

ROSA UNIT #163  
BLANCO MESAVERDE

Spud date: 9/22/00

Completed: 10/20/00

Location:

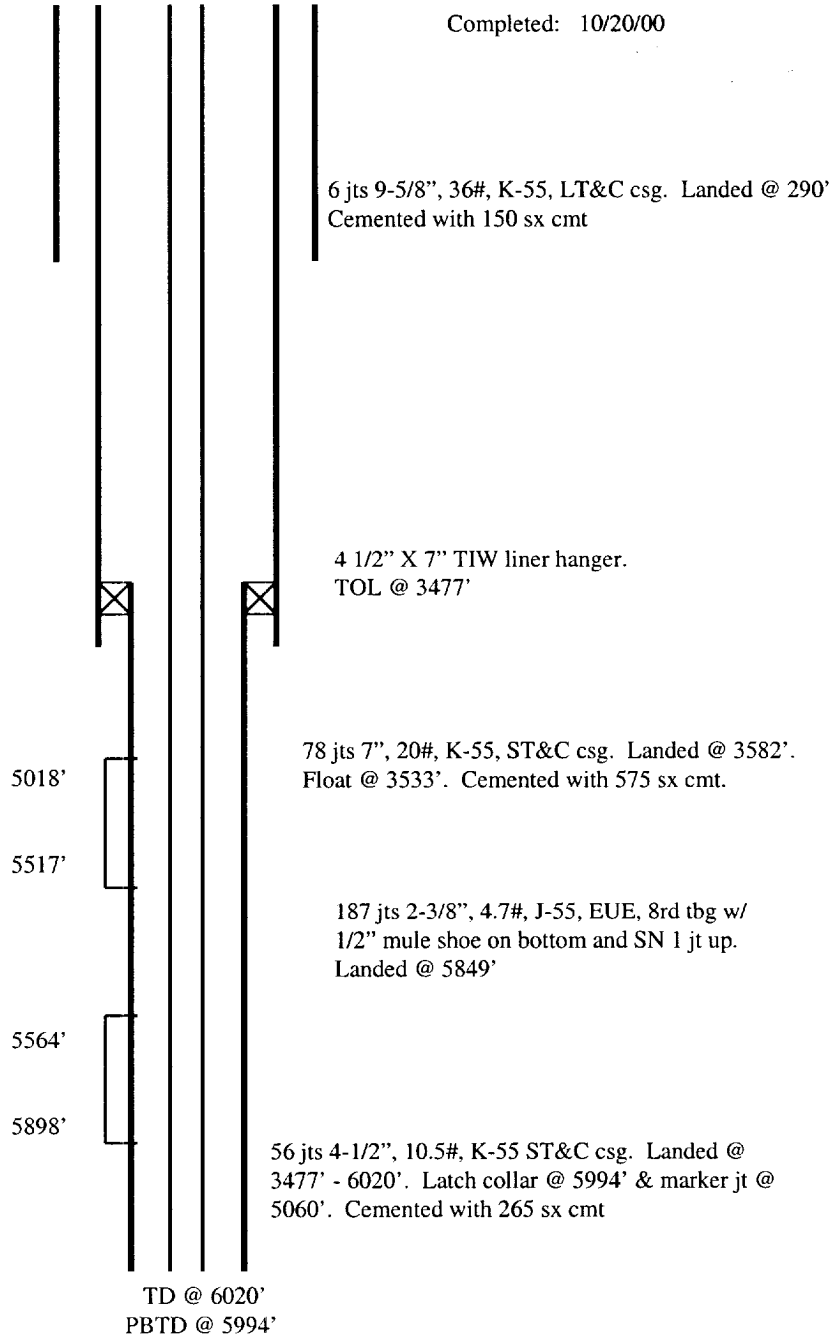
1740' FNL and 985' FEL  
SW/4 NE/4 Sec 24(G), T31N R06W  
Rio Arriba, New Mexico  
Elevation: 6248' GR

| <u>Top</u>      | <u>Depth</u> |
|-----------------|--------------|
| Pictured Cliffs | 3100'        |
| Lewis           | 3392'        |
| CliffHouse      | 5367'        |
| Menefee         | 5393'        |
| Point Lookout   | 5562'        |

STIMULATION

CliffHouse/Menefee: 5018' - 5517'  
(23, 0.38" holes) Frac with 80,000#  
20/40 sand in 1510 bbls slick water.

Point Lookout: 5564' - 5898' (39,  
0.38" holes) Frac with 80,000# 20/40  
sand in 1934 bbls slick water.



| Hole Size | Casing        | Cement | Volume      | Top Of CMT |
|-----------|---------------|--------|-------------|------------|
| 12-1/4"   | 9-5/8", 36#   | 150 sx | 209 cu. Ft. | surface    |
| 8-3/4"    | 7", 20#       | 575 sx | 1085 cu ft. | surface    |
| 6-1/4"    | 4-1/2", 10.5# | 265 sx | 387 cu. Ft. | 3760'      |