

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator
MERIDIAN OIL

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
850'FNL, 990'FWL Sec.17, T-25-N, R-6-W, NMPM

5. Lease Number
SF-078882

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Canyon Largo U #144
9. API Well No.

10. Field and Pool
Devils Fork Gl Ext
11. County and State
Rio Arriba Co, NM

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

Type of Submission

Type of Action

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☒ Recompletion

☐ New Construction

☐ Final Abandonment

☒ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☐ Other -

13. Describe Proposed or Completed Operations

It is intended to plug the Gallup formation in this wellbore and
recomplete in the Pictured Cliffs per the attached wellbore
diagram and procedure.

SEP 13 1993

OIL CON. DIV.
DIST. 3

SEP 13 1993
DIST. 3

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

Signed [Signature] (TEM) Title Regulatory Affairs Date 9/6/93

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

APPROVED

SEP 10 1993

DISTRICT MANAGER

NMOCD

**Canyon Largo Unit # 144
Pictured Cliffs Completion Procedure
Gallup Plug & Abandonment
T25NR06WSec17D**

Prior to Moving on Location. Comply with all BLM, NMOCD, & MOI rules and regulations. Dig Reserve & Blow Pit. Fence Pits. Install & Test Rig Anchors. Always Hold Safety Meetings!

1. Operations! w/ pulling unit, blow down. Unseat pump. TOOH & LD pump & rods. RD move off.
2. Move In Workover Rig. RU. Blow down well. ND WH. NU BOP. Test rams. TOOH w/ tubing, visually inspect, rabbit, & tally. PU 4-1/2" casing scraper & TIH on 2-3/8" to 6200'. TOOH. PU 4-1/2" cement retainer, TIH on 2-3/8" & set retainer @ 6175' (50' above top perforation). Test tubing to 3500 psi. Test casing to 800 psi. **NOTE 1500 PSI is the Maximum Pressure the Casing has Held from Prior Workover Squeeze.**
3. **PLUG # 1.** Establish and record rate & pressure below retainer. Pump 80 sxs Class B Neat 15.6 ppg cement (100% Excess) down tubing below retainer. Max Squeeze Pressure is 1500 psi (Accounts for collapse & hydrostatic). Unsting from retainer & place 12 sxs Class B Neat 15.6 ppg cement (50% Excess) inside pipe on top of retainer. This plug will place cement coverage from 6072' to 6706' inside & outside pipe across the producing interval and 50' above the Gallup Formation Top. Pull tubing to 6072'. **NOTE:** Bond Log run 11-17-84 demonstrates cement top outside pipe to be 5998'.
4. Reverse circulate & fill hole @ 6072' with 15# sodium bentonite w/non-fermenting polymer, 8.4 ppg weight, & minimum 40 cp visc MUD. Volume required is approximately 100 bbls. TOOH w/ stinger/setting tool. MUD is placed inside pipe from 6072' to 4460'.
5. RU wireline. Perforate four (4)- 0.38" squeeze holes @ 4460'. Establish rate down casing. Max pressure 800 psi. Perforate two (2)- 0.38" squeeze holes @ 4340' (50' above Mesaverde top). Establish rate once again. Max pressure 800 psi.
6. PU 4-1/2" cement retainer, TIH on 2-3/8" tubing. Set retainer @ 4400'. Test tubing to 3500 psi. Establish and record rate and pressure down annulus. Max pressure 800 psi.
7. **PLUG # 2.** Establish rate down tubing and below retainer. Record rate & pressure below retainer as well as monitor returns at surface. Pump 103 sxs Class B Neat 15.6 ppg cement (200% Excess) down tubing below retainer. Unsting from retainer & place 7 sxs Class B Neat 15.6 ppg cement (50% Excess) inside pipe on top of retainer. This plug will place cement coverage from 4340' to 4460' inside & outside pipe across the Mesaverde formation and 50' above the Mesaverde Formation Top. Max squeeze pressure below retainer will be 1500 psi. **NOTE:** Bond Log run 11-17-84 demonstrates 2nd stage cement top outside pipe to be at 4870'.
8. Pull tubing to 4300'. Reverse circulate cement w/ 15# sodium bentonite w/non-fermenting polymer, 8.4 ppg weight, & minimum 40 cp visc MUD until returns are clean, approximately 17 bbls. MUD is already in hole from prior filling of hole. TOOH w/ stinger/setting tool. MUD is placed inside pipe from 4340' to 2950'.
9. RU wireline. Perforate four (4)- 0.38" squeeze holes @ 2950'. Establish rate down casing. Max pressure 800 psi. Perforate two (2)- 0.38" squeeze holes @ 2824' **NOTE:** Correlate this set of perforations with Bond Log run 11-17-84, Stage Tool @ 2800'.
10. PU 4-1/2" cement retainer, TIH on 2-3/8" tubing. Set retainer @ 2900'. Test tubing to 3500 psi. Establish and record rate and pressure down annulus. Max pressure 800 psi.

11. PLUG # 3. Establish rate down tubing and below retainer. Record rate & pressure below retainer as well as monitor returns at surface. Pump 73 sxs Class B Neat 15.6 ppg cement (100% Excess) down tubing below retainer. Unsting from retainer & place 12 sxs Class B Neat 15.6 ppg cement inside pipe on top of retainer. This plug will place cement coverage below & across the prospective Pictured Cliffs Interval for stimulation. Max squeeze pressure below retainer will be 1500 psi.
12. Pull tubing to 2750' & reverse circulate cement with 2% KCl water. TOOH w/ stinger/setting tool.
13. RU wireline. Perforate Two (2)- 0.38" squeeze holes @ 2120' (Above top of cement from temperature survey). Establish rate down casing. Max pressure 800 psi. Perforate two (2)- 0.38" squeeze holes @ 1950'. NOTE: Top of Cement for this interval was NOT recorded on bond log run 11-17-84.
14. PU 4-1/2" cement retainer, TIH on 2-3/8" tubing. Set retainer @ 2100'. Test tubing to 3500 psi. Establish and record rate and pressure down annulus. Max pressure 800 psi.
15. PLUG # 4. Establish rate down tubing and below retainer. Record rate & pressure below retainer as well as monitor returns at surface. Pump 90 sxs Class B Neat 15.6 ppg cement w/ 2% CaCl accelerator (100% Excess) down tubing below retainer. Unsting from retainer & place 5 sxs Class B 15.6 ppg cement w/ 2% CaCl inside pipe on top of retainer. This plug will place cement coverage across the Ojo Alamo Interval. Max squeeze pressure below retainer will be 2000 psi.
16. Pull tubing to 1800' & reverse circulate cement w/ 2% KCl water. TOOH & LD stinger/setting tool. Pressure up and place 800 psi on casing.
17. WOC 12 hrs minimum.
18. PU 3-7/8" bit, four (4) 3-1/8" drill collars & TIH on 2-3/8". Drill out cement with water to 2100' (to retainer). Pressure Test holes to 800 psi. Hold & record pressure on a chart for 15 minutes. Drill out retainer & cement to 2750'. Pressure Test holes to 800 psi. Hold & record pressure on a chart for 15 minutes. Drill out cement to top of next retainer @ 2900'. Circulate hole clean with 2% KCl water. TOOH w/ bit & assembly.
19. PU 4-1/2" casing scraper. TIH w/ scraper to 2900'. Clean casing and tag any fill. TOOH w/ scraper. Scraper run to prevent cement falling & sticking gun or packer in next steps.
20. RU wireline. Correlate with Blue Jet Bond Log run 11-17-84 & attached Open hole log copy.
NOTE: Depth Shift!! Prepare to perforate Pictured Cliffs Interval with 2 SPF (0.38" holes Owen 3125-305 16 gr charge) w/ 3-1/8" HSC gun bottom-up under packoff as follows:

2855' to 2860'	(5' interval	10 holes)
2822' to 2842'	(20' interval	40 holes)
		Total Holes: 50
21. PU full bore PKR, PU & TIH on 2-7/8" 8.7# N-80 buttress tubing to 2750'. Set PKR @ 2750'. Test annulus to 500 psi and hold during acid breakdown with rig pump. Bring Buttress Changeover!!
22. Pressure Test surface lines to 4000 psi. Establish rate w/ 2% KCl water. SD. Record Pressure. Reestablish rate and pump 1000 gallons 15% HCl acid w/ 2 gal/1000 inhibitor & 1 gal/1000 surfactant-siltsuspender. Pump acid @ 2 BPM and drop 100- 7/8" 1.1 spgr ball sealers in 10 sets of 10. After acid displace and ball off perforations to 3500 psi at 4 to 8 BPM. SD and release pressure to let balls fall to bottom. Unseat PKR and TIH to 2870'. Pull up and reset PKR @ 2750'.

Canyon Largo Unit # 144
PC Procedure

23. Rig up Foam Stimulation Equipment. Pressure Test Surface Lines to 5000 psi, w/ 5000 psi valve on top of tubing. Stimulate the Pictured Cliffs Interval with 70 Quality Nitrogen Foam and 20# Linear Gel @ 25 BPM with 50,000# 10/20 Brady Sand. Flush w/ Nitrogen. SD & monitor pressure for 15 minutes. Rig Down Stimulation Equipment. Shut-Well in for minimum of Five (5) hrs for Fracture to heal.
24. Record Pressure prior to opening well for flow back. Flow well through choke manifold limiting fluid production to 20 bbls per hour. Obtain SI prior to releasing PKR. When prudent, release & TOOH w/ PKR & LD 2-7/8" tubing. NOTE: Max Pressure on Squeezes is only 800 psi.
25. Prepare to run production tubing string as follows. One jt 2-3/8" tubing, one expendable check ("F" nipple), & remaining 2-3/8" tubing. Clean well out to bottom. Pull above perforations for 1 hour and gauge well, clean out to PBTD, and repeat until fill is minimized. Land tubing @ 2850'. ND BOP, NU WH. Pump off expendable check and flow well up tubing to verify check pumped.
26. RD & release rig. Notify Production Operations so that bottom hole pressure bombs can be run and deliverability test performed.

Approved: _____

Drilling Superintendent

Suggested Vendors:

Cement	Western	327-6222
Stimulation	Western	327-6222
Perforating	Petro Wireline	326-6669
Retainers, PKR	Howco	325-3575
Engineering	T. E. Mullins	326-9546-W
		325-9361-H
Operations	L. L. Byars	326-9865-W

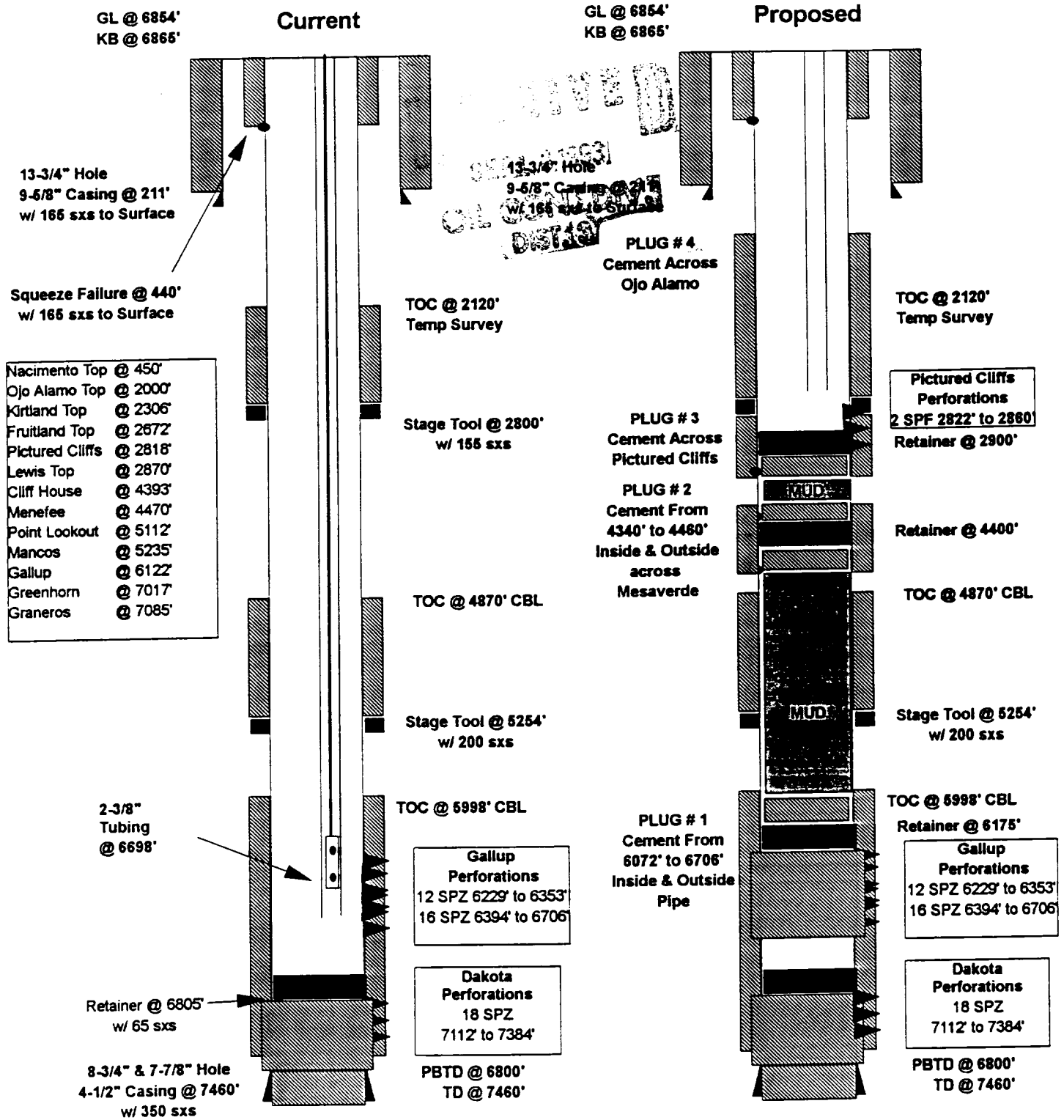
REC

Canyon Largo Unit # 144

T25NR06W17D

Plug Gallup & Stimulate

Pictured Cliffs



Not Drawn to Scale.