



00213267

Malco Refineries, Inc. AUG 12 1957
 #1 Federal Well
 Sec. 23-6N-90W

Details of Work:

1. Well was spudded at 5:30 A.M., June 18, 1957, 15 1/2" hole was drilled to 141'.
2. 10-3/4" casing was cemented at 141' K.B. measurement using 120 sacks construction cement with 2% CaCl₂. Circulation was complete and cement came to surface.
3. 9" hole was drilled to 6249'. 6-1/8" hole was drilled to 6652'. The following intervals were tested:
 - DST #1 1650-1705' initial shut in 15 minutes, open 1 hour, 5 minutes. No blow. Recovered 3' mud. Initial shut in 0 psig, initial flow 0 psig, hydrostatic head 732. No final shut in.
 - DST #2 1802-1840' initial shut in 15 minutes, open 1 hour, 15 minutes. Faint blow throughout test. Recovered 40' water. Initial shut in 180 psig, initial and final flow 0.00 - 0.01 psig, hydrostatic head 756 psig, no final shut in.
 - DST #3 3690-3865' initial shut in 15 minutes, open 1 hour, 12 minutes. Slight blow, dead in 12 minutes. Recovered 10' drilling mud. Initial shut in 0 psig, initial and final flow 0 psig, hydrostatic head 1780 psig. No final shut in.
 - DST #4 3888-3905' initial shut in 15 minutes, open 2 hours, 2 minutes, shut in 20 minutes. Fair blow, gas to surface in 18 minutes, diminishing blow to veryweak. Recovered 3345' of fresh water. Hydrostatic head 1925 psig, initial shut in 1425 psig. Both clocks stopped, misrun.
 - DST #5 3329-3344' initial shut in 16 minutes, open 2 hours, 30 minutes, shut in 22 minutes. Fair blow, diminishing. Recovered 2018' of fresh water. Initial shut in 1450 psig, initial flow 25 psig, final flow 835 psig, final shut in 1428 psig, hydrostatic head 1925 psig.
 - DST #6 4520-4663' initial shut in 15 minutes, open 4 hours, 30 minutes, shut in 30 minutes. Gas to surface in 13 minutes, estimated at 15-20 MCF per day, declined to 10-15 MCF per day in 20 minutes. Recovered 238' fluid, 148' highly gas cut mud, 90' slightly oil cut mud and highly gas cut mud. Initial shut in 692 psig, initial flow 65 psig, final flow 105 psig, final shut in 652 psig, hydrostatic head 2274 psig.
 - DST #7 6205-6249' initial shut in 15 minutes, open 2 hours, shut in 15 minutes. Strong immediate blow, gas to surface in 5 minutes, mud in 27 minutes, oil in 40 minutes. Turned to gauge tank for 80 minutes, flowed 60 barrels in 80 minutes. Initial shut in 2300 psig, initial flow 1500 psig, final flow 900 psig, final shut in 1065 psig, initial hydrostatic head 3270 psig, final hydrostatic head 3190 psig.
 - DST Misruns 6254-6302' could not enter rat hole. 6256-6325' packer failed, 6266-6370' no packer seat.
 - DST #8 6602-6652' initial shut in 15 minutes, open 2 hours, 36 minutes, final shut in 29 minutes. Light steady blow throughout test with occasional heads. No gas to surface. Recovered 422' gross rise, breakdown as follows: 120' of plain drilling fluid, 90' of slightly gas cut drilling fluid, 212' of slightly gas cut, oil cut drilling fluid. Initial shut in 3180 (mechanical defect?) psig, initial hydrostatic head 3366 psig, initial flow 105 psig, final flow 190 psig, final shut in 2025 psig, final hydrostatic head 3326'.
4. Schlumberger electric log and microlog were run at T. D. of 6652'. Instruments reached 6608'.
5. DST misrun 6468-6656' (four feet of additional hole drilled 6652-6656').
6. 6-1/8" hole was opened to 9" 6249-6300'.
7. 7" casing was run to 6296.91' below kelly bushing and cemented with 150 sacks of 50-50 cement-pozmix, treated with 2% gel and 38# of Halliburton flocele. Average slurry weight 13.6#/gallon, complete circulation throughout job. Top of cement at 5600' in annulus.
8. Completion details will be forwarded following completion and initial production gauges. Well is to be completed in Mancos-Niobrara (Tow Creek) zone.

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A. Mc. [Signature]

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