

Leu-2 NE NE Sec 28-23S-28E Eddy County, N.M. unit letter A  
510'FNL, 510'FEL; South Culebra Bluff Bone Springs  
Field; API No. 30-015-26811  
3036.1 GL, TD 6800' c/Grace Drlg Co.

Drilled 12 1/4" hole to 501'; Ran 8 5/8", 24#, J-55,  
Casing to 500'. Cemented w/240 sx Class 'C', 2%cc  
(1/2#/sx); circ 50 sx to surface. Plug down at 1:30am  
9-10-91, WOC 4 hrs; tested csg & BOP TO 1000# For 30  
min-test held ok.

Drilled w/brine to 6750'; mud up w/gel, starch & water  
loss control to T.D. 6801' on 9-18-91.

Ran open hole DLL/MicroLog, GR, Calper & CNL-Density, GR.

Ran 5 1/2"/15.5#/J-55/LT & C to 6800'.

Cemented in 2 stages w/D.V. Tool at 4000'.

stage 1: 410 sx 50-50 Poz(Base H) + 2% gel  
+10% salt + .3%TF4 + .5% CF-2  
150 sx Class C + 10% salt + .2% TF  
-4 +.6% CF-14 WOC 6 hours.

stage 2: 450 sx Pacesetter Lite-C + 6% gel  
+.25pps Cello sed + 15pps salt.  
100 sx Class c + 5pps salt.

Cement did not circulate- ran temp survey  
found T/Cement @ 300'; Ran 1" down annulus  
and filled annulus to surface-WOC 18hrs;  
tested casing-held OK Move off Grace Rig 404.

MIRU Pulling Unit, NU Wellhead, BOP Reversing Unit.  
PV 4 3/4" bit, DC & 2 7/8" tubing and DO 5 1/2" casing  
to TD 6800', circ hole clean.

Perf: 6538-6793 (26 holes) ISPF (.375"holes) Acidize  
perfs w/2500 gals 7 1/2% HCl Fracture perfs 6538-6793  
down 5 1/2" casing w/1428 bbls. Viking I gel water and  
168,000# 20/40 sand and 32,000# 16/30 ottawa sand. Flow  
back load water and gas ARO 125,000 CFGPD.