

Marathon Oil Company
Lou Worthan Well No. 20
Attachment to C-103 Subsequent Report
Shut-in Granite Wash and add pay to Abo
November 20, 1996

(SI 11-8-96)

1. MIRU. POOH with rods and pump. ND wellhead. NU BOPE. Release TAC and POOH with tbg.
2. RIH with 5 1/2" RBP and set at 7058'. Test RBP to 1000 psi. POOH.
3. RIH with 5 1/2" RBP and set at 7046'.
4. RU acid company. Pickle tbg with 700 gals 15% HCL. POOH w/tbg.
5. NU frac valve. RU wireline company. Perf Abo formation 6730-34', 6738-44', 6748-52', 6754-56', 6758-68', 6772-76', 6791-94', 6796-6800', 6802-05', 6824-32', 6846-50', 6856-64', 6868-72', 6880-84', 6886-90', 6944-46', 6952-56', 6964-71', 6976-84', 6990-92', 7020-22', 7028-31', 2 JSPF (244 holes). POOH. RD wireline.
6. TIH w/overshot and 5 1/2" pkr and set at 6906'. RU acid company. Acidize Abo perms from 6944-7031' with 5000 gals 15% HCL and 100 ball sealers for divert. Release pkr, RIH and retrieve RBP, moved uphole and set at 6906' set pkr at 6648'. Acidized Abo perms from 6730-6890' with 9500 gals 15% HCL and 200 ball sealers for divert.
7. Release pkr, RIH and released RBP and reset at 7046', reset pkr at 6648'. RD acid company. RU swab equipment and swab well. Flowed well back.
8. Kill well, released pkr and RIH to retrieve RBP at 7046'. Pull up hole and reset RBP at 6725'. Reset pkr at 6705' and tested RBP to 1000 psi. Rel pkr and POOH.
9. RU wireline company. Perf Abo formation from 6587-44', 6549-54', 6556-58', 6600-04', 6614-22', 6648-52', 6666-71', 6676-78', and 6700-03', 2 JSPF (120 holes).
10. RIH with retrieving head and 5 1/2" pkr. Set pkr at 6461'.
11. RU acid company. Acidized Abo perms from 6537-6703' with 8700 gals 15% HCL and 150 ball sealers for divert. RD acid company.
12. RU swab and swab well. Well kicked off flowing. Kill well. Release pkr and retrieve RBP. POOH with pkr and RBP.
13. RIH with production tbg to 6880'. ND BOP. NU wellhead. Send gas to sales line.