

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

1b. TYPE OF WELL  
GAS

5. LEASE NUMBER  
SF-078716-A

6. IF INDIAN, ALL. OR TRIBE NAME

2. OPERATOR  
MERIDIAN OIL INC.

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  
HUBBELL

9. WELL NO.  
1R

4. LOCATION OF WELL  
1840' FSL; 1840' FWL

**RECEIVED**  
MAR 26 1990  
OIL CON. DIV.  
DIST. 3

10. FIELD, POOL, OR WILDCAT  
BASIN FRUITLAND COAL  
11. SEC. T. R. M OR BLK.  
SEC. 7, T29N, R10W

14. DISTANCE IN MILES FROM NEAREST TOWN

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

302.24

18. DISTANCE FROM  
PROPOSED LOCATION  
TO NEAREST WELL DR.  
COMPL., OR APPLIED  
FOR ON THIS LEASE.

19. PROPOSED DEPTH

20. ROTARY OR CABLE T

21. ELEVATIONS (DF, FT, GR, ETC.)  
5692' GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

\*SEE OPERATIONS PLAN

24. AUTHORIZED BY: Regan Bradfield (JBK)  
REGULATORY AFFAIRS

3-15-90  
DATE

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

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

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3.

Approved  
John S. Keller  
Chief, Branch of  
Mineral Resources  
Farmington Resource Area

NMOCD

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-102  
Revised 1-1-89

COMPL. BY 2:30

RECEIVED

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 Meridian Oil Inc.			Lease Hubbell (SF-078716A)		Well No. 1R
Unit Letter K	Section 7	Township 29N	Range 10W	County San Juan	
Actual Footage Location of Well: 1840 feet from the South line and 1840 feet from the West line					
Ground level Elev. 5692' GL		Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 302.24 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or ballpoint 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.

Note: not resurveyed  
taken from survey by  
David O. Vilven  
7-14-69

RECEIVED

MAR 26 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.

Signature *Peggy Bradfield*

Printed Name  
Peggy Bradfield

Position  
Regulatory Affairs

Company  
Meridian Oil Inc.

Date  
3-15-90

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.

Date Surveyed  
Neal C. Edwards

Signature of Seal of Professional Surveyor

REGISTERED LAND SURVEYOR

Certificate No.

6857

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

**Recompletion Procedure  
Hubbell #1R**

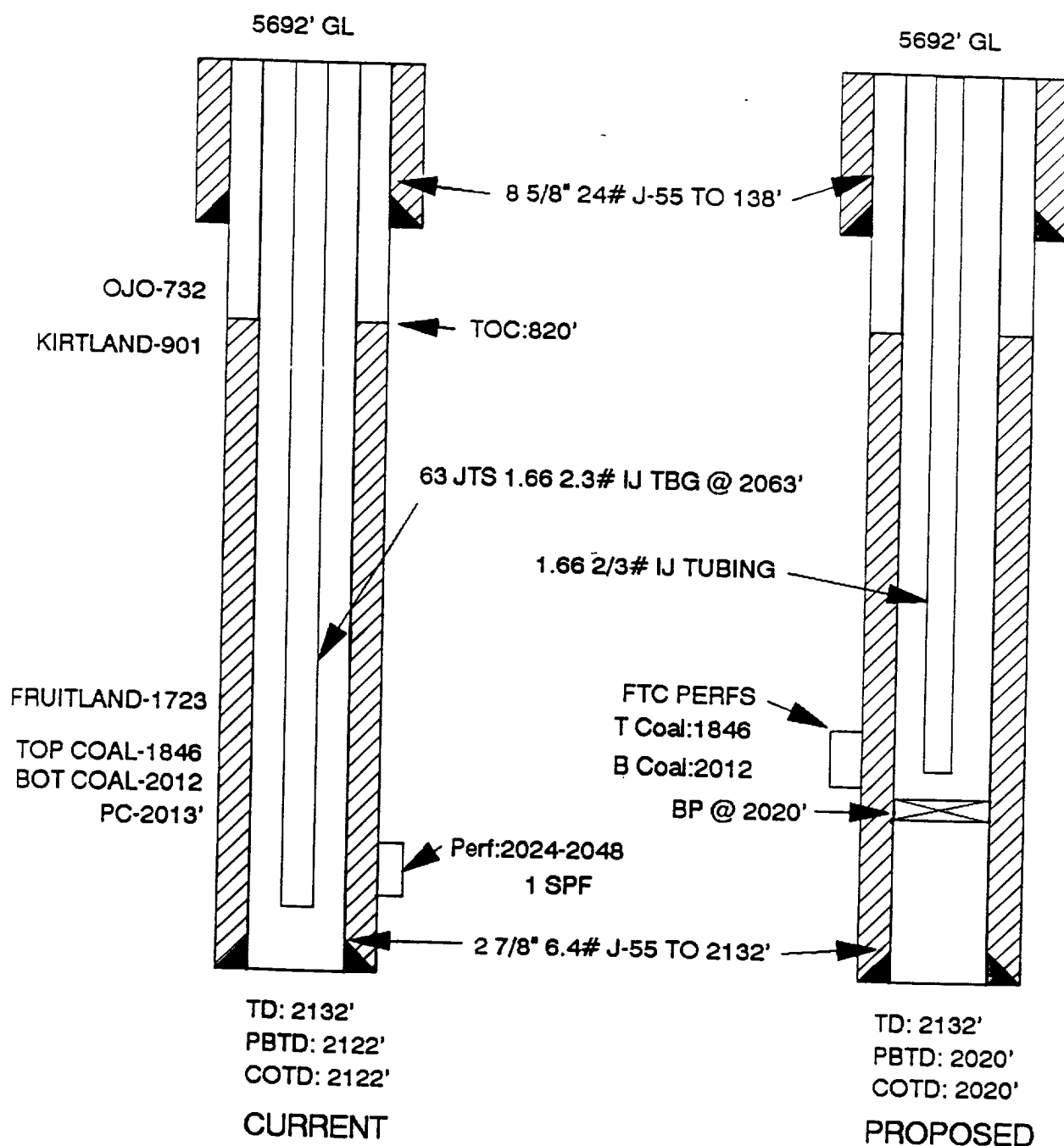
1. Prepare location for workover. Inspect location anchors and install or replace as necessary.
2. MIRU. Hold safety meeting and place safety and fire equipment in strategic locations.
3. Rig up blow lines, record tubing and casing pressures. Kill well with water as needed. ND tree NU BOP.
4. TOOH and laydown tubing with 63 jts 1.66" 2.3# IJ tubing. Inspect tubing and replace as necessary.
5. PU 1 13/16" drill string and run 2 7/8" casing scraper. CO to top of perforations at 2024'. TOOH.
6. ND BOP. Install 5000# frac valve on top of the 2 3/8" casing. RU wireline and set 2 3/8" drillable BP at 2020'. Pressure test casing to 3000 psi for 15 minutes. If casing fails a P&A procedure will be provided.
7. Run GR-CCL-CNL. Pick perforations from log (Projected zones: 1846-47', 1850-54', 1873-74', 1880-81', 1891-92', 1914-16', 1931-33', 1999-2006', 2011-12').
8. Perforate using strip charges 2 shots per foot (estimated 40 shots).
9. TIH with 1 13/16" drill pipe, 2 3/8" packer and RBP. Breakdown perforations with 7 1/2% HCl distributed equally throughout the coal. TOOH.
10. TIH hole and swab well bore dry. Check for gas flow. Evaluate well overnight. Check well for buildup pressure and gas flow. If well produces economically proceed to step 13.
11. RU treatment company. Hold safety meeting. Pressure test surface lines to 4000 psi. Fracture stimulate the well.
12. Immediately upon completion of frac treatment flow well back.
13. TIH w/ 1.66 2.3# IJ tubing and clean hole to PBTD.
14. After clean out set tubing one joint off bottom. Swab well in. Record final guages. ND BOP. NU tree. Rig down and release rig.
15. SI for pressure build up. Obtain water and gas sample for analysis.

**RECEIVED**

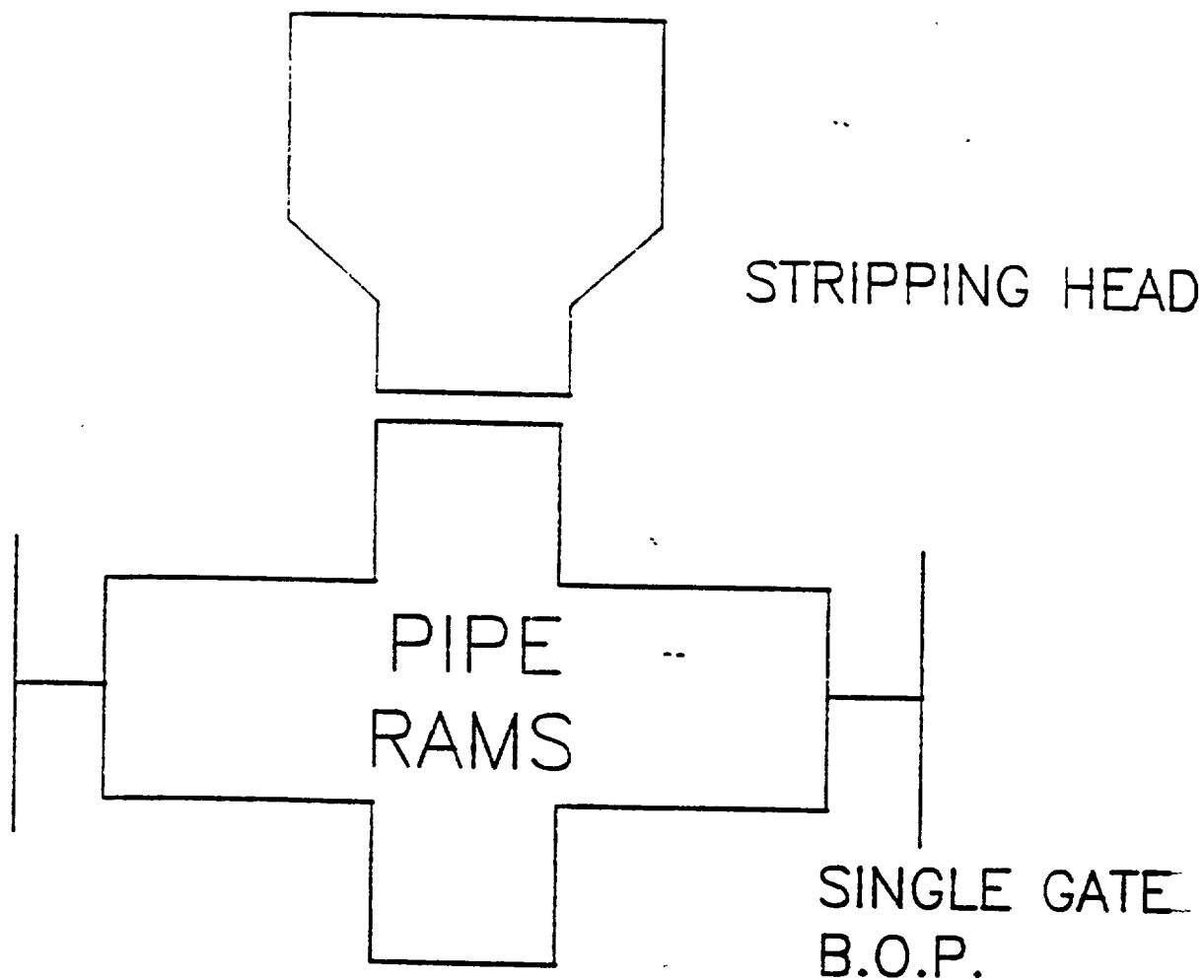
MAR 26 1990

**OIL CON. DIV  
DIST. 3**

# HUBBELL #1R WELLBORE DIAGRAM FRUITLAND COAL RECOMPLETION



# WORKOVER / RECOMPLETION B. O. P. SCHEMATIC



MINIMUM: 2 7/8" 1500 PSI SINGLE GATE B.O.P.

MAXIMUM ANTICIPATED SHUT-IN WELLHEAD  
PRESSURE IS LESS THAN 1500 PSI