

Ran 2" tbg. set @ 3740' w/packer @ 3390'. Displaced hole w/oil. Acidized w/5000 gal. MIST acid, max. press. 2700#, broke to 2000# & treated @ 4.1 bbls/min. Total load 91 BO, 120 bbls. acid water. Ran 1 1/2 jts. 3" tbg. set @ 3421' w/SOS packer @ 3390'. Established injection rate 13 bbls/min. w/oil. Started frac 20,000 gal. lse crude @ 20,000# w/1/10# adomite/gal. in formation @ 2200# pressure can't to climb, then 9,000 gal. lse. crude & 9,000# sand in formation press. was 6500# & injection rate was 1/2 bbls/min. Shut down reversed out, pulled 3" tbg. Ran 2" tbg. set @ 3719' w/packer @ 3214'. Circulated hole clean, lost circ. Set packer & prep. to swab. Total load 347 BO, 120 BW (acid job & frac job). Swab until 169 BLO to recover. 10 3500' dolomite & sand, PB 3796'. Drlg. cement @ 3516'. Pulled 2" tbg. & packer. Ran 2" tbg. @ 3370'. Pumped into formation 5 bbls/min. @ 600#. Pumped 100 sax reg. cement (last 50 sax mixed w/floccule), expanded perf. 3720-3746' to 5000#, 65 ax in formation, left 25 sax in reg. Reversed out 10 sax. Pulled 2" tbg. & squeeze tool, WTC, 8 hrs. Went in hole w/2" tbg. & 3/4" bit, drlg. cut cement to 3406 (top of liner) pulled tbg. & bit. Went in hole w/2" tbg. & 3 3/8" bit, drlg. cement to 3516'. Drilled out to 3718'. Displaced hole w/oil, pulled 2" tbg. Perf. 3687-3702', 3706-3716' w/4 jets/ft. (100 holes). Ran 3" tbg. set @ 3421 w/Brown SOS frac packer @ 3390'. Sand frac'd w/1,500 gal. lease crude, w/1/20# adomite/gal., 15,000# sand, max. press. 3800# @ 16.7 bbls/min. Total load 305 BO. Pulled 3" tbg. & packer. Ran 1 1/2 jts. (3677.91') 2" tbg. set @ 3687' w/Hookwall packer @ 3214'. Swabbed well, started flowing. Killed well w/oil, pulled 2" tbg. Perf. 3566-3598, 3610-3640, 3646-3652, 3656-3660, 2 jets/ft. (72' = 144 holes). Ran 3" tbg. w/Brown SOS treating packer. Tbg. set @ 3421', w/packer @ 3390'. Sand frac w/10,000 gal. lease crude w/1/20# adomite/gal., 15,000# sand & 250# moth balls ahead. Total load 375 BO. Well back flowed so that it had to be killed w/50 bbls. water, pulled 3" tbg. Perf. upper Yates & Tanzil 3416-3423', 3426-3434', 3438-3536' (123'; 246 holes) w/2 jets/ft. Ran 2" tbg. w/straddle packer. Used 75 bbls. water to keep well dead while pulling & running tbg. Swabbing load. Ran 2" tbg. w/straddle packers. Bottom packer @ 3556' and top packer @ 3376. Tested packer & pumped into formation @ 1200#. Ac/15,000 gal. XFM-38 acid, max. press. 3200# @ 8 bbls/min. Total load 160 bbls. acid, 50 bbls. water (210). Pulled tbg. & pkrs. Ran 2" tbg. to T.D. and circ. hole, clean w/water, displaced water w/oil, picked tbg. up and set @ 3412' w/Hookwall packer @ 3070'. Swabbed 47 BO, 16.5 BW, 9 hrs. Tbg. swabbed dry. Total load to recover, 620 BO, 285 BW. SI 1 hr. Pressure built up to 500#. Opened well up, started flowing. Flowed 24.8 BO cut 2" water, 16 hrs. 12/64" choke, FTP 175#, released rig @ 4:00 PM 3-1-58. Total 600 BO, 280 BW load to be recovered. Lowered tbg. 3-17-58 to 3692 w/Hookwall packer 3349'. Flowing on 32/64" choke, FTP 75#. March 28, 1958, well hooked up to sep., started selling gas to United Carbon. Flowed 3 BO, cut 15% BS&W, 14 hrs. 32/64" choke, FTP 70#, 430.6 MCF/day gas. 7-26-58 total load recovered.

Well is now producing gas from Jalmat Gas Pool, and selling gas to United Carbon Company, same as before workover.