

N.M. OI
O. 80
UNIFORMS
DEPARTMENT OF
BUREAU OF LAND

APPLICATION FOR PERMIT

PROPERTY NO. 17561
POOL CODE 59930
EFF. DATE 12-21-90
API NO. 34-425-33201

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
Meridian Oil Inc.

3. ADDRESS AND TELEPHONE NO.
P.O. Box 51810 Midland, Texas 79710-1810

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
660' FNL & 1980' FWL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
31.83 miles northwest of Jal, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
660'

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.

19. PROPOSED DEPTH
10,200'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3659'

22. APPROX. DATE WORK WILL START*
Upon Approval

5. LEASE DESIGNATION AND SERIAL NO.
NM 62225

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
Diamond '34' Federal # 5

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT
Triste Draw Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 34, T23S, R32E

12. COUNTY OR PARISH
Lea

13. STATE
NM

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"	48#	650'	850 SXS
12 1/4"	8 5/8"	28#/32#	4800'	1550 SXS
7 7/8"	5 1/2"	17#	10200'	1200 SXS

Not in Hydrogen Sulfide Area

Not in Designated Potash Area

Contact Person: Donna Williams, 915-688-6943.

Approved by
General Manager and
Special Supervisors
Attached

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.

SIGNED Donna Williams TITLE Regulatory Compliance DATE 12/1/95

(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 /s/ Yolanda Vega TITLE _____ DATE 1-17-96

*See Instructions On Reverse Side

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Instruction on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

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

DISTRICT IV
PO BOX 2088, SANTA FE, NM 87504-2088

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-33260	Pool Code 59930	Pool Name Triste Draw Delaware
Property Code 17561	Property Name DIAMOND FEDERAL "34"	Well Number 5
OGRID No. 26485	Operator Name MERIDIAN OIL, INC.	Elevation 3659

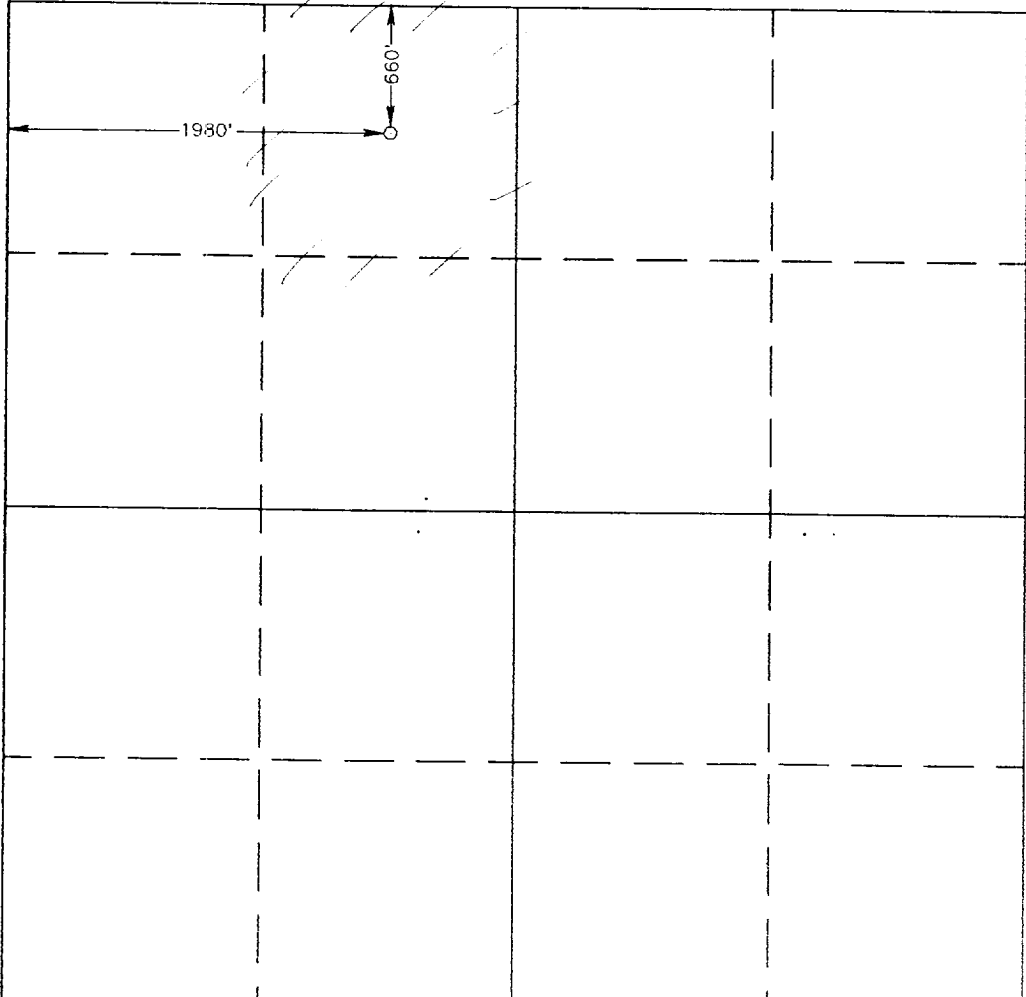
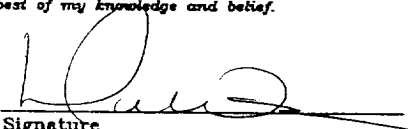
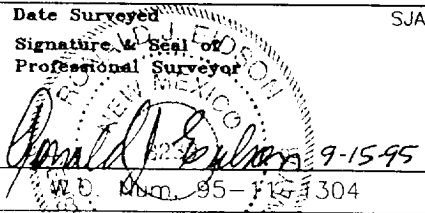
Surface Location

UL or lot No. C	Section 34	Township 23 S	Range 32 E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 1980	East/West line WEST	County LEA
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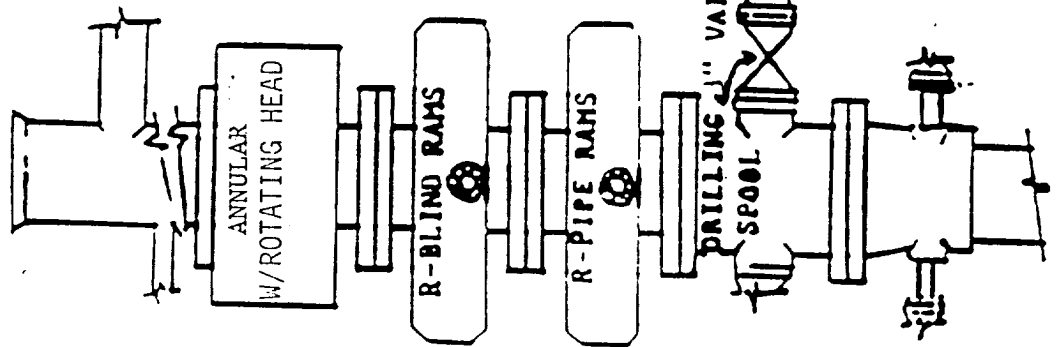
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

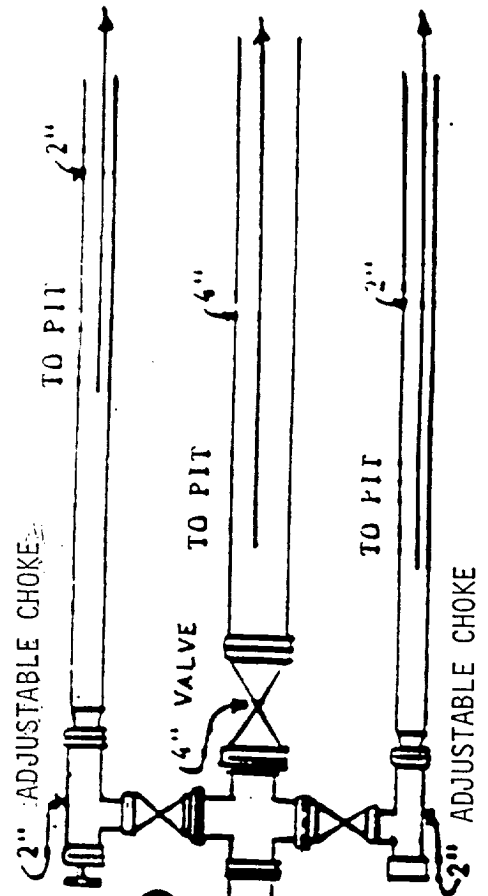
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature Donna Williams Printed Name Regulatory Compliance Title 12/1/95 Date
	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. AUGUST 30, 1995 Date Surveyed Signature & Seal of Professional Surveyor  Certificate No. JOHN W. WEST 676 RONALD J. EIDSON 3239 PROF. EARY EIDSON 12641

DOUBLE RAM



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



OPERATORS NAME:	<u>Meridian Oil Inc.</u>
LEASE NAME AND WELL NO.:	<u>Diamond '34' Federal No. 5</u>
LOCATION:	<u>660' FNL & 1980' FWL, Sec. 34, T23S, R32E</u>
FIELD NAME:	<u>Triste Draw Delaware</u>
COUNTY:	<u>Lea County, NM</u>
LEASE NUMBER:	<u>NM 62225</u>

The following information is to supplement BLM form 3160-3 Application for permit to drill 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'
Salado	1100'
Delaware	4850'

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.

Delaware	4850' (Oil)
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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" csg. Test to 750 psi before drilling the 13 3/8" csg. shoe.

11" 3M BOP stack to be installed on the 8 5/8" csg. The BOP stack will consist of one blind ram BOP, one pipe ram BOP, and a rotating head. Tested to 1500 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.

17 1/2" hole, 13 3/8" H-40 48# csg set @ 650'

12 1/4" hole, 8 5/8" 28# K-55, 28#/32# csg set @ 4800' *****

7 7/8" hole, 5 1/2" 17# K-55/N-80 csg set @ 10,200'

*****SPECS: 8 5/8" K-55 BTC - ID=8.017", Drift=7.892", Burst =3390 psi, Collapse=1800 psi, and Tension=437,000 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/650 sxs Class 'C' + 4% gel + 2% CaCl₂ + 1/4 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) Stage 1: Lead w/600 sxs Class 'C' + 9 pps salt + 5 pps gilsonite + 1 pps econolite + 1/4 pps flocele, tail w/250 sxs 'C' + 2% CaCl₂.

Stage 2: Lead w/500 sxs Class 'C' Lite + 9 pps salt + 1/4 pps flocele, tail w/200 sxs Class 'C' + 2 % CaCl₂. Circ to surface.

- c. 5 1/2" csg: Lead w/600 sxs Class 'H' + 3% Econolite + 6 pps salt + 1/4 pps flocele, tail w/600 sxs Class 'H' 50/50 Poz + 2% gel + .6% Halad-9 + 3 pps KCL + 1/4 pps flocele. Bring TOC to +/- 4600'.

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:

0-650' fresh water, gel and lime system, MW 8.6-9.0
650'-4600' Brine, MW 10.0-10.1 ppg
4600'-9900' Fresh water, MW 8.3-8.5
9900'-10,200' FW/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 4000' to TD.

d. Logs to be run: CN-FDC/GR/CAL: TD SCP (CNL/GR to surface)
DDL/MSFL/GR: TD-SCP

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. There is no anticipated Hydrogen Sulfide 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.