

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

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

OIL CONSERVATION DIVISION

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

LG-5188

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☐

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

State "HQ"

2. Name of Operator

Meridian Oil Inc.

8. Well No.

7

3. Address of Operator

21 Desta Drive, Midland, TX 79705

9. Pool name or Wildcat

Airstrip (Bone Springs)

4. Well Location

Unit Letter

M

: 660

Feet From The

South

Line and

660

Feet From The

West

Line

Section

26

Township

18 South

Range

34 East

NMPM

Lea

County

10. Proposed Depth

9112' - 9168'

11. Formation

1st Bone Spring Sand

12. Rotary or C.T.

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

3992.5 GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

16. Approx. Date Work will start

03/01/89

17.

In Place Now

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	13 3/8"	54.5	325'		
12 1/4"	8 5/8"	32	4,000'		
7 7/8"	5 1/2"	15 1/2 & 17	10,885'		

Meridian proposes to plug back and temporarily abandon the Wolfcamp and recompleate the well in the First Bone Spring Sand.

See attached procedure:

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. 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.

SIGNATURE

Robert L. Bradshaw

TITLE Sr. Staff Env./Reg. Spec.

DATE 02/24/89

TYPE OR PRINT NAME

Robert L. Bradshaw

TELEPHONE NO. 915-686-56

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

FEB 27 1989

State "HQ" No. 7
Airstrip (Bone Spring) Field
Lea County, New Mexico

1. MIRU pulling unit. POH with rods and pump. ND pump tee. NU BOP. POH with $\pm 10,700'$ of 2-7/8" 6.5# N-80 tubing.
 2. MIRU wireline unit. RIH with a gauge ring and junk basket for 5-1/2" 17# casing to $\pm 10,650'$. POH. RIH with a 5-1/2" CIBP on wireline and set at $\pm 10,650'$. POH. Load 8-5/8" x 5-1/2" annulus and pressure test 5-1/2" casing to 4000 psi. RIH with 4" select fire guns and perforate the Bone Spring Sand at the following depths: 9113', 18', 20', 26', 32', 34', 36', 38', 40', 42', 45', 47', 51', 53', 55', 57', 59', 62', 64' and 68' for a total of 20 holes. POH. RDMO wireline unit.
 3. RIH with a 5-1/2" treating packer, SN (2.25" ID) and $\pm 9000'$ of 2-7/8" tubing. Hydrotest tubing to 7000-psi while RIH. Set packer at $\pm 9000'$ and swab well down to SN if possible.
 4. MIRU stimulation company. NU surface lines and test to 4000 psi. Place, monitor and maintain 500 psi on the casing-tubing annulus. Pump 2000 gallons of 7-1/2% NEFe HCl acid with 2 gal/1000 surfactant and corrosion inhibitor. Space out 40 - 7/8" RCNBS (sp.gr.= 1.3) throughout job. Displace acid with 54 bbls of 2% KCl water. If ballout occurs, surge balls off perfs and continue displacement.
 - * Note: Anticipated treating pressure = 3300 psi
 - Maximum treating pressure = 4000 psi (Burst SF = 2.6)
 - Anticipated treating rate = 4 BPM
- RDMO Stimulation Company.
5. Swab test well recording rates and cuts.
 6. If fluid entry is limited, release packer run through perfs and POH with tubing. MIRU stimulation company. NU surface lines and test to 6000 psi. Pump 26,000 gallons of 40 lb. crosslinked gel with 61,000 lbs. of 16/30 mesh PRC sand to frac the First Bone spring Sand down 5-1/2" casing according to the following schedule and attached sheets.
 - Pump 8,000 gallons of fluid as pad volume.
 - Pump 2,000 gallons of fluid with 1ppg 16/30 PRC sand.
 - Pump 3,000 gallons of fluid with 2ppg 16/30 PRC sand.
 - Pump 4,000 gallons of fluid with 3ppg 16/30 PRC sand.

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State "HQ" No. 7
Airstrip (Bone Spring) Field
Page Two of Procedure

- Pump 4,000 gallons of fluid with 4ppg 16/30 PRC sand.
- Pump 5,000 gallons of fluid with 5ppg 16/30 PRC sand.

* Note: Anticipated treating pressure = 3700 psi
Maximum treating pressure = 4000 psi (Burst SF = 1.2)
Anticipated treating rate = 20 BPM

RDMO stimulation company. Shut well in overnight to allow gels to break.

7. Flow well back starting at $\pm 16/64$ choke increasing choke size as the pressure depletes. Obtain flow back fluid and have analyzed at stimulation company. Viscosity of the broken gel should be ± 10 cp.
8. RIH with a notched collar on 2-7/8" tubing and clean out any fill to $\pm 10,650'$. POH.
9. RIH with production tubing and rods as previously installed setting pump at $\pm 9050'$ to clean up frac. Lower pump to $\pm 9200'$ following clean up period.

STATE HQ No. 7
Airstrip (Bone Springs) Field
Lea County, New Mexico

Page _____
Date _____
By _____

660 FSL 660 FWL
Sec 26 T1B S R34E

325'

SURFACE CASING:
13 3/8" 54.5 #

4000'

INTERMEDIATE CASING:
8 5/8" 32 #

PROPOSED BONE SPRINGS SAND PER
9112' - 9168'
(20 HOLES)

CIBP SET AT ± 10,650'

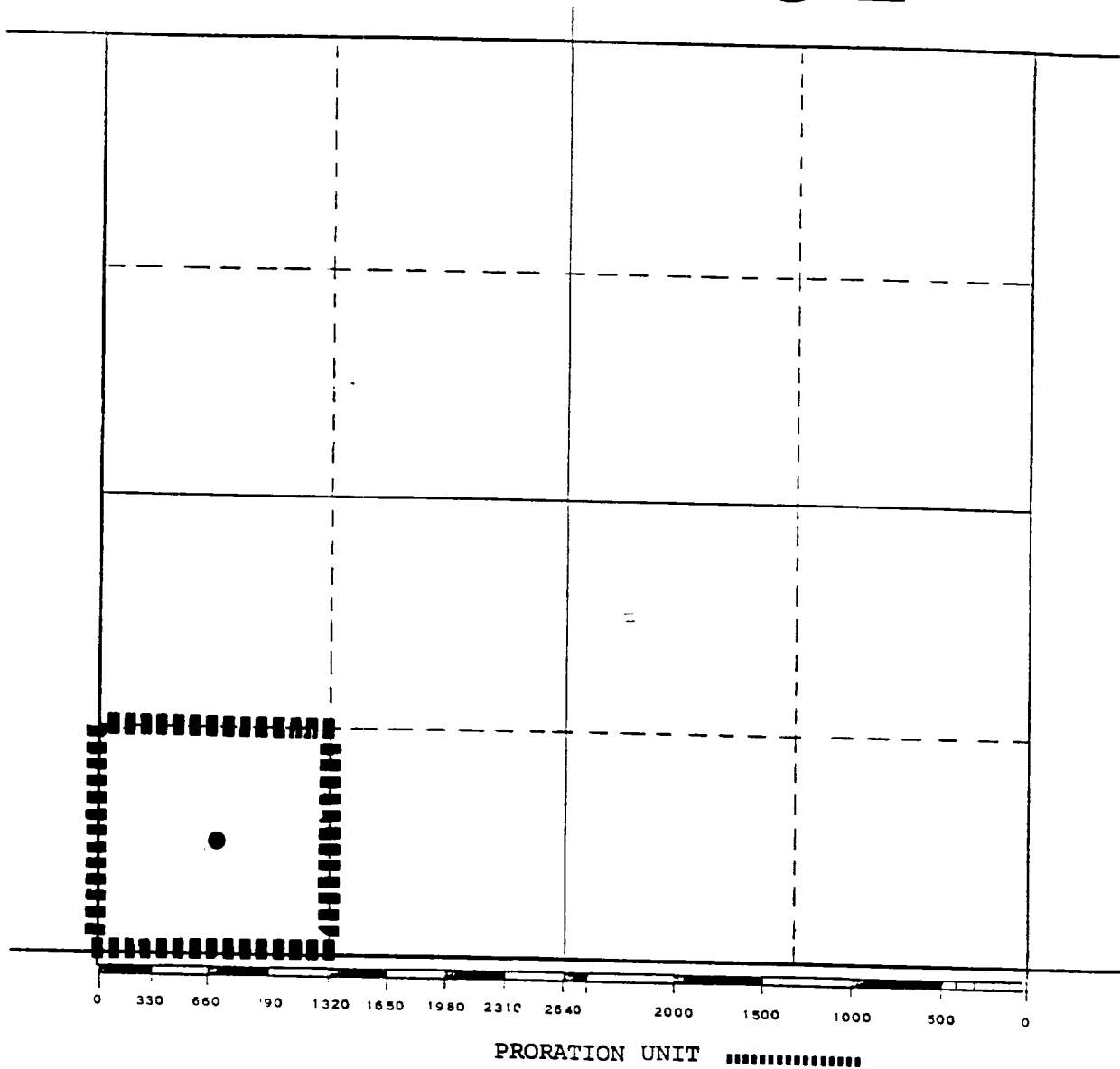
WOLF CAMP PERFS:
10664' - 10700'

10885'

PRODUCTION CASING
5 1/2" 15.5 # ± 17 # TO CE

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HODGES OFFICE

MERIDIAN OIL



SCALE: 1" = 1000'

OPERATOR: MERIDIAN OIL INC.

FIELD: Airstrip (Bone Spring)

LEASE: State "HQ"

Well No.: 7

LOCATION: 660' FSL & 660' FWL; Sec. 26, T-18-S, R-34-E, Lea County

DATE: 02/24/89