

Harrod "9" State #2
1452' FNL & 1675' FEL
Sec. 9, T-16-S, R-35-E
Lea Co., NM

Atoka Completion

Spud D 1/13/01
Completion Date: 3/21/01

Elevation: 4017' GL, 4033' KB

Completion

3/14/01 - Perf'd Lower Austin 12,312-24' using 4" csg gun loaded 4 spf. Acidized w/1500 gals 15% NEFE HCL acid 1.9 bpm, 7900 psi. Overnight SITP 2700 psi. Well flowed 123 Mcf overnight and was dead the next morning. Tbg pressure would only build to 400 psi with no fluid in the well.

3/21/01 - Set CIBP @ 12,250' w/36' cmt. Perf'd Brunson Atoka w/4" TCP guns loaded 6 spf (100% underbalanced). Slight blow after perf'ing. GTS in 42 minutes. 2-3' flare.

5/1/01 - Frac'd Brunson Atoka (11,910-32') w/49,700 gals of 70 quality binary foam carrying 46,500# of 20/40 Interprop. IP: 1120 Mcf/d, 1.7 bcpd and 5 bwpd with FTP = 400 psi on a 48/64" ck.

13-3/8", 48#, H-40 ST&C
@ 492' Cmt'd w/545 sx
Circ'd cmt to surface

8-5/8", 32#, K-55 LT&C
@ 4780' w/ 1655 sx
Circ'd cmt to surface

Packer Fluid - 2% KCl water w/corrosion
inhibitor and biocide.

TOC - 6920'
(CBL)

342 jts 2-3/8" 4.7# L-80 EUE 8rd tbg
Baker L-10 on/off tool w/1.875" "F" profile nipple w/
1.875" FSG blanking plug
Arrowset I retrievable packer @ 11,828'
Spacer - 1 jt 2-3/8" L80 tbg
Bar vent assy
Mechanical tubing release

Brunson Atoka Perfs: (6 spf)
11,910-32'

Spacer - 1 jt 2-3/8" L80 tbg
Mechanical firing head
TCP gun assy. shifted off. Top at +/- 12,050'

36' cmt on top of CIBP - PBTD 12,214'
CIBP @ 12,250'

L. Austin Perfs: (4 spf)
12,312-24'

5-1/2", 17# P-110/S-95
@ 12,466'
Cmt'd w/1190 sx

TD: 12,467'

FBTD: 12,369' (CBL)

RPE - 6/25/01