

Subsequent Report of Hydrafrac, Keely C-4

Oct. 11, 1954

RECORD OF RECOMPLETION (Cont'd)

sand, then 71 bbls. breaker fluid. Flushed with 102 BO. Max. inj. press. 2300 psig; at end of flush 2300 psig, dropping to 1300 psig upon stopping pump. Total inj. time 33 min. Load oil to receiver 28 1/2 bbls (net incl. annulus).

RESULTS OF TREATMENT:

- 9- 6-54 After shut in 2 1/2 hrs, opened with 600 lbs. on tubing.
9- 7-54 Flowed 187 bbls. in 20 hrs.
9- 8-54 Flowed 96 bbls. in 2 1/2 hrs.
9- 9-54 Flowed 61 bbls. (NET 60 BO).
9-10-54 Flowed 50 BO.
9-11-54 Flowed 41 BO.
9-12-54 Flowed 38 BO stopcocking 4 - 3 hr. flows.
9-13-54 Flowed 33 BO stopcocking 4 - 3 hr. flows.
Pulled packer loose dumping 88 BO from annulus. Pulled 6 jts. tubing & reset straddle packer from 2506 back to 2459 ft. Re-loaded annulus with 55 BO. Swabbed dry.

ACIDFRAC TREATMENT:

- 9-14-54 After standing 16 hrs, ran swab & rec. 10 ft. of oil from 2-1/2" EUE. Acidised with 1,000 gals. 20% HCl. Max. inj. press. 1850 psig; at end of flush 1500 psig. Total inj. time 23 min. Flushed with 14.5 BO. Swbd. oil flush & acid water.
9-15-54 After standing 16 hrs, swbd. 50 ft. of oil from 2-1/2" EUE tubing. Fractured as follows: 500 gals. MCA; 1,000 gals. acidfrac containing 1 lb. sand per gal; 1,000 gals. with 1-1/2 lbs; 1,000 gals. with 2 lbs; then 500 gals. MCA. Flushed with 15 BO. Max. inj. press. 3400 psig; at end of flush 2000 psig, dropping to 1200 psig 10 min. after stopping pump. Total inj. time 22 min. Swbd. oil flush & acid water.

RESULTS OF TREATMENT:

- 9-16-54 After shut in 16 hrs, ran swab & found 600 ft. fluid in tubing. Swbd. down and ran swab 1 time each hour, rec. 25' emulsion each pull.
9-17-54 After standing 15 hrs, ran swab & rec. 400 ft. of oil slightly out with gel & acid water. Pulled packer loose dumping 55 BO from annulus. Pulled tubing, started swabbing casing. Fluid level at 1,000 ft. Load oil to receiver, 14 1/3 BO.
9-18-54 Swabbed 9 1/2 bbls. in 6 hrs.
9-19-54 Swabbed 4 1/3 bbls. in 6 hrs.
9-20-54 Swabbed 16 bbls. in 2 hrs. Re-ran 2" EUE tubing & recs. Pumped 9 BO in 16 hrs. (NET 19 BO this zone).

SUBSEQUENT TESTS:

- 9-26-54 Pumped 26 BO.
9-27-54 Pumped 2 1/2 BO.
9-28-54 Pumped 2 1/2 BO.

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the study and the objectives of the research.

2. Methodology

The methodology section describes the research methods used in the study. It includes a description of the sample, the data collection methods, and the statistical analysis techniques used.

The results section presents the findings of the study. It includes a description of the data, the statistical analysis results, and the interpretation of the findings. The results are presented in a clear and concise manner, using tables and figures where appropriate.

The conclusion section summarizes the main findings of the study and discusses the implications of the results. It also includes a discussion of the limitations of the study and suggestions for future research.

References

The references section lists the sources of information used in the study. It includes a list of books, articles, and other sources that have been consulted during the research process.

The appendix section contains additional information that is not included in the main body of the report. It includes a list of tables and figures, and a description of the data used in the study.