

DEPTH OF 4' & FOUND CASINGHEAD EQUIPMENT LEAKING BETWEEN CASING BOP & 5-1/2" CASING COLLAR. RIGGED DOWN PULLING UNIT. EXCAVATED CELLAR TO A DEPTH OF 8' & INSTALLED METAL MATTING BOARDS. RIGGED UP PULLING UNIT. STAR TOOL LOADED CASING W/FRESH WATER & POURED 4 SKS. OF SAND DOWN THE CASING ON RBP AT 3,750'. REMOVED BOP. NATIONAL WELLHEAD SYSTEMS REMOVED OLD WELLHEAD & INSTALLED A NEW CASING FLANGE 11" 3M X 8-5/8" SLIP ON WELD & A 11" 3M X 7-1/16" 3M TUBING HEAD. TESTED WELLHEAD & SEALS W/3,000 PSI. HELD OK. INSTALLED BOP. TIH W/5-1/2" ELDER FULLBORE PACKER SET AT 2,306' & PRESS. TESTED CASING FROM 2,306' TO 3,713'. PRESS. DECREASED FROM 530 PSI TO 495 PSI IN 32 MINS. RESET PACKER REPEATEDLY & DETERMINED CASING FROM 1,747' TO 3,713' WOULD LOSE 20 PSI IN 16 MINS. FOUND CASING FROM 1,747' TO 1,005' W/INDICATIONS OF MULTIPLE SMALL LEAKS. FOUND CASING FROM 0' TO 1,005' WOULD LOSE 40 PSI IN 30 MINS. DETERMINED CASING LEAK INTERVAL, WHICH WILL NOT PASS INTEGRITY TEST, EXTENDS FROM 1,005' TO 1,747'. TOH W/PACKER. TIH W/2-7/8" TBG. SET OPEN ENDED AT 1,739'. RIGGED UP HALLIBURTON & PUMPED 5 BBLs. FRESH WATER. PUMPED 100 SKS. MICRO MATTRIX SLURRY W/0.25 LBS./SK. K-AIR & 1.2% CFR-3 DISPLACED W/4 BBLs. FRESH WATER. TOH W/30 JTS. 2-7/8" TBG. BALANCED CEMENT PLUG SPOTTED FROM 820' TO 1,739' W/BOTTOM OF TBG. AT 810', REVERSE CIRC. W/10 BBLs. FRESH WATER. LOADED CASING W/2.9 BBLs. FRESH WATER, CLOSED BLIND RAMS ON BOP & PUMPED 0.75 BBLs. FRESH WATER. PRESS. INCREASED TO 700 PSI. SHUT DOWN PUMP & PRESS. DECREASED TO 600 PSI IN 5 MINS. PUMPED 0.5 BBLs. FRESH WATER & PRESS. INCREASED TO 700 PSI. SHUT DOWN PUMP & PRESS. DECREASED TO 630 PSI IN 5 MINS. PUMPED 0.1 BBLs. FRESH WATER & PRESS. INCREASED TO 700 PSI. PRESS. REMAINED AT 700 PSI FOR 2 MINS. DISPLACED W/A TOTAL OF 1.35 BBLs. FRESH WATER. PRESS. TESTED CASING FROM 0' TO TOP OF CEMENT. PRESS. DECREASED 50 PSI IN 16 MINS. TIH W/A 4-3/4" DRILL BIT, & TAGGED TOP OF CEMENT AT 853', ESTABLISHED REVERSE CIRC. AT 2.5 BPM & 200 PSI & DRILLED CEMENT FROM 853' TO 1,120'. CIRC. CLEAN & PRESS. TESTED CASING FROM 0' TO 1,120'. PRESS. DECREASED 50 PSI IN 16 MINS., DRILLED CEMENT FROM 1,120' TO 1,214', CIRC. CLEAN & PRESS. TESTED CASING FROM 0' TO 1,214'. PRESS. DECREASED 50 PSI IN 16 MINS. ESTABLISHED REVERSE CIRC. AT 2.5 BPM & 200 PSI & DRILLED OUT CEMENT FR. 1,214' TO 1,523'. CIRC. CLEAN, PRESS. TESTED CASING FROM 0' TO 1,523' & PRESS. DECREASED 50 PSI IN 17 MINS. DRILLED OUT FR. 1,523' TO 1,616'. CIRC. CLEAN, PRESS. TESTED CASING & PRESS. DECREASED 50 PSI IN 16 MINS. ESTABLISHED REVERSE CIRC. AT 2.5 BPM & 200 PSI. DRILLED OUT CEMENT FR. 1,616' TO 1,735', CIRC. CLEAN & PRESS TESTED CASING FROM 0' TO 3,713. PRESS. DECREASED FR. 545 PSI TO 500 PSI IN 16 MINS. TOH W/BIT. TIH W/A 5-1/2" ELDER FULLBORE PACKER SET AT 851' & PRESS. TESTED CASING FR. 0' TO 851'. PRESS. DECREASED FR. 610 PSI TO 570 PSI IN 30 MINS. TESTED CASING FR. 851' TO 3,713'. PRESS. DECREASED FR. 555 PSI TO 495 PSI IN 30 MINS. RESET PACKER AT 3,213' ON 104 JTS. 2-7/8" TBG. & FOUND CASING FR. 3,213' TO 3,713' WOULD HOLD 620 PSI FOR 3 MINS. W/NO PRESS. LOSS. PULLED PACKER TO 2,308', RESETTING PACKER REPEATEDLY & TESTING FR. PACKER TO 3,713', & FOUND CASING WOULD HOLD 530 PSI W/NO PRESS. LOSS. RELEASED PACKER AT 2,308' & PRESS. TESTED CASING FR. 0' TO 3,713' & PRESS. DECREASED FR. 535 PSI TO 500 PSI IN 30 MINS. TOH W/ PACKER. TIH W/A RETRIEVING TOOL. REVERSE CIRC. SAND OFF RBP, RELEASED RBP & TOH. TIH W/ 5-1/2" BAKER TUBING ANCHOR CATCHER, W/45,000# SHEAR PINS, & 2-7/8" 8RD EUE TBG. REMOVED 6" 900 MANUAL BOP & INSTALLED WRAPAROUND, 7-1/16" 3M TUBINGHEAD FLANGE, SLIP ASSEMBLY & PACKOFF. SET TAC AT 3,740', W/14,000# TENSION & SN AT 3,867'. TIH W/PUMP & RODS, RDPU, CLEANED LOCATION & RESUMED PROD. WELL.

TEST OF 5-16-93: PROD. 56 B.O., 278 B.W. & 32 MCFGPD IN 24 HRS.