

MIDLAND PRODUCING AREA

WELL WORK RECOMMENDATIONS

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

Lease: Brunson-Argo Well No. 10

Field: Drinkard

County: Lea State: New Mexico

RECOMMENDED PROCEDURE:

1. Move in a pulling unit, pull the producing equipment, and clean the well out to 6600'.

2. Spot 500 gals of 15%, non-emulsion, HCl acidize at 6450' and perforate the following intervals in the Drinkard formation with 1 jet shot per plane:

6345'	6358'	6380'	6385'	6400'
6355'	6370'	6382'	6397'	6405'

Perforations were selected from Western's Cammatron log dated 8/17/59.

3. Run a 2" treating string, treating packer and a holddown. Set the packer at approximately 6300'.
4. Acidize the Drinkard perforations (6345' - 6559') (214' OA - 37 holes) down the 2" treating string with 2500 gals of 15%, non-emulsion, HCl acid. Treat at 3 to 5 bbls/min and inject a sufficient quantity of rubber-covered nylon ball sealers to obtain a complete ball-out. Approximately 60 ball sealers will be required.
5. Fracture the Drinkard formation (6345'-6559') (214' OA - 37 holes) down the 5 1/2" casing* with 30,000 gals of 9.0 lb/gal salt water and 30,000 lbs of 20-40 mesh Ottawa sand. Adjust the pH of the water to between 5 and 7. All the water should contain the following additives:

20 lbs/1,000 gals of Guar Gum,
25 lbs/1,000 gals of Adomite Aqua,
2 gals/1,000 gals of Surfatron 61.

*If the wellhead rated pressure falls below the estimated surface treating pressure of 3000 psi, run 3 joints of 3 1/2" frac tubing, treating packer and holddown and set packer. Frac thru 3 1/2" tubing & 5 1/2" casing.

Treat at 50 bbls/min (estimated surface treating pressure - 3,000 psi) and use 12 rubber-covered nylon ball sealers distributed evenly throughout the treatment for selectivity.

While injecting the last 20 percent of the propping agent (6,000 lbs) obtain a controlled screen-out by simultaneously reducing the injection rate and increasing the propping agent concentration. The injection rate should be