| DISTRIBUTION B SANTA FE, NEW MEXICO 87501 FILE U.S.G.S. U.S.G.S. D.STRIBUTION SANTA FE, NEW MEXICO 87501 State State File Superstance | ENERGY AND MINERALS DEPARTMENT | CONSERVATION DIVISION | |
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OIL AND GAS INSPECTOR

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| APPROVED BY Make Wallan | <u> </u> |
| CONDITIONS OF APPROVAL, IF ANY: | |

ENERGY RESOURCES OIL & GAS CORP.

Workover Procedure

| LEASE: | State | 32 | (B-2023) |
|---------|-------|----|----------|
| WELL: | | | |
| COUNTY: | Eddy | | |
| STATE: | N.M. | | |

1. RU Chase Well Service - Unbeam P. U.

2. TOOH with rods & pump

- 3. N.U. Tbg stripper rubber TOOH with Tbg
- 4. RU Gearhart-Owens TIH with temp. & spinner equipment locate wtr flow
 - A. If it is determined that water flow is coming from the perforations at 3477'-16' & 3649'-60' then a CIBP with 35' cmt may be set at 3450'
 - B. If it is determined that the water flow is coming from the base of the salt sect. at 1800', the following method for squeezing is recommended:

1000 gals Flo-Chek + 100 sxs Cal-Seal aerated with 250 scf $\rm N_2/bbl$ Slurry followed by 100 sxs Class "C" cmt + 2% CaCl

C. If it is determined that the water flow is coming from the Nates at 2622'-34', the following method is recommended for squeezing; 1000 gals Flo-Chek aerated w/ 250 scf N₂/bbl & 200 sxs Class "C" cmt + 2% CaCl

In each case (B & C) an E-Z drill Cmt retainer set approx 100° above the hole or perfs is used. A RBP with a sand pad is set below the hole or perts. The purpose of a retainer over a packer is due to the possibility of flash setting of the Flo-Chek. The retainer allows greater mobility of the tbg.

NOTE: Squeeze pressure is not to exceed 3500# (preferably 2500#)

- D. Reverse out excess cmt, TOOH with Tbg W.O.C. 18-24 hours
- E. RU Power swivel, P.U. 4-3 1/8" D.C. & 4 3/4" bit. TIH Drill up cmt and E-Z drill plug. Circulate hole clean. 'TOOH with drlg assy
- F. Run csg scraper & bit thru repaired section

Test squeeze job with 500# for 15 minutes.

TOOH with scraper.

IF IT IS DETFEMINED THAT THERE IS DAMAGED CASING ABOVE QUEEN SECTION REQUIRING AN EXPENSIVE SQUEEZE JOB, THE QUEEN SHOULD BE TESTED BEFORE PROCEEDING WITH THE REPAIRS.

5. RU Gearhart-Owens and perforate Queen section as follows:

32342SPF2holes3237-402SPF7holes3243-482SPF11holes3254-582SPF9holes3260-642SPF9holes

Measurements are from GR/NEUT log.

- 6. TIH with RBP & RTTS Set RBP @ 3290 ±; set RTTS 3210 ± (Use Watson Packer-Artesia)
- 7. RU swab and swab zone to remove load water, test and evaluate.
- 8. Treatment:
 - A. If well swabs dry with no water, treat as follows:
 - 500 gals MCA spot acid across perfs by lowering tbg/pkr to bottom set of perfs.
 - 2) Maintain back pressure on csg to control spotting of acid.
 - a. Re-setpacker above perfs.
 - b. Allow acid to soak; gradually increase pressure intermittenly.
 - c. After breakdown if formation does 8.9. initial initial initial should be 1/4 BPM gradually increasing inj. tate to 2-3 BPM.

- B. Swab test to evaluate for further treatment.
- C. Frac treatment: Western Co. or equal. Recommended 20,000 gals gelled Kcl water and 40,000 #20-40 SD. Use 70-80 ball sealers.
- D. Shut in overnight to allow formation to heal.
- E. Open well up and allow to flow if possible. Keep accurate gauges of load fluid. Flow into frac tank.
- 9. TOOH with packer and tbg.
- 10. TIH with rods & tbg. Set pumping string in accordance with NPBD or newly perf'd zone.

The above procedure is generalized and is subject to change as work progresses. Any substancial variation must be discussed with management.

The various service companies noted are not necessarily a preference. These companies were contacted for cost estimates and they are based within a reasonable distance of thisolocation.

SERVICE COMPANIES

| - | Mack Chase Well Serv. | Artesia | (505) | 746-6601 |
|---|------------------------------------------|------------|-------|----------|
| | Completion Rentals, Power Swivel & Tools | | | |
| - | I & W Transport Co. | Loco Hills | | 746-9788 |
| | Water & Frac Tanks | | | |
| - | Gearhart-Owens | Hobbs | | |
| | Perfs & Surveys | | | |
| - | Watson Packers | Artesia | | |
| - | Western Co. | Artesia | | |
| | Acid & Frac | | | |
| - | Halliburton Co. (Joe Ryan) | Artesia | | |
| | Cementing | | | |
| - | Standard Oil Field Supply | Loco Hills | | |
| | Supplies, Pump Repair | | | |
| - | Bo Monk Tubing Testers | Hobbs | (505) | 393-3813 |
| | | | | |