

MARK OWEN NO. 3

Abandon Drinkard, Close In Penrose Skelly and Recomplete in Blinebry

Suggested Procedure - Revised (To Replace Procedure dated 10-19-64 & C-102 approved 10-21-64)

1. Kill well with salt water. Pull tubing.
2. Drill out Otis Type WA packer set at 3750' using Baker A-1 sand line drill. Push undrilled portion of packer to bottom in open hole.
3. Set CI bridge plug at approximately 6400'. Dump 2 sacks Incor cement on top.
4. Selectively perforate Blinebry at 5775' & 5803' with 2 groups of five 1" in plane shots. Use Welox for wire line work.
5. Run 4 1/2" OD N-80 frac tubing with FB packer to PBTD. Displace hole with frac water (1 part Warren Gulf brine and 2 parts fresh water) containing 2 gallons Howco Morflo II per 1000 gallons. Raise tubing to 5800' and spot 500 gallons 15% double inhibited NEA over perforations. Raise tubing and set packer above acid column at approximately 5450'. Squeeze acid in formation using treated load water. Reset packer at approximately 5700'. Fracture treat Blinebry perforations with 16,000 gallons gelled frac water with additives in two equal 8,000 gallon stages. Frac water will consist of 1 part Warren Gulf brine and 2 parts fresh water. Gelled frac water will be pre-mixed and will contain the following additives: 30# WG-6/1000 gallons, 25# WLC-2/1000 gallons, 10# CW-1/1000 gallons and 2 gallons Morflo II/1000 gallons. Each 8000 gallon stage will be pumped as follows: USE HOWCO:

- A. 2148 gallon spearhead.
- B. 1160 gallons with 3 1/4#/gal 20-40 sand.
- C. 1124 gallons with 1 1/2#/gal 20-40 sand.
- D. 1464 gallons with 2#/gal 20-40 sand.
- E. 2104 gallons with 2 1/2#/gal 20-40 sand.
- F. Inject 5 RCMB sealers of 1 1/2" OD (after first stage only).

Underflush second stage by approximately 3 barrels gelled frac water. Attempt to maintain 25 bpm injection rate.

NOTE: Do not exceed an internal pressure of 6000 psi on the 4 1/2" N-80 frac tubing or 1000 psi on casing above packer (if Penrose Skelly will load). Maximum required shut in time after frac is 6 hours. In order to prevent unnecessary water damage to formation, should attempt to bleed off well and pull tubing as soon as possible after 6 hour shut in.

Pull 4 1/2" frac tubing and FB packer (kill well with treated acid cement if necessary). Run 2-3/8" EUE tubing with Baker Model AD tension packer, SH & FROB. Set packer at approximately 5750'. Install dual bond and run one joint Galvone thread tubing for Penrose Skelly down to facilitate packer leakage test. Push and/or flow until well comes up.

Run packer leakage test and place well on production.