

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

30-015-26143  
Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

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  
Meridian Oil Inc.

3. ADDRESS OF OPERATOR  
21 Desta Drive, Midland, Texas 79705

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface 990' FNL & 990' FWL, Sec. 35, T-19-S, R-29-E

At proposed prod. zone

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

62 miles Northwest of Hobbs, NM

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

990'

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

1320'

16. NO. OF ACRES IN LEASE

160

19. PROPOSED DEPTH

4550'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

3310' GR

22. APPROX. DATE WORK WILL START\*

06/15/89

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	350'	350 sx., Circulate
12 1/4"	8 5/8"	24 & 28#	3200'	3000 sx., Circulate
7 7/8"	5 1/2"	15.5#	4500'	500 sx. TOC @ Surface

Drill 17 1/2" Hole to 350'. Set 13 3/8" csg @ 350'. Cmt w/350 sx Cl "C". Circ.  
Drill 12 1/4" hole to 3200'. Set 8 5/8" csg @ 3200'. With stage collar @ +1600',  
cement 1st stage w/1000 sx Cl "C" w/2% CaCl<sub>2</sub>. Cement 2nd stage to circ to surf  
w/2000 sx. Cl "C" Lite & tail in w/100 sx Cl "C". Drill to TD to test Delaware.  
If commercial, run 5 1/2" csg to 4500'. Cmt w/ sufficient volume to bring above all  
prospective zones. Est TOC @ surface. Perf & stimulate Delaware for production.

MUD PROGRAM: 0-350' spud mud; 350-3200' brine & sweeps; 3200-TD cut brine & Drispac.  
MW 9-9.2, VIS 32-36 (solids must be less than 5%).

BOP PROGRAM: 11"-3M stack to be installed on 8 5/8" & left on for remainder of drlg.  
Stack to consist of Double ram type BOP & choke manifold. Will test to  
rated working pressure w/ independent tester on initial NU & prior to  
drlg into Delaware.

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. Bracklow TITLE Sr. Staff Env./Reg. Specialist DATE 5/11/89

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY Lawrence Parente TITLE MANAGED RESOURCE AREA DATE 6-19-89

CONDITIONS OF APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED

\*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-162  
Supersedes C-128  
Effective 1-4-85

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

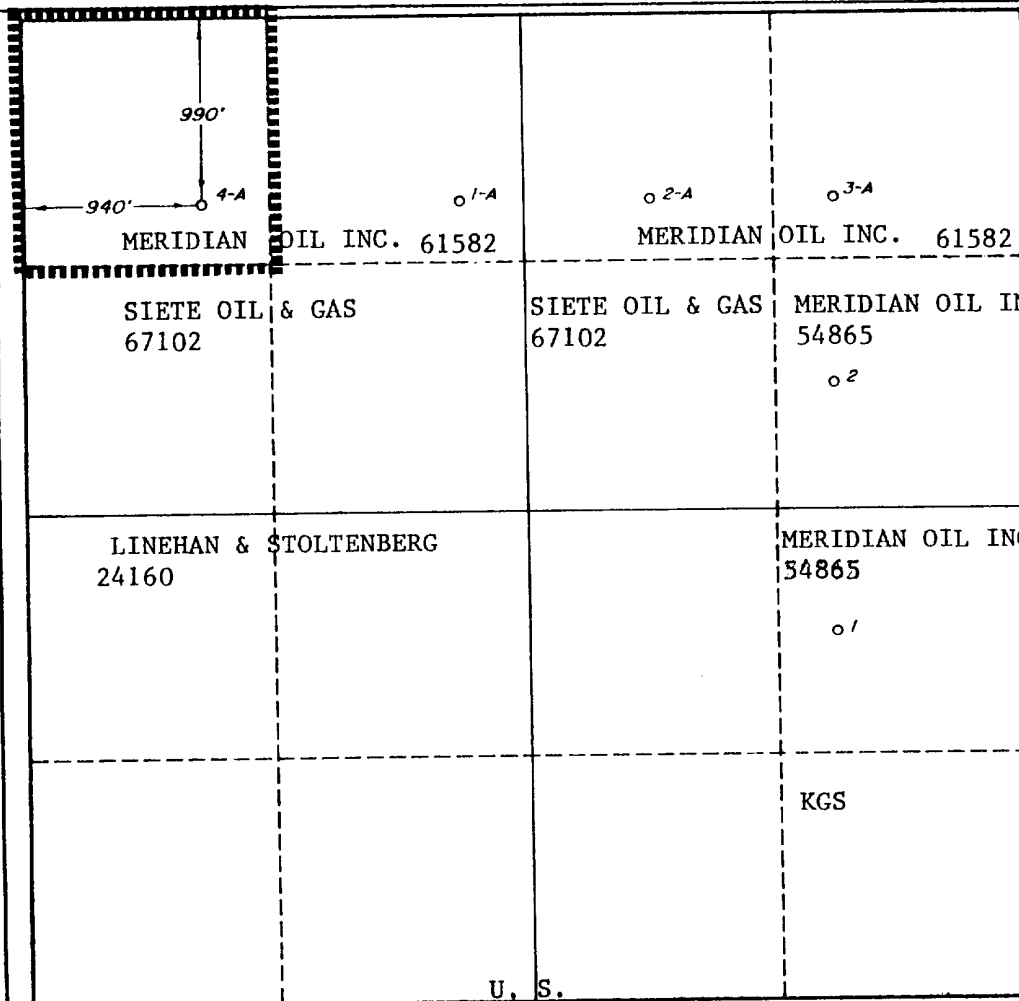
Operator <b>MERIDIAN OIL INC.</b>			Lease <b>APACHE FEDERAL</b>		Well No. <b>4</b>
Unit Letter <b>D</b>	Section <b>35</b>	Township <b>19-SOUTH</b>	Range <b>29-EAST</b>	County <b>EDDY</b>	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> <span>990 feet from the NORTH line and</span> <span>940 feet from the WEST line</span> </div>					
Ground Level Elev. <b>3310</b>	Producing Formation <b>DELAWARE</b>		Pool <b>UUP PARKWAY Delaware</b>		Dedicated Acreage: <b>40 Acres</b>

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.



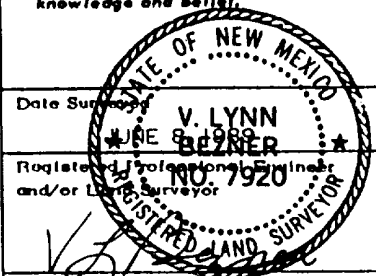
**CERTIFICATION**

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

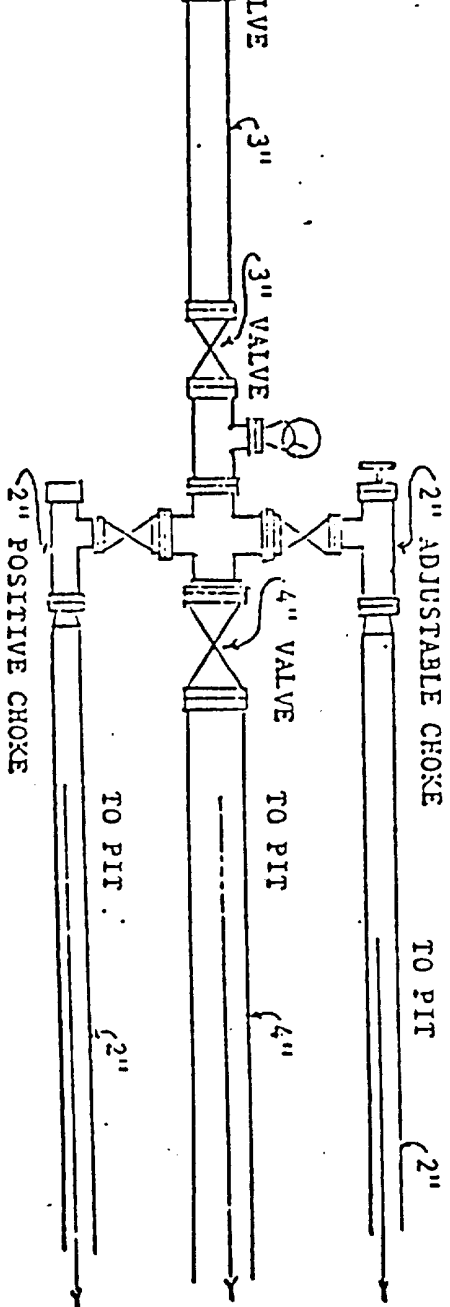
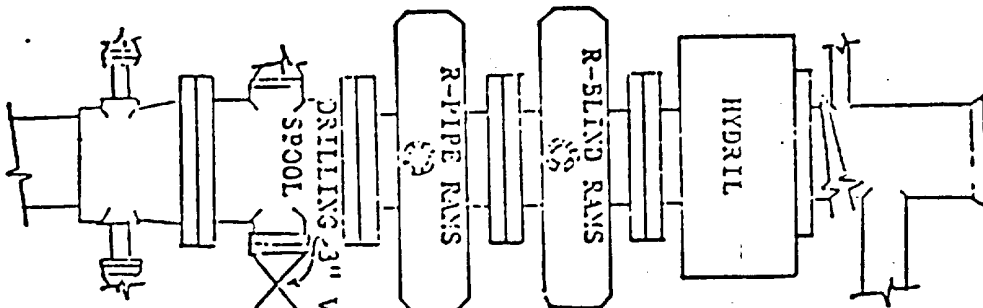
*Robert L. Bradshaw*

Name  
**Robert L. Bradshaw**  
Position  
**Sr. Staff Env./Reg. Specialist**  
Company  
**MERIDIAN OIL INC.**  
Date  
**09 June 1989**

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  
**JUNE 8 1989**  
Registered Professional Engineer and/or Land Surveyor  
**NO. 7920**  
Certification No.  
**7920**



BLOW OUT PREVENTION EQUIPMENT  
 10" 900s ALL FLANGED CONNECTIONS  
 3,000# WORKING PRESSURE - 6,000# TEST

MERIDIAN OIL INC.  
Apache "A" Federal No. 4  
990' FNL & 990' FWL  
Sec. 35, T-19-S, R-29-E  
Eddy County, New Mexico  
NM-61582

To supplement USGS Form 3160-3 Application to drill the following additional information is submitted concerning questions on Page 5 of NTL-6:

1. See Form 3160-3.
  2. See Form 3160-3.
  3. The geological name of surface formation is: Ochoa
  4. See Form 3160-3.
  5. See Form 3160-3.
  6. The estimated tops of important geological markers are:

Rustler	350'	Captain Reef	1825'
Yates	1570'	Delaware Sand	3750'
  7. The estimated depths at which anticipated water, oil, and gas and mineral bearing strata are as follows:

Yates	1570' - Oil
Delaware Sand	3750' - Oil
  8. See Form 3160-3. All casing will be new.
  9. See Form 3160-3 for depths of strings. Cement volumes and additions as follows:
    - A. 13 3/8" csg: Cement w/350 sxs Lite "C" cmt. Circ to surface.
    - B. 8 5/8" csg: With stage collar @ +1600', cement 1st stage w/ 1000 sx Cl "C" w/2% CaCl<sub>2</sub>. Cement 2nd stage to circ to surface w/2000 sx Cl "C" Lite & tail in w/100 sx Cl "C".
    - C. 5 1/2" csg: Cement w/+500 sx Cl "C". TOX @ Surface.
- A caliper log will be run prior to setting 5 1/2" pipe to determine exact cement volumes required and a fluid caliper will be run prior to setting 8 5/8" casing to determine same.
10. The pressure control diagram is attached to Form 3160-3. The following additional information is as follows:

8 5/8" casing installation: 11"-3M BOP stack to be installed and tested by an independent tester to 3,000 psi before drilling the 8 5/8" casing shoe. The BOP stack to consist of a blind ram BOP and one pipe ram BOP.

11. See Form 3160-3.

12. A. DST Program: None

B. Core: None

C. Mud Logging: 3200 to TD, Two-man unit

D. Wire Line Logs.

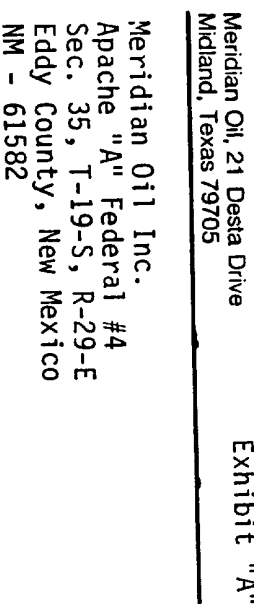
The following suite of logs will be run in both of the listed intervals:

DLL/MSFL/CNL/LDT/GR/Cal TD-3200' (GR/CNL to surf)

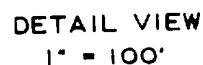
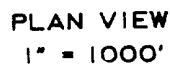
13. No abnormal pressures are anticipated. Bottom hole pressures at TD expected to be 2000 psi. Bottom hole temperature 138°F. No Hydrogen Sulfide expected in this known drilling area. No crooked hole or abnormal deviation problems.

14. Anticipated starting dated to spud - on or before 06/15/89.  
anticipated drilling time expected to be 10 days from surface to TD.

**APACHE "A" FEDERAL**



FROM THE JCT. OF U.S. 180 & HWY 31 N, .5 MILES EAST OF  
CARLSBAD, GO WEST 1.3 MILES ON U.S. 180, THENCE NORTH  
6.1 MILES ON COUNTY ROAD 238, THENCE EAST 0.5 MILE  
ON LEASE ROAD TO A POINT ON THE WEST LINE OF  
SECTION 35.



				<b>MERIDIAN OIL, INC.</b> MIDLAND, TEXAS		SCALE : AS SHOWN	
						DATE : JUNE 8, 1989	
NO.		REVISION		DATE BY		JOB NO. : 71370	
SURVEYED BY :		J.D.S.		SURVEYING AND MAPPING BY <b>TOPOGRAPHIC LAND SURVEYORS</b> MIDLAND, TEXAS		DRAWING NUMBER :	
DRAWN BY :		P.A.D.				74 SE	
APPROVED BY :		D.R.K.				SHEET	