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WORKOVER PROCEDURE

Well Information							
Well:	Pretty Lady 1		Field:	Mesaverde SWD			
Location:	1760' fsl & 1475' fel S34, T30N, R11W San Juan Co. New Mexico		Elevations:	5789' GL 5802' RKB			
			Depths:	3812' WL (FILL) 4009' KB (PBTD)			
Supervisor:	Jeff Davis (505.330.1617)		Engineer:	Shacie Murray(505.330.7605)			
API:	30-045-30922		Date:	February 12, 2021			
Surface Casing:	133/8" 48# H-40 LT&C @ 433' KB		Production Casing:	9-5/8" 47#/53.5# P-110 LT&C @ 8104' KB			
Tubulars:	5-1/2" 15.5# J-55 LT&C @ 3685' KB		Packer:	9 ⁵ / ₈ " Arrow Set RCP set at 3700' KB. EOT @ 3792 KB.			
Perforations (MV) 3762' - 3830', 4 spf (272 holes), 0.34" EHD, Frac'd w/ 102,000# 20/							

Version 1 – Procedure subject to change based on actual well conditions encountered.

Workover Purpose: Casing Hole Repair

Background

- 1. Wireline set composite bridge plug in lower 4-1/2" x 8' pup joint (3,723' KB).
- 2. Injection string pressure tested to 1,600 psig, held for 2 hours, good test. Injection String is isolated.
- 3. Casing did not pressure test, possible hole.
- 4. Wireline ran acoustic log while casing flowed, possible hole identified at 3,399' KB.

Prior to MIRU

- 1. Ensure H2S monitors charged and calibrated
- 2. Test/Install rig anchors

Squeeze Casing Hole

- 1. MIRU WO Rig
- 2. ND WH, NU BOP
- 3. Pour 11 cu. ft. of sand down injection string, wait for the sand to fall
- 4. Mix mud to balance pressure (approximately 14.2 ppg) and pump 140 bbls down csg
- 5. Install TIW valve (RU Kelly hose)
- 6. Pull straight up and release seal assembly from packer (sitting w/ 30K lbs in compression)
- 7. Reverse circulate to fill tbg with mud and balance well
- 8. TOOH and LD 5-1/2" injection string, connect csg to mud pit to maintain volume, SI well
- 9. Switch over BOP for 2-7/8" tubing
- 10. PU 2-7/8" work string

Page 1 of 5

WORKOVER PROCEDURE

- 11. Mix and pump 50 sx of class B, 15.6 ppg, 1.18 yld cement with calcium chloride to decrease setting time due to shallow depth
 - a. 10.5 bbls mix volume
 - b. Displace cement to place 1/3 cement behind pipe
 - c. Pump hesitation squeeze
 - d. Minimum cement behind 9-5/8" csg (1/3 volume) is 61', remaining (2/3 volume) inside is 99'
- 12. SI and WOC
- 13. TIH, tag TOC, pressure test csg to 1500 psig.
- 14. TOOH, PU 8.5" drill bit and drill collars. TIH and drill out cement.
- 15. TOOH LD bit and drill collars
- 16. Perform MIT *Procedure in Appendix A
- 17. TIH w/ 2 ea. 2-3/8" jts, changeover, 2-7/8" to top of sand
 - a. Reverse circulate sand and mud with fresh water
 - b. TIH into the 4-1/2" tail jt while reverse circulating sand out
- 18. TOOH and LD work string

Replace Injection String

- 19. PU and RIH w/ seal assembly, and ~3700' of new 5-1/2", 17#, coated casing (injection string).
- 20. Mix and reverse circulate ~165 bbls of packer fluid
- 21. Land seal assembly and 5-1/2" injection sting
- 22. PT injection string to 1500 psig
- 23. ND BOP, NU WH
- 24. RDMOL

Drill out Composite Plug and Return Well to Injection

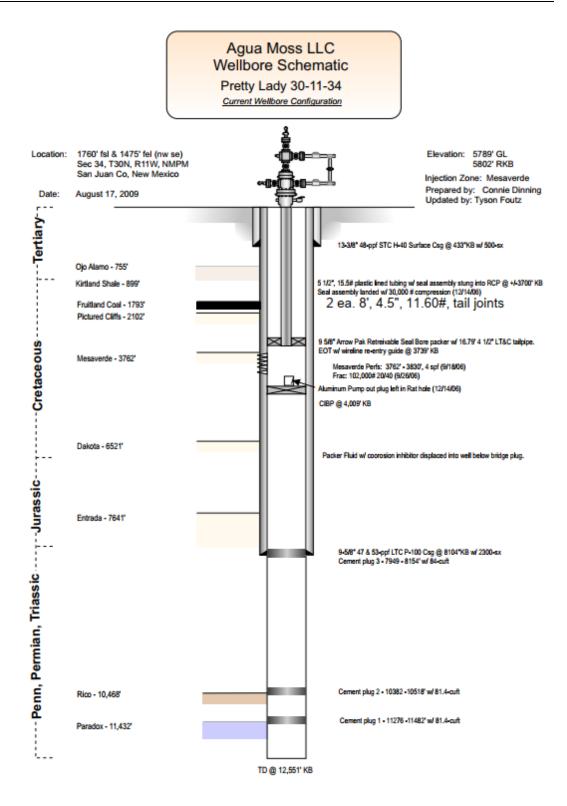
- 1. MIRU coil and fluid pump; ND WH, NU BOP
- 2. RIH with 1-1/4" coil, motor, and 3.75" bit
- 3. Drill out composite plug and circulate bottoms up (45 bbls)
- 4. SD pump/flow and TOOH w/ coil
- 5. ND BOP; RDMOL w/ coil
- 6. Return well to injection

WORKOVER PROCEDURE

WELLBORE DIAGRAM

Page 3 of 5

WORKOVER PROCEDURE



Page 4 of 5

WORKOVER PROCEDURE

Appendix A

MIT Procedure

<u>Checklist</u>

- MOG chart recorder w/ 1000# spring
- Calibration sheet
- Charts 1 hr x 1000 psi chart

Procedure: To be witnessed through facetime

- Record initial tubing and casing pressure
- Connect flowback line to the casing (Pre setup)
- Bleed casing pressure down to the flowback tank
- Set chart timer to 1 hr interval and install chart
- Verify 0 psig on chart
- Attach chart recorder line to the casing
- Shut in flowback line to isolate casing
- Pressure casing up to 400 psig using the pressure washer
- Isolate pressure washer from casing
- Record test for 30 min
- Record tubing and casing pressures
- Open flowback line and bleed casing pressure down to the flowback tank
- Record final tubing and casing pressures
- Shut in the casing and flowback tank and disconnect the chart recorder.
- Verify 0 psig on chart recorder
- Remove chart from recorder

On the chart include: chart test information: test type, date, start csg pressure, end csg pressure, start time, end time, and witness signatures.

Please give Philana the chart to send in and a report

District I 1625 N. French Dr., Hobbs, NM 88240

District II

District IV

Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

District III 1000 Rio Brazos Rd., Aztec, NM 87410 CONDITIONS

Action 17923

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
AGUA MOSS, LLC	P.O. Box 600	Farmington, NM87499	247130	17923	C-103X
					•
OCD Reviewer	Condition				
mkuehling	An MIT is required onc	e well is put back together and ready to inject.			