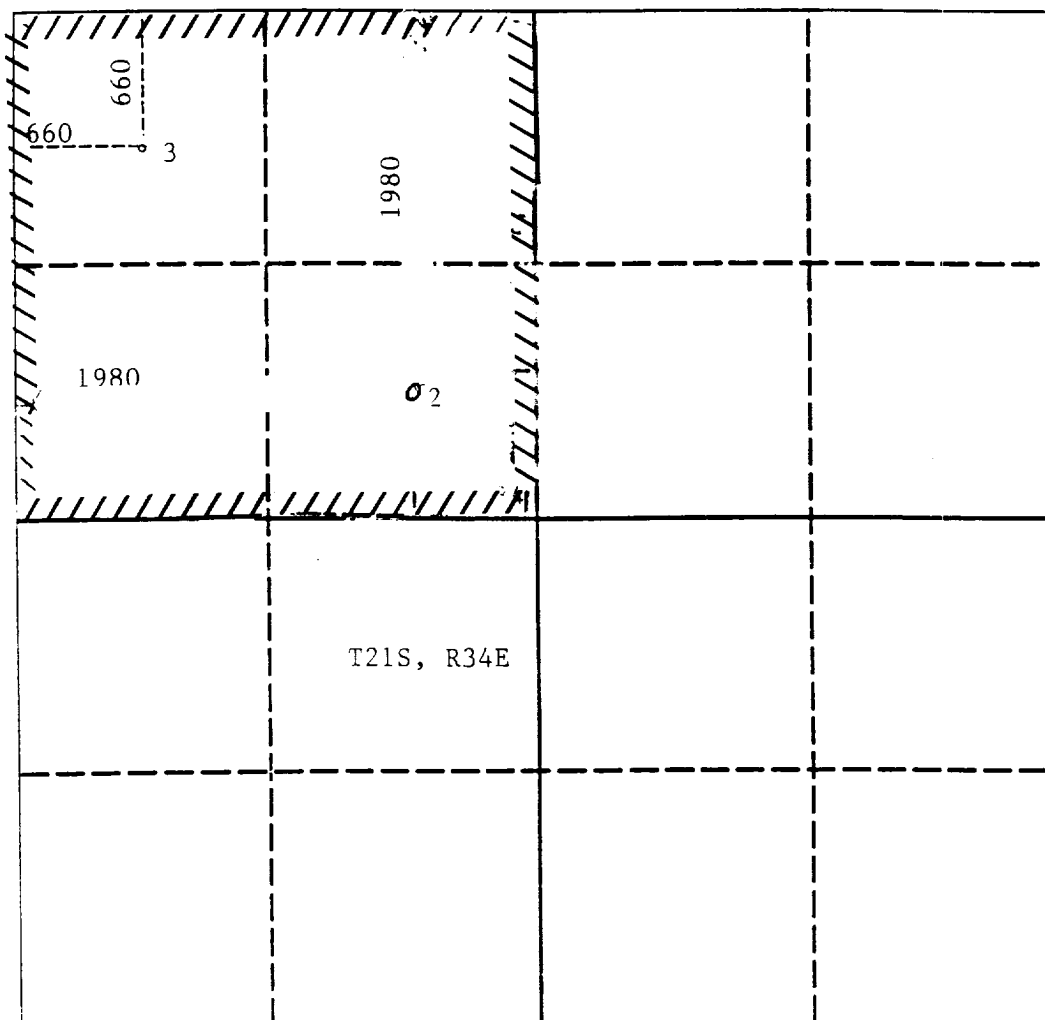
Operator Mobil Producing Tx. & N. M. Inc.			Lease Marshall Com.		Well No. 2
Unit Letter F	Section 34	Township 21S	Range 37E	County NMPM	Lea
Actual Footage Location of Well: 1980 feet from the North line and 1980 feet from the West line					
Ground level Elev. 3443'	Producing Formation Blinebry		Pool Blinebry	Dedicated Acreage: 160 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 interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☒ Yes ☐ No If answer is "yes" type of consolidation Communitization

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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature

Judy Dixon

Printed Name

Environmental & Regulatory
Position

Mobil Producing Texas & New Mexico Inc

Company

acting by and through its agent
Mobil Exploration & Producing U.S. Inc.

Date

8-23-90

SURVEYOR CERTIFICATION

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

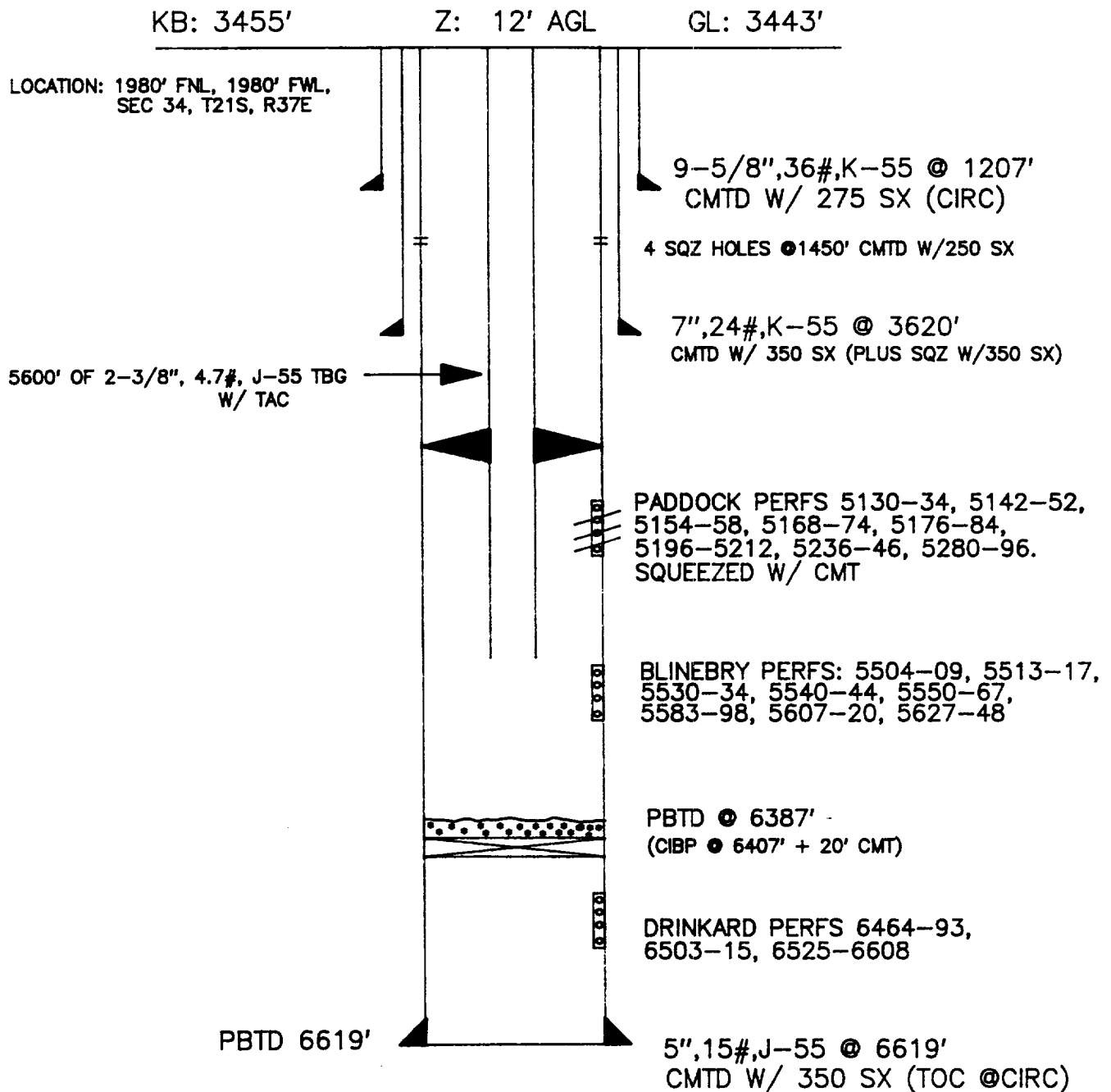
Signature & Seal of
Professional Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

MARSHALL COM NO. 2
LEA COUNTY, NM
PROPOSED CONDITION

8-6-90
MJJ



TD: 6619'