

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND 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 81633
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 79710-1810 915-688-6943		8. FARM OR LEASE NAME, WELL NO. CHECKERBOARD 23 NO. 13 FEDERAL
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At surface 1980' FNL & 990' FEL At proposed prod. zone SAME AS SURFACE <i>Unit H</i>		9. API WELL NO. UNASSIGNED
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 28 MILES WEST OF EUNICE, NM		10. FIELD AND POOL, OR WILDCAT WEST RED TANK DELAWARE
13. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 990'	16. NO. OF ACRES IN LEASE 560	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 23, T22S, R32E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 990'	19. PROPOSED DEPTH 10,100'	12. COUNTY OR PARISH LEA
20. ROTARY OR CABLE TOOLS ROTARY		13. STATE NM
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3753'		22. APPROX. DATE WORK WILL START* UPON APPROVAL

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#	850'	800 SXS 'C' CIRC.
12 1/4"	8 5/8"	28#/32#	4600'	1550 SXS 'C' CIRC.
7 7/8"	5 1/2"	17#	10,100'	1200 SXS 'H' TOC @4400' +/-

OPER. OGRID NO. **26485**

PROPERTY NO. **13136**

POOL CODE **51689**

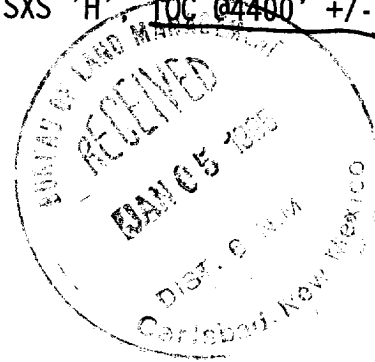
EFF. DATE **3/2/95**

API NO. **30-025-32864**

NO HYDROGEN SULFIDE
NOT IN DESIGNATED POTASH AREA

CONTACT PERSON: **DONNA WILLIAMS**
915-688-6943

NOTICE OF STAKING SUBMITTED ON DECEMBER 20, 1994.



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 **REGULATORY ASSISTANT** DATE **1/3/95**

(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 [Signature] TITLE **AREA MANAGER** DATE **2/22/95**

*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.

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill or deepen an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 1849 C Street, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0136), Washington, D.C. 20503.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the operator elects to initiate drilling operation on an oil and gas lease.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.

NM 81633

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

CHECKERBOARD 23 NO. 13
FEDERAL

9. API Well No.

UNASSIGNED

10. Field and Pool, or exploratory Area

WEST RED TANK DELAWARE

11. County or Parish, State

LEA NM

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

MERIDIAN OIL INC.

3. Address and Telephone No.

P.O. Box 51810, Midland, TX 79710-1810 915-688-6943

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1650' FNL & 990' FEL
SEC. 23, T22S, R32E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other MOVING LOCATION
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MERIDIAN OIL INC. RESPECTFULLY REQUESTS APPROVAL TO MOVE SAID WELL FROM 1980' FNL & 990' FEL TO A NEW LOCATION OF: 1650' FNL & 990' FEL. PLEASE SEE ATTACHED PLAT(S).



14. I hereby certify that the foregoing is true and correct

Signed

Title REGULATORY ASSISTANT

Date 1/19/95

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025- Unassigned		Number 32864	Pool Code 51689	Pool Name West Red Tank Delaware	
Property Code 13136	Property Name CHECKERBOARD "23" FEDERAL			Well Number 13	
OGRID No. 26485	Operator Name MERIDIAN OIL INC.			Elevation 3755	

Surface Location

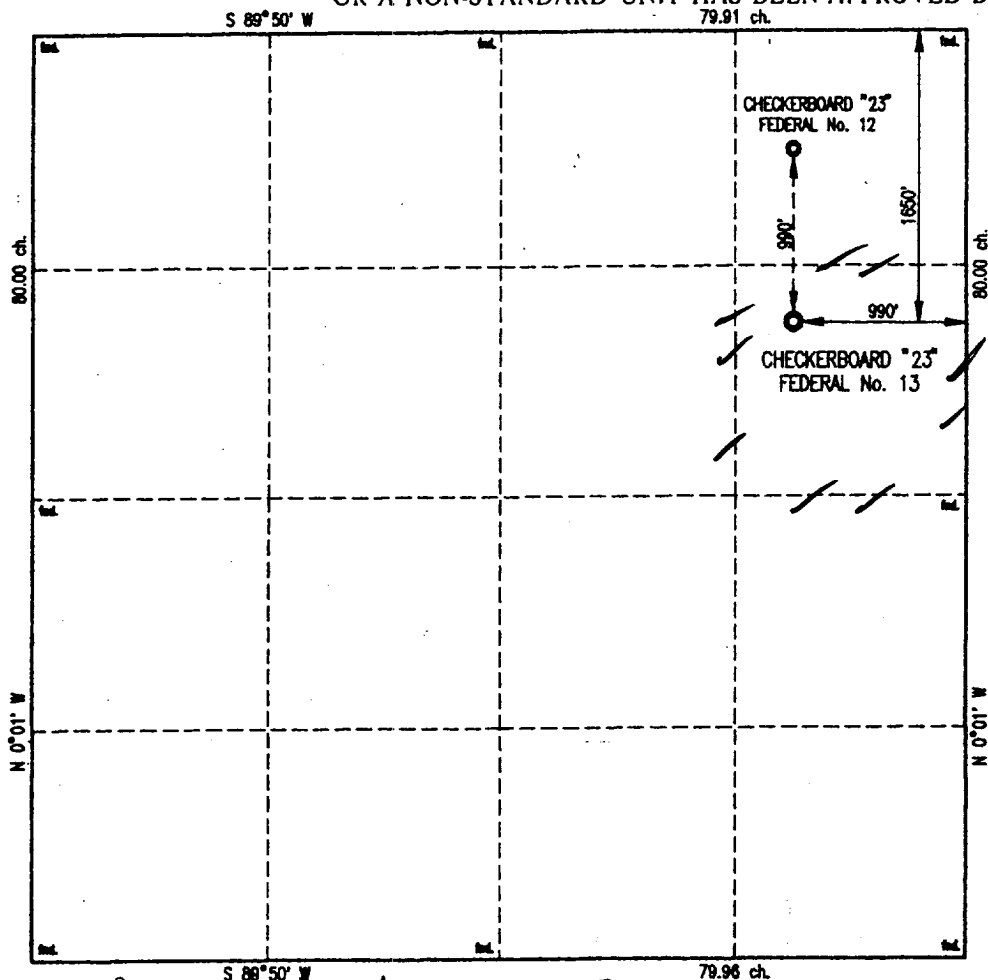
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	23	22 S	32 E		1650	NORTH	990	EAST	LEA

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
SAME AS SURFACE									

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



17 OPERATOR CERTIFICATION

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

Signature
Donna Williams
Printed Name
Regulatory Assistant
Title
1/19/95
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.

JANUARY 16, 1995

Date of Survey
Signature and Seal of
WILLIAM E. MAHNE II
NEW MEXICO
#8466
Professional Land Surveyor
Certificate Number 8466

NOTE - REVISED 1-17-95
MOVED LOCATION
ADJUST ALIGNMENT AND STATIONING

Amended C-102

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number Unassigned		2 Pool Code		3 Pool Name West Red Tank Delaware	
4 Property Code		5 Property Name CHECKERBOARD "23" FEDERAL			6 Well Number 13
7 OGRID No. 26485		8 Operator Name MERIDIAN OIL INC.			9 Elevation 3753

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	23	22 S	32 E		1980	NORTH	990	EAST	LEA

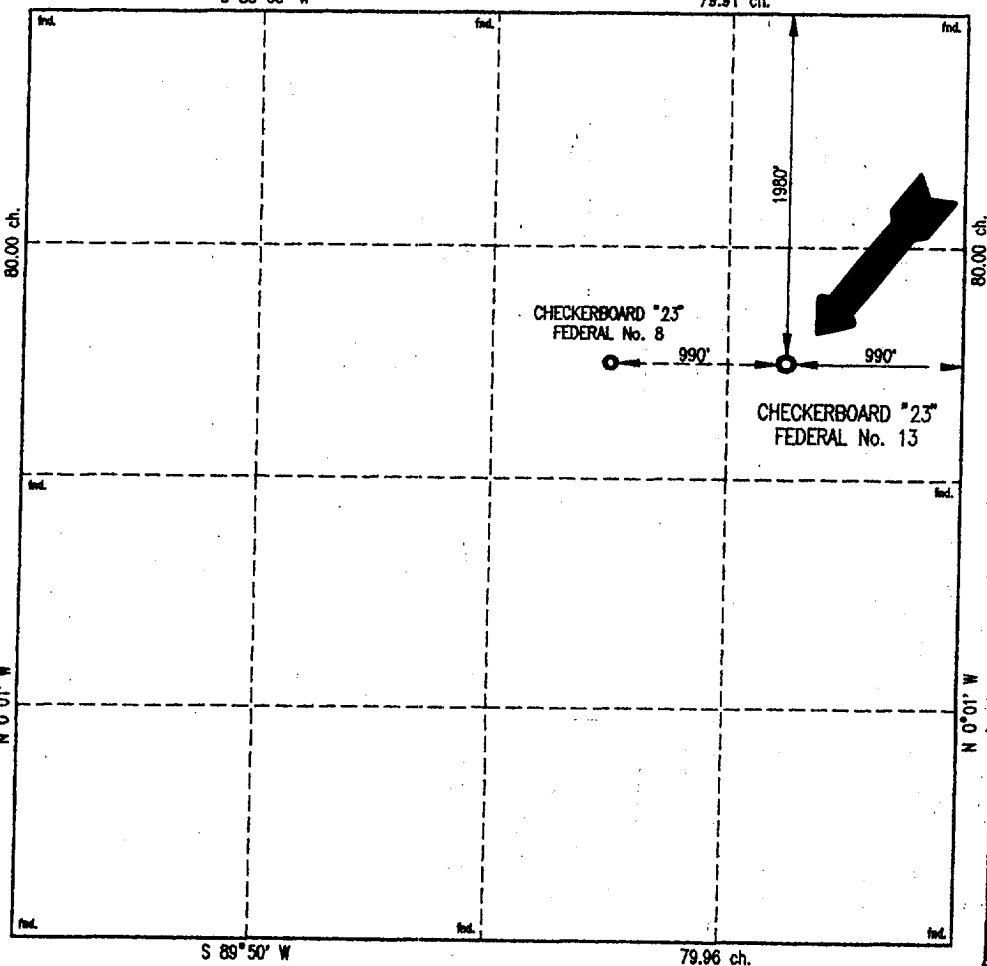
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Same As Surface									
12 Dedicated Acres 40	13 Joint or Infill	14 Consolidation Code	15 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

S 89°50' W

79.91 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
Regulatory Assistant
Title
1/4/95
Date

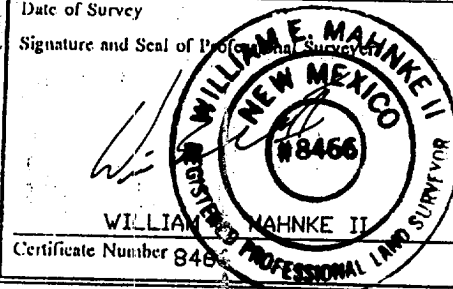
18 SURVEYOR CERTIFICATION

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.

DECEMBER 26, 1994

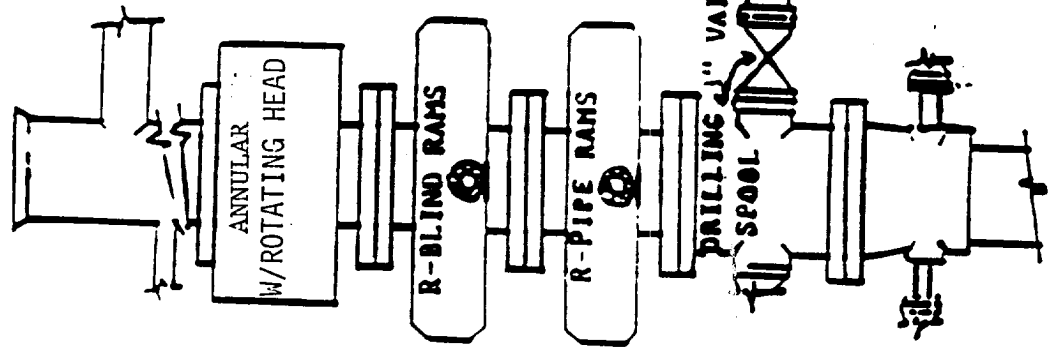
Date of Survey

Signature and Seal of Professional Surveyor

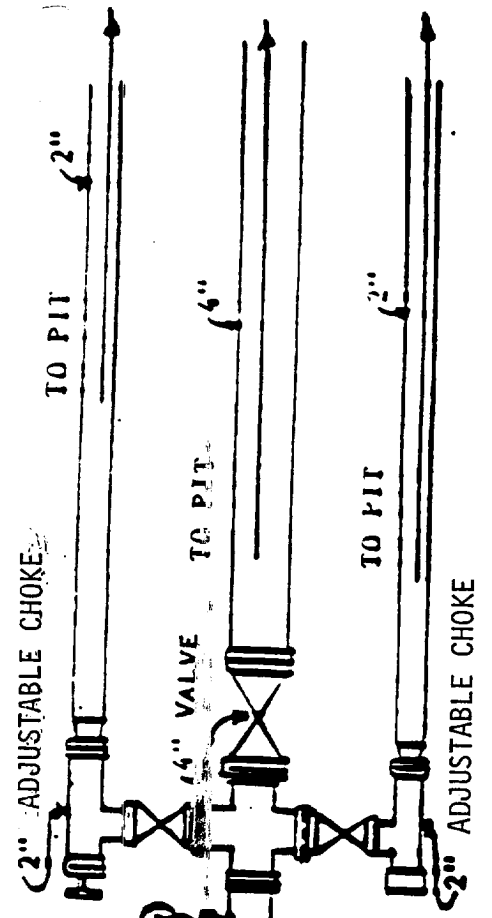


See Amended C-102

DOUBLE RAM



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



OPERATORS NAME:	Meridian Oil Inc.
LEASE NAME AND WELL NO.:	Checkerboard '23' Federal No. 13
LOCATION:	1980' FNL & 990' FEL, Sec. 23, T22S, R32E
FIELD NAME:	West Red Tank Delaware
COUNTY:	Lea County, NM
LEASE NUMBER:	NM 81633

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'
T/Salt-B/Salt	1100'-4500'
Delaware Sandstone	4850'
Bone Spring, 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.

Delaware	4850'-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" csg. Test to 750 psi before drilling the 13 3/8" casing shoe.

11" 3M BOP stack 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.

- 17 1/2" hole, 13 3/8" H-40 48# STC csg set @ 850'
- 12 1/4" hole, 3200' 8 5/8" 28# K-55 BTC, 1400' 8 5/8" 32# K 55 LTC csg @ 4600' *****

7 7/8" hole, 9000' 5 1/2" 17# K-55 LTC csg & 1150' 5 1/2" 17# N-80 LTC set @ 10,100'

**** SPECS: 8 5/8" K-55 BTC - ID=8.017", DRIFT=7.892",
BURST=3390 PSI, COLLAPSE=1880 PSI, AND TENSION=43700 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/600 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), DV Tool @ +/- 2500'. 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 Class '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.

RECEIVED

1944 JUL 10
U C D HUBBS
OFFICE

- c. 5 1/2" 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: 500 sxs Class 'H' Lite + .4% Halad-9. Tail w/100 sxs Class 'H' neat. Bring TOC to +/- 4400'.

- 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
850'-4600' Brine, MW 10.0-10.1
4600'-9900' Fresh Water, MW 8.3-8.5
9900'-10,100' 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 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. 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 18 days from surface to TD.

ELF
5/3/95

RECEIVED

OFFICE