

Apache 13 Federal #1
Livingston Ridge, NE (Atoka)
Eddy Co., NM

Sec 13, T22S, R30E

rwp 02/25/99

Present

KB: 3360.5'

GL: 3342'

EL: 18.5'

API # 30-015-27478

LWZ #06438011

13-3/8", 54.5#, K-55, ST&C at 568'

cmt w/ 550 sx with 203 sxs cmt cir'd to surface

9-5/8", 40#, K-55, LT&C @ 3813'

cmt w/ 1129 sx Pox C & 200 sxs Class C to surface

Tubing Detail 07/22/94

2-7/8" 2' sub 2.06'

363 jts 2-7/8" 6.5# N-80 tbg

2-7/8" x 2-3/8" EUE crossover

39 jts 2-3/8" 4.7# tbg

Otis on-off tool with X profile at 12,756'

Otis 4-1/2" Perma-lach packer

2% KCL

liner top at 11587' 07/25/93

4-1/2" 13.5# S-95

7", 26# S-95 and N-80 at 11936' 06/28/93

cmt'd wi 1375 sxs 50/50 Poz H & 225 sxs Class H

Otis 4-1/2" Perma-lach pkr at 12,757' 09/23/93

2-3/8" N-80 10.13' pup

Otis X nipple 1.2' at 12771'

2-3/8" N-80 10' pup

Mech tbg release at 12795'

On 6/19/97, SLU found guns had released

Perf'd 12,836'-844' 09/22/93

CIBP at 13950' w/ 35' cmt 09/21/93

Perf'd 14032'-42', 14081'90' and 14100'-09' 08/07/93

Acidized with 3000 gals MOD 101 7-1/2% + 50% CO2 08/12/93

Acidized with 3000 gals MOD 101 7-1/2% + 50% CO2 08/27/93

PBD at 14250'

TD 14280'

4-1/2" 13.5 ppf at 14278' cmt'd with 310 sxs Class H