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| 7 7/8" | 5 1/2" K-55/N-8 | | | 10050' | | 950 SXS | LTIE B | ACK] | | |
| 12 1/4" | 8 5/8" K-55 | 32#/28# | | | | 1800 SXS | 550 SXS CIRCULATE | | | |
| 17 1/2" | GRADE, SIZE OF CASING 13 3/8" H-40 | WEIGHT PER FOO | T | | | | | TE | | |
| SIZE OF HOLE | | · | | | | | | | | |
| 3592 23. | | ROPOSED CASIN | | | | UPON AF | PROVAL | <u> </u> | | |
| | ow Whether DF, RT, GR, ETC.) | | | | | 22. APPROX. DATE | | TART | | |
| · · · · · · · · · · · · · · · · · · · | | | 137' 10,050 | | | ROTAR | | | | |
| 18. DISTANCE FROM TO NEAREST WE | PROPOSED LOCATION* | | | | 20. ROTA | RY OR CABLE TOOLS | | | | |
| (Also to nearest | PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any | | | 1080 | | 40 | | | | |
| 15. DISTANCE FROM LOCATION TO NE | PROPOSED* | 60' | 16. NO. OF | ACRES IN LEASE | | DF ACRES ASSIGNED | | ······ | | |
| | ES WEST OF JAL | | | | | LEA | N | IM | | |
| 14. DISTANCE IN MI | LES AND DIRECTION FROM NEARE | ST TOWN OR POST OF | FICE* | | | SEC. 8, 1 12. COUNTY OR PARIS | | | | |
| n hohosed bu | VV. 4010 | Unit 1 | <u>'</u> | | | SEC 9 T | .048 D00 | | | |
| 1980' FSL At proposed pr | & 660' FWL | <i>i</i> . | | | | 11. SEC., T., R., M., AND SURVEY OR | OR BLK. AREA | | | |
| LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface | | | | | | SOUTH BAND DUNE BONE SP | | | | |
| P.O. BOX 51810, MIDLAND, TX 79710 915-688-6943 | | | | | | 10. FIELD AND POOL OR WILDOAT | | | | |
| 3. ADDRESS AND TELEPHONE NO. | | | | | | | # 4 | | | |
| MERIDIAN O | | | | | | JACK TANK 9. WELL NO. | O FEUE | | | |
| 2. NAME OF OPERAT | | <u> </u> | ZONE | | | 8. FARM OR LEASE | | | | |
| b. TYPE OF WELL | GAS T | | SINGL | EX M | | 9 5404 00 1 5455 | | | | |
| | | DEEPEN | | | | 7. UNIT AGREEMENT | NAME | | | |
| | 14. TYPE OF WORK | | | | | | | NAME | | |
| | APPLICATION FOR PERMIT TO DRILL OR DEEPEN | | | | | | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | | |
| | DUNLAU | OF LAND MANAG | EMENT | | | 5. LEASE DESIGNATIO | | L NO. | | |
| | | | NIERIC | R | | - | | | | |
| | DEPARTŇ | ENT OF THE | 88240 | rever | 58 Sive) | Expires: Febr | 100 400E | | | |
| · | HOBBS, W DEPARTN | 930 EFF STATES ENT OF THE I | 88240 | (Other inst rever | ນເ on se ຣເພະ) | FORM APPR OMB NO. 10 | | | | |

Title 18 U.S.C. Section 1001, makes it a crime for any person knowlingly 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.

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

DISTRICT II P.O. Drawer DD, Artesia, NM \$8210 State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

DISTRICT III WELL LOCATION AND ACREAGE DEDICATION PLAT 1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Operator Well No. MERIDIAN OIL INC JACK TANK 8 FEDERAL 4 Section Range County Unit Letter Township 8 24 SOUTH 32 EAST. LEA Ł NMPM Actual Footage Location of Well: SOUTH 660 WEST 1980 feet from the feet from the line and line Ground level Elev. **Producing Formation** Pool Dedicated Acreage: 3592 SOUTH SAND DUNI BONE SPRING 40 60 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 interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? Yes If answer is "yes" type of consolidation ...**⊡ No** If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. 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 interest, has been approved by the Division. -660 990 1320 1650 1980 2310 2640 2000 330 1500 1000 500 **OPERATOR CERTIFICATION** reby certify that the information S 89° 80.0 ch d herein in true and complete to the contain fnd ry knowledge and bettef. st of С, Signature DONNA WILLIAMS Printed Name 00 PRODUCTION ASSISTANT Position Õ MERIDIAN OIL INC. $\boldsymbol{\omega}$ Company 3/8/94 Date JACE TARE & FEDERAL No. SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of 8 actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief. JACE TARE & 3-4-94 Date Surveyed WILLIAN AHNKE II Signature Professi ≥

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| OPERATORS NAME: | Meridian Oil Inc. | |
|--------------------------|--|--|
| LEASE NAME AND WELL NO.: | Jack Tank 8 Federal # 4 | |
| LOCATION: | 1980' FSL & 660' FWL, Sec. 8, T24S, R32E | |
| FIELD NAME: | South Sand Dunes Bone Spring | |
| COUNTY: | Lea County, NM | |
| LEASE NUMBER: | NM 55953 | |
| | | |

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.

| FORMATION | DEPTH | | |
|-------------|-------|--|--|
| Rustler | 800' | | |
| Salado | 1100' | | |
| Delaware | 4600 | | |
| Bone Spring | 8550 | | |

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 8550 - 10050 (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 annular BOP w/rotating head to be installed on the 13 3/8" casing. Test to 750 psi before drilling the 13 3/8" casing 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 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 @ 600'
 - 12 1/4" hole, 8 5/8" K-55 28#/32# BTC csg set @ 4500' **

7 7/8 hole, 5 1/2" K-55 & N-80 17# LTC csg set @ 10,050'

** SPECS: 8 5/8" 28# K-55 BTC ID = 8.017", DRIFT = 7.892", BURST = 3390 PSI, COLLAPSE = 1880 PSI, & 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/350 sxs Class "C" + 4% gel & 2% CaCl2 tail w/200 sxs Class "C" + 2% CaCl2. Circ. to surface.
 - b. 8 5/8" csg: cmt w/1500 sxs 'C' Lite, tail w/300 sxs 'C' + 2% CACl2
 - c. 5 1/2" csg: cmt first stage w/450 sxs Class 'H' 50/50 Poz + 2% gel + .6
 Halad-9 + 3 pps KCl + 1/4 pps Flocele. second stage: Cmt w/400 sxs Class 'H' Lite + .4% Halad-9 and tail w/100 sxs Class 'H'. Bring TOC to +/-4300'.
- 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: 0-600' Fresh water/gel/lime system, MW 8.6 - 9.0 600-4500' brine, MW 10.0 - 10.1 4500-9850' fresh water MW 8.5-8.7 9850-10050' fresh water/Drispac 8.6-8.9

- 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: CNL-LDT/CAL/GR TD-4500' DIL/GR: TD-ICP CNL/GR - 4500' - SURFACE
- 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 19 days from surface to TD.



DOUBLE RAM