

ROSA UNIT #31A
BLANCO MESAVERDE

Spud date : 6/12/00

Completed: 7/21/00

Location:

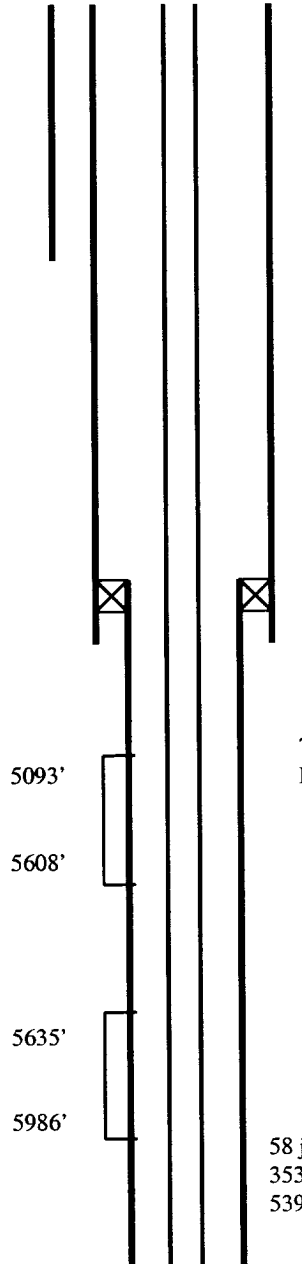
2065' FSL and 1210' FWL
NW/4 SW/4 Sec 17(L), T31N R05W
Rio Arriba, New Mexico
Elevation: 6311' GR

<u>Top</u>	<u>Depth</u>
Pictured Cliffs	3177'
Lewis	3552'
CliffHouse	5372'
Menefee	5416'
Point Lookout	5633'

STIMULATION

CliffHouse/Menefee: 5093' - 5608'
(40, 0.38" holes) Frac with 80,000#
20/40 sand in 1925 bbls slick water.

Point Lookout: 5635' - 5986' (38,
0.38" holes) Frac with 80,000# 20/40
sand in 1934 bbls slick water.



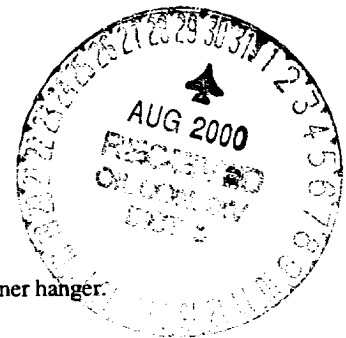
6 jts 9-5/8", 36#, K-55, ST&C csg. Landed @ 286'
Cemented with 130 sx cmt

4 1/2" X 7" TIW liner hanger.
TOL @ 3531'

79 jts 7", 20#, K-55, ST&C csg. Landed @ 3672'.
Float @ 3632'. Cemented with 580 sx cmt.

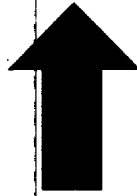
190 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbq w/
1/2" mule shoe on bottom and SN 1 jt up.
Landed @ 5957'

58 jts 4-1/2", 10.5#, K-55 ST&C csg. Landed @
3531' - 6081'. Latch collar @ 6069' & marker jt @
5393'. Cemented with 280 sx cmt



TD @ 6081'
PBTD @ 6079'

Hole Size	Casing	Cement	Volume	Top Of CMT
12-1/4"	9-5/8", 36#	130 sx	176 cu. ft.	surface
8-3/4"	7", 20#	580 sx	1099 cu ft.	surface
6-1/4"	4-1/2", 10.5#	280 sx	407 cu. ft.	3531'



LTR



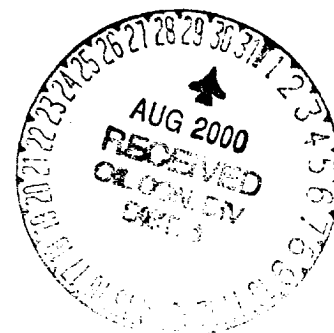
Job separation sheet



August 22, 2000

DEVIATION REPORT

Well Name: ROSA UNIT #31A
Location: L SEC 17 T31N R5W
County, State: RIO ARriba COUNTY, NEW MEXICO
Formation: BLANCO MESAVERDE



DEVIATION	DEPTH
1/2°	94'
3/4°	274'
3/4°	757'
1°	1256'
3/4°	1775'
3/4°	2253'
3/4°	2748'
1°	3248'
1°	3615'
1°	4867'
1°	6058'

Tracy Ross
Tracy Ross
Production Analyst

State of Oklahoma)
) ss:
County of Tulsa)

The foregoing instrument was acknowledged before me this 22nd day of August, 2000, by Tracy Ross.

Susan A. Tyler
Susan A. Tyler

My Commission Expires: 7-17-2001