

Attachment C-103

Gulf Oil Corporation, Mark # 3, Section 3, 22-S, 37-E, Lea County, New Mexico

one 8' tubing nipple, one SN, 14 joints of 2-3/8" tubing, Baker seal assembly and receptacle. Tested casing, packer and tail pipe with 1000#. OK. Pulled 2-3/8" tubing and Baker receptacle. Perforated 7" casing 5840-42', 5809-11', 5784-86', 5774-76', 5736-38' and 5711-13' with 4, 1/2" JHPF. Ran 3-1/2" frac tubing with Baker BP and FB packer, set BP at 5872', packer hanging at 5830'. Spotted 500 gals 15% NE Acid down 3-1/2" tubing over 7" casing perforations 5842 to 5711'. Set packer at 5671'. Squeezed acid into formation. Formation broke down at 3600#. Frac treated Blinberry perforations 5842-5711' with 24,000 gals 24 gravity refined oil with 1/40# Adomite M-11 per gallon and 1 to 3 # SPG in 6, 4000 gals stages with 9, 7/8" RCNE sealers after each of first five stages. MP 6000#, min 5200#. Flushed with 52 BO. Swabbed and kicked off. Flowed 171 BO, 0 water 3-1/2" tubing, 20/64" choke in 12 hours. Killed well with 60 bbls mud. Pulled 2-3/8" tubing, drill collars and bit. Ran 2-3/8" tubing with Baker BP retrievable head. Circulated 6' of sand off BG. Pulled tubing and BP. Ran 2-3/8" tubing (long string) with Baker receptacle. Latched into packer and landed tubing with 11,000# tension. Ran 2-3/8" tubing, (short string) and latched into parallel anchor and landed with 7000# tension. Placed both Zones on production.

1. The first part of the report is a general introduction to the subject of the study.

2. The second part of the report is a detailed description of the methods used in the study.

3. The third part of the report is a presentation of the results of the study.

4. The fourth part of the report is a discussion of the results of the study.

5. The fifth part of the report is a conclusion of the study.

6. The sixth part of the report is a list of references.

7. The seventh part of the report is an appendix.

8. The eighth part of the report is a glossary.

9. The ninth part of the report is a list of figures.

10. The tenth part of the report is a list of tables.