

GREAT EASTERN DRILLING COMPANY #1 HAY FLOW UNIT

Location: 2080' FSL & 1980' FEL Section 11, T-26-S, R-27-E, Eddy County, New Mexico

- 3-8-75 Day 58. TD 12,966' driller, 12,983' Schlumberger. Running logs on 1st run. Spent 6½ hrs circ for logs, 1½ hrs cleaning pits, 5½ hrs circ off gas, 1½ hrs spotting 12½# mud on bottom, 4½ hrs trip out, 4½ hrs logging.
- 3-9-75 Day 59. TD 12,966' driller, 12,983' Schlumberger. Circ & cond hole. Prep to spot 12½# mud on bottom to run csg. Mud wt 10.7#, vis 41 to 42, WL 22, FC 2/32", PH 9. Spent 7 hrs logging & rigging down loggers, 6 hrs trip in hole, 11 hrs circulate gas off & cond mud. Ran compensated neutron formation density & caliper & dual laterallog-RXO logs. No fluid loss or gas last 6 hrs.
- 3-10-75 Day 60. TD 12,966' driller, 12,983' Schlumberger. PBTD 12,678'. Cementing first stage. Mud wt 19.7#, vis 42, WL 22, FC 2/32", PH 9. Ran 115 jts of 5½" P-110 17# per ft. LT&C Republic, 84 jts of 5½" N-80 17# LT & C CF & I and 107 jts of 5½" N-80 17# Buttress youngstown w/2 Lynes ECP packers and Halliburton DV tool. A total of 306 jts (12,662') were set @ 12,678'. Bottom Lynes ECP packer was set @ 9368'. Upper Lynes ECP packer was set @ 5924'. DV tool was set @ 9117'. Rough coated 7 jts of casing as follows: 3 jts 12,422-12,546'; 2 jts 11,969-12,049'; 2 jts 11,597-11,684'. Ran 10 centralizers over the above interval. Started cementing 1st stage preceded by 500 gal of mud flush & followed by 710 sax Class "H" cement + 8# per sack of salt + 4/10 of 1% HR-4 retarder. 1 hr circ & cond mud, 2½ hrs spotting 12½# mud on bottom, 7½ hrs LD DP & DC's, 4 hrs changing BOP rams & RU to run csg, 7½ hrs running casing, 1 hr WO Halliburton & RU Halliburton to cement, 1/2 hr cementing.
- 3-11-75 Day 61. PBTD 12,678'. WOC. Finished cementing 1st stage. PD @ 6:25 AM 3-10-75. Bumped plug w/3600# to set lower ECP pkr. Dropped D-V opening bomb & cemented 2nd stage w/455 sax Howco lite wate cement + 10# per sack of gilsonite + ½# per sack of Flo-seal. PD 8 AM 3-10-75. Bumped plug w/4700# to set Lynes upper ECP pkr. Confirmed setting of upper ECP pkr by pressuring annulus between 8-5/8" & 5½" csg to 250#. Spent 1½ hrs pumping cement & displacing cement & setting ECPs, ½ hr wait on D-V bomb to fall, 22 hrs WOC. Now nipping. Ran temperature survey. Found top of 2nd stage cement outside @ 6490'. Found cement inside csg @ 9080'. Set slips & cut off pipe. Left 130,000# on slips.
- 3-12-75 Day 62. PBTD 12,678'. Circ. hole. Preparing to displace w/clean brine water. Spent 4 hrs nipping up, 4 hrs unloading tbq, tallying, removing protectors & preparing to run, 1 hr jet cellar & III fresh water tanks, 1½ hrs drill cement & DV tool, ½ hr tstg DV tool to 1500#. Held OK, 13½ hrs PU DC & tbq & running in hole.

RECEIVED

APR 10 1975

O. C. C.  
ARTEBIA, OFFICE

ILLEGIBLE

- 3-13-75 Day 63. RTD 12,678'. Ran cement bond & tie in log. Found good cement opposite zones to be perforated. Now GPH w/tbg & Baker pkr. Spent 3/4 hr RT tbg, 3/4 hr drilling cement on top of float collar, 2 1/2 hrs circulating & putting up tbg board, 1 1/2 hrs displacing hole w/clean brine water, 6 hrs pulling the 1 1/2 hrs, 9 1/2 hrs RT loggers, logging & rig down loggers, 1 hr dressing pkr & GPH, 2 1/2 hrs working on power tongs.
- 3-14-75 Day 64. Finished running tubing. Set pkr @ 12,110' (5 1/2 X 2 Baker Lock-set) w/1.181 profile @ 12,103' & sliding sleeve @ 12,068'. Flanged up BOP. Fished blanking plug. Pressured tbg to 4000 PSI w/60,000 CFN. Held OK. Perf Morrow: 12,290-294; 12,439-445; 12,468-481; 12,503-510 w/2 JSPE w/1 11/16" hyperdome jet perforator (30' 60 holes .29" diam.) Opened well to flow. Unloaded nitrogen in 45" & died. Fluid level while fishing blanking plug was @ 10,470'.
- 3-15-75 Day 65. Filled tbg w/water. Pressured tbg to 5500# & formation broke. Ran Nowsco tubing unit & displaced wtr down to pkr w/1/2. Treated Morrow perfs w/3000 gal 7 1/2% MS acid w/1000 CFN<sub>2</sub>/bbl + 6000 CFN<sub>2</sub> pad. Flushed w/33 bbls KCL wtr w/1000 CFN<sub>2</sub>/bbl. Used 100-7/8" balls in 4 stages. When 2nd stage ball on perfs press increased to 8400#. Pressure broke back to 6100#, then decreased to 5600# @ end of flush. ISIP 4000# 5" SIP 3950#. Total load 105 bbls. Max press 8400#. Ave IR 4.2 BPM. Job just now finished. Now nipping up tree & prep to flow.
- 3-16-75 Day 66. SITP 1 hr & 20" after treatment was 3650#. Opened to pit, unloading load wtr and N<sub>2</sub>. FTP decreased to 0# in 1 hr. Flowed an additional 1 hr by heads and died. Have recovered an estimated 50 BLW. RU Nowsco & ran Nowsco tbg to 12,040' unloading wtr from tbg. POOH & RD Nowsco. Started flowing gas @ est rate of 25 MCFGPD w/0# FTP. Rate remained steady throughout night.
- 3-17-75 Day 67. SI @ 7:45 AM 3-16-75 for buildup. Surface TP 170# @ 8:45 AM, 205# @ 9 AM, 245# @ 9:15 AM, 280# @ 9:30 AM, 320# @ 9:45 AM. Opened to pit on 3/4" ck. Blew down in 6 min. Installed 2" orifice well tester on flow line w/1/2" plate. FARG 44 MCFGPD for 3 hrs. Decreased to 40 MCFGPD last 1/2 hr. Worked 18# mud in frac tank. Transferred 125 bbls to rig mud tanks & cut w/200 bbls fresh wtr. Mixed 75 sax gel & 5 sax of no-oxygen & 35 gal aquatech. Mud was 11.4#, vis 52, 50,000 PPM chlorides. Ran Otis wireline & opened sliding sleeve above pkr. Displaced hole w/11.4# mud. Released rig @ 1:30 AM MDST 3-17-75. Spent 2 1/2 hrs flowing well, 2 hrs w/well SI, 6 hrs conditioning mud, 4 hrs w/Otis slick line, 5 hrs displacing hole w/11.4# mud.

ILLEGIBLE