

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 5-331-C for such proposals.)

1. oil well ☐ gas well ☒ other2. NAME OF OPERATOR
Mitchell Energy Corporation3. ADDRESS OF OPERATOR Suite 3200
1670 Broadway Denver, Colorado 802024. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 790' FNL and 1730' FWL (NENW)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☒
ABANDON* ☐
(other) Protection of Ojo Alamo Formation

SUBSEQUENT REPORT OF:

RECEIVED
FEB 14 1983
GRAND JUNCTION, CO

(NOTE: Report results of multiple completion or zone change on Form 5-330.)

FEB 23 1983

OIL CON. DIV.

DIST. 3

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The aforementioned well was drilled in 1981 and an unsuccessful completion was attempted in the Dakota formation in July, 1982. At that time, the Otis Sliding Sleeve (see attached wellbore diagram) was opened and an attempt was made to attain circulation. 50 barrels of water were pumped down the casing with no pressure increase. Pumping down the backside was equally unsuccessful with a loss of 80 barrels with no pressure increase (hole was full before pumping, both times). In an effort to establish a cover across the Ojo Alamo, 2 shots will be placed 50' below the Ojo Alamo @ 3000' and circulation established. 150 ft³ of cement will be placed in csg- formation annulus, covering, and protecting the Ojo Alamo formation. If circulation can't be established at this point, the perms will be squeezed with cement. Two holes will be placed 50 ft. above the Ojo Alamo @ 2700' and squeezed with cement. This way, an effective plug will exist across the Ojo Alamo (discussed with John Keller of MMS-Farmington, N.M. on 2/7/83). The proposed procedure is as follows:

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL IF ANY:

TITLE

DATE

NMOCC

*See Instructions on Reverse Side

JAMES F. SIMS
DISTRICT ENGINEER

DOWNHOLE DIAGRAM & DIMENSIONS

RECEIVED

FEB 17 1983

U. S. GEOLOGICAL SURVEY
WASHINGTON, D. C. 20506

WELL: Rosa #83

LOCATION: Section 15-T31N-R4W

COUNTY, STATE: Rio Arriba, New Mexico

DATE: February 8, 1983

Co. SUPERVISOR Dick Pate

GROUND 6655' GL

KB = 13'

SURFACE
CASING: 366' Ft.
SIZE: 10-3/4"
WT: 40.5#
GRADE: K-55

Cmt'd. w/350 sx Class
"B"

Otis S.S.
@ 3781'

TUBING DATA	
SIZE	2-3/8"
WT.	4.7 #
GRADE	J-55
THDS.	EUE

SUCKER RODS		
DIA.	No.	FEET
TOTAL		

PRODUCTION 8453
CASING: 8453 Ft.
SIZE: 4-1/2"
WT: 11.6#
GRADE: K-55 & N-80

Cemented:
1st stage: 225 sx 50/50
poz.
2nd stage: 330 sx 50/50
poz.

LINER: Ft.
SIZE:
WT:
GRADE:
(IF NONE: SO STATE)

DV tool @
6598'

Proposed
CIBP @
8200' w/
2 sx. cmt.

TOP
PERF: 8276'

BOTTOM
PERF: 8348'

PBTD: 8405'

TD: 8455'

Tools & String Make-up

ITEM	FEET	JOINTS	MAKE	MODEL
KB.				
TBG.				
TOTAL				

Sundry Notice for Rosa #83 Con't
Re: Protection of Ojo Alamo Formation

PROCEDURE:

Due to frac'ing down casing, having perfs squeezed is an extremely sensitive problem as these perfs could be opened during the frac treatment. Therefore, the well will be completed in the Gallup Formation first and then the remedial work will follow.

- (1) Plug off existing Dakota perfs (@ 8276'-8348' O.A. and testing wet) by setting a CIBP @ 8200' and spotting 2 sx of cement on top.
- (2) Complete in the Gallup Formation by perfing and fracing the interval 7250'-7700' O.A.
- (3) Test well for flow rates. RIH w/wireline-set packer w/knock-out plug to isolate Gallup. Set at 7200'. +/-
- (4) RIH w/3-1/8" casing gun. Shoot 2 holes (180° phasing) @ 3000' (Ojo Alamo 2750'-2950').
- (5) Try to establish circulation. Do not exceed 1200 psig. If circulation is established, place 150 ft³ cement in the annulus across the Ojo Alamo.
- (6) If circulation can't be established, TIH w/tubing and packer. Set packer @ 2800'. Squeeze the perfs w/20 ft³ of cement.
- (7) Drill out cement. Test squeeze to 2000 psig.
- (8) RIH w/3-1/8" casing gun. Shoot 2 holes (180° phasing) @ 2700'.
- (9) TIH w/tubing and packer. Set packer @ 2500'. Squeeze the perfs w/20 ft³ of cement.
- (10) Drill out cement. Test squeeze to 2000 psig.
- (11) RIH w/tubing. Land tubing in packer. Put on production.