

MIDLAND E & P DIVISION

WELL WORK RECOMMENDATIONS

Proposals for Well Reconditioning and Subsurface Maintenance
Workovers, Expense DD's, PB's, and Conversions

Lease: Marshall Unit Well No. R
Field: Paddock
County: Len State: New Mexico

RECOMMENDED PROCEDURE:

1. Move in a pulling unit and pull production equipment. Test the casing 10,000 psi.
2. Deepen the well from 5140' (TD) to 5190'.
3. Break down the open hole (5126'-5190'-64') with 25000 Gals of 15% non-emulsion HCl acid. Treat at 3 to 5 RPM.
4. Fracture the Paddock formation (5126'-5190'-64') down the 5" casing with 25,000 Gals of 9.0 lbs/gal salt water and 40,000 lbs of 20-40 mesh Ottawa sand. All fracturing fluid should have the pH adjusted to between 5 and 7, and should contain the following additives:
20 lbs/1000 Gals of Guar Gum,
25 lbs/1000 Gals of Admille Aqua,
and 2 Gals/1000 Gals of Surfation 6L.
Treat at 50 RPM (estimated treating pressure = 2100 psi)
and use 700 lbs of Benzoic acid for selectivity.
Inject 125 lbs of Benzoic acid after each
5,000 Gals of fracturing slurry.

ILLEGIBLE