



**Moore LS #2A  
Menefee Pay Add  
April 8, 1998**

**1. Pre Work**

- A. Locate and test deadman anchors. Spot flowback pit (20x20) and prepare. Inform operator of work to be done and time frame. Check for location size and equipment placement. Identify any hazards (power lines, H<sub>2</sub>S, tight equipment fits).
- B. Have pressure gauges on both casing and tubing when necessary (during acid, frac, testing).
- C. Hold Safety Meeting before rigging up to discuss potential hazards and meeting place in case of an emergency.

**2. Pull Tubing** (Files indicate that there is no packer.)

- A. RU. Blow well down and kill with minimum amount of 1% KCl. NU BOP's
- B. POOH w/ 176 joints 2 3/8" tbg string w SN & mud anchor 1 joint from bottom.

**3. Set Bridge Plug/ RIH with Cement Retainer/ Test Upper Casing/ Squeeze Cliffhouse**

- A. RU wireline and RIH gage ring to 5116' & POOH ( If can't get down make bit and scraper run).
- B. RIH wireline & EZ-Drill BP and set @ 5070'.
- C. RIH with work string and cement retainer and set @ 4550',
- D. Pressure test upper casing to 2000# for leak.
- E. Squeeze MV Cliffhouse (4577' 4678') off with 100 sxs class B cement.

**4. Drill Out Cement & Clean Out to BP and Perforate Menefee Pay Add**

- A. RIH w/gaged bit for 4-1/2", 10.5#, KS liner, TOL @ 3045', drill out retainer and cement and clean out to 5060'. Do not drill BP @ 5070'.
- B. RU wireline and perforate MV Menefee correlate to 6/3/78 Schlumberger Compensated Formation Density Log. Perforate with 18 select fire shots using a 3 1/8" HSC w/ .32" holes as follows (22 GRAMS OR HIGHER): 4863, 65, 95, 97, 4923, 32, 42, 44, 64, 66, 68, 77, 95, 98, 5000, 16, 18, 20.

**4. RIH Frac String and Packer and Frac Menefee Pay Add**

**5.**

- A. RIH with frac string and 4-1/2" treating packer.
- B. Spot 15% HCl across perfs and set packer at 4820', break down perf with approx. 10 bbls. of acid while balling off as per BJ's procedure.
- C. Proceed with single stage slick water frac as per BJ's procedure.

**5. Flow Back Clean Up/ POOH Frac String/ Drill BP and Clean Out to PBTB**

- A. Flow back and clean up after frac.
- B. POOH frac string and packer laying down.
- C. RIH with work string and gaged bit for 4-1/2" casing and clean out to and drill EZ-Drill BP @ 5070', continue to clean out to COTD @ 5521'. POOH work string and bit laying down.

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**7. Run Production Tubing & Return Well to Production**

Run 2-3/8" production tubing (w/ SN for plunger lift one joint off bottom) and set @ 5513' (mid poris).  
Install plunger & put in swab mode; put on production. Monitor well for rate at least one week.

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West Team