

J. Glenn Turner Heirs

DAILY DRILLING SUMMARY

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J. Glenn Turner Heirs #1 Federal 28  
SE/4 SE/4, Sec. 28, T30N-R9W  
San Juan Co., New Mexico  
Dakota Test - P.B.T.D. 7036 ft.

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10/25/81 Shut down for Sunday.

10/26/81 PBD 7036. Set RTTS packer @ 6920' w/tail pipe @ 7015'. Spot 1000 gal. 15% HCl. Treat Dakota perms 6991-7015'. BD @ 750 psi., 8 B/M @ 4000 psi. ISIP 700 psi. Pulled tubing and packer. Sand-gel water frac w/Halliburton. Established Injection rate w/12,000 gal pad at 20 BPM @ 2350 psi. Treated w/60,000 gal gelled water, 120,000 # 20/40 sand @ 1 to 4 lb/gal. concentration. Flushed w/ 51 80 gal gel. Average treating rate 19.7 B/M @ 2200 psi. Range of treating pressure 2020-2380 psi., rate 19.3 to 20.3 B/M. ISIP - 1400 psi, in 15 min 1110 psi. Rigged up lubricator, set Baker PC plug by Blue-Jet @ 6925'. Pressure test plug to 3500 psi. Perf by Blue-Jet @ 6882, 85, 88, 91, 94, 97, 6900, 03, 06, 08 - (10 shots of 0.45" jets). Start in hole with packer to acidize perms.

10/27/81 PBD 7036'. Ran and set RTTS packer @ 6811'. Tail pipe @ 6903'. Spotted 1000 gal 15% HCl. Breakdown perms @ 6882-6903'. Breakdown pressure 2800 psi injected @ 0.2 bbls/min @ 3180 psi. ISIP 1050 psi. Rigged up and sand gel water frac by Halliburton. Initial injection rate 12,000 gal gel, 20 bbl/min @ 2930 psi. Treated 60,000 gal gel water, 120,000# 20/40 sand @ 1 to 4 lb/gal concentration. Treatment pressure 2500-3100 psi. Average 18.3 bbl/min 2850#. Finished with 2940 gal. ISIP 1740 psi, 15 min 1220 psi. Well shut in for night to stabilize.

10/28/81 PBD 7036'. BP @ 6925'. After 17 hrs. - WHSIP 150#. Opened well, bled back, went in with 2 3/8" tbg. & mill. At 3890' started unloading frac fluid w/ nitrogen at 1800 psi. Gel not completely broken. Went down to 5457' and continued unloading w/1900 psi, then stopped @ 6236' w/ 1400 psi, where had 1st gas show. At 6820 had 6 ft. gas flare through on 2" line. Too wet to gage. Well flowed over night on two 2" lines, unloading fluids good. Will continue unloading until hole cleans up, take gauge on upper zone and drill bridging plug to clean out lower zone.