

## HISTORY OF WELL

### CORING RECORD

Core #1 - Gallup - from 6428-79, cored and recovered 51' - from 6428-38 shale, dark gray to black, fossiliferous; 6438-48 laminated sand and shale; 6448-54.5 shale, dark gray to black, fossiliferous; 6454.5-79 sand, light gray, fine to medium grain, becoming more shaly from 6468-79. Good odor and stain from 6454.5-69. Vertical fracturing from 6454.5-79.

Core #2 - Gallup - 6479-6531. Cored 52', recovered 41', lost 11'. 6479-84 shale, very dark gray, silty; 6484-88 sand, gray, very fine grain, shaly, vertical fractures throughout, no show or odor; 6488-96 shale, dark gray, silty, last two feet sandy, vertical fractures from 90.5 to 98; 6496-6500 sand, gray, very fine grain, shaly, slight bleeding from 6496-6499.5; 6500-6504.5 sand and shale laminations; 6504.5-20 shale, dark gray, hard, very fossiliferous.

### DRILL STEM TEST RECORD

DST #1 from 6446-6531. Gas to surface in 11 minutes with continuous small blow throughout test. Gas TSTM. Tool open 6 hrs, shut in 30 minutes. Recovered 3810' fluid - 2610' GCM, 1200' GCM and water. ISIP 2853. IFP 572. FFP 1732. H.H. 3145. 30 minute SIP 2182.

DST #2 from 7319-7450 failed.

DST #3 from 7321-7450. Tool open 2½ hours, SI 30 minutes, gas to surface in 4 minutes and gauged 486 MCFD. After 2½ hours gauged 286 MCFD. ISIP 3130. IFP 125. FFP 100. FSIP 2520. HH 3730. Recovered 120' sli GCM and 120' distillate and GCM.

DST #4 from 7495-7517. Tool open 2 hrs and 49 minutes, SI 30 minutes, weak air blow throughout test. Recovered 410' GCM with top 50' slightly oil cut. ISIP 2687. IFP 85. FFP 235. FSIP 1945. HH 3875.

### CASING AND CEMENTING

Ran 65 fts 5½", J-55, 15.5# and 179 jts 5½" J-55, 14# casing; TE 7598.35 set at 7610' with Howco DV tool at 3181'. Cemented btm of casing with 425 sxs w/4% gel. Cemented 2nd stage through DV tool with 125 sxs regular. Closed DV tool w/2000 psi. Drld DV tool.

### COMPLETION

Perf DK with jets 7504-12 w/4 SPF. Perf GR with jets from 7392-85; 7360-52 and 7340-12 with 168 shots. Ran 2" tbg with packer set at 7486. Frac DK down tbg with 6080 gal oil and 3300# sand. BD 3000 psi to 1800 psi. Max press 4900 psi. Final press 4850 psi. I.R. 4.9 BPM. Swbd DK through tbg and recovered 126 BLO. Set Baker Model "D" bridge plug at 7480'. Frac GR with 50,000 gals water and 50,000# sand and 115 rubber balls. BD 1400 psi. Max and final press 2600 psi. I.R. 35.5 BPM. Well started flowing back when pressure released. Well flowed back till clean. Ran 2" tbg and set at 7504'. Broke tubing disc and released rig 3-14-59. Well SIFIP.