

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐

DEEPEN ☐

PLUG BACK ☒

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Southland Royalty Company

3. ADDRESS OF OPERATOR

P.O. Box 4289, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1800' FNL, 1650' FEL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED

TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5995' GL

22. APPROX. DATE WORK WILL START\*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

See attached Recompletion Procedure.

RECEIVED  
JAN 04 1990  
OIL CON. DIV  
DIST 2

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.

24.

SIGNED

*R. Stanfield*

TITLE Production Engineer

DATE 12-13-89

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED

APPROVED BY

TITLE

DATE DEC 29 1989

CONDITIONS OF APPROVAL, IF ANY:

NMOCD

\*See Instructions On Reverse Side

AREA MANAGER

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.

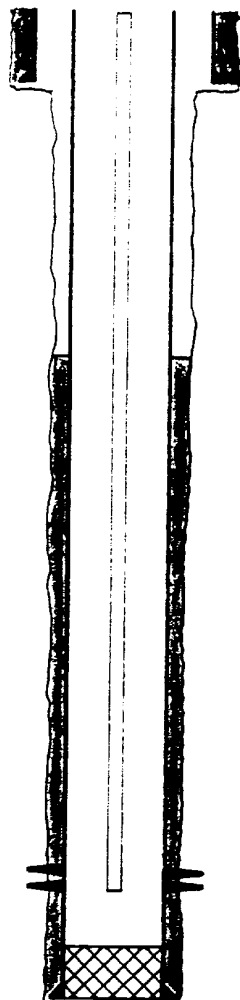
**Recompletion Procedure  
Jernigan #2**

1. Prepare location for workover. Install / replace anchors as necessary.
  2. MOL with workover rig, hold safety meeting, install safety signs and proper fire equipment at strategic points. Comply with all BLM, NMOCD, and MOI regulations.
  3. NU 6" 3000 psi BOP and stripping head.
  4. TOOH and laydown 94 joints of 1" 1.7# 10rd tubing (2071').
  5. PU 2 3/8" 4.7# J-55 EUE tubing and TIH with 5½" casing scraper. CO to PBTD. TOOH.
  6. RU wireline unit and set a 5½" bridge plug @ 1988'. Install tree-saver or run a tension set packer to isolate wellhead. Pressure test casing to 2500 psi for 15 minutes. If casing fails, isolate casing leak(s) with a test packer. A squeeze procedure will be provided if the casing is determined to be repairable.
  7. Run GR-CCL-CNL.
  8. Perforate using 4" HSC guns. Shoot 2 SPF.
  9. Breakdown formation and evaluate. If necessary, fracture stimulate.
  10. TIH w/ 2 3/8" tubing and clean out to PBTD.
  11. When well is clean, land 2 3/8" tubing with a common pump seating nipple one joint off bottom. Land tubing at ±1983'. Swab well in. Record final gauges. ND BOP. NU tree. Rig down and release rig.
  12. Shut well in for pressure build up. Obtain gas and water sample for analysis.
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Jernigan #2  
NE/4 Section 24, T-27-N, R-9-W  
San Juan County, New Mexico

Wellbore Schematics

CURRENT



8 5/8" 24.0# K-55  
set @ 133'

Top of cement @ 1419' (calculated)

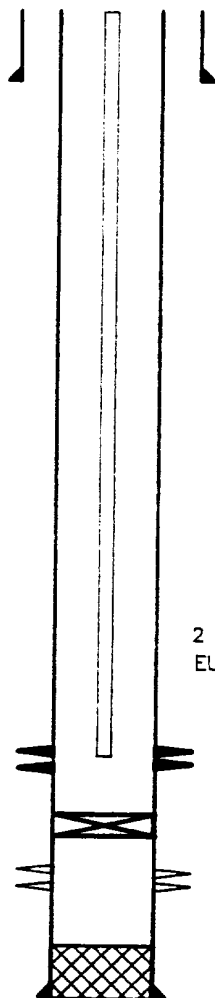
1" 1.7# 10rd tubing set @ 2078'

PC perfs @ 1992'-2050' (4SPF)

PBTD unknown

5 1/2" 14.0# J-55  
set @ 2100'

PROPOSED

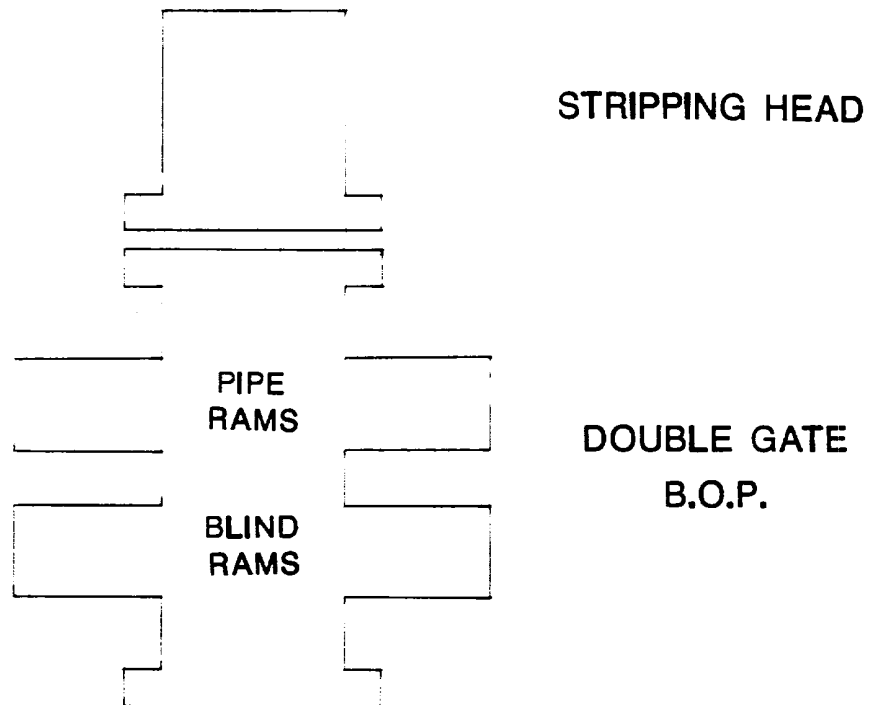


2 3/8" 4.7# J-55  
EUE tubing set 1983'

Fruitland Coal perfs  
@ 1860'-1983'

Bridge plug  
set @ 1988'

# **WORKOVER / RECOMPLETION B.O.P. SCHEMATIC**



**MINIMUM: 6" 2000 PSI DOUBLE GATE B.O.P.**

**MAXIMUM ANTICIPATED SHUT-IN WELLHEAD  
PRESSURE IS LESS THAN 2000 PSI**