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OR APPLIED FOR	PROPOSED LOCATION ELL, DRILLING, COMP R, ON THIS LEASE, F	T. 1350)'	6100'			Rotary 22. APPROX. DATE WORK WILL START *			
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		T					ING DEPTH	QUANTITY	OF CEMENT	
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TITLE 18 U.S.C. SECTION 1991 makes if a critice for any person knowingly and willfully to make to any department or agency of the United States any fa 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, deepen, or plug back 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.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operation on an oil and gas lease.

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 lessee elects to initiate drilling operations on an oil and gas lease. Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

			stances must	Lease				Well No.	
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ie	SOUTHLAND R	OYALTY COMP Township	ANY	Range CC	MANCHE "A"	FEDERAL	County		
it Letter	12		-SOUTH		3I-EAST	NMP	M	EDDY	
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lf ans	wer is "no" list the ov	mers and tract descri	ptions which h	ave actually be	en consolidated.	(Use reverse side	of		
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SURFACE USE PLAN

SOUTHLAND ROYALTY COMPANY (Operated by Meridian Oil Inc.)

Comanche "A" Federal No. 2 990' FSL & 2310' FWL Sec. 12, T-18-S, R-31-E Eddy County, New Mexico LC-058709(a)

This plan is submitted with Application to Drill on above described well. The minerals are federal and the surface is leased for grazing (See below for surface lessee). The purpose of this plan is to describe the location, proposed construction activities and operations plans, magnitude of necessary surface disturbance and procedures to be followed in rehabilitating the surface after completion of the operation so that complete appraisal can be made of the environmental effects associated with the operations.

1. <u>Existing Roads</u>:

Exhibit "A" is a portion of a U.S.G.S. topographic map showing the location of the proposed well as staked.

Directions to the well are as follows: From the junction of US 82 and Hwy. 31, 6 miles east of Loco Hills, go south 4.0 miles on Hwy. 31, thence SE 1.1 miles on a county road, thence east 2.1 miles on a lease road to the SW corner of Section 12.

2. <u>Planned Access Road</u>:

An access road will extend south approximately 200' to an existing lease road. This access road wil be constructed according to BLM standards.

3. Location of Existing Wells in Area:

See Exhibit "B"

4. Location of Proposed Facilities:

Location of proposed well site and tank battery is shown on Exhibit "C". The battery will be located on proposed well pad; no additional surface disturbance will be necessary.

5. <u>Water Supply</u>:

No available surface or sub-surface fresh water exists in the vicinity of the proposed well. Drilling water will be transported or pumped to the drill site from the nearest commercial source.

6. <u>Source of Construction Material</u>:

Caliche for surfacing access road and pad will be obtained from an existing pit located in the SE/4 SE/4 of Sec. 11, or other BLM approved facility.

7. <u>Handling Waste Disposal</u>:

- a. Drill cuttings disposed into drilling pits.
- b. Drill fluids allowed to evaporate in drill pits until pits dry.
- c. Produced water during testing drill pits.
- d. Produced oil during testing storage tank until sold.
- e. Current laws and regulations pertaining to disposal of human waste will be observed.
- f. Reserve pit will be plastic lined.
- g. Waste paper, garbage, and junk will be disposed of into a special container on location. All waste material will be regularly removed to an approved landfill.
- h. All trash and debris will be buried or removed from well site within 30 days after drilling and/or completion operations are finished.
- 8. <u>Ancillary Facilities</u>:

None

- 9. <u>Plans for Restoration of Surface</u>:
 - a. After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and locations cleaned of trash and junk to leave well in as aesthetically pleasing a condition as possible.
 - b. Any unguarded pits containing fluids will be fenced until filled.
 - c. After abandonment of well, surface restoration will be in accordance with the Bureau of Land Management Surface Requirements.
- 10. Topography and Soil:

New Mexico Archaeological Services, Inc. report by Dr. J. Loring Haskell will be submitted when ready.

11. Land Use:

Grazing and hunting - Federal

Surface Lessee -NOT KNOWN Surface Use Plan Comanche "A" Federal No. 2 page three

12. Surface Ownership:

Bureau of Land Management (Federal)

13. Operators Representatives:

Field representatives (Responsible for compliance with approved surface use and operations plan):

Meridian Oil Inc. P. O. Box 837 Hobbs, New Mexico 88240 Office: 505-393-5844

Mr. Johnny Ellis, Drilling Foreman, or a consultant Hobbs, New Mexico Home: 505-393-8150

Mr. Bill Dawson, Drilling Superintendent Midland, Texas Office: 915-686-5600 Home: 915-682-9037

14. <u>Certification</u>:

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route; that I am familiar with conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Meridian Oil Inc. and its contractors and sub-contractors in uniformity with this plan and the terms and conditions under which it is approved.

Date:

5.J. V

S.J. Van Howe Drilling Engineer Meridian Oil Inc.

RLB/bn

SOUTHLAND ROYALTY COMPANY (Operated by MERIDIAN OIL INC.)

Comanche "A" Federal No. 2 990' FSL & 2310' FWL Sec. 12, T-18-S, R-31-E Eddy County, New Mexico LC-058709(a)

To supplement USGC 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:

Redbeds, Base	900	Queen	3,550'
Delaware	5,590'	San Andres	4,090'

7. The estimated depths at which anticipated water, oil, gas, and mineral bearing strata are as follows:

San Andres4,090' - OilDelaware5,150' - OilPossible Water Flow @ 3,550'

- 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. 8 5/8" csg: Cement w/275 sx C1 "C" cmt + 2% CaCl₂ + ¼#/sx Flocele. Circulate.
 - b. 5 1/8" csg: Cement w/1100 sx Cl "C" Lite + 9 pps salt + 1/4#sx Flocele and tail in w/275 sx Cl"C" plus 5 pps salt + 0.5% Halad 9. Circulate.
- 10. The pressure control diagram is attached to Form 3160-3. The following additional information is as follows:

8 5/8" casing installation: 10" - 3M BOP stack to be installed and tested by an independent tester to 3000 psi before drilling the 8 5/8" casing shoe. The BOP stack to consist of an annular BOP, blind ram BOP, and one pipe ram BOP.

Supplement to USGC Form 3160-3 Comanche "A" Federal No. 2 page two

- 11. See Form 3160-3
- 12. A. DST Program: None
 - B. Core: None
 - C. Mud Logging: None
 - D. Wire Line Logs:

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

CNL/LDT/CAL/GR TD - SCP (GR/CNL to surface) DDL/MSFL/CAL/GR TD - SCP

- 13. No abnormal pressures are anticipated. Bottom hole pressures at TD expected to be 2000 psi. Bottom hole temperature 110° F. No hydrogen sulfide expected in this known drilling area. No crooked hole or abnormal deviation problems.
- 14. Anticipated starting date to spud on or about 04-01-91. Anticipated drilling time expected to be 10 days from surface to TD.



MERIDIAN OIL

Meridian Oil, 21 Desta Drive Midland, Texas 79705 <u>FXHIBIT</u> " SOUTHLAND ROYALTY COMPANY COMANCHE "A" FEDERAL NO. 2 Sec. 12, T18S, R31E LC-058709(a)



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PLAT SHOWING PROPOSE WELL LOCATION and LEASE ROAD in SECTION 12, T-18-S, R-31-E, EDDY COUNTY, NEW MEXICO



LOCATION . ELEVATION VERIFICATION MAP



1305 N. HOBART PAMPA, TX 79085 (806) 665-7218

910 W. WALL MIDLAND, TX 79701 (915) 682-1653 SOUTHLAND ROYALTY COMPANY COMANCHE "A" FEDERAL NO.2 SEC. 12, T18S, R31E LC-058709(a)

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