

388LS. OF DISPLACEMENT & 3,100#. STING OUT OF RETAINER & REVERSED OUT 3-1/2 SK. TOH W/TBG.
 HAVE 296.5 SKS. OF CMT. IN FORMATION. MAX. PRESS.-3,100#, MIN. PRESS.-700# & AIR-1.5 BPM.
 TIH W/BIT ON D.C.'S & TBG. TAGGED CMT. @ 6,654'. DRLD. OUT CMT. & RETAINER FR. 6,654' TO
 6,903'. CIRC. CLEAN & PRESS. TST'D. CMT. SQZ. W/1,000#. HELD OK. TIH W/A TOTAL OF 246 JTS.
 TBG., D.C.'S & BIT. TAGGED UP IN 5-1/2" CSG. @ 7,889'. CIRC. CLEAN & ACID WASHED TBG. W/1600
 GALS. OF 15% HCL ACID. PULL UP HOLE TO 7,130' & SPOTTED 100 GALS. OF 15% HCL ACID. TOH
 W/TBG. & TOOL STRING. SCHLUMBERGER SVCS. MIRU. RAN USI/CCL/GR LOG FR. 7,873' TO 3,700' FR.
 SURF. LOG INDICATED POOR BOND ACROSS ZONE OF INTEREST. TIH W/2-7/8" SN & 244 JTS. TBG. TBG.
 O.E. @ 7,667'. DISPLACED WELLBORE W/FW REVERSING 15% HCL ACID TO PIT. TOH W/TBG. & SN.
 SCHLUMBERGER MIRU. RAN CCL FOR DEPTH CONTROL & SHOT 4 SQZ. HOLES @ 7,090'. SCHLUMBERGER
 RDMO. TIH W/FULLBORE PKR., SN, & TBG. SET PKR. @ 7,077'. PRESS'D. ANNULUS TO 750#. CSG.
 HELD. ATTEMPTED TO BREAKDOWN SQZ. HOLES W/NO SUCCESS. RELEASED PRESS. & PKR. TIH W/3 JTS.
 TBG. PKR. FREE @ 7,103'. AMERICAN FRACMASTER MIRU. BROKE CIRC. SPOTTED ACID FR.
 7,103'-6,853'. TOH W/10 JTS. TBG. & REVERSED OUT W/75 BBLs. WATER @ 6,787'. SET PKR. @
 6,787' & PRESS'D. ANNULUS TO 750#. ATTEMPTED TO BREAKDOWN OF SQZ. HOLE @ 7,090'. AVG. INJ.
 RATE OF 0.6 BPM @ 2,450#. DISPLACED ACID W/14 BBLs. FW. AMERICAN FRACMASTER RDMO. RELEASED
 PKR. TOH W/TBG., SN, & PKR. SCHLUMBERGER MIRU. RAN CCL FOR DEPTH CONTROL. TAGGED PBTD @
 7,873' BY W/L MEASUREMENT. SHOT 4 SQZ. HOLES USING A 4" HJ CSG. GUN @ 7,150'. SCHLUMBERGER
 RDMO. TIH W/FULLBORE PKR., SN, TBG. & 12' TBG. SUBS. BROKE CIRC. & SET PKR. @ 7,113'.
 PRESS'D. TBG. TO 2,800# & BROKE CIRC. THRU SQZ. HOLES & OUT 5-1/2" CSG. SWITCHED TO REVERSE
 CIRC. & CLEANED UP HOLE. RTNS. WERE CMT. & FORMATION. PULLED PKR. ABOVE SQZ. HOLES @ 7,090'.
 TOH W/ 224 JTS. TBG., SN & PKR. TIH W/CMT. RETAINER, SN TBG. & TBG. SUBS. PUMPED TO CLEAR
 RETAINER & BROKE CIRC. SET RETAINER @ 7,112'. PRESS. TST'D. TBG. TO 1,000#. HALLIBURTON &
 PROTECHNICS MIRU. EST. INJ. RATE OF 2 BPM @ 700# W/CIRC. OUT CSG. MIXED & PUMPED 35 SKS.
 CLASS 'C' NEAT CMT. W/RATING MATERIAL & DISPLACED TO SPOT W/39 BBLs. FW. STUNG OUT OF
 RETAINER. TOH W/TBG. SUBS & 8 JTS. TBG. & REVERSED OUT @ 6,847'. PULLED 2 ADDITIONAL JTS.
 W/STINGER @ 6,784'. CLOSED BOP RAMS & SQZ'D. 1.5 BBLs. (6.4 SKS. CMT.) INTO HOLES @ 7,090' IN
 3 ATTEMPTS. MAX. PP.-1,000#. CALC. TOC @ 6,940' INSIDE 5-1/2" CSG. ABOVE RETAINER. NOTE:
 PROTECHNICS FAILED TO TAG CMT. W/RA MATERIAL. HALLIBURTON & PROTECHNICS RDMO. CI. WAITING
 ON CMT. TOH W/TBG., SN, & SETTING TOOL. TIH W/BIT, D.C.'S & TBG. TAGGED @ 6,865'. PU POWER
 SWIVEL. INSTALLED STRIPPER HEAD, & BROKE CIRC. DRLD. CMT. STRINGERS FR. 6,865'-6,920'. FIRM
 CMT. FR. 6,920'-7,111', & CIRC. WELLBORE CLEAN. PRESS. TST'D. CSG. TO 1,000#. CASING HELD.
 DRLD. CMT. RETAINER FR. 7,111'-7,112' & CIRC. CLEAN. PU POWER SWIVEL & BROKE CIRC. DRLD.
 REMAINING PIECE OF CMT. RETAINER FR. 7,112'-7,113' & SOLID CMT. FR. 7,113'-7,157'. FELL THRU.
 DRLD. CMT. STRINGERS TO 7,170' & RAN BIT TO 7,183'. CIRC. WELL CLEAN & L.D. SWIVEL. PRESS.
 TST'D. CSG. TO 1,000#. CSG. HELD. TOH L.D. W/223 JTS. OF TBG., D.C.'S & BIT. TIH W/32 JTS.
 TBG. FR. DERRICK & TOH L.D. W/SAME. NO BOP. INSPECT PROFILE OF TBG. SPOOL & FOUND TO BE OK.
 REPLACED 1 TIE DWN. PIN & PACKING NUT. NU 6" 600 BOP. TIH W/2-7/8" SN & PU OFF RACKS W/231
 JTS. 2-7/8" TBG. TBG. O.E. @ 7,130'. AMERICAN FRACMASTER MIRU. DISPLACED WELLBORE W/160
 BBLs. CLEAN FW. PUMPED 1,500 GALS. 15% NEFE DI HCL ACID & FLUSHED W/41 BBLs. FW @ 1.0 BPM TO
 ACIDIZE TBG. REVERSED CIRC. TO DISPLACE ACID TO TANK @ 1.0 BPM. PUMPED & SPOTTED 100 GALS.
 15% NEFE DI HCL ACID @ 7,130'-7,028'. AMERICAN FRACMASTER RDMO. TOH W/231 JTS. 2-7/8" TBG. &
 SN. SCHLUMBERGER MIRU. PER'D. 5-1/2" CSG. USING 4" HEGS-DP GUNS FR. 7,118'-7,130' 4 SPF. 90
 PHASED. TOTAL OF 49 SHOTS. SCHLUMBERGER RDMO. HYDRO-TST'D. TBG. TIH W/BAKER LOC-SET PKR.
 W/1.81" "F" PROFILE NIPPLE. ON-OFF SKIRT. 2-7/8" SN & HYDRO-TST'D. 227 JTS. 2-7/8" TBG. PKR.
 FREE @ 7,028'. DISPLACED ANNULUS W/135 BBLs. PKR. FLUID. SET PKR. @ 7,027'. INSTALLED
 WRAP-AROUND IN TBG. SPOOL. INSTALLED TBG. HANGER. LANDED TBG. W/11,000# COMPRESSION. PRESS.
 TST'D. CSG. TO 1,000#. CSG. HELD. NU FLOWTREE. AMERICAN FRACMASTER MIRU. PRESS'D. ANNULUS
 TO 750# & LINES TO 5,000#. PRESS'D. TBG. TO 4,000# & BROKE PERFS. EST. INJ. RATE OF 4.0 BPM
 @ 4,740# TBG. PRESS. ACIDIZED PERFS. FR. 7,118'-7,130' W/3,528 GALS. 15% NEFE DI HCL ACID
 W/ADDITIVES AT AVG. INJ. RATE OF 6.5 BPM @ 4,980#. DEVELOPED COMMUNICATIONS W/ANNULUS W/1,800
 GALS. ACID INTO PERFS. FLUSHED TBG. W/58 BBLs. WATER @ 0.5 BPM & 1,450# TBG. & 1,550# CSG.

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