

N.M. OIL CONS. COM. SOUTHERN
P.O. BOX 1980
HOBBS, NEW MEXICO 88240
DEPARTMENT OF THE INTERIOR
MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM 85817 77058		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR MERIDIAN OIL INC.			7. UNIT AGREEMENT NAME		
3. ADDRESS AND TELEPHONE NO. P.O. BOX 51810, MIDLAND, TX 79710 915-688-6943			8. FARM OR LEASE NAME RED TANK FEDERAL		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 330' FSL & 2310' FEL At proposed prod. zone			9. WELL NO. # 5		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 43.4 MILES SOUTHWEST OF EUNICE			10. FIELD AND POOL, OR WILDCAT WEST RED TANK DELAWARE		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 330'		16. NO. OF ACRES IN LEASE 240	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. 989'		19. PROPOSED DEPTH 10,150	20. ROTARY OR CABLE TOOLS ROTARY		
21. ELEVATIONS (Show Whether DF, RT, GR, ETC.) 3727'			22. APPROX. DATE WORK WILL START UPON APPROVAL		
23. PROPOSED CASING AND CEMENTING PROGRAM					

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8" H-40	48#	850'	800 SXS 'C' CIRC.
12 1/4"	8 5/8" K-55	28#/32#	4600'	1550 SXS 'C' CIRC.
7 7/8"	5 1/2" K-55	17#	10150'	1200 SXS 'H', TOC@4400'+/-

NO HYDROGEN SULFIDE AS PER JOHN SIMITZ/ROSWELL
NOT IN DESIGNATED POTASH AREA

CONTACT PERSON: DONNA WILLIAMS, 915-688-6943

NOTICE OF STAKING SUBMITTED ON APRIL 21, 1994.4.

OPER. OGRID NO. 26485
PROPERTY NO. 14795
POOL CODE 51689
EFF. DATE 6/9/94
API NO. 30-005-30539

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 [Signature] TITLE PRODUCTION ASSISTANT DATE 5/13/94

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY 15/Tony J Herrell (for) TITLE AREA MANAGER DATE 6-9-94
*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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☐ AMENDED REPORT

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 3005-32539		Pool Code 51689	Pool Name West Red Tank Delaware
Property Code 14795	Property Name RED TANK FEDERAL		Well Number 5
OGRID No. 26485	Operator Name MERIDIAN OIL INC.		Elevation 3727

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
O	14	22 S	32 E		330	SOUTH	2310	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
Same As	Surface								

¹³ Dedicated Acres 40	¹⁵ Joint or Infill	¹⁶ Consolidation Code	¹⁷ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	S 89° 48' W	79.82 ch.	80.00 ch.

17 OPERATOR CERTIFICATION

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

[Signature]
Signature
Donna Williams

Printed Name
Production Assistant

Title
5/13/94
Date

18 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 belief.

4-14-94
Date of Survey

Signature and Seal of Registered Surveyor

WILLIAM E. MAHNKE II
Certificate Number 18456

S 89° 50' W
79.91 ch.

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OPERATORS NAME:	Meridian Oil Inc.
LEASE NAME AND WELL NO.:	Red Tank Federal No. 5
LOCATION:	330' FSL & 2310' FEL, Sec. 14, T22S, R32E
FIELD NAME:	West Red Tank Delaware
COUNTY:	Lea County, NM
LEASE NUMBER:	NM-77058

The following information is to supplement BLM form 3160-3 Application for permit to deepen in accordance with Onshore Oil and Gas Order No. 1:

9 - POINT DRILLING PLAN

1. Name and estimated tops of important geologic formation/marker horizons.

<u>FORMATION</u>	<u>DEPTH</u>
Rustler	970'
T/Salt	1100'
B/Salt	4500'
Delaware Sandstone	4850'
BoneSpring, LS/Sandstone	8730'

2. Estimated depths at which the top and bottom of formations potentially containing usable water, oil, gas, or prospectively valuable deposits of other minerals are expected to be encountered and the operator's plans for protecting such resources.

Bone Springs	8730-10050' (Oil)
Delaware - Bell Canyon	4850-5010' (Oil)
Brushy Canyon - Delaware	8100-8550' (Oil)

3. The operator's minimum specifications for Blowout Preventer (BOP) and related equipment to be used and schematic diagrams thereof showing sizes, pressure ratings, and the testing procedures and testing frequency. BOP and BOP - related equipment (BOPE) schematics shall include schematics of choke manifold equipment. Accumulator systems and remote controls shall be utilized.

13 5/8" 1.5M psi WP BOP w/rotating head to be installed on the 13 3/8" casing. Tested to 750 psi before drilling the 13 3/8" casing shoe.

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11" 3M psi WP BOP to be installed on the 8 5/8" casing. The BOP stack will consist of one blind ram BOP, one pipe ram BOP, and a rotating head. Tested to 3000 psi before drilling the 8 5/8" casing shoe.

4. The proposed casing program including size, grade, weights, type of thread and coupling, and the setting depth of each string and its condition (new or acceptably reconditioned). For exploratory wells, or for wells as otherwise specified by the authorized officer, the operator shall include the minimum design factors for tensions, burst, and collapse that are incorporated into the casing design. In cases where tapered casing strings are utilized, the operator shall also include and/or setting depths of each portion.

- 17½" hole, 13 3/8" H-40 48# STC csg set @ 850'.
- 12¼" hole, 3200' 8 5/8" 28# K-55 BTC, 1400' 8 5/8" 32# K-55 LTC csg.set depth @4600'.**
- 7 7/8" hole, 9000' of 5½", 17# K-55 LTC csg. & 1150' of 5½" 17# N-80 LTC csg. setting depth @10,150'.

**8 5/8" 28# K-55 BTC - ID=8.017", Drift=7.892", Burst=3390 psi, Collapse=1880 psi, & Tension=437000 lbs.

5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.

- a. 13 3/8" csg: Cmt w/600sxs. Class "C" + 4% gel & 2% CaCl₂. + ¼ pps Flocele; tail w/ 200 sxs Class "C" +2% CaCl₂, + 1/4 pps Flocele. Circ to Surface.
- b. 8 5/8"csg:Cmt (2 Stages), DV Tool @ +/-2500'. Stage 1: lead - 600 sxs Class 'C' Lite + 9 pps salt + 5 pps Gilsonite + 1 pps Econolite + 1/4 pps Flocele. Tail - 250 sx 'C' + 2% CaCl₂. Stage 2: lead - 500 sxs Class 'C' Lite + 9 pps salt + 1/4 pps Flocele, tail - 200 sxs Class 'C' + 2% CaCl₂. Circulate to Surface.
- c. 5½" csg: cmt first stage w/600 sxs Class 'H' 50/50 Poz + 2% gel + .6% Halad-9 + 3 pps KCL + 1/4 pps Flocele, displace to seal plug. Cmt second stage: 600 sxs Class 'H' 50/50 Poz + 2% gel + .6% Halad-9 + 3 pps KCL + 1/4 pps Flocele. Bring TOC to +/-4400'.

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6. The anticipated characteristics, additives, use, and testing of drilling mud to be employed, along with the types and quantities of mud products to be maintained, shall be given. When air or gas drilling is proposed, the operator shall submit the following specific information:

Mud Program:

0-850' fresh water, gel and lime system, MW 8.6 - 9.0

850-4600' Brine, MW 10.0 - 10.1

4600-TD fresh brine/Bentonite/Drispac, MW 8.4 - 8.6

7. The anticipated testing, logging, and coring procedures to be used, including drill stem testing procedures, equipment, and safety measures.

a. DST Program: None

b. Core: None

c. Mud Logging: Two-man unit 4600' to TD.

d. Logs to be run: LDT/GR/CAL: TD:ICP CR to surface
DIL/SFL/GR:TD-ICP
BHC Sonic: TD-ICP

8. The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of Onshore Oil and Gas Order No. 6.

No abnormal pressures are anticipated. bottom hole pressures at TD expected to be 4300 psi. Bottom hole temperature 140° F. No Hydrogen Sulfide expected in this known drilling area.

9. Any other facets of the proposed operation which the operator wishes for BLM to consider in reviewing the application.

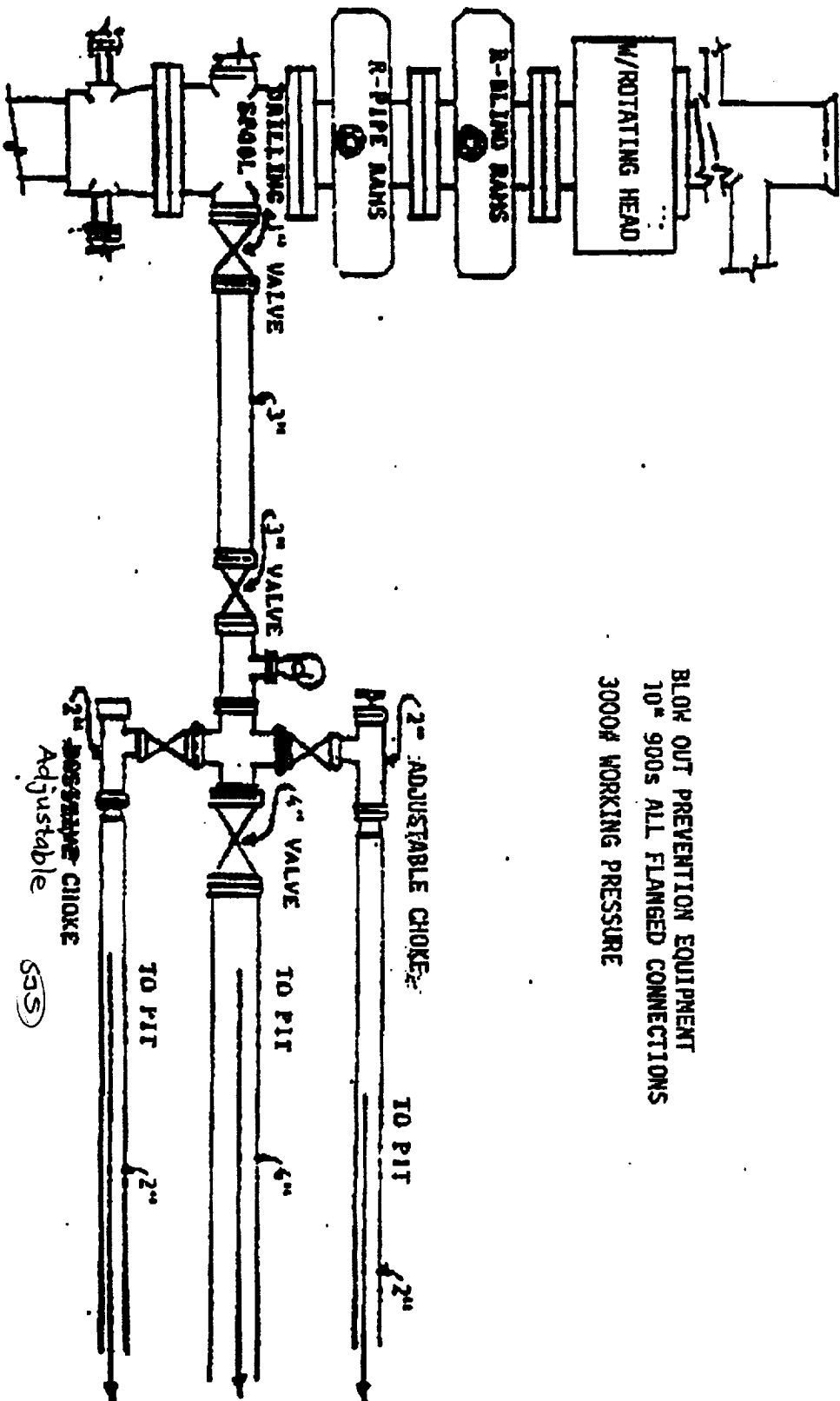
Anticipated drilling time expected to be 20 days from surface to TD.

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DOUBLE RAM



BLOW OUT PREVENTION EQUIPMENT
 10" 900s ALL FLANGED CONNECTIONS
 3000# WORKING PRESSURE

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