

Humble Oil & Refining Company, Box 2347, Hobbs, New Mexico

Abo Chalk Bluff Draw Unit No. 20, Empire Abo Field, Eddy County, New Mexico

The well was drilled to a total depth of 5970' & found to be dry.

Spudded 11" hole at 1:30 P.M., 11-17-60. Ran 1502' 8 5/8 csg set at 1516' w/800 sx reg neat cmt. Cmt circ.

Finished drilling at 6:30 P.M., 12-7-60. Ran electric logs.

Ran 5940' 4 1/2" csg set at 5954 w/800 sx reg 12% gel cmt. Cmt did not circ. Top of cmt at 1350' by temp survey.

Treated water in csg with 200% caustic soda.

Perforated 4 1/2" csg 5812-5826 w/2 shots/ft. Acidized perfs 5812-5826 w/5000 gallons acid, avg inj rate 4.5 BPM. Swabbed dry. Waited one hr, fluid rose to 300', rec 7 bbls oil & 30 bbls wtr. On 9 hr swb test, rec 32 bbls fluid (acid wtr), fluid level at 3000'. On 9 hr swb test, rec 20 bbls acid wtr. Swabbed dry. Ran Baker CI plug on wire line, set at 5780' w/10' cmt on top. Perf 4 1/2" csg 5672-5682, 5690-5696 & 5702-5716' w/2 shots per ft. Acidized perfs 5672-5716 w/10,000 gals 15% acid, avg inj rate 15.6 BPM. On 3 hr swb test, rec 64 bbls acid wtr. On 6 hr swb test, rec 61 bbls acid wtr. Swabbed dry. Swbd 6 hrs, rec 4 bbls acid wtr. Set Baker CI plug at 5635' w/10' cmt on top. Perf 4 1/2" csg 5526-5534, 5548-5562 w/2 shots per ft. Acidized perfs 5526-5562' w/6000 gals 15% HCL acid. Avg inj rate 4.2 BPM. On 8 hrs swb test, rec 76 bbls acid wtr. Swabbed 9 hrs, rec 70 bbls load & acid wtr. Swabbed dry. Swbd 10 hrs, rec 33 bbls acid wtr. Swabbed 8 hrs, rec 21 bbls sulphur wtr w/slight acid taste. Swabbed 6 hrs, rec 21 bbls sulphur wtr. Ran Western Company Radioactive Tracer Survey, found bac cmt job above & below perfs 5526-5534 & 5548-5562. Ran Howco mag cmt retainer & set at 5493'. Squeezed perfs from 5526-5534, 5548-5562 w/150 sx reg neat cmt. Reversed out 25 sx. Drilled cmt retainer at 5493 & cmt to 5600'. Perf 4 1/2" csg 5526-5534 & 5548-5562 w/2 shots per ft. Swbd well dry. Acidized 5526-5562 w/6000 gals 15% HCL acid, avg inj rate 4.7 BPM. Flowed & swbd 70 bbls acid wtr in 3 hrs. On 9 hr swb test, rec 68 bbls acid & sulphur wtr. Swbd 9 hrs, rec 55 bbls sulphur & salt wtr. On 9 hr swb test, rec 62 bbls sulphur & salt water. On 9 hr swb test, rec 45 bbls sulphur water.

Spotted plug from 5600-5400' w/75 sx neat cmt. Pulled tubing, Xmas tree & wellhead. Installed 4" x 2" XH Swage & 2" gate valve. Well temporarily abandoned 1-14-61.