

DATE : February 25, 2000 **LOCATION :** Sec. 30, T-23S, R-29E
660' FSL & 2310' FEL
FIELD : Culebra Bluff So. (Atoka) Eddy County, New Mexico

LEASE : Harroun Trust 30 #1

OBJECTIVE : Add Atoka perforations at 12,160'-12,167'

CONDITION OF HOLE :

TOTAL DEPTH : 13,356' **PBTD :** 13,107' **KB :** 2984' (24' A.G.L.)

CASING : 13-3/8" 54.5# H-40 @ 504'. Cmt w/700sx Cl-C. Cmt to surface

9-5/8", 40#, K-55 @ 2804'. Cmt w/2850sx Lite + 200sx Cl-C. Circ 40sx.

7" 29# & 26# S-95 @ 10,751'. Cmt w/1100sx 50/50 poz

4 1/2" 13.5# S-95, 9,932' – 13,356' Cmt w/425 sx Cl-H. TOC 10,740'

TBG DETAIL : 2 3/8" 4.7#, N80 AB Mod. Tail , 1.781" F Nipple @11,992, 1.81" SN@ 11,857'.

PACKER: 4 1/2" Guiberson UNI-VI pkr @11,899

REF. LOG: Schlumberger Formation Density-Compensated Neutron, run 11-20-89

PROCEDURE : **Complete and test (12,160'-12,167')**

1. Hold pre-job safety meeting. MIRU PU. Kill well, ND WH, NU and function test BOPE.
2. Release packer and scan tbg out of the hole. LD any jts less than 85% wall thickness.
3. Strap and MU TCP gun assembly as follows:

3 1/8" TCP w/4 premium charges/ft, 90° phasing (loaded to perf 12,160'-12,167'), firing head, 10' 2 3/8" tbg sub, upper ported disc sub, 10' 2 3/8" tbg sub, mechanical tubing release, 140' 2 3/8" tbg, 1.781" "F" nipple, 10' 2 3/8" tbg sub, and Guiberson UNI VI packer w/bottom half of on-off assy.
4. MIRU wireline and RIH w/gun assembly on wireline. Set packer @±11,980' w/guns on depth to perforate 12,160'-12,167' (29 shots). POOH and RD wireline.