

December 12, 1973

Drilling and Completion Record

Lone Star Industries - Schalk 49-2

Drilling Contractor - Arapahoe Drilling Company
Rig 3 - Pusher Jack Murphy

Location - 850' FSL 1765' FEL Section 23 T-30N R-4 W

County - Rio Arriba, New Mexico

Zone - Pictured Cliffs

Casing - 8-5/8 surface at 183'
2-7/8 production string @ 4486 cemented w/350 sx
Halliburton light, followed w/100 sx 50-50 poxm. mix.
Cemented 14' off bottom w/TD 4500. Plug down
6:50 AM Dec. 3, 1973.

Hole size: 7-7/8 below surface to 3998, 6½ to 4406,
6¼ to 4500

Logs: Schlumberger Compensated Formation Density Log with
Gamma Ray
Schlumberger Compensated Neutron-Formation Density
Log w/ Gamma Ray.
These logs run from TD to surface.

Completion: Go International Perforated 4036-4054, 4060-4074
4124-4130, 4254-4260 4270
Frac - Halliburton - 720 sx
Broke 2500#

1st Stage 3/4# sd/gallon 28 bbl/min at 3500#
Increased to 1#/gal pressure went to 3800#.

2nd Stage Dropped 15 balls at 40,000 gallons
Little or no ball action.

3rd Stage Dropped 15 balls at 50,000 gallons, no
ball action rate 28 bbl/min @ 3800#.

4th Stage Dropped 15 balls at 60,000 gallons, no
ball action, 28 bbl/min @ 3800#.

Total Sand 72,000#
Total frac fluid 71,280 gallons
Shut in pressure 750#
15 min 600.

Well started unloading after about 16 hrs swabbing.

