

1980' FNL, 530' FNL, Sec. 15, Twp. 28N, Rge. 13W, San Juan County, New Mexico. Elevation 6060' ground level, 6067' RKB.

11-19-61 Spudded in 12 $\frac{1}{2}$ " hole.

Drilled to TD 170' RKB. Set 5 joints 155' of 8-5/8" OD 24# J-55 casing at 165' RKB with 150 sacks cement, 2% calcium chloride, circulated. Plug down 8:00 AM.

12- 1-61 Drilled to TD 5900'. Logged well. Ran 185 joints 4 $\frac{1}{2}$ " OD 10.5# J-55 casing set at 5900'. Cemented first stage with 150 sacks. Plug down 8:00 AM.

1:00 PM Set DV tool at 1980'. Cemented second stage with 150 sacks.

Used 5 Baker centralizers at 5890', 5826', 5771', 5706', 5644'. 7 Baker scratchers, one on shoe joint, three each in sand sections.

12- 2-61 Drilled out stage collar and washed to bottom. Left tubing in hole. Released rotary at midnight.

12- 4-61 Moved in rod and tubing unit.

12- 5-61 Pulled tubing. Perforated 5805-15' and 5742-52' with 4 shots per foot. Sand-oil treated using two Halliburton HT-400 trucks and one 70-barrel blender. Treated with 32,800 gallons crude oil mixed with 2000# Adomite Mark II and 30,000# 20/40 sand and 5,000# 10/20 sand. Dropped 20 balls after 25,000# sand. Flushed with 4200 gallons. Average overall injection rate 27.7 barrels per minute. Breakdown pressure 3400#, broke to 1500#. Average treating pressure before balls 2600#, after balls 2900#. Minimum treating pressure 2500#. Instantaneous shut-down pressure 1500#, 5-min. SIP 800#. Total load oil 1069 barrels. Left well shut in.

12- 6-61 Went in hole with tubing. Found top of sand at 5790'. Attempted to circulate out sand. Losing circulation.

12- 7-61 Tubing plugged with sand. Swabbed tubing dry. Pulled tubing. Went back in hole with tubing. Found top of sand at 5788'. Circulated down 45' to 5833'. Lost circulation at this point. Could not circulate on to PBD.

12- 8-61 Pulled tubing. Found 3 joints full of sand, plugged with piece of rubber. Ran tubing back to bottom.

12- 9-61 Swabbed 87 barrels load oil. CP zero.

12-10-61 Swabbed 90 barrels load oil. CP 20#.

12-11-61 Swabbed 59 barrels load oil in 11 hours. CP 200#.

12-12-61 Unable to get equipment started (temperature -12°).
Swabbed 4x7 47 barrels load oil. Fluid level 1200'.

12-13-61 Swabbed and flowed 62 barrels load oil.

12-14-61 8:00 AM CP 560#, TP 100#. Opened well. Pulled swab three times. Well started flowing on 10/64 chokes. CP 350#, TP 200#.

Swabbed 67 barrels load oil.

12-15-61 7:00 AM CP 590#, TP 120#. Shut well in to pressure up.

12-18-61 8:00 AM CP 680#, TP 180#. Opened well. Well would not flow. After 10 minutes CP 680#, TP zero. Shut well in. Released rig.

12-26-61 Rigged up pulling unit. Connected flow lines to tank battery. Well swabbed 47 barrels oil in 4 hours.

12-27-61 Swabbed 45 barrels oil in 8 hours.

12-28-61 Swabbed 87 barrels oil in 10 hours.

12-29-61 Swabbed 78 barrels oil in 10 hours.

12-30-61 Swabbed 80 barrels oil in 10 hours.

12-31-61 Swabbed and flowed 78 barrels oil in 10 hours.

1- 1-62 Flowed 70 barrels oil in 10 hours.

1- 2-62 Rigged down pulling unit.

1- 3-62 Flowed by hand. Flowed 15 barrels in 3 hours.

1- 4-62 Flowed 16 barrels in 5 hours.

1- 5-62 Hooking up flow lines to separator and battery.

1-19-62 Moved in and rigged up pulling unit. Ran paraffin
knife. Commenced swabbing 1:00 PM.
Swabbed 37 barrels load oil in 5 hours.

1-20-62 Flowed 65 barrels in 5 hours. CP 540#, TP 300#.

1-21-62 Flowed 21 barrels in 22 hours.

1-22-62 Flowed 65 barrels last 24 hours. 17 barrels balance
of load, 48 barrels new oil.

1-23-62 Flowed 55 barrels oil last 24 hours.

2-12-62 Potential Test: 48 BOPD.