

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator Meridian Oil Inc.</p> <hr/> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 1675'FSL, 1150'FWL Sec.6, T-24-N, R-6-W, NMPM</p>	<p>5. Lease Number SF-078957 078874</p> <p>6. If Indian, All. or Tribe Name</p> <p>7. Unit Agreement Name Canyon Largo Unit</p> <p>8. Well Name & Number Canyon Largo U #212</p> <p>9. API Well No. 30-039-</p> <p>10. Field and Pool Ballard Pic.Cliffs</p> <p>11. County and State Rio Arriba Co, NM</p>
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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"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input checked="" type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

This well is identified as having a casing leak. The well will be repaired if possible. If not, it will be plugged & abandoned.
(See attached procedure and wellbore diagram)

If abandonment is determined necessary, then an additional 50 sx cement plug will be placed inside and outside pipe from 1040-904'.

RECEIVED

OCT 29 1992

OIL CON. DIV.
DIST. 3

RECEIVED
BLM
OCT 13 PM 3:29
FARMINGTON, N.M.

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

Signed [Signature] (TM) Title Regulatory Affairs Date 10/12/92

APPROVED

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

OCT 22 1992

AREA MANAGER

NMOCD

Procedure for Slimhole Casing Repair
Canyon Largo Unit #212
Pictured Cliffs Producer
T24NR06WSec06L

Requirements:

- 1-1/4" Slimline Drillpipe, 2400', 2.4# N-80, 1.812" OD box, 1-13/16" Slimline connections.
- 2-1/4" workover bit, 3 blade drag bit with A-Rod connection
- Bit Sub with 1R Float, A-Rod box X 1-1/2" EU 10rd pin.
- 2-7/8" Casing Scraper, Baker Model "D" Roto-Vert, 2.188" OD, 1-1/2" EU 10rd connection.
- X-Over 1-1/2" EU 10 rd box X 1-13/16" Homco Slimline box.
- X-Over 1-14" IJ 10 rd pin X 1-13/16" Homco Slimline box.
- 2-7/8" Retrieivable Bridge Plug, Guiberson Uni-Packer VI, 2.344" OD, w/solid mandrel XL On-Off retrieving head.
- 2-7/8" Retrieivable Packer, Guiberson Uni-Packer VI, 2.344" OD/ 0.75" ID, 1-1/4" IJ 10rd connection.
- Profile Nipple for drill string.
- Cement will be Class B with 2% CaCl added in mix water (15.6 ppg, 1.18 ft³/sx, 5.2 gal/sx)
- Maximum Cement Volume for Repair: 403 sxs + 50% = 605 sxs
- Maximum Cement Volume for P&A: 125 sxs + 50% = 188 sxs

Prior to move on, test rig anchors & repair if necessary. Construct reserve & blow pit.
Notify BLM (599-8907) 24 hrs prior to commencing operations.
Comply with all MOI, federal, & state regulations. Always Hold Safety Meetings.

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1. MORU daylight rig. Record Csg & Brdhead pressures. Place fire & safety equipment in appropriate areas. w/ 2-7/8" master valve closed, NU BOP & all lines. Test operation of BOP. Verify working pressure of master valve.
 2. PU 2-1/4" bit, float, & 2-7/8" csg scraper. TIH on 1-1/4" slimline drill pipe to PBTD of 2316'. Note & report fluid level. Circulate w/ air-mist to clean hole. TOOH.
 3. PU 2-7/8" RBP & PKR combination. TIH on 1-1/4" drillpipe. Set RBP @ 2150' (50' above top perforation at 2194'). Release RBP. Pull up to top of next joint. Set packer. Test below packer to 1000 psi for 5 minutes. Close rams and test annulus to 800 psi. Release PKR & pull up one jt. Dump 5 gal sand down 1-1/4" on RBP.
 4. Locate casing failure by testing below packer to 800 psi & annulus to 800 psi using rig pump. Pull uphole. Locate all holes. Establish rate & record pressures into each leak. Note TOC @ 1450' from temperature survey.
 5. Notify Production Engineering of pressure test results. Decision for either abandonment or repair will be made upon condition of the 2-7/8".

REPAIR:

6. If leak is below TOC. Squeeze below packer (set a minimum of 350' above leak). Monitor pressures on brdhead. RU cementers. Establish rate w/ 2% KCl down 1-1/4" drill pipe. Mix & pump 50 sxs Class B cement (w/ 2% CaCl accelerator) depending upon rates & pressure to 800 psi & 1 BPM maximum. Unseat packer & reverse out cement. Pull one stand & reset PKR. Reapply & hold pressure 2 hrs.

If leak is above TOC. TOOH w/ 1-1/4" drillpipe. RU cementers. Establish rate down 2-7/8" csg (circulate to surface if possible). Use Class B cement (w/ 2% CaCl accelerator). Volume to circulate from TOC @ 1450' is 403 sxs (85 bbls). Displace cement to within 300 feet (1.75 barrels) of top failure. Hesitate 15 minute squeezes to 800 psi or 1.5 barrels. Hold final squeeze pressure for 2 hrs. Circulate cement if possible.

Canyon Largo Unit #212
Pictured Cliffs Casing Repair

7. TIH w/ 2-1/4" bit 1-1/4" drillpipe. Drill out top failure. Close rams & test csg to 500 psi maximum. Repeat drill out & test for each failure.
8. If test fails on any interval, resqueeze prior to drilling to next squeeze.
9. Once csg holds 500 psi, TIH w/ csg scraper to RBP. Clean out & circulate sand off RBP. TOOH.
10. TIH w/ retrieving tool on 1-1/4" drill pipe. Unload hole w/ air-mist. Latch on RBP & TOOH.
11. RU wireline. Shoot 10 holes w/1-11/16" gun btm up. 1 SPF 0.36" hole 13 gr. TTP of 6.35" @ 2194', 2195', 2198', 2199', 2234', 2235', 2236', 2237', 2238', 2239', 2240'. Correlate with supplied CCL log.
12. PU 2-1/4" bit, float, & 2-7/8" csg scraper. TIH on 1-1/4" drill pipe. Circulate hole clean to PBTD (2316') and verify removal of sand and fluid. TOOH & LD drill pipe. Gauge gas flow of well.
13. ND BOP & lines. NU wellhead. Release rig and turn well over to Production Operations. Notify EPNG of well status, return well to production.

PLUG & ABANDONMENT: Notify BLM (599-8907) of Abandonment Decision.

6. TOOH w/ RBP & PKR. TIH w/ 1-1/4" drill pipe open-ended to PBTD (2316'). RU cementers. Circulate hole w/ 5 bbls water ahead of all plugs. Spot cement plug & pull up to top of all plugs. Spot cement as follows:

Plug #	Interval:	Length of Plug	Volume	sxs Cement	Excess
1	2316' - 1700**	616'	24.02 ft^3	20.0	20 %
2	1700' - 1000'	700'	27.30 ft^3	23.0	20 %
3	1000' - 250***	750'	29.25 ft^3	24.5	20 %
4	250' - 180'	250'	97.35 ft^3	82.5	50 %
	180' to surf				

*After spotting Plug #1, pull up 500' minimum to 1200'. WOC 2 hrs before tagging next plug and proceeding.

**After spotting Plug #3, pull up to 220' & reverse out until clean. WOC 2 hrs. Tag TOC. Fill hole w/ 9.0 ppg 50 visc mud from top of Plug #3 to 150'. 2-7/8" casing will be filled from PBTD to 500' minimum with cement.

7. TOOH & LD drillpipe. RU wireline & shoot two 1/4" holes @ 180'. RD wireline.
8. Establish rate down 2-7/8" casing and out bradenhead to surface. Plug #4. **Cement will be circulated to surface.** Volume to circulate from 180' is 55 sxs (11.5 bbls). Circulate good cement to surface.
9. Cut off wellhead below bradenhead & install dryhole marker. Release rig.

Approved:

 J. A. Howieson
 Drilling Superintendent



Vendors:

On next page

Canyon Largo Unit #212

T24NR06W06L

Pictured Cliffs Slimhole
Casing Repair or Abandonment

Current

6564' GL
6575' KB

12-1/4" Hole
8-5/8" Casing @ 127'
w/ 90 sxs to Surface

TOC @ 1450'
From T.S.

Ojo Alamo 1550'
Kirtland 1692'
Pictured Cliffs 2182'
Note: Old PC Top in Error

Pictured Cliffs
Perforations
1 SPF @ 2200'-2224'
1 SPF @ 2244'-2252'

7-7/8" & 6-3/4" Hole
2-7/8" Production Casing
@ 2327' w/ 110 sxs

PBTD @ 2316'
TD @ 2327'

Proposed

6564' GL
6575' KB

12-1/4" Hole
8-5/8" Casing @ 127'
w/ 90 sxs to Surface

Cement will be brought to surface
if leak is above TOC.

TOC @ 1450'
From T.S.

Ojo Alamo 1550'
Kirtland 1692'
Pictured Cliffs 2182'
Note: Old PC Top in Error

Pictured Cliffs
Perforations
1 SPF @ 2194'-2196'
1 SPF @ 2198'-2224'
1 SPF @ 2234'-2240'
1 SPF @ 2244'-2252'

7-7/8" & 6-3/4" Hole
2-7/8" Production Casing
@ 2327' w/ 110 sxs

PBTD @ 2316'
TD @ 2327'

Well was perforated 1 SPF and fraced w/ 25,000#
10/20 sand @ 27 BPM. Well has a casing failure.
This failure is most likely above TOC.

The well will be cleaned out, new perforations added,
a BP will be set, the casing tested, and the leak identified.
At this point the leak will either be repaired, or the well
plugged & abandoned with cement from PBTD to Surface.

FLM