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# **NEW MEXICO OIL CONSERVATION COMMISSION** **MISCELLANEOUS REPORTS ON WELLS**

**FORM C-103**  
(Rev 3-55)

(Submit to appropriate District Office as per Commission Rule 1106)

|   |                      |   |                       |                        |                      |  |  |
|---|----------------------|---|-----------------------|------------------------|----------------------|--|--|
| Name of Company<br><b>Shell Oil Company</b>       |                      | Address<br><b>P. O. Box 1858, Roswell, New Mexico</b> |                       |                        |                      |  |  |
| Lease<br><b>State JM</b>                          | Well No.<br><b>2</b> | Unit Letter<br><b>B</b>                               | Section<br><b>2 -</b> | Township<br><b>25S</b> | Range<br><b>37E</b>  |  |  |
| Date Work Performed<br><b>6-23-62 thru 8-1-62</b> |                      | Pool<br><b>North Justis-Fusselman</b>                 |                       |                        | County<br><b>Lea</b> |  |  |

**THIS IS A REPORT OF: (Check appropriate block)**

- ☐ Beginning Drilling Operations    
 ☐ Casing Test and Cement Job    
 ☒ Other (Explain): **Completion**  
☐ Plugging    
 ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

1. Ran tubing to 7250', displaced water w/lease oil, pulled tubing.
2. Perforated Fusselman 7153' - 7157', 7167' - 7174', 7181' - 7183', 7189' - 7191', 7196' - 7199', & 7202' - 7204' w/1 JSPP (20 holes).
3. Perforated Devonian 6996' - 7002', 7024' - 7030' & 7050' - 7058' w/1 JSPP (20 holes).
4. Ran 2" tubing w/Baker RBP at 7235' & FCRC, packer set at 7126', established communication between Devonian and Fusselman.
5. Dumped 161 gallons sand in casing. Filled casing to 7156' (97" fill)
6. Ran Baker FBRC on 2 1/2" tubing to 7154', set FBRC at 7116', tubing at 7154'.
7. Spotted 50 sx. Class A + 4% gel at bottom of tubing, set packer. Pumped 15 sx. cement into perforations and squeezed into formation, held 500 psi on casing and pumped remaining 50 sx. Released pressure, unseated packer, pulled 2 1/2" tubing.
8. After WOC ran 6 1/4" bit on 2 1/2" tubing, top cement at 6861'. Drilled soft cement 6861' - 6921', solid cement 6921' - 7044', no cement 7044' - 7054', solid cement 7054' - 7135'. Pulled tubing and bit.
9. Perforated 7" casing 7127' - 7128' w/4 JSPP.

(Continued on attached page)

|                                     |                                       |                                     |
|-------------------------------------|---------------------------------------|-------------------------------------|
| Witnessed by<br><b>H. B. Brooks</b> | Position<br><b>Production Foreman</b> | Company<br><b>Shell Oil Company</b> |
|-------------------------------------|---------------------------------------|-------------------------------------|

**FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY**

**ORIGINAL WELL DATA**

|                        |              |                        |                    |                 |
|------------------------|--------------|------------------------|--------------------|-----------------|
| D F Elev.              | T D          | P B T D                | Producing Interval | Completion Date |
| Tubing Diameter        | Tubing Depth | Oil String Diameter    | Oil String Depth   |                 |
| Perforated Interval(s) |              |                        |                    |                 |
| Open Hole Interval     |              | Producing Formation(s) |                    |                 |

**RESULTS OF WORKOVER**

| Test            | Date of Test | Oil Production BPD | Gas Production MCFPD | Water Production BPD | GOR Cubic feet/Bbl | Gas Well Potential MCFPD |
|-----------------|--------------|--------------------|----------------------|----------------------|--------------------|--------------------------|
| Before Workover |              |                    |                      |                      |                    |                          |
| After Workover  |              |                    |                      |                      |                    |                          |

|                                    |  |   |  |
|------------------------------------|--|---|--|
| <b>OIL CONSERVATION COMMISSION</b> |  | I hereby certify that the information given above is true and complete to the best of my knowledge. |  |
| Approved by                        |  | Name  | <b>M. E. Harrell</b>                         |
| Title                              |  | Position  | <b>Acting District Exploitation Engineer</b> |
| Date                               |  | Company   | <b>Shell Oil Company</b>                     |

10. Ran Baker Model K CICR on wireline to 7120', set Baker stinger on 2 1/2" tubing 7120' w/15,000# wt on seal. BD perforations 7127' - 7128' at 4600 psi to 8100 psi. Failed tubing. Pumped 20 sx. Class A + 2% gel into formation, pressured increased to 3200 psi. Shut in 3 minutes. Increased pressure to 4600 psi. Cement did not move. Released pressure and retainer valve held ok. Released casing pressure and pulled tubing. Removed Baker seal.
11. After WOC ran 2 1/2" tubing w/6 1/8" bit, found cement at 7116'. Drilled solid cement 7120' - 7158'. Washed sand 7158' - 7253'. Pulled tubing and bit.
12. Perforated Fusselman 7153' - 7157' w/1 JSFF (4 holes).
13. Perforated Devonian 6996' - 7002', 7024' - 7030', 7050' - 7058' w/1 JSFF (20 holes).
14. Ran Baker FB packer and retrievable BP on 2 1/2" tubing, BP at 7211', packer at 7135'.
15. Treated Fusselman w/500 gallons 15% BDA + 1500 gallons 15% NEA.
16. Raised packer to 7090', still had communication.
17. Reset packer at 6934', BP at 6939', unable to hold pressure on tubing. Pulled tubing, BP and packer.
18. Ran new Baker retrievable BP, FB packer on 2 1/2" tubing w/2 1/2" seating nipple in top
19. Pumped down tubing at 800 psi and circulated thru casing - full circ. Lowered packer to 7220', pressured tubing to 3000 psi/10 minutes/no drop in pressure. Reset BP at 7140', packer at 7090'. Pumped thru squeezed perforations w/full circ at 800 psi TP. Pulled packer and BP.
20. Dumped 2200# 10 - 20 sand down casing (100' fill in 7" casing).
21. Checked bottom at 7164', dumped sand, plugged back to 7151'.
22. Set Baker retainer at 7095' on wireline. Ran Baker seal stinger on 2 1/2" tubing to 7085', set stinger in retainer, circulated thru squeezed perforations for 5 minutes w/water. Resqueezed perforations w/35 sx. neat cement 16#/gallon at 2 B/M at 2300 psi. Pulled stinger and tubing.
23. After WOC 24 hours drilled cement stringers 6976' - 7091', 4' solid cement on top of plug. Drilled cement retainer to 7151'. Cleaned out to 7159'.
24. Set CIBP on wireline at 7078'.
25. Ran FBRC on 2 1/2" tubing to 6960'. Squeezed w/120 sx. Class A Neat cement at 15.5#/gallon at 3800 psi. Pressure had no bleed back. Pulled tubing and FBRC.
26. Drilled BP and circulated hole clean to 7251' FBTD.
27. Ran Sweet HD-200 packer and Sweet HHD w/2 1/2" 3N in top of holddown on 2 1/2" tubing to 7140', set packer w/15,000#.
28. Pumped down tubing and circulated thru casing at 1000 psi. Pressured casing to 1500 psi 10 minutes/no drop. Reset packer at 7233' w/25,000# (below all perforations). Pressured casing to 150 psi, pressured tubing to 1500 psi. Pressure increased to 450 psi on casing. Tubing pressure dropped to 650 psi. Repressured tubing to 1250 psi. Casing pressure increased to 650 psi in 5 minutes. Tubing pressure dropped to 750 psi. Dropped standing valve in tubing. Pressured tubing to 1500 psi/15 minutes/no drop. Reset packer at 7138' w/30,000#. Pressured casing to 250 psi and tubing to 1250 psi. Casing pressure remained at 250 psi for 10 minutes. Tubing pressure bled to 700 psi (to lower perforations). Pressured tubing to 1350 psi and formation started taking fluid. Opened casing and bled pressure to zero. Had no fluid returns thru casing w/TP at 1000 psi. TP 1000 psi and casing open 40 minutes tubing pressure bled to 590 psi w/no returns thru casing. Reset packer at 7094', pressured tubing to 1000 psi, full casing returns. Pulled tubing and pkr.
29. Ran Baker FBRC on 2 1/2" tubing, set packer at 7095'. Pumped down tubing at 1250 - 1300 psi w/casing loaded and open. No communication.
30. Fusselman swabbed dry.
31. Treated Fusselman w/2000 gallons 15% BDA.
32. Perforated Devonian 6996' - 7002', 7024' - 7030', 7053' - 7057' w/1 JSFF (16 holes).
33. Ran 2 1/2" tubing to 7057' w/packer at 6976'.
34. Treated Devonian w/500 gallons 15% BDA.
35. Swabbed dry.
36. Treated Devonian w/3000 gallons 15% BDA

37. Swabbed dry.
38. Lowered BP to 7210', set packer between Fusselman and Devonian perforations at 7103' and pumped lease oil down tubing and circulated thru casing, full circ at 250 psi. Reset packer at 7091', pumped lease oil down tubing, circ full at 300 psi. Pulled tubing, packer and BP.
39. Poured 4200# 8-12 Mesh sand into hole to fill casing above squeezed perforations at 7128'. Sand fill at 7118'.
40. Ran Baker FBC on 2 1/2" tubing to 6936'.
41. Pumped into formation (Devonian perforations 6996' - 7058') w/water. Squeeze cemented formation w/78 sx. regular neat at 3150 psi.
42. Pulled FBC and 2 1/2" tubing.
43. Top of cement at 6939'. Drilled hard cement to 7109', drilled sand to 7251', circulated and cleaned hole. Pulled tubing and bit.
44. Hung 234 jts. (7230') 2 1/2", EUE, 8rd thd at 7240' w/16' 2 1/2" subs BPMA, perforations at 7221' - 7224', 2 1/2" seating nipple at 7220', 2 1/2" x 7" McGaffey Taylor Tubing anchor 7217' - 7220', 1 joint tubing above tubing anchor in 1-2' x 2 1/2" sub as flag for tubing anchor.
45. Ran 2 1/2" x 2' x 1 1/4" x 16' BTM HD pump w/1" x 10' dip tube on 210-3/4" & 77-7/8" rods and 2-4' x 7/8" slim hole couplings on 7/8" rods.
46. Installed pumping unit, hooked up electric motor.
47. In 24 hours pumped 122 BO + 1 BW w/12-74" SPM. Gravity 37.3 deg. API (Fusselman).