

INTER-OFFICE COMMUNICATION

MIDLAND OFFICE

DATE May 15, 1978

TO: Ft. Worth
FOR: MR. Frank Millet
FROM: MR. J. E. Pullig
RE: Revised Procedure
Big Eddy Unit No. 40
File: 400-WF

1. RU pulling unit. Load tubing with 2% KCl water. Remove tree and NU 3000 psi hydraulic BOP.
2. Unseat packer, circulate casing and POOH. Packer in well is Baker rental packer and must be returned to Baker.
3. Run cast iron cement retainer on wireline and set at 11,860'. Run tubing and sting into retainer. Squeeze Atoka perfs with 100 sx Class "H" containing 0.2% Halliburton HR-7. Dump last barrel of cement on retainer. Pull tubing up 15' and reverse out. (USGS recommends squeeze.)
4. Run 2-7/8" EUE N-80 tubing with Otis Perma-Latch packer and set at \pm 11,280'. Set 10,000 lbs on packer. Remove BOP and NU wellhead. Swab fluid level to 8000'.
5. Perforate with McCullough's 2" select fire, de-centralized hollow carrier gun using Omega II charges at 11762, 11753, 11751, 11718, 11715, 11712, 11701, 11698, 11682, 11664 and 11646'. For perforating depth control, use WACO Gamma Ray correlation log dated 6-21-74. Note short joint at 11793 to 11828'. Use lubricator.
6. Swab if necessary and obtain a measurement of gas and water production. We want to be certain zone is not water productive before acidizing.
7. RU Western Co. with 3600 gals 15% HCl with each 1000 gals containing 2 gals FS-2 surfactant, 5 lbs FR-16 friction reducer and 6 gals I-15 inhibitor. Install tree saver. Annulus will be pressured to 2500 psi after tubing is loaded. Pump acid and ball sealers as follows: 600 gals acid, 1 ball; 300 gals, 1 ball; 300 gals, 2 balls; 300 gals, 2 balls; 300 gals, 2 balls; 300 gals, 2 balls; 300 gals, 2 balls; 300 gals, 3 balls; 300 gals, 3 balls; 300 gals, 4 balls; 300 gals. Follow acid with 90 bbls 2% KCl with each 1000 gals containing 5 lbs FR-16 and 1 gal FS-2. Obtain initial, 5, 10 and 15 minute SIP's. Do not exceed 7500 psi treating pressure. Pump at maximum rate obtainable within the 7500 psi limit. If treatment balls out, surge balls off perfs and continue job.
8. Flow and swab back acid water. Test to determine producing rate.