

WORKOVER PROCEDURE

MARK OWEN NO. 1  
1,980' FSL and 660' FWL  
Section 35, T-21-S, R-37-E  
Lea County, New Mexico

AFF NO.: 4706

Purpose: Dual complete by adding Paddock formation.

Elevation: GL: 3,381' TD: 6,650'  
KB: 3,392' PBTD: 6,295'

Casing: 5-1/2", J-55, 17#/ft @ 6,459'. Cmt w/600 sx.

Tubing: 2-7/8", J-55 @ 6,279'.

Current Perf: 5,925'-6,235' (Tubb)

Packer: @ 5,900' Baker Model R.

Safety:

- Run sufficient amount of tubing for a kill string during all shut-in periods.
- Estimated maximum surface pressure - 2,200 psi
- Burst pressure of workstring - 10,570 psi
- Maximum treating pressure - 5,000 psi @ surface

1. Inspect location, test safety anchors and replace if necessary.
2. MIRU pulling unit w/±5,200' of 2-7/8", N-80, 6.5#/ft workstring.
3. Kill well if necessary using 2% KCl.
4. ND wellhead and NU 6" Series 900 BOPs w/2-7/8" pipe rams on top and blind rams on bottom.
5. Test BOPs to 3,000 psi.
6. RU wireline company to perforate 5,065'-77', 5,086'-5,100', 5,142'-82', and 5,190'-5,212' @ 2 JSPF (Total 172 holes) with casing guns.
7. POOH w/perforating guns and RD wireline company.
8. PU and RIH with 2-7/8" workstring on a 5-1/2" treating packer and RBP w/ball catcher to ±5,300'. Set RBP w/ball catcher. PUH to ±5,250' and set packer. Test RBP. PUH and set packer @ 5,130'.
9. Drop standing valve and test tubing to 5,000 psi. Fish standing valve, RU stimulation company and acidize with 6,000 gal 20% HCl @ 5-6 BPM using 150 - 1.3 S. G., 7/8" ball sealers.
10. RD stimulation company. Swab back load and evaluate if Lower Paddock is economically producing.
11. Release packer and retrieve RBP. PU to ±5,135' and set RBP. PUH to 5,125' and test RBP. PUH and set packer @ ±5,000'.
12. RU stimulation company and acidize w/4,000 gal 20% HCl and 75 - 7/8" 1.3 S. G. ball sealers @ 5-6 BPM and 5,000 psi.
13. RD stimulation company and swab back load.
14. Kill well if necessary.
15. POOH with 2-7/8" workstring, treating packer, and RBP w/ball catcher laying down.