

P100 1/2

RECOMMENDED WORK PROCEDURE

WELL NO. 8

ASE Messulam Ridge

INJURAL FLUID PRIOR TO WORKOVER oil & water & gas W/O FLUID TO BE USED 2% KCl

WT. (LBS/GAL.) 8.43 ZONE Queen HYD. PRESS 2270 RES. PRESS N/A

ZONE _____ HYD. PRESS _____ RES. PRESS _____

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Please Notify M.E. Stalder 24 hrs before MRO @ 303-77617

1. MRO. NO Wellhead NU & test (EOP)
2. Release Model R-3 L3 PKR @ 8350'
3. Circulate hole w/ 2% KCL water. POH w/ pkr & tbg.
4. RIH w/ 5 1/2" 17# cief on wireline. Set @ $\pm$ 8350'. (collr log N/A)
5. Dump 3 sx ($\pm$ 25') on top of BP using dump bailer on WL. POH.
6. RIH w/ 4" decentralized casing gun and perf 4 jsprf @ $\pm$ 5370'. POH.
7. RIH w/ 5 1/2" 17# cmt retainer on 2 1/2" tbg. Set retainer @ $\pm$ 5350'.
8. Block squeeze w/ 150 sx Class C cmt w/ .3% Halad-4. 14.3 ppg. (144 sx behind pipe + 3 sx below retainer + 3 sx on top of retainer.)
9. Pull out of retainer after 147 sx have passed through. Cap cmt retainer w/ remaining 3 sx cmt.
10. Flush & circulate hole clean w/ 2% KCL water. POH w/ tbg.
11. Run a CBL - GR - CCL log strip from 4650' to 5220'. Report & resqueeze if necessary.
12. RIH w/ decentralized csg gun & perf the following intervals w/ 133PF:
 - 5260'-5268' 9 holes & 5280'-5288' 9 holes
13. RIH w/ 5 1/2" 17# treating pkr on 2 1/2" tbg. Set pkr @ $\pm$ 5200'.
14. Acidize Queen w/ 16000 gals 1 1/2% NEFE HCL @ 3-5 BPM, 4000 PSI. MSTP dropping 36 1.1 CG 7/8" KCMES (every bbl). Flush to bottom perf w/ 2%.
15. Obtain ISIP, 5, 10, 15 MSIP. Log pkr through pkr. Reset pkr @ 5200'.
16. Swab / flow well back. Recover load.
17. Frac Queen w/ 16,000 gals gelled water & 24,000 lbs 20/40 sd.
 - a) 4000 gals pad @ 15-18 BPM MSTP to be determined
 - b) 4000 gals gel w/ 4000 lbs sd 1.0 ppg
 - c) 4000 gals gel w/ 8000 lbs sd 2.0 ppg
 - d) 4000 gals gel w/ 12,000 lbs sd 3.0 ppg
18. Flush to top perf w/ 2% KCL water. Obtain ISIP, 5, 10, 15 & 30 MSIP. Leave shut-in overnight.
19. Swab / flow well back. Evaluate. If zone is not commercial set cief @ $\pm$ 5210 and dump 5 sx cmt on top of BP. If zone is commercial set KRP @ $\pm$ 5210 & dump sand on top.

(continued)