

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT DIVISION
OFFICE OF THE DIRECTOR
OF COPIES REQUIRED

Other instructions on
reverse side

30-025-31239
BLM Roswell District
Modified Form No.
WM060-3160-2

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK			5. LEASE DESIGNATION AND SERIAL NO. NM-0997	
1. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>			7. UNIT AGREEMENT NAME	
3. NAME OF OPERATOR Southland Royalty Company			8. FARM OR LEASE NAME West Corbin Federal	
3a. AREA CODE & PHONE NO. 915/686-5600			9. WELL NO. 27	
4. ADDRESS OF OPERATOR 21 Desta Dr., Midland, TX 79705			10. FIELD AND POOL, OR WILDCAT South Corbin (Wolfcamp)	
5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) a. surface 1980' FSL & 810' FEL b. proposed prod. zone			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 08, T18S, R33E	
12. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12 miles southeast of Maljamar, NM			12. COUNTY OR PARISH Lea	13. STATE NM
14. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest orig. unit line, if any) 810'		16. NO. OF ACRES IN LEASE 960	17. NO. OF ACRES ASSIGNED TO THIS WELL 80	
15. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1750'		19. PROPOSED DEPTH 11,550'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, ETC.) 3926-7' GR.			22. APPROX. DATE WORK WILL START* 01 June 1991	

PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	K-55	STC	350'	350 sx-Circ.
12-1/4"	8-5/8"	24# & 28#	K-55	STC	2900'	1400 sx-Circ.
7-7/8"	5-1/2"	15.5# & 17#	K-55	STC	11,550'	2100 sx

Drill 17-1/2" hole to 350'. Set 13-3/8" csg @350' & cmt w/350 sx Class C. Circ. Drill 12-1/4" hole to 2900'. Run fluid caliper. Set 8-5/8" csg @2900'. Cmt: Lead w/1200 sx Lite C & tail in w/200 sx Class C. Circulate. Drill to TD to test Middle and Lower Wolfcamp. 5lf commercial, run 5-1/2" csg to 11,500'. Cmt w/sufficient volume to bring cmt above all prospective zones. Est. TOC @2900'. Perf. and stimulate the Wolfcamp for production.

MUD PROGRAM: 0-350' spud mud; 350'-2900' brine; 2900'-10,200' cut brine and sweeps (chlorides 30,000+ ppm); 10,200'-TD cut brine and Drispac. MW 9.0-9.2 (solids must be less than 5% w/VIS 32-36).

BOP PROGRAM: 13 5/8" 2M annular BOP to be installed on the 13 3/8" csg. 11"-3M stack to be installed on the 8 5/8" and left for remainder of drilling. The stack is to consist of an annular BOP, a blind ram BOP, and one pipe ram BOP. Test the BOP's after setting the 8 5/8" csg using an independent tester.

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

23. SIGNED Robert L. Bradshaw TITLE Sr. Staff Env./Reg. Spec. DATE 20 March 1991

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY: _____ TITLE _____ DATE 20 March 1991

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

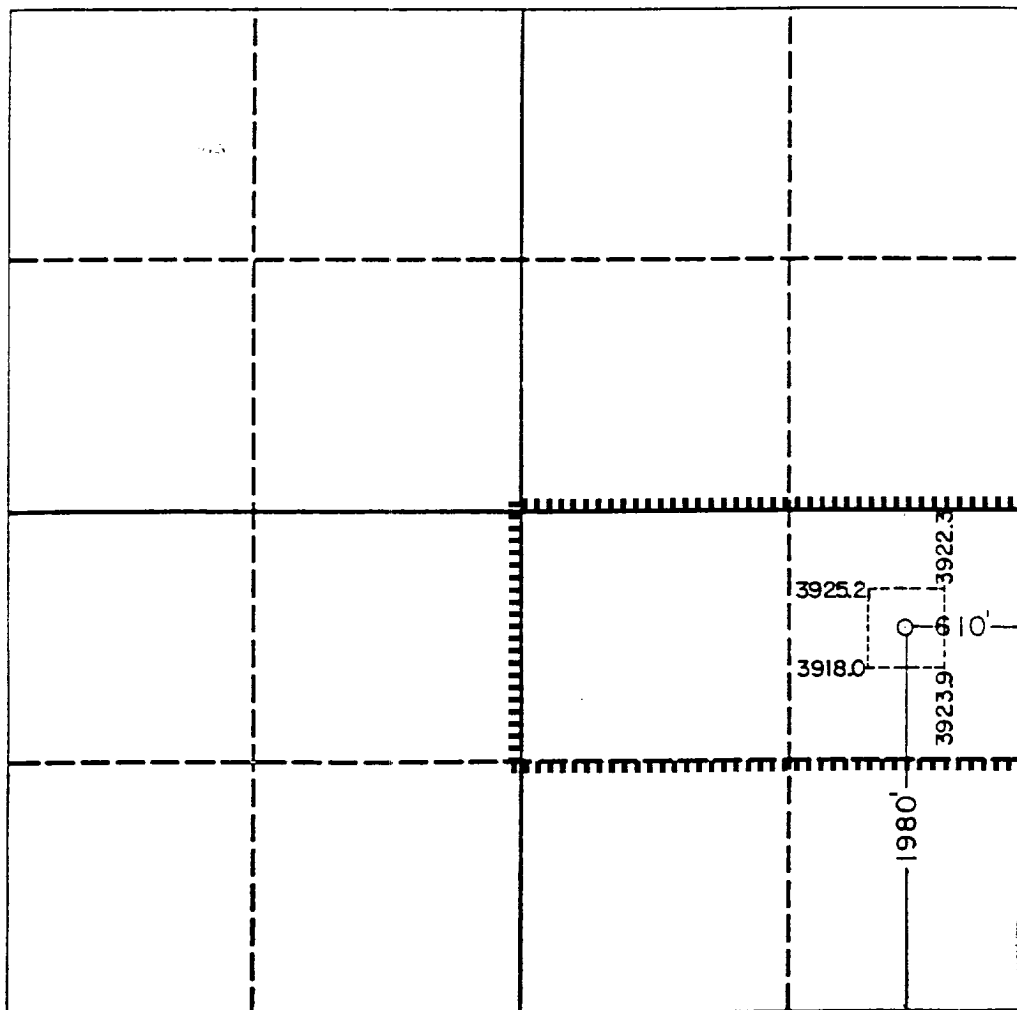
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOUTHLAND ROYALTY COMPANY			Lease West Corbin Federal		Well No. 27
Unit Letter I	Section 8	Township 18 South	Range 33 East	County Lea	
Actual Footage Location of Well: 1980 feet from the South line and 610 feet from the East line					
Ground level Elev. 3920.5		Producing Formation Wolfcamp		Pool South Corbin	
				Dedicated Acreage: 80 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____
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.



OPERATOR CERTIFICATION

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

Signature

Robert L. Bradshaw

Printed Name

Robert L. Bradshaw, Sr. Envr.

Position

Meridian Oil Inc.

Company

5/10/91

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 knowledge and belief.

Date Surveyed

March 26, 1991

Signature of State of Professional Surveyor

John W. West
Certificate No. **JOHN W. WEST, 676**
RONALD E. EVANSON, 3239
NEW MEXICO
JOHN W. WEST

SOUTHLAND ROYALTY COMPANY
(Operated by Meridian Oil Inc.)

West Corbin Federal No.27
1980' FSL & 810' FEL
Sec. 8, T-18-S, R-33-E
Lea County, New Mexico
NM-0997

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:

Rustler	1,415'	1st Bone Spring Sand	8,370'
Yates	2,915'	2nd Bone Spring Dolo	8,825'
San Andres	4,500'	Wolfcamp	10,900'
Delaware	4,980'	Lower Wolfcamp	11,050'
Bone Spring	7,050'		
7. The estimated depths at which anticipated water, oil, gas, and mineral bearing strata are as follows:

Delaware	5,110' - Oil
1st Bone Springs Sand	8,370' - Oil
Wolfcamp	10,900' - Oil
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. 13 3/8" csg: Cement w/350 sx Neat "C" cmt. Circ. to surface.
 - b. 8 5/8" csg: Cement w/1200 sx Lite "C" cmt w/15# salt. Also tail-in w/200 sx Cl "C" w/2% CaCl₂. Circ. to surface. sx "C".
 - c. 5 1/2" csg: Cement 1st stage w/±800 sx Cl "H". Cmt 2nd stage w/1200 sx Lite & 100 sx Cl "H" to bring TOC @ 2900'.

A caliper log will be run prior to setting 5 1/2" pipe to determine exact cement volumes required.