

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well GAS	5. Lease Number SF-078882
2. Name of Operator MERIDIAN OIL	6. If Indian, All. or Tribe Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	7. Unit Agreement Name Canyon Largo Unit
4. Location of Well, Footage, Sec., T, R, M 1700'FSL, 1840'FEL Sec.20, T-25-N, R-6-W, NMPM	8. Well Name & Number Canyon Largo U NP #187
	9. API Well No.
	10. Field and Pool Basin Dakota
	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
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other - pay add
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injection

13. Describe Proposed or Completed Operations

The casing failure in this well will be repaired per the attached procedure and wellbore diagram. Additional Dakota pay will be completed also.

RECEIVED

SEP 17 1993

OIL CON. DIV
DIST. 3

070 EXAMINATION, NM

03 SEP -8 PM 1:43

RECEIVED
BLM

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

Date

SEP 18 1993

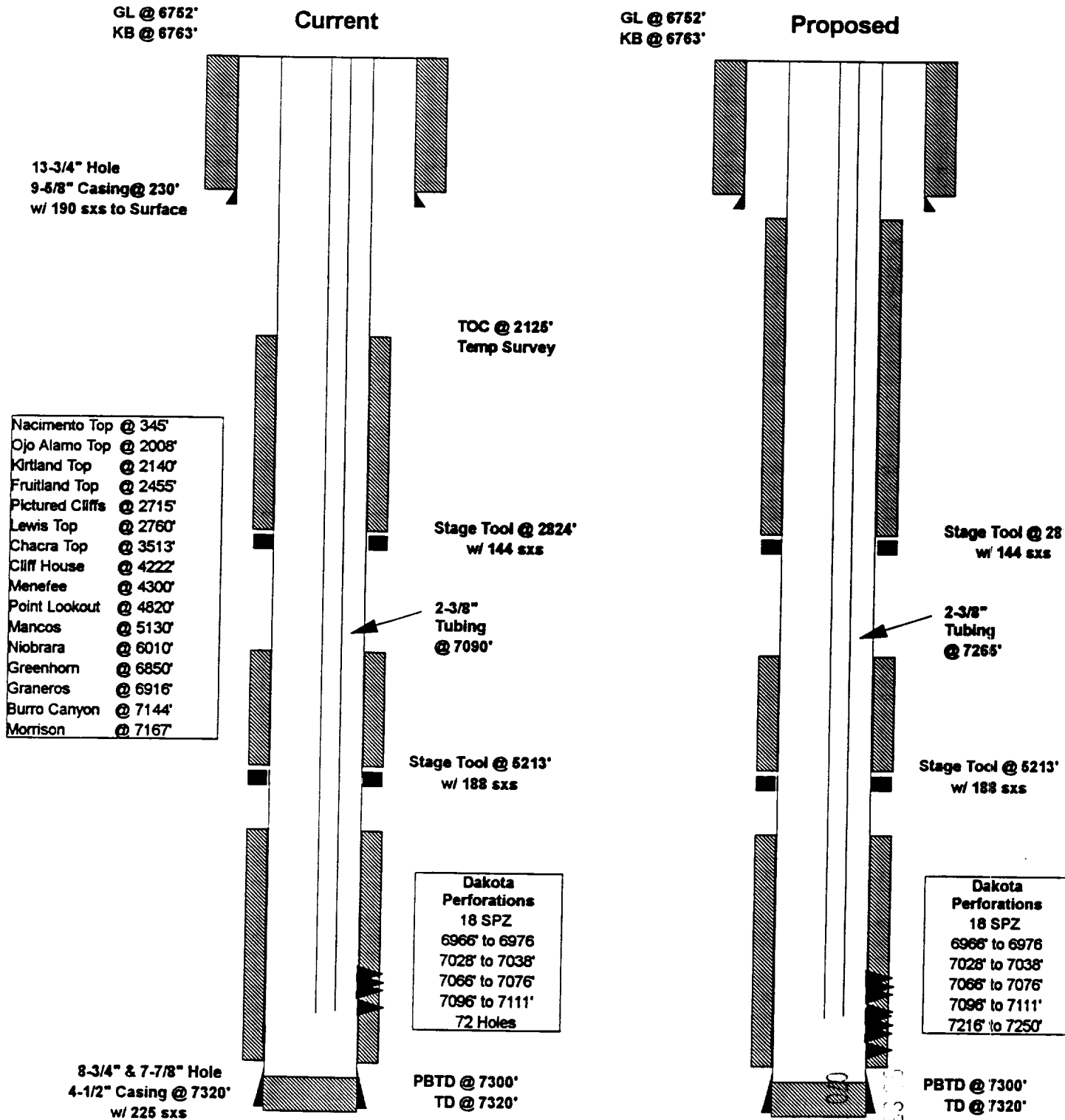
DISTRICT MANAGER

NMOCD

Canyon Largo Unit NP # 187

T25NR06W20J

Pay Add & Stimulation
Dakota



Canyon Largo Unit NP # 187
Unit J, Section 20, T25N, R06W
Basin Dakota Pay Add & Casing Repair

Prior to moving on location. Verify correct well. Install & Test rig anchors. Complete all necessary dirt work. Inspect Wellhead and identify any rig up concerns. **Always Hold Safety Meetings!** Comply with all BLM, NMOCD, & MOI rules and regulations. *Well Has Indications of Casing Failure.*

1. Move on Location. RU. Obtain & record pressures prior to blowing down casing & tubing. ND WH. NU BOP & stripping head. Lay all lines. Test operation of BOP. TOOH with 2-3/8" tubing (228 jts) from 7090'. Rabbit, tally, and visually inspect tubing. Replace any bad jts.
2. PU 3-7/8" bit, float, & TIH w/2-3/8" clean out to 7300' with air. TOOH.
3. RU wireline. PU & run 4-1/2" gage ring to PBTD. Note that casing failure is suspected. POOH. Run 4-1/2" CIBP on wireline. Set CIBP @ 6900'. POOH.
4. PU 4-1/2" full bore PKR & TIH to CIBP. Circulate entire hole to eliminate any gas pockets. Set PKR and Test & Record BP & tubing to 3500 psi for 15min. TOOH w/2-3/8".
5. RU wireline. Run GR-CCL-CBL from BP @ 6900' to surface. Log entire interval due to poor casing. No Gaps. Lower Zone correlate with old McCullough Gamma Log 9-9-72. POOH.
6. PU 4-1/2" full bore PKR & TIH. Pull up below 1st stage tool @ 5213'. Test casing below first stage tool to 2200 psi. Pull up below 2nd stage tool @ 2824'. Test casing below second stage tool to 2200 psi. Continue up hole and identify location of casing failure. Test above and below failure to 2200 psi. Establish rate and record rate and pressure into failure. Open bradenhead and note possible circulation. TOOH with PKR & tubing. Failure suspected in Ojo Alamo.
7. PU 4-1/2" cement retainer & TIH with 2-3/8". Set retainer 50' above casing failure. Pull up, Load annulus, engage retainer, and hold 1000 psi on casing during cementing. Establish rate below retainer. Mix and pump appropriate volume Class 'B' Neat cement at minimal rate and minimal pressure. Max Squeeze pressure will be 2200 psi. Unsting from retainer. Pull up & Reverse out cement. WOC minimum of 8 hrs. TOOH.
8. PU 3-7/8" bit, float, & four 3-1/8" drill collars on 2-3/8" tubing. TIH tag & record depth. Drill out retainer and cement squeeze with water. Pressure Test squeeze to 2200 psi hold & record pressure for 30 minutes minimum. Drill out remaining cement to BP. Drill BP with water. When through plug, switch to air and continue to unload hole and clean out well to bottom. Must be able to reach 7280' with perf gun.
9. Pull up above Top perforation (6966'), to 6900' and blow well with air. Continue to clean well up for minimum of 12 hrs. Let well flow. Gauge well at 15min, 30min, 45min, & 1hr. TIH to PBTD and clean out any fill. Repeat process until fill is minimized.
10. Trip to btm of hole spot 10 bbls 2% KCl from btm. TOOH 2-3/8" & LD bit, float, & collars. This will allow for underbalanced perforating of the Burro Canyon Interval.
11. RU wireline and prepare to perforate Burro Canyon Sandstone underbalanced with Full Lubricator on Wellhead. Correlate with old McCullough Gamma & collar log run 9-9-72. Perforate the following interval with 4 SPF 10 gram Owen 3125-302 charge in one gun run 3-1/8" HSC.

7216' to 7250' (34' of interval), 136 holes

12. Pull out of hole with gun. PU 4-1/2" fullbore PKR, one jt 2-3/8", one profile nipple, and TIH with remaining tubing. Spot acetic acid to end of tubing. Set PKR @ 7170'. Establish rate and breakdown perforations with 2500 gallons 7-1/2% HCl w/ additives. Flow well back immediately. Swab & flow well for minimum of 3 days. Recover load volume + 50% in fluid. Leave well open overnight to pit with Watch each night. Unseat PKR and TOOH.
13. Inspect fullbore. Prepare to run 2-7/8" N-80 Frac String. RU Hydrotester. Change out rams & stripping rubber. Run 4-1/2" fullbore PKR, one jt 2-7/8", Profile Nipple, & hydrotest remaining 2-7/8" N-80 tubing. Set PKR @ 7150'. Leave Annulus open to pit. Pressure Test all Surface Lines to 9000 psi. Maximum Pressure will be 8500 psi. Hydraulically Fracture Stimulate the Burro Canyon Interval with 50,000# 20/40 ISP & 40,000 gallons of 30# X-Link gel @ 20 BPM. Total Pump Time will be 50 mins. Flush with 2% KCl water.
14. Shut down and monitor pressure. SI well for minimum of 6 hrs. Record pressure on tubing. Open well through choke manifold limit fluid production to 20 BPH. Record estimated Volume recovered and flowing pressure every hour on the hour. Release PKR when prudent and TOOH & lay down 2-7/8" tubing.
15. PU 3-7/8" bit & float. TIH and clean out well with air. Clean out to PBTD. Follow by pulling above Burro Canyon Perforations and blow well. Note returns. Again minimize liquid volume returns to 20 BPH. Clean out until rates are dry approx 3-days. Gauge well gas and oil. TOOH w/ 2-3/8"
16. RU wireline. Set CIBP at 7150'. TIH w/ fullbore PKR on 2-3/8". Test CIBP to 2200. Set PKR. Establish rate below PKR and into perforations. SD. Record ISIP. Break down and ball off perforations with 2500 gallons 7-1/2% w/additives and 100 ball sealers. Drop 10 sets of 10 - 7/8" RCN 1.1 spgr ball sealers. Ball off perforations at 4-8 rate to 3500 psi.
17. Release PKR. TOOH. PU bit, float, and TIH w/2-3/8". Blow well and clean up upper Dakota intervals. Obtain gauge. Drill CIBP @ 7150'. Push to BTM of hole. Clean well out until sand production is minimal and TOOH.
18. RU wireline. Run AfterFrac Gamma Ray Log.
19. Run production tubing string as follows: Tapped Bull Plug 2 jts 2-3/8", 6' Perf sub, Expendable check (F-nipple), & remaining 2-3/8". Land tubing @ 7265', Perf Sub @ 7200'. ND BOP. NU WH. Pump out expendable check. Flow well up tubing to verify check has been pumped. Obtain Gauges 15min, 30min, 45min & 1 hr. Shut Well In.
20. RD. Release Rig to next location. Notify Production foreman that rig has left location, and well is ready for pressure analysis & deliverability testing.

Approved:

Drilling Superintendent

Suggested Vendors:

BP, Packers
Cementing
Stimulation
Frac String

Baker Service Tool 325-0216
Western 327-6222
Western 327-6222
Cave Enterprises 325-3401

Engineering
BP, Perforating

T.E. Mullins  326-9546-W
325-9361-H
Basin Perforators 327-5244