

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK: 26

RECEIVED

SEP 12 1991

OIL CON. DIV.

DIST. 3

1a. TYPE OF WORK
PLUG BACK

1b. TYPE OF WELL
GAS

5. LEASE NUMBER
USA-NM-012736

6. IF INDIAN, ALL. OR TRIBE NAME

2. OPERATOR
MERIDIAN OIL INC.

7. UNIT AGREEMENT NAME
HUERFANO UNIT

3. ADDRESS & PHONE NO. OF OPERATOR
P.O. BOX 4289
FARMINGTON, NM 87499
(505) 326-9700

8. FARM OR LEASE NAME

9. WELL NO.
#138

4. LOCATION OF WELL
800' FNL; 800' FWL

10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL

11. SEC. T. R. M OR BLK.
Section 22, T26N, R09W

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 WELL

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.)
6368'

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

24. AUTHORIZED BY: Regan Hallfield (SHL)
REGULATORY AFFAIRS

7-25-91
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

AUG 29 1991

AREA MANAGER
FARMINGTON RESOURCE AREA

NMOCD

GALLUP PLUG AND ABANDONMENT
HUERFANO UNIT #138

****NO WORK IS TO BE PERFORMED OR EQUIPMENT TO BE LOCATED OFF APPROVED WELL PAD****

1. MOL and RU. ND wellhead. NU BOP. Load hole with water.
2. Sting out of retainer at 5626'. Circulate hole. Spot 26 sx Class B neat cement (31 cf, 50% excess to cover 50' above the top of the Gallup) from 5626' to 5399'. Pull up to 5399' and circulate the casing with 86 bbls of 9.0 PPG mud with a minimum viscosity of 50 sec/qt. TOOH with 2-3/8" 4.7# J-55 tubing. Tag cement top with wireline after 4 hours.
3. Perforate 4 squeeze holes at 3560'. Establish a rate into the perforations with water. Set a 4-1/2" cement retainer at 3460'. TIH with 2-3/8" tubing and sting into test position in cement retainer. Pressure test tubing to 1000 psi. Release pressure. Squeeze below retainer with 50 sx of Class B neat cement (59 cf, 100% excess to cover 50' above the top of the Cliff House). Sting out of cement retainer and spot 6 sx Class B neat cement on top of cement retainer (7cf, 81' in 4-1/2" casing). TOOH.
6. Proceed with Fruitland recompletion.

Vendors

Wireline and Retainer: Petro
Cement: DS

Approve: _____

R. F. Headrick

RECOMPLETION PROCEDURE
HUERFANO UNIT #138

****NO WORK IS TO BE PERFORMED OR EQUIPMENT TO BE LOCATED OFF APPROVED WELL PAD****

1. Load hole with water. NU low pressure packoff.
2. Run GR-CCL-CNL from 1980'-980'. Pick perforations from log. TIH with 4-1/2" cement retainer and set at 1980'. TOOH.
3. Pressure test casing to 1000 psi for 15 minutes. If casing fails, isolate casing leak(s) with a test packer. A squeeze procedure will be provided if the casing has not been compromised beyond repair.
4. Perforate using 3-1/8" HSC guns with 16 gram GOEX HSC XVI (or equivalent) charges. Shoot 2 SPF for an estimated total of 40 holes.

Projected zones: To be selected from CNL log run.

5. TIH with 4-1/2" isolation tool with a 2' spacer and straddle each set of perforations. Wash perforations using 10 gallons of 15% HCl acid (mixed with 5% xylene mutual solvent) per foot of perforations and a quaternary amine-type clay stabilizer at 3gal/1000gal. Pump at a rate of 1/2 BPM. TOOH.
6. TIH with 2-3/8" tubing and swab wellbore dry. Check well for gas flow. Evaluate well overnight. Check well for buildup pressure and gas flow.
7. TIH with 2-3/8" tubing and clean out to 1980'.
8. Land 2-3/8" 4.7# EUE tubing with an expendable check on bottom, and a common pump seating nipple one joint off bottom. Land tubing 10 feet above bottom perforation. Swab well in. Record final 30, 45, and 60 minute gauges on morning report. ND BOP. NU tree. RD and release rig.
9. Evaluate well's performance for possible fracture stimulation. A fracture stimulation procedure will be provided if necessary.

Vendors

Wireline and Perforating: Petro
Perf. Breakdown: DS

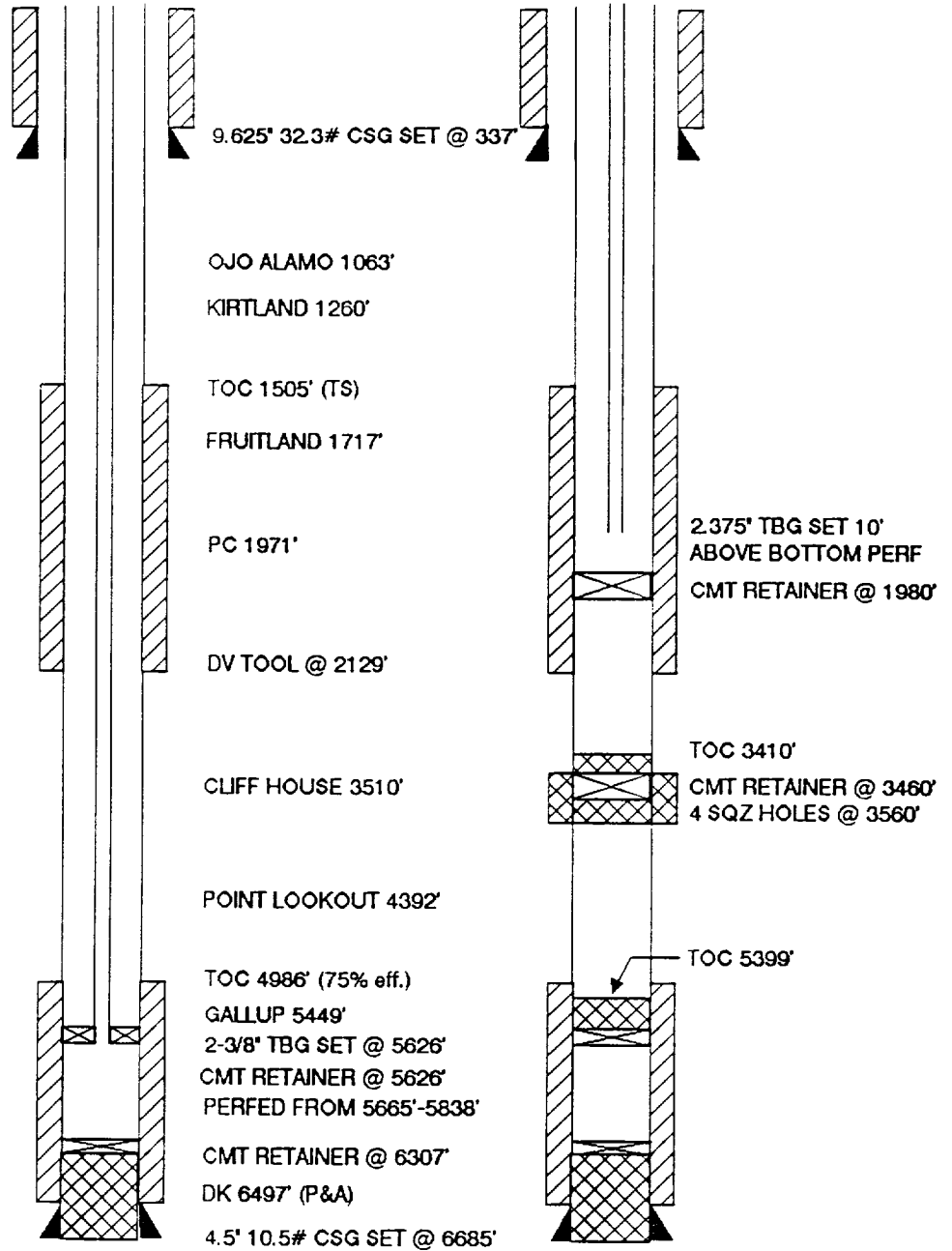
Approve: _____
R. F. Headrick

HUERFANO UNIT #138

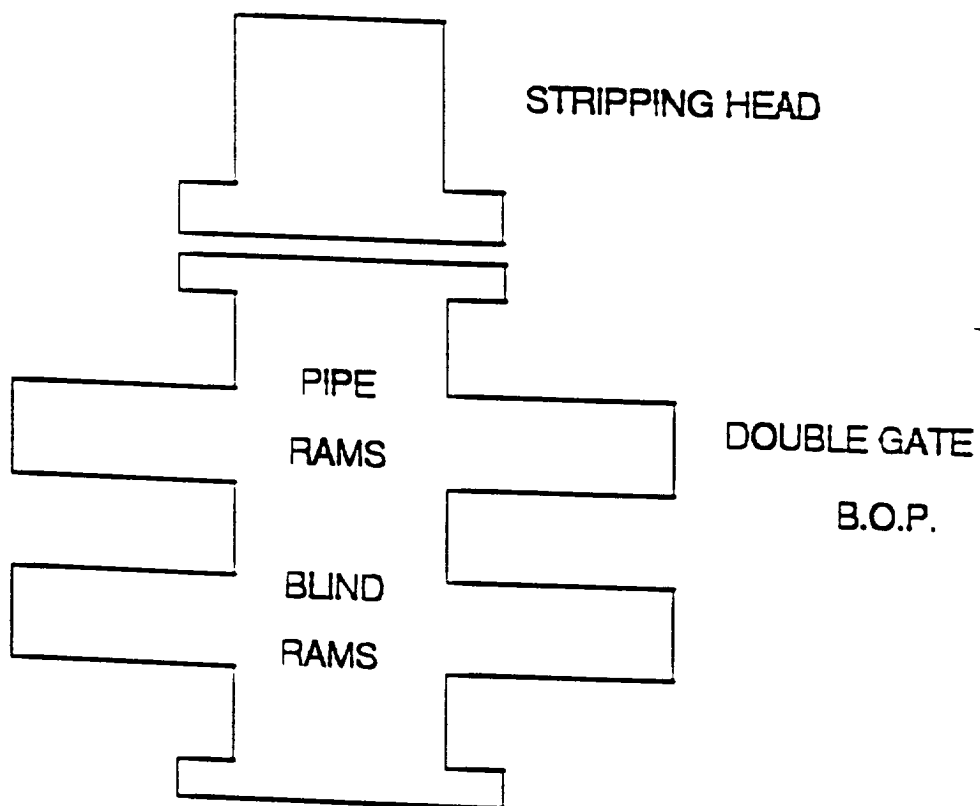
WELLBORE DIAGRAMS

BEFORE W/O

AFTER W/O



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