

- 4-08-93 Test anchors to 22,500# (set 1 anchor). MIRU workover unit. SIT&C 0#, unseat pump, POH w/ rods & pump. ND WH, NU BOP. Release TAC, POH w/ 160 jts 2-3/8" J-55 tbg, TAC. 12 jts 2-3/8" J-55 tbg, SN & slotted mud anchor. RIH w/ 4-1/2" RBP & set @ 60', POH, test blinds to 2000# - OK. RIH w/ 4-1/2" tension pkr & set @ 30', test pipe rams to 2000# - OK. POH w/ pkr & plug. Rig up wireline. RIH w/ 3-11/16" gauge ring & junk basket to 5450'. POH w/ same, RIH w/ 4-1/2" CIBP & set @ 5400'. POH w/ setting tool, RIH w/ 3" dump bailer & dump 2 sx cmt on plug. POH w/ bailer, load hole & test plug to 1000# for 15 min - OK. SI, SDON. DC = \$3,606.
- 4-09-93 SICP 0#, open well, R/U Perfolog. R/U 5M lubricator. Made GR-CCL run. Perf'd well @ 2 JSPF @ 120' phasing, using 6 gun runs. Perf'd 3448-63'; 3485'-3507'; 17-20'; 27-31'; 34-39'; 56-57'; 66-77'; & 88-89'. Total of 168 shots. All shots fired. Made (2) dump bailer runs w/ 2" OD bailer. Tight spot in csg @ 3740'. Hung up going in hole. Dumped 20' cmt on top of CIBP @ 5400'. Est. TOC @ 5380'. R/D. TIH w/ Halliburton 4-1/2" RTTS, SN & 108 jts 2-7/8", 6.5#/ft, N-80 EUE tbg to 3427'. Left pkr swinging above perfs. SI well. SDFWE. DC = \$5,500. CC = \$9,106.
- 4-13-93 SITP 0#. Open well. TIH w/ (3) jts 2-7/8". Set RTTS @ 3510'. Drop SV. Load tbg w/ 5 bbls 2% KCl. Pressure tested tbg & lines to 4000 psi - OK. Pulled SV. Pumped 5 bbls KCl wtr to load tbg, 4 BPM @ 1070 psi. Communicated w/ annulus. S/D. Unseated pkr. Reset pkr 4' deeper. Still had communication. Unset pkr. TOH w/ 5 jts 2-7/8". Set RTTS @ 3358'. Loaded backside. Tested annulus to 860 psi - OK. Acidized Penrose w/ 3200 gals 15% HCl w/ 1 gal/1000 CI-23, 1 gal/1000 NE-13, 10 gal/1000 Ferratrol 3006, & 10#/1000 gal Ferrotrol 200 @ 5.5 BPM w/ avg treating pressure of 950 psi. Max 1172 psi. Some ball action. Dropped 248 1.3 SPGR balls. ISIP 320 psi. Well on vacuum after 13 min. R/D BJ. R/U swab line. Flushed w/ 23 bbls 2% KCl. 1st swab run IFL 2700'. Swabbed. 4 runs - well kicked off, flowed 15 bbls - well died. Cont. swabbing. Rec. total 35 bbls load wtr, 15 bbls oil. FFL 3000'. Final oil cut 20%. SWION. DC = \$7,020. CC = \$16,126.
- 4-14-93 SITP 80#. Bled well down. R/U swab. Made 30 total swab runs. Total recovery for day 99 bbls (est. 23 oil, 76 wtr). IFL 2400', FFL 3000'. Max rate 17 bbls/hr, min 4.5 bbls/hr. Rate decreased during day. Well gassing lightly after each swab run. DC = \$2,570. CC = \$18,696.
- 4-15-93 SITP 80#. Bled well down. R/U swab. Made (1) run. IFL 1800'. Dropped SV. R/U BJ. Loaded tbg w/ 5 bbls frac gel. Tested tbg to 6300 psi - OK. Pressured up annulus to 570 psi. Frac well w/ 168 bbls 65 quality CO2 / 35#/bbl CMHPG gel pad @ 18 BPM w/ 3400 psi. Staged in 11 bbls 2# 10/20 sand @ 18 BPM @ 3800 psi, 14 bbls 4# 10/20 sand @ 18 BPM @ 4000#, 43 bbls 6# 10/20 sand @ 19 BPM @ 4200 psi, 93 bbls 7# 10/20 sand @ 19 BPM @ 4600 psi; 50 bbls 8# 10/20 sand @ 17 BPM @ 5600 psi initial. Screen out. Total sand 71820#, 6720# sand in tbg. 75 tons CO2 used total (6 tons cool down). Monitored bled-off rate. Shut frac valve. R/D BJ. SDFN. DC = \$26,600. CC
- 4-16-93 SITP 1000#. R/U blowdown line. Blew well down thru adjustable choke. Well dead in 15 min. Unloaded minor amount of sand. R/U Cudd 1" coiled tbg unit & BOP's. R/U BJ acid pump. RIH & washed down to pkr. Some sand. Cleaned out sand across perfs. Well slugging gas periodically. Cleaned out solid sand to approx. 3800'. 50' black contaminated sand. Washed thru bridge. Washed to 5300'. No sand below bridge. Circ'd rathole clean. Some black paraffin. POH. R/D Cudd. R/U swab line. Swab. IFL 2000'. Made (3) runs. Swabbed down to SN. 1200' fluid entry between 2nd & 3rd run. SI well. SDFN. Trace sand in 3rd run. DC = \$8,741. CC = \$54,037.
- 4-17-93 SITP 180#. Open well. R/U swab. Made 29 runs w/ swab. Total fluid recovery for day 95 bbls. Trace sand. IFL 1800'. FFL 2000'. Bled off annulus. Unseated RTTS. TOH w/ rental 2-7/8" tbg. Chg out rams to 2-3/8". Ran perf mud anchor, SN, (7) jts 2-3/8" tbg, tbg anchor, & 108 jts 2-3/8" tbg. Total pipe length 3558'. SN @ 3648'. Pulled 15K tension on anchor. Installed 6" 900 tbg hanger. SI well. SDFN. Btm of perf sub 3665'. TAC @ 3427'. DC = \$5,887.
- 4-18-93 Ran 6' gas anchor on 2"x 1-1/4"x 12' insert pump, (144) 3/4" rods, 1-2'x 3/4" rod sub. Seat & space out pump. Clamp off rods. R/D W.O. unit. Prepare to set pumping unit. DC = \$1,000. CC = \$60,929.
- 4-20-93 Found well not pumping. Repaired & tested flowline. Tied in tbg & csg to flowline. Left well pumping to test tank @ battery.
- 4-21-93 Well pumped 0 BO, 26 MCFD & 0 BW. Found pump gas locked. Lowered rods, left well tagging & pumping. DC = \$100. CC = \$61,709.
- 4-22-93 Well pumped 0 BO, 12 MCFD & 3 BW. Found well not pumping. RU pulling unit. POH w/rods & pump. Found Stanley filter plugged w/sand. SDFN.
- 4-23-93 RIH w/3-tube sand pump on rods. Tbg would not load. POH w/rods & tbg. Drop SV. Ps tbg to 1000 psi - OK. Fish SV. Replace 6' gas anchor w/6" strainer nipple. RIH w/pump & rods. Load & test tbg. Well pumping OK. Monitored well for 1 1/2 hrs. Left well pumping to battery. DC = \$1,450. CC = \$63,983.

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