Form 3160-3 (July 1989) (formerly 9-3	DE	NITED STATES		OF COPIE (Other instruction reverse side)	UNBER QUIRED is on	BLM Roswell Modified For NM060-3160	II District	ND SERIAL NO. 93	
APPLICA	TION FOR	PERMIT TO DRILL,	DEEPEN	, OR PLUG E	SACK	Han S I	10	1. .	
							7. UNIT AGREEMENT NAME		
OIL 🔽	GAS	OTHER	SINGLE ZONE	Z MULTIPL ZONE		SE FARM OR LE	ASE NAM	1E	
2. NAME OF OPERAT	WELL		2011	3a. AREA CODE & PH	ONE NO.	West Corbin Federal			
	Royalty Compa	anv		915/686-560	0	9. WELL NO.			
3. ADDRESS OF CPER						22			
21 Desta D	Dr., Midland, T		10. FIELD AND POOL, OR WILDCAT						
 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1980' FNL & 1780' FWL At proposed prod. zone 							West Corbin (Delaware) 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 18, T18S, R33E 12. COUNTY OR PARISH 13. STATE		
14. CISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*									
11 miles so	utheast of Ma	aljamar, NM				Lea		NM	
15. DISTANCE FROM LOCATION TO NE PROPERTY OR LI (Also to nearest	PROPOSED* EAREST EASE LINE, FT, t drig, unit line, if a	1830'	16. NO. OF A	640	TO THIS WELL				
3. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH 20. ROT							RY OR CABLE TOOLS		
TO NEAREST WELL, DRILLING, COMPLETED, DR APPLIED FOR, ON THIS LEASE, FT 200' (SEE NOTE) 5500'						Rotary			
21. ELEVATIONS (Snow Whether DF. RT. GR. ETC.) 3880' GR.							22. APPROX. DATE WORK WILL START *		
23.		PROPOSED CASIN	G AND CEM	IENTING PROGRA	AM				
							ING DEPTH QUANTITY OF CEMENT		
HOLE SIZE	CASING SIZE		ADE	STC		370'		0 sx-Circ.	
12 1/4"	8 5/8" 5 1/2"	= 1//	-55	STC		5500'		1000 sx- <u>Circ</u>	
	5 1/2								

Drill 12 1/4" hole to 370'. Set 8 5/8" csg @370'. Cmt w/240 sx. Circ.

Drill 7 7/8" hole to 5500'. Set 5 1/2" csg @ 5500'. Cmt w/1000 sx. Circ.

MUD PROGRAM: 0-370' fresh water gel & lime; 370'-5500' salt water, MW 9.8-10.2. No abnormal pressures or temperatures expected.

BOP PROGRAM: 10"-3M BOP stack to be installed on 8 5/8" & left for remainder of drilling. Stack to consist of annular BOP, blind ram BOP, and one pipe rem BOP. Test BOP's with an independent tester after setting the 8 5/8" csg.

NOTE: The West Corbin Federal #18 is a twin to this well & produces from the Wolfcamp formation.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

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 perinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED REALER Bradehaw	TITLE	Sr. Staff Env./Reg. Spec.	DATE .	01 March 1990
(This space for Federal or State office use)				
APPROVED OTIO. STATED ANY RECENCE. METHOD		SUURCE ARE	_ DATE _	15-4 90

*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.

SOUTHLAND ROYALTY COMPANY (Operated by Meridian Oil Inc.)

West Corbin Federal No. 22 1980' FNL & 1780' FWL Sec. 18, T-18-S, R-33-E Lea County, New Mexico NM-93

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

- See Form 3160-3 1.
- See Form 3160-3 2.
- The geological name of surface formation is: Ochoa 3.
- See Form 3160-3 4.
- See Form 3160-3 5.
- The estimated tops of important geological markers are: 6. 5,040' 4,090' Delaware Oueen 4,690' San Andres
- The estimated depths at which anticipated water, oil, gas, and mineral 7. bearing strata are as follows: 5,040' - 0il Delaware
- See Form 3160-3. All casing will be new. 8.
- See Form 3160-3 for depths of strings. Cement volumes and additions as 9. follows:
 - 8 5/8" csg: Cement w/ 240 sx C1 "C" + 2% CaCl₂ + 1/4#/sx CF. а.
 - 5 1/2" csg: Cement w/ 735 sx C1 "C" Lite + 12% SALT + 1/4#/sx CF с. and tail in w/ 265 sx Cl "C" Neat. Circulate.
- The pressure control diagram is attached to Form 3160-3. The following 10. additional information is as follows:

8 5/8" casing installation: 10" - 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 an annular BOP, a blind ram BOP, and one pipe ram BOP.

See Form 3160-3 11.

12.

- DST Program: None Α.
 - Core: None Β.
 - С. Mud Logging: None
 - Wire Line Logs: D.
 - The following suite of logs will be run in both of the listed intervals: TD-3000' (GR/CNL to surf.) CNL-FDC-GR TD-3000' DLL-RXO
- No abnormal pressures are anticipated. Bottom hole pressures at TD expected to be 2000 psi. Bottom hole temperature 110° F. No Hydrogen 13. Sulfide expected in this known drilling area. No crooked hole or abnormal deviation problems.
- Anticipated starting date to spud on or before 4-09-90. Anticipated 14. drilling time expected to be 10 days from surface to TD.

Surface Use Plan West Corbin Federal No. 22 page two

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

Caliche for surfacing access road and pad will be obtained from an existing pit located in the SW/4 NE/4 of Sec. 9 or in the SE/4 SW/4 of Sec. 7. There has been an Archaelogical Report filed on these pits.

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 trash bin on location and regularly disposed of into an approved landfill site. All waste material will be contained to prevent scattering by wind.
- 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 weill be submitted when available.

11. <u>Land Use</u>:

Grazing and hunting - Federal

Surface Lessee - Caviness Cattle Company c/o Mr. Gary Caviness East Star Route Maljamar, New Mexico 88264 Surface Use Plan West Corbin Federal No. 22 page three

12. <u>Surface Ownership</u>:

Bureau of Land Management (Federal)

13. Operators Representatives:

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

Southland Royalty Company (Operated by 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: <u>3-2-90</u>

L. H. Sinclair Senior Drilling Engineer Meridian Oil Inc.

SURFACE USE PLAN

SOUTHLAND ROYALTY COMPANY (Operated by Meridian Oil Inc.)

West Corbin Federal No. 22 1980' FNL & 1780' FWL Sec. 18, T-18-S, R-33-E Lea County, New Mexico NM-93

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. Existing Roads:

Exhibit "A" is a portion of a USGS Topographic map showing the location of the proposed well as staked.

Directions to the well are as follows: From the junction of US 180 and Hwy. 529, 14 miles west of Hobbs, go NW 19.4 miles on Hwy. 529, thence SW and south 2.8 miles on lease road to a point $\pm 2300'$ east of the NW^C of the Section 18.

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

a. An existing access road will be used.

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. Submit to Appropriate District Office State Lease - 4 comes

P.O. Box 1980, Hobbs, NM 88240

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

State of New Mexico

Energy, Minerals and Natural Resources Dep ...nent

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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Form C-102 Revised 1-1-89

Fee Lease -	
DISTRICT	I

<u>DISTRICT III</u>

APR 5 1990 OCD HOBBS OPPICE i

LOCATION & ELEVATION VERIFICATION MAP



Surveying & Mapping for the Oil & Gas Industry

1305 N. HOBART PAMPA, TX 79085 (906) 665-7216 910 W. WALL MIDLAND, TX 79701 (915) 682-1653 215 E. TRAVIS (214) 338-9802 SOUTHLAND ROYALTY COMPANY West Corbin Federal No. 22 Sec. 18, T18S, R33E