UNITED STATES

DEPARTMENT OF THE INTERIOR RECEIVED BUREAU OF LAND MANAGEMENT M MAIL ROOM

Sundry Notices and Reports on Wells 10 17 20 17 20 17 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16		= 117 177712 110011		
1. Type of Well GAS 1. Type of Well GAS 7. Unit Agreement Name 2. Name of Operator MERIDIAN © L 3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 67499 (505) 326-9700 4. Location of Well, Footage, Sec., T, R, M 790'FSL, 1450'FEL, Sec.7, T-31-N, R-9-W, NMPM 12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission X Notice of Intent Recompletion Subsequent Report Plugging Back Casing Repair Altering Casing Non-Routine Fracturing Water Shut off Casing Repair Pinal Abandonment X Other - Pay add and restimulation 13. Describe Proposed or Completed Operations It is intended to add pay and restimulate the Mesaverde formation of the subject Well according to the attached procedure and wellbore diagram. 14. I hereby certify that the foregoing is true and correct. Sighed AMAN 3 0 1886 OIL GOND DIFF. Title Date Tribe Name Secondary School Repair Non-Routine Fracturing Non-Rout	Sundry Notices and Repo	rts on Wells 96 MAY 20 PM 1:50		
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Johnson Federal #8A - Mesaverde

Menefee and Lewis Payadd Lat-Long by TDG: 36.907532 - 107.816559 SE/4 Section 7, T31N-R09W

COMPLETION PROCEDURE 4/11/96

- Hold safety meeting. MIRU. Comply with all MOI, BLM and NMOCD rules and regulations. Install 6 frac tanks and 1x400 bbl rig tank. Fill each frac tank with 3#s of biocide and Aztec city water with 1% KCI.
- Obtain and record all weilhead pressures. ND WH, NU BOP. TOOH w/ 2-3/8" tubing set at 5981'. Replace bad tubing as necessary.
- 3. TIH with 2-3/8" tubing, 7" (23#) casing scraper, and run casing scraper to 3465'. TOOH.
- TIH with 2-3/8" tubing, 4-1/2" (15.5#) casing scraper and 3-7/8" bit. CO to PBTD of 5998'.
 TOOH.
- 5. RIH and wireline set a 4-1/2" CIBP @ 5760'. Load hole from surface w/ 1% KCL water. Run CBL-GR-CCL from 5760' to surface.
- 6. TIH w/ 4-1/2" fullbore packer and 2-3/8" work string. Set packer @ ± 5500' and pressure test CIBP to 3800 psi. Release packer and TOOH laying down packer.
- Perforate the following Menefee interval using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes: (23 perfs total)

5504	5655
5510	5665
5531	5674
5541	5695
5543	5700
5548	5704
5570	5708
5589	5712
	5716
5621	5738
5628	5741
5646	3741
5650	

Inspect guns to ensure all perforations fired. RD wireline.

- 8. TIH w/ 4-1/2" fullbore packer and 2-3/8" work string. Set packer @ ± 5480'.
- 9 Maximum allowable treating pressure is 3800 psi during acid job. Pump 1500 gallons of 15% HCL acid @ + 8 Bbls/min dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer and TiH knocking balls off of perforations. TOOH laying down packer.
- 10. TIH with 4-1/2" mule shoe on the bottom of two Scab Liner Packers with 3 joints (± 93') of 2-3/8" tubing between the two packers on 2-3/8" tubing. Set Scab Liner to overlap the existing Cliff House perforations @ 5380' to 5452' (72' between top and bottom perf). Set top packer element @ ± 5370' and bottom element @ ± 5460'. TOOH.
- 11. TIH w/ 4-1/2" fullbore packer, \pm 150' of 2-3/8" work string, \pm 200' of 2-7/8" N-80 frac string and \pm 3450' of 3-1/2" N-80 frac string. Set packer @ \pm 3800'.
- 12. Hold safety meeting. Maximum allowable treating pressure is 6000 psi. (At static conditions, maximum allowable is 3800 psi.)

- 13. Pressure test surface lines to 7000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Menefee interval @ ± 40 BPM using 30# cross link and 75M lbs. of sand (15% resin coated). (See attached stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Shut in well immediately after completion of the stimulation until pressure falls to zero.
- Release packer and TOOH standing back frac string.
- 15. TIH with Scab Liner retrieving tool and bumper sub on 2-3/8" workstring. Recover Scab Liner and TOOH.
- 16. RIH and wireline set a 4-1/2" RBP @ ± 4750'. Dump ± 10' of sand on top of RBP with dump bailer.
- 17. TIH w/ 4-1/2" fullbore packer and 2-3/8" work string. Set packer @ ± 3800' and pressure test RBP to 3800 psi. Release packer and TOOH standing back work string.
- 18. Perforate the following Lewis interval using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes: (17 perfs total)

4313	4556
4319	4590
4329	4604
4333	4663
4472	4679
4476	4696
4494	4706
4502	4714
4510	

Inspect guns to ensure all perforations fired. RD wireline.

- 19. TIH w/ 4-1/2" fullbore packer and 2-3/8" work string. Set packer @ ± 3800'.
- 20. Maximum allowable treating pressure is 3800 psi during acid job. Pump 1500 gallons of 15% HCL acid @ max rate pressure will allow dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer and TIH knocking balls off of perforations. TOOH laying down packer.
- 21. TIH w/ 4-1/2" fullbore packer, ± 150' of 2-3/8" work string, ± 200' of 2-7/8" N-80 frac string and the ± 3450' of 3-1/2" N-80 frac string. Set packer @ ± 3800'.
- 22. Hold safety meeting. Maximum allowable treating pressure is 6000 psi. (At static conditions, maximum allowable is 3800 psi.)
- 23. Pressure test surface lines to 7000 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Lewis interval @ ± 40 BPM using 30# linear and 70Q Nitrogen with 60M lbs. of sand. (See attached stimulation procedure.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Shut in well immediately after completion of the stimulation until pressure falls to zero.
- 24. Release packer and TOOH laying down frac string.
- 25. TIH w/ retrieving head on 2-3/8" tubing and CO to RBP set @ 4750'. When sand has diminished, obtain pitot gauge for Lewis interval. Release RBP and TOOH.

- 26. TIH w/ 2-7/8" bit and CO to CIBP set @ 5760'. Obtain pitot gauge for Lewis / Menefee interval.
- 27. Drill up CIBP set @ 5760' and CO to PBTD of 5998'. PU above the Mesaverde perforations and flow the well naturally, making short trips for clean up when necessary. Obtain pitot gauge for Mesaverde after clean up.
- 28. When sand has diminished, TOOH.
- 29. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, an F-nipple, then the remaining 2-3/8" production tubing. CO to PBTD of 5998'. Land tubing near bottom perforation (5983').
- 30. ND BOP's, NU WH. Pump off expendable check. Obtain final pitot up the tubing if possible. If well will not flow on it's own, make swab run to FN. If a swab run is not necessary, run a broach on slickline to ensure that the tubing is clear. RD and MOL. Return well to production.

Approval:	Drilling Superintendent
Approval:	Northwest Basin Team Leader

Contacts:

Engineers: Mary Eilen Lutey Jimmy Smith

Office - (599-4052)
Home - (325-9387)
Pager - (324-2671)

Office - (326-9713)
Home - (327-3061)

Frac Consultants: Mark Byars Mike Martinez

Pager - (327-8470) Pager - (599-7429)
Mobile - (320-0349) Mobile - (860-7518)
Home - (327-0096) Home - (328-4861)

Vendors:

Stimulation: Halliburton (325-3575)
Wireline: Petro (326-6669)

MEL:mel

Pertinent Data Sheet

JOHNSTON FEDERAL #8A

Location: Unit O SW/4 SE/4, Section 07, T31N, R09W, 790' FSL, 1450' FEL,

Lat. 36.907532, Long. -107.816559 by TDG

San Juan County, NM

Field: Blanco Mesaverde

Elevation: 6696' GL

KB: N/A

TD: 6031'

PBTD: 5998'

Spud Date: 03-27-77

Completed: 05-10-77

DP No: 13036S

Prop. No: 071382800

Casing/Liner Record:

Hole Size	Csa Size	Wt. & Grade	Depth Set	<u>Cement</u>	Top/Cement
13¾*	9 5/8"	36# K-55	299'	275 sx	to surface
8¾"	7*	23# N-80/K-55	3658'	60 0 s x	TOC unknown
6¾"	41/2"	15.5# K-55 Liner	3469'-6030'	275 sx	TOC unknown

Tubing Record: 2 3/8* 4.7# tubing at 5981'.

Formation Tops:

Ojo Alamo: 1950' Kirtland: 1990' Fruitland: 2955' Pictured Cliffs: 3408' Huer, Bentonite: 4253' Cliffhouse: 5076' Menefee: 5400' Point Lookout: 5764

Logging Record:

GRI CDL/GR, SWN/GR

Workover History:

02/93: Squeeze attempt, did not cement.

12/05/95: Tubing repair/remedial cement. . Squeezed at 3445' with 100 sx cement, then squeezed at 3647' with 171 sx cement, circulated to surface. Squeezed at 2290' with

100 sx cement, then pumped 40 sx 2090'-2290'.

Stimulation History:

Perfed Cliffhouse 5380'-5452'. Fraced with 50,000# of sand and 50,000 gallons of water. Perfed Point Lookout 5768'-5983'. Fraced with 50,000# of sand and 50,000

gallons of water.

JOHNSTON FEDERAL #8A

BLANCO MESAVERDE

AS OF 3/08/96

790' FSL. 1450' FEL SEC 7, T31N, R09W, SAN JUAN COUNTY, NM

