

submitted in lieu of Form 3160-5

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-078884
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 1750' FSL, 1625' FWL Sec. 13, T-25-N, R-6-W, NMPM	8. Well Name & Number Canyon Largo U #288
	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	
<input checked="" type="checkbox"/> Notice of Intent	Type of Action
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Recompletion
	<input type="checkbox"/> Plugging Back
	<input checked="" type="checkbox"/> Casing Repair
	<input checked="" type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other -
	<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	

This well is currently producing underneath a packer @ 6750'. 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

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 10 1993

DISTRICT MANAGER

NMOCD

Canyon Largo Unit # 288

T25NR06W13K

Pay Add & Stimulation

Dakota

GL @ 6631'
KB @ 6644'

Current

Proposed

13-3/4" Hole
9-5/8" Casing @ 226'
w/ 190 sxs to Surface

Nacimiento Top	@ 505'
Ojo Alamo Top	@ 2070'
Kirtland Top	@ 2276'
Fruitland Top	@ 2525'
Pictured Cliffs	@ 2655'
Lewis Top	@ 2700'
Chacra Top	@ 3510'
Cliff House	@ 4255'
Menefee	@ 4335'
Point Lookout	@ 4846'
Mancos	@ 5128'
Niobrara	@ 5920'
Greenhorn	@ 6795'
Graneros	@ 6854'
Burro Canyon	@ 7094'

TOC @ 2450'
Temp Survey

2-3/8" Tubing
@ 7011'

Stage Tool @ 5219'
w/ 650 sxs

Dakota Perforations
1 SPF 6918' to 7055'
7 holes

8-3/4" & 7-7/8" Hole
4-1/2" Casing @ 7177'
w/ 189 sxs

PBTD @ 7102'
TD @ 7177'

TOC @ 2450'
Temp Survey

2-3/8" Tubing
@ 7100'

Stage Tool @ 5219'
w/ 650 sxs

Dakota Perforations
1 SPF 6913' to 7055'
4 SPF 7107' to 7131'

PBTD @ 7102'
TD @ 7177'

WELL LOG
CANYON LARGO UNIT # 288
T25NR06W13K
Dakota
10/1/00

Canyon Largo Unit # 288
Unit K, Section 13, 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. Unseat Flopetrol PKR @ 6750' & TOO H with 2-3/8" tubing & PKR (222 jts) from 7011'. Rabbit, tally, and visually inspect tubing. Replace any bad jts.
2. RU wireline. PU & run 4-1/2" gage ring to 7160'(Find PBTD). Tag PBTD and record. Note that casing failure is suspected . POOH.
3. 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. TOO H 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 Blue Jet Gamma Log 8-5-76. POOH.
6. PU 4-1/2" full bore PKR & TIH below stage tool @ 5219'. Test below PKR to 2200 psi. Test above PKR to 2200 psi. Locate failure. Establish rate and record rate and pressure. Open bradenhead and monitor returns if possible. TOO H w/ PKR.
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. TOO H. WOC minimum of 8 hrs.
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 7140' with perf gun.
9. Pull up above Top perforation (6918'), to 6850' 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 mimimized.
10. Trip to btm of hole spot 10 bbls 2% KCl from btm. TOO H 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 Bluejet Gamma & collar log run 8-5-76. Perforate the following interval with 4 SPF - 0.38" holes 10 gram Owen 3125-302 charge in one gun run 3-1/8" HSC.

7107' to 7131' (24' of interval), 88 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 @ 7090'. Establish rate and breakdown perforations with 1000 gallons 7-1/2% HCl w/additives @ 4 BPM. Increase flush to 10 BPM. Shut-in & Monitor Pressure. Record ISIP, 5min, 10min, 15min. Flow well back immediately after 15min. 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" 8.70# N-80 Buttress 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 @ 7090'. Fill annulus w/2% KCl. 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. **NOTE: Bring Buttress Changeover!!**
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 & stand back 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 7090'. TIH w/ fullbore PKR on 2-3/8". Test CIBP to 3500 psi. TOOH.
17. Prepare to perforate Upper Dakota Sandstone underbalanced with Full Lubricator on Wellhead. Correlate with old Bluejet Gamma & collar log run 8-5-76. Perforate the following interval with 3-1/8" HSC gun Select Fire. 1 SPF - 0.28" holes 12 gram Owen 3125-306 charge in one gun run 3-1/8" HSC.

**7053', 7051', 7050', 7037', 7026', 7025', 7011', 7004', 7003', 7001', 6997', 6996', 6995',
6963', 6957', 6925', 6914', 6913' (of interval), 18 holes brings total to 25 holes.**
18. TIH w/ PKR & 2-7/8" N-80 frac string. Set PKR @ 6850'. Put 1000 psi on annulus. Establish rate below PKR and into perforations. SD. Record ISIP. Break down and ball off perforations with 1000 gallons 7-1/2% HCl w/additives and 40 ball sealers. Drop 20 sets of 2 - 7/8" RCN 1.1 spgr ball sealers. Ball off perforations at 2-4 BPM rate to 3500 psi. Increase rate as necessary.
19. Release PKR. TIH knock balls off perforations. Pull up. Reset PKR. Place 1000 psi on annulus and hold. Pressure Test surface lines to 9000 psi. Max pressure will be 8500 psi. Frac Upper Dakota Interval with 50,000# 20/40 Ottawa sand & 52,000 gal 30# linear gel at 25 BPM. Drop 8 - 7/8" RCN 1.1 spgr ball sealers during mid pad volume. Max Pressure will be 8500 psi. Flush volume will be 2% KCl.
20. Shut down and monitor pressure. SI well for minimum of 3 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.
21. PU bit, float, and TIH w/2-3/8". Blow well and clean up upper Dakota intervals. Obtain gauge. Drill CIBP @ 7090'. Push to BTM of hole. Clean well out until sand production is minimal and TOOH.

22. RU wireline. Run AfterFrac Gamma Ray Log.
23. Run production tubing string as follows: Open ended 1 jt 2-3/8", 4' Perf sub, Expendable check (F-nipple), & remaining 2-3/8". Land tubing @ 7100', Perf Sub @ 7070'. 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.
24. 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	Baker Service Tool	325-0216
Cementing	Western	327-6222
Stimulation	Western	327-6222
Radioactive Tagging	Protechnics	326-7133
Wireline, Perforating	Basin Perforators	327-5244
Frac String	Cave Enterprises	325-3401
Engineering	T. E. Mullins	326-9546-W
	<i>IG m</i>	325-9361-H
Production Operations	L. L. Byars	326-9865-W