

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK PLUG BACK	5. LEASE NUMBER SF-078115
1b. TYPE OF WELL GAS	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR SOUTHLAND ROYALTY COMPANY	7. UNIT AGREEMENT NAME
3. ADDRESS & PHONE NO. OF OPERATOR P.O. BOX 4289 FARMINGTON, NM 87499 (505) 326-9700	8. FARM OR LEASE NAME GRENIER
4. LOCATION OF WELL 1550' FSL; 1840' FEL	9. WELL NO. #18
14. DISTANCE IN MILES FROM NEAREST TOWN	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
	11. SEC. T. R. M OR BLK. SEC. 13, T31N, R12W
	12. COUNTY SAN JUAN
	13. STATE NM
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE.	16. ACRES IN LEASE
	17. ACRES ASSIGNED TO WELL 316.64
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH
	20. ROTARY OR CABLE TOOLS
21. ELEVATIONS (DF, FT, GR, ETC.) 6114' GL	22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

\*SEE OPERATIONS PLAN

24. AUTHORIZED BY: *James Bradfield* (CJS)  
REGULATORY AFFAIRS

5-3-90  
DATE

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3.  
(NO ADDITIONAL DIRT WORK WHILE REQUIRED)

RECEIVED  
MAY 14 1990

OIL CON. DIV.,  
DIST. 3

APPROVED

MAY 09 1990

AREA MANAGER

*Held on 104 for  
NSL & NSP*

*Cancel Greiner #104 & #105*

*(E)*

Submit to Appropriate  
District Office  
State Leases - 4 copies  
Fee Leases - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

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 Grenier (SF-078115)		Well No. 18
Unit Letter J	Section 13	Township 31N	Range 12W	County San Juan	NMPM
Actual Footage Location of Well: 1550 feet from the South line and 1840 feet from the East line					
Ground level Elev. 6114'	Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 316.64 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or machine marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 communitization agreement will be  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) obtained  
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.

Prepared from a plat  
dated 2-21-69  
by E. V. Echohawk

RECEIVED  
MAY 14 1990  
OIL CON. DIV.  
OFFICE

OPERATOR CERTIFICATION

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

Peggy Bradford  
Signature

Peggy Bradford

Printed Name  
Regulatory Affairs

Position  
Southland Royalty Co

Company  
5-3-90

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

Neale C. Edwards  
Signature of Professional Surveyor

NEW MEXICO  
6857  
6857  
REGISTERED LAND SURVEYOR

Certificate No.  
Neale C. Edwards

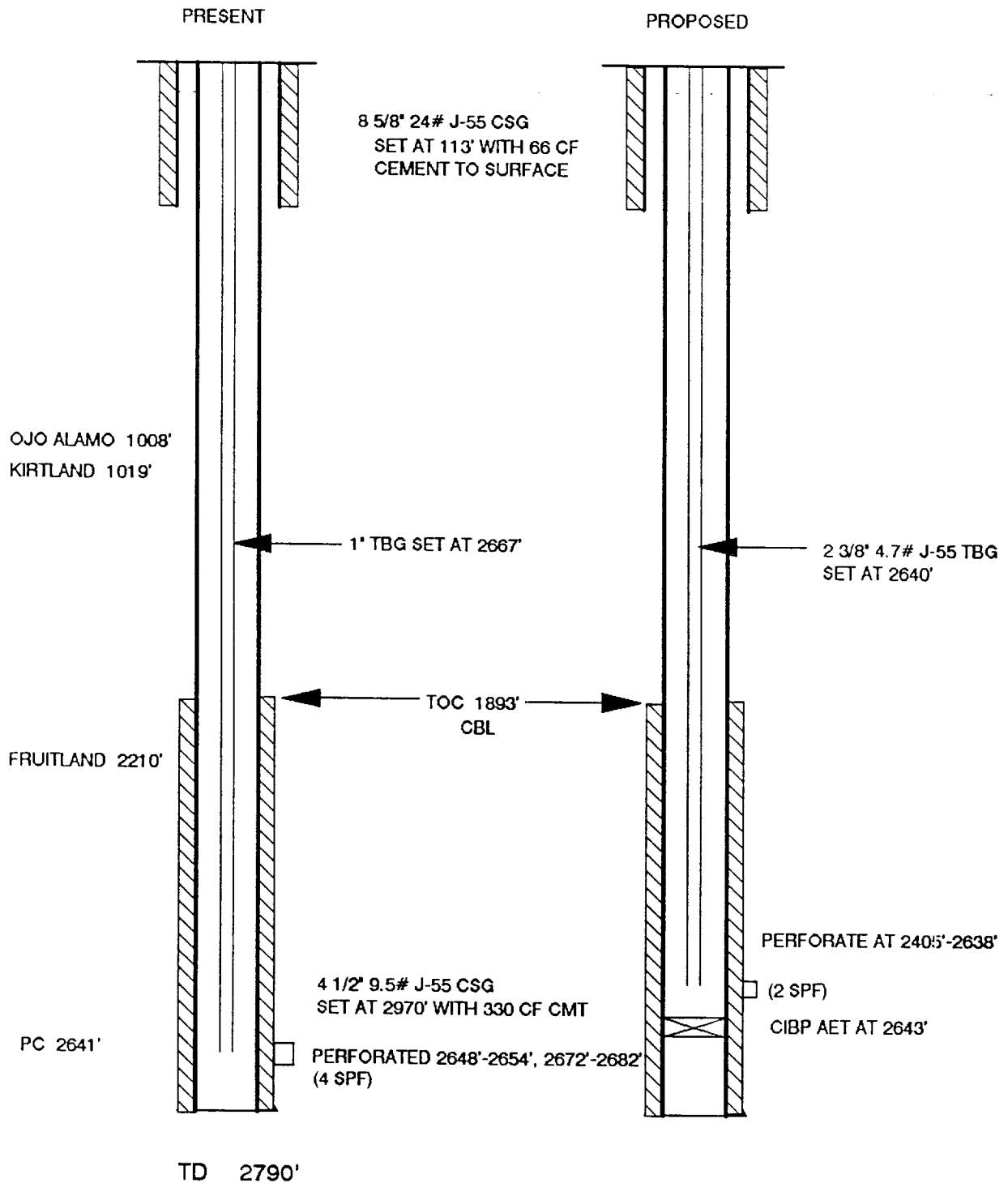
0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

Grenier #18  
Procedure to Recomplete Fruitland Coal

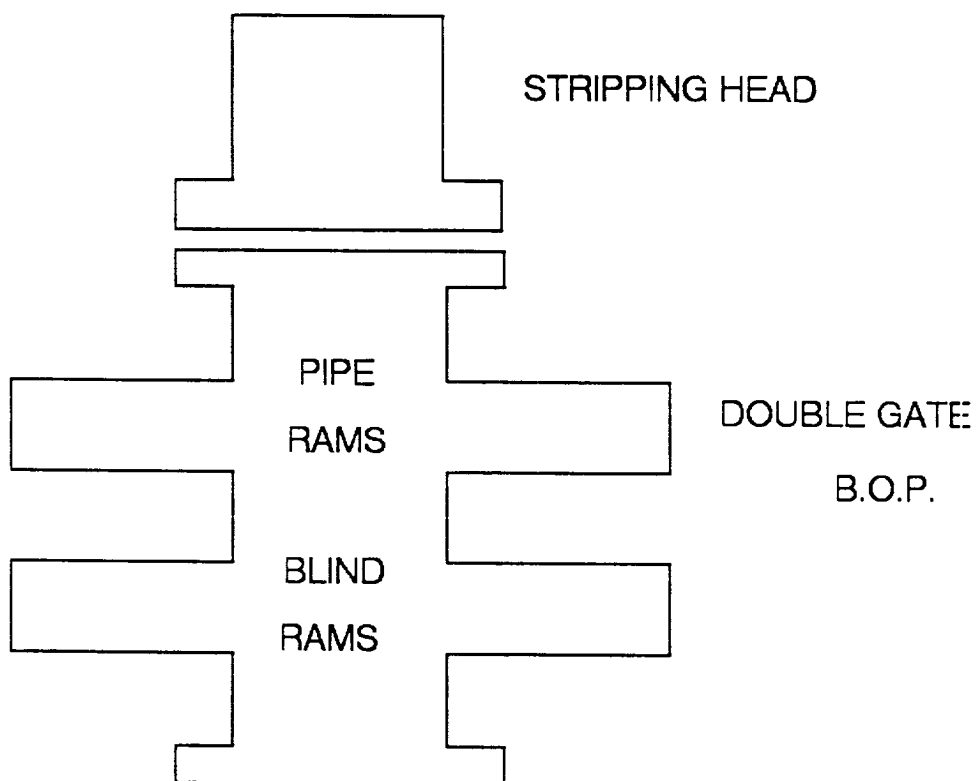
1. Check location anchors.
2. MOL and rig up daylight pulling unit with rip pump and blow tank.
3. Kill PC with water as needed. ND wellhead. NU BOP. TOOH with 1" tubing.
4. Run CNL-GR-CCL. Set cast iron bridge plug at 2643'.
5. Pressure test casing to 3000 psi for 15 minutes.
6. Perforate the Fruitland Coal interval.
7. Pick up retrievable bridge plug and packer. TIH on 2 3/8" tubing. Isolate each coal interval and breakdown.
8. Fracture stimulate well.
9. Open well through variable choke and flow back slowly.
10. TIH with 2 3/8" tubing with expendable check on bottom. Blow well with air.
11. Obtain and record gauges. When returns dry up, TOOH with 2 3/8" tubing.
12. TIH with 2 3/8" 4.7# EUE tubing with pump out plug on bottom and common pump seating nipple one joint off bottom. Land tubing at 2640'. Nipple down BOP. Nipple up wellhead.

GRENIER #18  
WELLBORE DIAGRAMS

UNIT J SECTION 13 T31N-R12W  
FRUITLAND COAL RECOMPLETION



# 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