

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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reverse side)

20-025-31238
BLM Roswell District
Modified Form No.
M060-3160-2

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC-569420
2. 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
3. NAME OF OPERATOR Southland Royalty Company		7. UNIT AGREEMENT NAME
3a. AREA CODE & PHONE NO. 915/686-5600		8. FARM OR LEASE NAME West Corbin Federal
4. ADDRESS OF OPERATOR 21 Desta Dr., Midland, TX 79705		9. WELL NO. 29
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 910 660' FNL & 540' FEL At proposed prod. zone		10. FIELD AND POOL, OR WILDCAT South Corbin (Wolfcamp)
11. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 12 miles southeast of Maljamar, NM		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 07, T18S, R33E
12. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest grig. unit line, if any) 510'		12. COUNTY OR PARISH Lea
13. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1221'		13. STATE NM
14. NO. OF ACRES IN LEASE 960		14. NO. OF ACRES ASSIGNED TO THIS WELL 80
15. PROPOSED DEPTH 11,550'		15. ROTARY OR CABLE TOOLS Rotary
16. ELEVATIONS (Show whether DF, RT, CR, ETC.) 3945.7 2340.7 GR.		16. 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.

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

SIGNED Robert L. Brown 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 _____

CONDITIONS OF APPROVAL, IF ANY:
APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side