

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO RE-DRILL, DEEPEN, OR PLUG BACK

RECEIVED  
OCT 25 1990  
OIL CON. DIV.  
DIST. 3

1a. TYPE OF WORK  
PLUG BACK  
1b. TYPE OF WELL  
GAS  
2. OPERATOR  
MERIDIAN OIL INC.  
3. ADDRESS & PHONE NO. OF OPERATOR  
P.O. BOX 4289  
FARMINGTON, NM 87499  
(505) 326-9700  
4. LOCATION OF WELL  
1650' FSL; 990' FEL  
5. LEASE NUMBER  
USA-SP-03493  
6. IF INDIAN, ALL. OR TRIBE NAME  
7. UNIT AGREEMENT NAME  
HUERFANO UNIT  
8. FARM OR LEASE NAME  
9. WELL NO.  
NP 23  
10. FIELD, POOL, OR WILDCAT  
BASIN FRUITLAND COAL  
11. SEC. T. R. M OR BLK.  
SEC. 19, T26N, R09W  
12. COUNTY  
SAN JUAN  
13. STATE  
NM  
14. DISTANCE IN MILES FROM NEAREST TOWN  
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE.  
16. ACRES IN LEASE  
17. ACRES ASSIGNED TO WELL  
320.00  
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.)  
6461' GL  
22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

\*SEE OPERATIONS PLAN

24. AUTHORIZED BY: Deputy Manager (CRB)  
REGULATORY AFFAIRS

8-13-90  
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 WILL BE REQUIRED)

APPROVED  
OCT 10 1990  
Ken Townsend  
AREA MANAGER

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 El Paso Natural Gas		Lease Huerfano Unit (SF-03493)		Well No. 23
Unit Letter I	Section 19	Township 26 North	Range 9 West	County San Juan
Actual Footage Location of Well: 1650 feet from the South line and 990 feet from the East line				
Ground level Elev. 6471'	Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hectare 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 unitization  
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, force-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

Prepared from a plat by  
E. S. Oberly dated  
12-16-55.

RECEIVED  
OCT 25 1990  
OIL CON. DIV.  
DIST. 3

OPERATOR CERTIFICATION

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

*Peggy Bradfield*  
Signature

Peggy Bradfield

Printed Name

Regulatory Affairs

Position

El Paso Natural Gas

Company

8-15-90

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. 8-12-90

Date Surveyed

*[Signature]*

Signature of Professional Surveyor

NEW MEXICO

6857

6857

Certificate No.

NEALE C. EDWARDS

Neale C. Edwards

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

Huerfano Unit NP #23  
Procedure to Recomplete Fruitland Coal

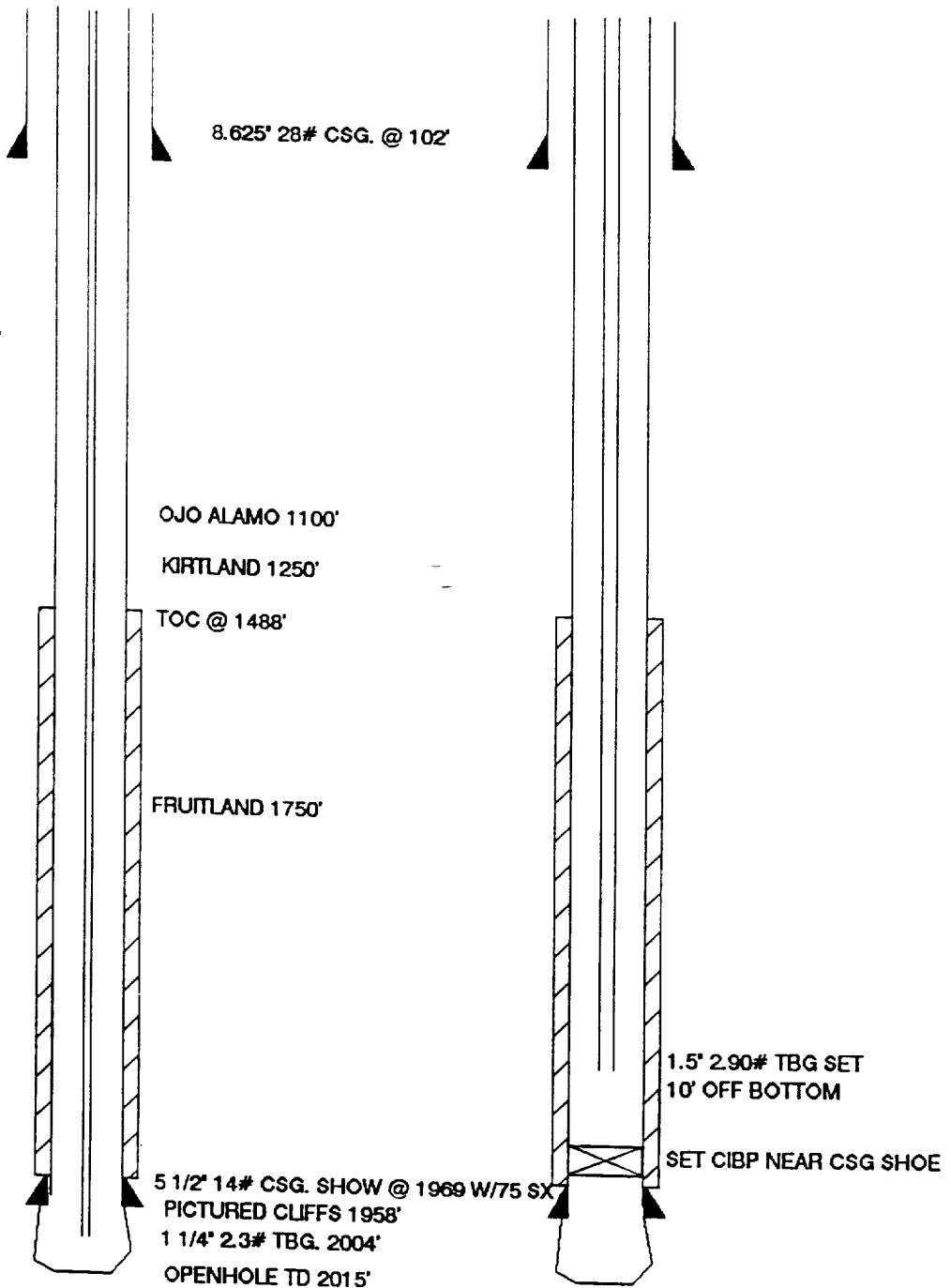
1. Check location anchors.
2. MOL and rig up daylight pulling unit with rig pump and blow tank.
3. Kill PC with water as needed. ND wellhead. NU BOP. TOOH with 1" tubing.
4. Run CNL-GR-CCL. Set cast iron bridge plug at 1964'.
5. Pressure test casing to 3000 psi for 15 minutes.
6. Perforate the Fruitland 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 1 1/2" 2.3# EUE tubing with pump out plug on bottom and common pump seating nipple one joint off bottom. Land tubing at 1944'. Nipple down BOP. Nipple up wellhead.

# HUERFANO UNIT NP#23

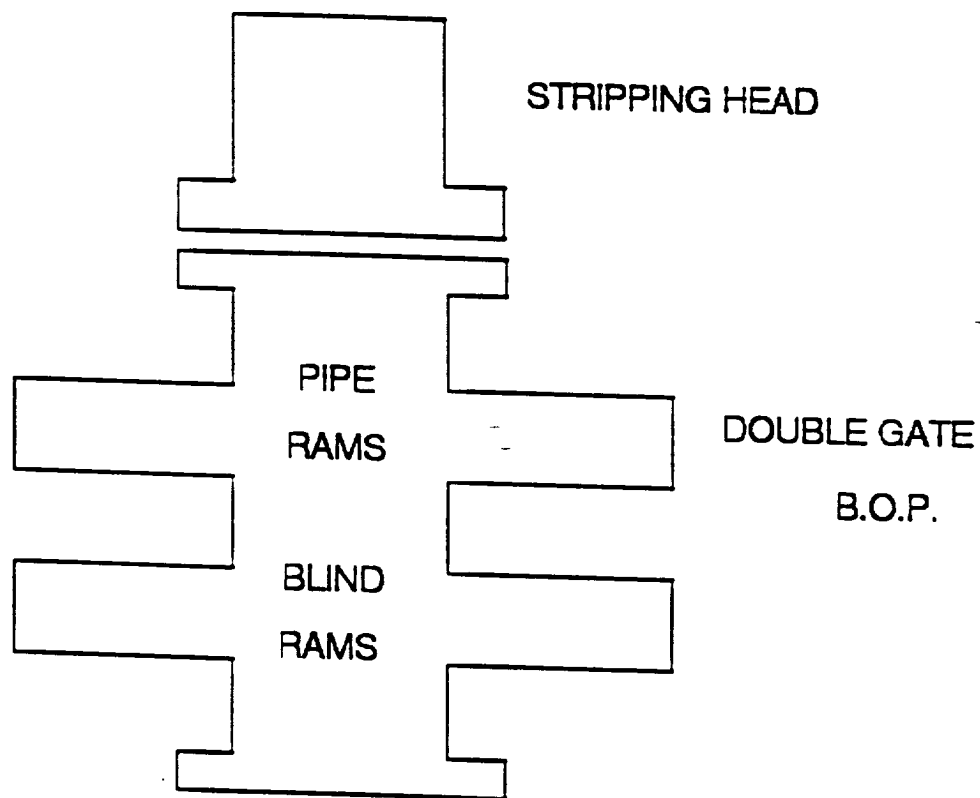
## WELLBORE DIAGRAMS

BEFORE R/C

AFTER R/C



# 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



5 1/2" - 3800

FB - 3750'

TD - 3800