

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT REFINING
OFFICE FOR NUMBER
OF COPIES REQUIRED
(Other instructions on
reverse side)

BLM Roswell District
Modified Form No.
NM060-3160-2

30-025-306-06

1. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM-40448	
2. 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	
3. NAME OF OPERATOR Meridian Oil Inc.			7. UNIT AGREEMENT NAME	
3a. AREA CODE & PHONE NO. 915-686-5600			8. FARM OR LEASE NAME Federal "AF"	
4. ADDRESS OF OPERATOR 21 Desta Dr., Midland, TX 79705			9. WELL NO. 2	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 560' FSL & 1880' FWL, Sec. 8, T18S, R32E At proposed prod. zone Same			10. FIELD AND POOL, OR WILDCAT North Young (Bone Spring)	
4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6.5 miles south of Maljamar, NM			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 8, T18S, R32E	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest orig. unit line, if any) 560'			12. COUNTY OR PARISH Lea	
16. NO. OF ACRES IN LEASE 80			13. STATE NM	
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. 1420'			20. ROTARY OR CABLE TOOLS Drilled with Rotary	
19. PROPOSED DEPTH PBD-10,365'			22. APPROX. DATE WORK WILL START* 01 June 1990	
21. ELEVATIONS (Show whether DF, RT, GR, ETC.) 3772' GR.				

PROPOSED CASING AND CEMENTING PROGRAM						
HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.4			406'	425 sx-Circ.
12 1/4"	8 5/8"	24			2,805'	1450 sx-Circ.
7 7/8"	5 1/2"	15.5 & 17.0			10,800'	1850 sx

Abandon the Wolfcamp w/5 1/2" CIBP set @10,400. Dump bail 35' cmt on top of CIBP. Recomplete to the Bone Spring following the attached recompletion procedure.

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MAY 1 11 34 AM '90
C.R. AREA

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 Robert L. Bradshaw TITLE Sr. Staff Env./Reg. Specialist DATE 30 April 1990

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 5-8-90
CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions On Reverse Side

Federal AF #2
North Young Field
Lea County, New Mexico

Bone Spring Recompletion Procedure

1. Obtain oil/water samples from the Federal AF #1, Federal AM #1 and #2 wells for compatibility testing.
2. MIRU pulling unit. ND pumping tee. POOH with rod string and pump. Kill well with 2% KCl water. ND tubing head. NU BOP. Release TAC and POOH with 2 7/8" production tubing.

NOTE: Send 1" fiberglass rods to yard for credit/storage.

3. RU electric line. RU pack-off head on top of BOP. RIH with junk basket/gauge ring to P810 (CIBP @ 10610'). POOH. RIH with 5 1/2" CIBP and set at 10400'. POOH.
4. RU 3 1/2" x 40' dump bailer. RIH and dump bail 35' of cement on top of CIBP. POOH.
5. Test casing to 2000 psi.
6. RU electric line to perforate. RIH with 4" casing guns and perforate the 3rd Bone Spring Carbonate at 9222'-9242' (2 spf, 90° phasing, total 42 holes). POOH and RD electric line.
7. TIH with 5 1/2" treating packer, 2.25" SN and 2 7/8" tubing. Set packer below perforations and test tubing to 4200 psi. Release packer. Spot 250 gallons of 15% NEFe HCl acid. PU to 9175'. Reverse remaining acid into tubing. Set packer at 9175'. NU stimulation valve.
8. MIRU stimulation company. RU surface lines and test to 4500 psi. Place 1000 psi on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Pump spot acid away and continue with 2000 gallons of 15% NEFe HCl acid. Space out 65 RCNBS (sp gr = 1.3) throughout the job. Displace acid to bottom perforation with treated 2% KCl water. If ballout occurs, surge balls off perfs and continue with displacement.

Treating Rate = 4-5 bpm
Treating Pressure = 3300 psi
Maximum Pressure = 4200 psi

RDMO stimulation company.

386.5

Federal AF #2
Procedure
Page 2

9. Swab/flow test well recording rates/volumes/cuts.
 - a. If zone tests wet, set a CIBP at 9150'.
 - b. If zone is productive, continue with procedure after obtaining sufficient test data.
10. ND stimulation valve. Release packer and POOH.
11. RU electric line to perforate. RIH with 4" casing guns and perforate the 2nd Bone Spring Carbonate at:

Interval	Density	# Holes
8318'-8329'	2 spf	24
8422'-8435'	2 spf	68
8460'-8480'	2 spf	42
8612'-8618'	2 spf	14
Total		148

12. POOH and RD electric line.
12. TIH with 5 1/2" RBP, 5 1/2" treating packer, 2.25" SN, and 2 7/8" tubing. Set RBP at 8700'. PU 10' and set packer. Test tubing/RBP to 4200 psi. Release packer. Spot 350 gallons of 15% NEFe HCl acid. PU to 8265'. Reverse remaining acid into tubing. Set packer at 8265'. NU stimulation valve.
13. MIRU stimulation company. RU surface lines and test to 4500 psi. Place 1000 psi on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Pump spot acid away and continue with 7500 gallons of 15% NEFe HCl acid. Space out 225 RCNBS (sp gr = 1.3) throughout the job. Displace acid to bottom perforation with treated 2% KCl water. If ballout occurs, surge balls off perfs and continue with displacement.

Treating Rate = 4-5 bpm
Treating Pressure = 3300 psi
Maximum Pressure = 4200 psi

RDMO stimulation company.

14. Swab/flow test well recording rates/volumes/cuts. Continue with procedure after obtaining sufficient test data.
15. ND stimulation valve. Release packer and drop down to RBP. Release RBP and POOH.

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FEDERAL AF #2
NORTH YOUNG FIELD
LEA COUNTY, NEW MEXICO
PROPOSED SCHEMATIC

16. TIH with production as follows:

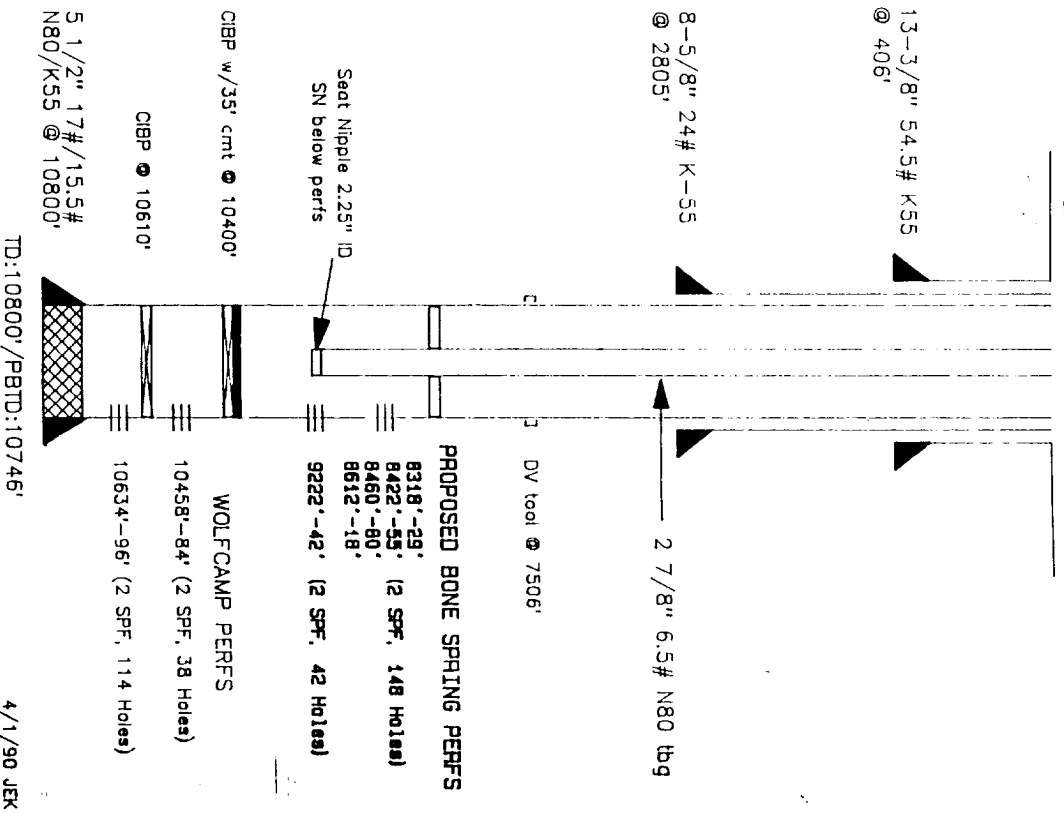
- Bull plugged MA
- Perforated sub
- Mechanical SN (2.25" ID)
- 30 joints of 2 7/8" 6.5# N-80 tubing
- 5 1/2" TAC
- #8300' of 2 7/8" 6.5# N-80 tubing

Set TAC with SN below perfs. NO BOP; NU pump tee. TIH with following rod string:

- 2 1/2" x 1 1/2" x 24' RHBM pump
- #6100' of 3/4" EL steel sucker rods with FHSWC
- #3100' of 7/8" EL steel sucker rods with FHSWC

NOTE: Verify rod design with actual test data.

Hang rods on beam. Report production volumes to Midland office. Sheave unit as required to keep well pumped off if possible.



MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-162
Supersedes C-128
Effective 1-1-65

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

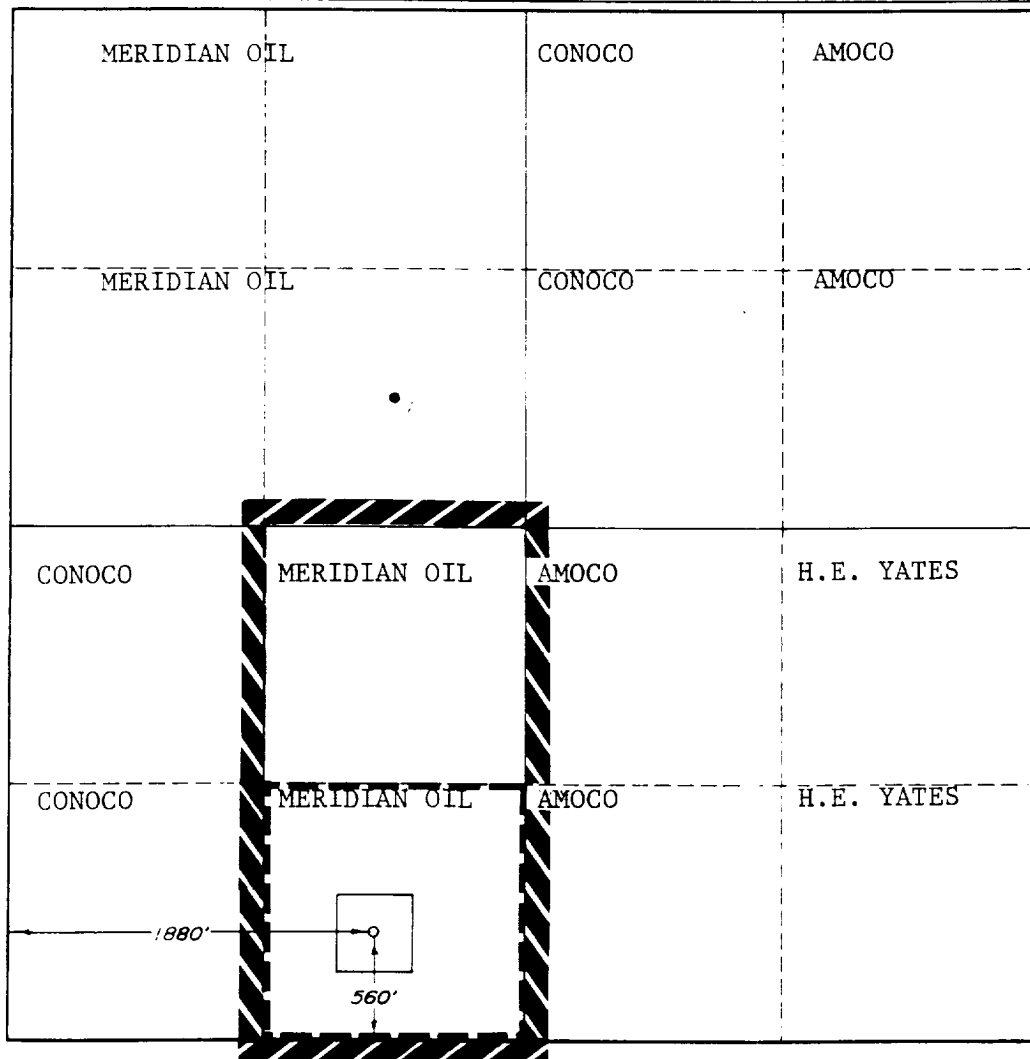
Operator MERIDIAN OIL, INC.			Lease FEDERAL AF		Well No. 2
Unit Letter N	Section 8	Township 8-SOUTH	Range 32-EAST	County LEA	
Actual Footage Location of Well:					
560	feet from the	SOUTH	line and	1880	feet from the
3772'	Producing Formation	Bone Spring	Pool	NORTH YOUNG	Dedicated Acreage: 40 Acres

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.

Robert L. Bradshaw

Name
Robert L. Bradshaw

Position
Sr. Staff Env./Reg. Spec.

Company
Meridian Oil Inc.

Date
April 30, 1990

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 27, 1989

Registered Professional Engineer and/or Land Surveyor
V. L. LYNN

Certificate No.
7920

RECEIVED

MAY 10 1990

OCT
HOBBS COUNCIL