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DEC 15 '87

WORKOVER PROCEDUREDATE 10/9/87 O.C.D.WELL NO. & TYPE OF JOB: Empire Abo Unit #C-44 ARCO ^{ARTESIA, OFFICE} WT: 34.1406%JOB TITLE: Drill Out, Test and Plug Back to Upper IntervalDRILLED & COMPLETED: 10/60 LAST WO: TA 9/77FIELD: Empire Abo COUNTY: Eddy County, NM PREPARED BY: M.B. SmithTD: 6385' PBD: 5960' DATUM: RKB DIST RKB TO GL: 11'TUBINGHEAD: MAKE NA SIZE 7-1/16 PRESSURE RATING 3000 psi

CASING INFORMATION: SIZE WEIGHT GRADE SET @ SX CMT TOC

SURFACE: 8-5/8" 28 NA 725' 375 SurfacePRODUCTION: 5-1/2" 15.5 J-55 6384' 150 sx SurfacePRESENT PERFORATIONS 6250 - 6260 (1 JSPF) TA'd w/CIBP at 5960'TUBING SIZE: None WT: --- GRD: --- THD: --- NO JTS: ---

PACKER & MISC.: Original perforations 6282-6294 squeezed with 25 sx thru
CICR set at 6270'. Well TA'd 9/10/77 with CIBP set at 5960'. Left one
joint of 2-3/8" tubing in wellhead. Hole is loaded with treated water.

PROCEDURE

1. Test anchors. MIRU PU. Check well for pressure and bleed off. ND wellhead and NU BOP. Pressure test the BOP and 5-1/2" casing to 500 psi.
2. TIH w/4-3/4" bit and 4, 3-1/2" DC's on 2-3/8" tubing and drill out the CIBP at 5960'. Clean out to the top of the CICR at 6270' and POH.
3. TIH with a treating packer and std SN on 2-3/8" tubing to +6160' and swab test the perforations from 6250' to 6260'. Report results of swab test to Midland.

If results of swab test are favorable pressure the annulus to 500 psi and acidize the Abo perforations from 6250' to 6260' with 1000 gals of 60/40 15% NEFE HCL and xylene at 1-2 BPM with a maximum wellhead treating pressure of 1000 psi. Flush to the bottom perforation with produced water. SI for 30 minutes and swab test. If production from these perfs is adequate, continue with step 7.

If results of swab test are not favorable either before or after the acid treatment continue with step 4.

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Workover Procedure

4. WL set a CIBP at 6245' and perforate the Empire Abo w/2 JSPF from 6224' to 6230'. Correlate to Schlumberger LL/GR/N log dated 10/21/60. Note fluctuation in fluid level after perforating. If well goes on a vacuum proceed with swab testing prior to performing the acid job.
5. TIH with treating packer and 2-3/8" SN on 2-3/8" tubing to 6230'. Spot 100 gal acid across perforations and pull packer up hole to +6130'. Reverse 5 bbls water up tubing and set packer.
6. Pressure annulus to 500 psi and acidize the Empire Abo perforations with 750 gal 15% NEFE HCL acid at 1-2 BPM. Flush to the bottom perforation with produced water. Maximum wellhead treating pressure 1000 psi. SWI for 30 minutes and swab test.
7. POH with tubing and packer. TIH with completion assembly as per production department specifications. TOTPS.

NOTE: a. There should be enough Surplus 2-3/8" tubing in the Empire Abo Unit yard to equip this well.
b. Be sure to contact the State office when rigging up and prior to performing any plug back operations.

MBS
KDK


Empire Abo Unit #C-44
Current Wellbore Configuration

October 9, 1987
ARCO WI 34.1406%

Location: 1980' FSL & 990' FEL, Sec 25-T17S-R28E, Eddy County, New Mexico
TD: 6385' PBD: 5960' GL Elev: 3672' RKB: 11' Spud: 10/7/60

