## Depth Interval

## Amount and Kind of Material Used

12,865-12,874'

Spotted and displaced after perforating 250 gals 10% acetic. Perforated Chester with 1-.40" holes (10 holes). Treated perforations with 2000 gals 15% Spearhead acid and nitrogen.

Ran CIBP and set at 12,840'.

12,771-12,773'

Spotted 250 gals 10% acetic. Perforated Morrow with 2-.40" holes (5 holes). Pumped 2 barrels acid away. Treated perforations with 1000 gals 7 1/2% MS acid with nitrogen pad.

Lowered packer to CIBP at 12,840 and pulled up to 12,320'.

12,312-12,318

Spotted 250 gals 15% MSA. Perforated Morrow with 1-.40" holes (7 holes). Displaced spot acid. Treated perforations (12312-12318' and 12771-12773') with 2000 gals 7 1/2% MS and nitrogen.

Set RBP at 12,410'.

Circulated 250 gals 10% acetic over perforations 12312-12318. Displaced spot acid. Lowered packer below perforations 12312-12318 and retrieved BP at 12,410.

Reset RBP at 10,207'.

10,086-10,097

Spotted 250 gals 15% DS30. Perforated Wolfcamp with 2-.40" holes (24 holes). Displaced spot acid. Treated perforations with 2500 gals 15% DS30.

Retrieved BP at 10,207'.

## Cement & Plugs

Capped CIBP at 12,840 with 35' cement. Set 5 1/2" OD CIBP at 12,280' and capped with 35' of cement. Set 5 1/2" OD CIBP at 10,060' and capped with 35' of cement.

35 sacks (150') Class C; set at 8090'; top at 7955'.

<sup>70</sup> sacks (240') Class C; set at 4970'; top at 4730'.

<sup>45</sup> sacks (150') Class C; set at 2062'; top at 1912'.

<sup>10</sup> sacks (35') Class C; set at surface.