

Getty Oil Company - State "BE" Well #1 - Frac Treatment

Frac Stage 1: 3636 to 3838 (22 holes) 500 gals. 15% NE acid, 4,000 gals. gelled fresh water pad; 40,000 gals. gelled fresh water and 40,000# 20-40 sand and 8 ball sealers. Avg. treating rate 20 BPM.

Frac Stage 2: (Selective perforations 3515 to 3587' - 10 holes. Could not break down @ 5,000# with acid spotted over perforations. Re-perforated same interval (10 holes) with more powerful jets. Broke @ 5400#. Treated with total of 1500 gals. 15% NE acid, 2,000 gals gelled fresh water pad; 37,400 gals. gelled fresh water with 30,000# of 20-40 sand; and 8 ball sealers. Avg. treating rate 21 BPM.

Frac Stage #3: (Selective perforations 3421 to 3463' - 9 holes) Broke @ 3600#. Treated with total of 500 gals. 15% NE acid, 2,000 gals. gelled fresh water pad, 30,000 gals. gelled fresh water, and 30,000# of 20-40 sand. Avg. rate 25.6 BPM.

Frac Stage #4: (Selective perforations 3203' to 3360' - 14 holes) Broke @ 2800#. Treated with 1250 gals. 15% NE acid, 2,000 gals. gelled fresh water pad, 30,000 gals. gelled fresh water, and 30,000# of 20-40 sand and 4 ball sealers. Average treating rate 26.5 BPM.

Frac Stage #5: (Selective perforations 2790 to 2934' - 9 holes) Broke @ 5,000#. Treated with 1,000 gals. 15% NE acid, 1600 gals. gelled fresh water pad, 31,800 gals. gelled fresh water, and 30,000# of 20-40 sand and 8 ball sealers. Average treating rate 22 BPM.

Frac Stage #6: (Selective perforations 2643-2745' - 14 holes) Broke @ 3000#. Treated with 1,000 gals. 15% NE acid, 2,000 gals. gelled fresh water pad, 50,000 gals. gelled fresh water, and 50,000# of 20-40 sand and 8 ball sealers. Average treating rate 24.6 BPM.

Frac Stage #7: (Selective perforations 2556' to 2587' - 10 holes) Broke @ 4300#. Treated with 1,000 gals. 15% NE acid, 53,868 gals. gelled fresh water, and 52,620# of 20-40 sand and 4 ball sealers. Average treating rate 21.3 BPM.

Set 2-3/8" tubing @ 3852'. Ran rods and pump.