CABOT CARBON COMPANY

TELEPHONE MO-4-2581

P.O. BOX 1101 PAMPA, TEXAS

CABOT Carbon Black · Oil and Gas · Oil Field Pumping Equipment

HOBBS OFFICE OCC 1958 JAN 2 AM 10:27

November 22, 1957

Re: Application for Permit to Dually Complete as an Oil-Oil Well Cabot Carbon Company's H. L. Lowe "B" Well No. 1, King Devonian and King Wolfcamp Pools, Section 26, Township 13 South, Range 37 East, Lea County, New Mexico

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

By this letter, Cabot Carbon Company respectfully requests a hearing to consider this our application for permission to dually complete H. L. Lowe "B" Well No. 1 in such a manner that the Devonian and Wolfcamp reservoirs may be produced through parallel strings of tubing, and in support thereof states as follows:

1. Cabot Carbon Company's H. L. Lowe "B" Well No. 1 is located 467' from South line and 850' from East line of Section 26, Township 13 South, Range 37 East, Lea County, New Mexico.

2. The subject well has 5-1/2" casing set at 12,320' and cemented with 700 sacks. Top of cement at 8995'. The well was then drilled to a total depth of 12,437' and was later plugged back to 12,310'. The casing was perforated from 12,277' to 12,307' and the well was potentialed.

3. The subject well was placed on production from the Devonian reservoir on August 12, 1957. On the initial potential test taken August 9, 1957, the well flowed 312 barrels of 47° API corrected gravity oil in 12 hours on a 1/2" choke.

4. On a drill stem test taken June 26, 1957, in the Lower Wolfcamp formation from 10,115' to 10,191', the tool was open 100 minutes with gas to the surface in seven minutes and oil to the surface in fifty-five minutes. The well flowed 23 barrels of oil in thirty minutes. Reversed out all oil and gas. Recovered below the circulating sub 300' of salty sulphur water. The initial flow pressure was 1010 psi; the final flow pressure was 3160 psi; and the 30-minute shut-in pressure was 3920 psi.

5. We propose to perforate the 5-1/2" casing opposite the Lower Wolfcamp formation from 10,220' to 10,234', and conduct production tests through straddle packers. If not productive, the interval will be squeezed off.

6. We then propose to test the Lower Wolfcamp formation from 10,178' to 10,185' by perforating the 5-1/2" casing and conducting production tests through straddle packers.

7. If the Wolfcamp intervals are productive, we propose to set a temporary bridging plug at approximately 10,300' to separate the Devonian and Wolfcamp formations in the well bore. The Wolfcamp interval will be produced until the equipment for dual completion can be obtained.

8. After arrival of dual completion equipment, we propose to set packers at approximately 10,300' and 10,100' and produce each zone through 1-1/2" tubing.

9. We are attaching a plat showing the acreage to be dedicated to the well, well location, and offset ownership.

10. Also attached is a diagrammatic sketch showing the proposed mechanical completion of the well.

11. It is the opinion of the applicant that the manner and method proposed for the dual completion of this well is mechanically feasible and practical, and is in the interest of conservation and the protection of correlative rights.

12. The applicant will comply with all rules and regulations of the New Mexico Conservation Commission to maintain separation of production from the two producing pay zones.

13. By copy of this letter of application, all offset operators are notified of the proposed dual completion.

Respectfully submitted,

CABOT CARBON COMPANY

Harvey, Dow & Hinkle
P. O. Box 547
Roswell, New Mexico
(Attorneys for Applicant)

Enclosures: Pool Plat
Diagrammatic Sketch

cc: Gulf Oil Corporation
Atlantic Refining Company
Forrest Oil Corporation

DIAGRAMMATIC SKETCH
of
DUAL STRING COMPLETION
Proposed for
CABOT CARBON COMPANY'S H. L. LOWE "B" WELL NO. 1
Section 26, Township 13, Range 37 East
Lea County, New Mexico