

Reed A-3 Federal #16

Item 31. Perforation Record

Perf. 5-1/2" csg. fr. 7505' - 7544' w/2 SPF
Using 4" csg. gun.

Perf. 5-1/2" csg. using 4" csg. gun w/2 SPF
at following intervals: 7388' - 7395', 7405' -
7407', 7412' - 7415', 7428' - 7435', 7439' -
7447' & fr. 7453' - 7465'.

Perf. 5-1/2" csg. using 4" csg. gun w/2 SPF
at following intervals: 7405' - 7407',
7428' - 7435' & fr. 7439' - 7447'.

Perf. 5-1/2" csg. using 4" csg. gun w/2 SPF
at following intervals: 7224' - 7227',
7261' - 7265', 7268' - 7271', 7276' - 7278',
& fr. 7281' - 7286'.

Perf. 5-1/2" csg. using 4" csg. gun w/4 SPF
at following intervals: 7224' - 7227',
7261' - 7265', 7268' - 7271', 7276' - 7278',
& fr. 7281' - 7286'.

Item 32. Acid, Shot, Fracture, Cement Squeeze, Etc.

7505' - 7544' - Acidized w/1000 gal. 15% NEFE DI HCL acid.
7505' - 7544' - Acidized w/2400 gal. 15% HCL acid.

7499' - Set CIBP.

7388' - 7465' - Acidized w/1200 gal. 15% HCL DP77MX acid.
7388' - 7465' - Acidized w/3600 gal. 15% HCL acid.

*7248' - Set cement retainer, squeezed & drld. out.
*7300' - Set cement retainer & resqueezed.

*7388' - 7465' - Cement squeezed w/300 sx. Class "C" cement total.

7405' - 7447' - Acidized w/2000 gal. 15% HCL acid.

7350' - Set CIBP & spotted 1-1/2 sx. Class "C" cement
on top CIBP. PBD at 7340'.

7224' - 7286' - Acidized w/1000 gal. 15% HCL acid.
7224' - 7286' - Acidized w/1500 gal. 15% HCL acid.

7145' - Set cement retainer & pumped 130 sks. Class "C" cement
into perfs. fr. 7224' - 7286'.

7224' - 7286' - Acidized w/1500 gal. 15% HCL acid.