UNION OIL COMPANY OF CALIFORNIA

A. J. CRAWFORD "B" 1-9

PROPOSED PLUGGING AND ABANDONMENT PLANS

Plug back work previously done to establish productivity:

Spotted 50 sx. cement plugs in 8-3/4" open hole from 9960-10,095' and 9559-9694'.

Set Baker bridge plug at 5746' in 9-5/8" casing and spotted 30 sx. cement plug in 9-5/8" casing from 5661-5746'.

Perforated interval 5260-64' and tested with no fluid recovery. Set Baker bridge plug at 4000' with calseal cap to 3995'.

Perforated interval 3920-38' and tested with no fluid recovery. Squeezed interval 3920-38' with 200 sx. 4% gel cement and drilled out to 3963'. Re-perforated interval 3920-38' and tested natural. Acidized perfs. 3920-38' and treated with 1000 gals. free flow treated crude and tested with no appreciable fluid entry.

Set bridge plug at 2276' with calseal cap to 2264'. Perforated intervals 2149-51', 2153-55' and 2163-76' and tested natural. Squeezed intervals 2149-51', 2153-55' and 2163-76' with 150 sx. 4% gel cement and drilled out to 2228'. Re-perforated interval 2163-76' and tested. Treated interval 2163-76' with 500 gals. mud acid, 2000 gals. treated diesel oil and 3000 gals. sand-frac. Tested for production on pump. Well subsequently treated with 112 bbls. lease crude and 20 gals. of Dowell free-flow.

Proposed plugging and abandonment procedure:

Spot 50 sx. cement plug in 9-5/8" casing at 2200-2070'. Cut and pull approximately 1200' 9-5/8" casing. Spot 30 sx. cement plug across casing stub.

Spot 30 sx. cement plug 340-298' across 13-3/8" casing shoe. Cut off 13-3/8" casing at base of cellar and spot 10' surface plug. Cement 4" marker pipe in top of 13-3/8" casing.

NOTE: Proposed plans as shown above are in accordance with verbal abandonment permission as granted by Mr. Gressett on May 21, 1959.

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