State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

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Sundry Notices and Reports on	Wells
1. Type of Well GAS	API # (assigned by OCD) 5. Lease Number E-80915 6. State Oil&Gas Lease
2. Name of Operator Meridian Oil Inc. 3. Address & Phone No. of Operator	E-80915 7. Lease Name/Unit Name Canyon Largo Unit 8. Well No.
PO Box 4289, Farmington, NM 87499 (505) 326-9700	9. Pool Name or Wildcat Ballard Pic.Cliffs
4. Location of Well, Footage, Sec., T, R, M 1740'FSL, 1080'FEL Sec.2, T-24-N, R-7-W, NMPM, Rio	10. Unit Letter T
Recompletion Subsequent Report Plugging Back	tion Change of Plans New Construction Non-Routine Fracturing Water Shut off Conversion to Injection
This well is identified as having a casing leak. repaired if possible. If not, it will b (See attached procedure and wellbore dia	e plugged & abandoned.
	SEP 0 4 1992 OIL CON. DIV., DIST. 3

Machie (TEM)Regulatory Affairs __September 3, 1992_

Procedure for Slimhole Casing Repair Canyon Largo Unit #220 Pictured Cliffs Producer T24NR07WSec02I

Requirements:

- -1-1/4" Slimline Drillpipe, 2430', 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" Hornco Slimline box.
- -X-Over 1-14" IJ 10 rd pin X 1-13/16" Homco Slimline box.
- -2-7/8" Retreivable Bridge Plug, Guiberson Uni-Packer VI, 2.344" OD, w/solid mandrel XL On-Off retreiving head.
- -2-7/8" Retreivable Packer, Guiberson Uni-Packer VI, 2.344" OD/ 0.75" ID, 1-1/4" IJ 10rd connection.
- Profile Nipole for drill string.
- -Cement will be Class B with 2% CaCl added in mix water (15.6 ppg, 1.18 ft^3/sx, 5.2 gal/sx)
- -Maximum Cement Volume for Repair: 307 sxs + 50% = 460 sxs
- -Maximum Cement Volume for P&A: 142 sxs + 50% = 213 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.

- MORU daylight rig. Record Csg & Brdhead pressures. Place fire & safety equipment in 1. 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 2356'. Note & report fluid level. Circulate w/ air-mist to clean hole. TOOH.
- PU 2-7/8" RBP & PKR combination. TiH on 1-1/4" drillpipe. Set RBP @ 2250' (50' 3. above top perforation at 2306). 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 it. Dump 5 gal sand down 1-1/4" on RBP.
- Locate casing failure by testing below packer to 800 psi & annulus to 800 psi using rig 4. pump. Pull uphole. Locate all holes. Establish rate & record pressures into each leak. Note TOC @ 1475' 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:

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 @ 1475' is 307 sxs (64 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 # 220 Pictured Cliffs Casing Repair

- 7. TIH w/ 2-1/4" bit on 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. 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.
- 12. PU float, & 2-7/8" csg scraper. TiH on 1-1/4" drill pipe. Circulate hole clean to PBTD (2356') and verify removal of sand and fluid. TOOH & LD drill pipe.
- 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.

7. TOOH w/ RBP & PKR. TiH w/ 1-1/4" drill pipe open-ended to PBTD (2356). 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	2356' - 1700'*	656'	25.58 ft^3	21.70	20 %
2	1700' - 1000'	700'	27.30 ft^3	23.00	20 %
3	1000' - 250'**	750'	29.25 ft^3	24.50	20 %
4	250' - 180'	250'	84.95 ft^3	72.00	50 %
	180' to surf				

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

- 8. TOOH & LD drillpipe. RU wireline & shoot two 1/4" holes @ 180'. RD wireline.
- 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 48 sxs (10.1 bbls). Circulate good cement to surface.
- 10. Cut off wellhead below bradenhead & install dryhole marker. Release rig.

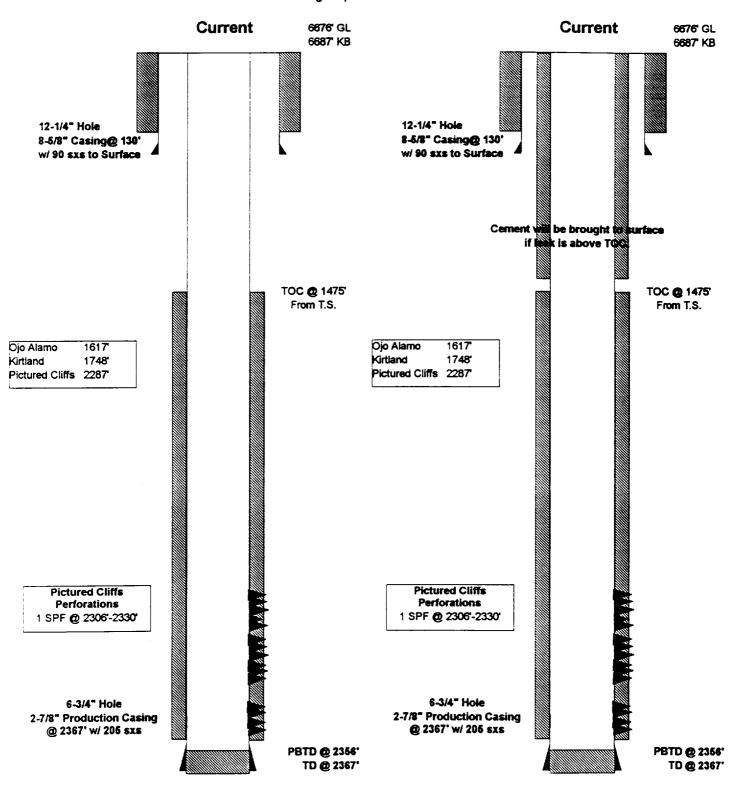
Am Vendors:	Approved:	J. A. Howieson Drilling Superintendent	
Cementing Bridge Plugs & Packers District Tools Engineering Casing Scraper		Operator	

^{**}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.

Canyon Largo Unit #220

T24NR07W02I

Pictured Cliffs Slimhole Casing Repair or Abandonment



Well was perforated 1 SPF and fraced w/ 30,000# 10/20 sand @ 28 BPM. Well has a casing failure. This failure is most likely above TOC.

The well will be cleaned out, 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 Surfac