

WELLBORE DIAGRAM

30-039-25584

ROSA UNIT #9A
MV/DK

Location: 1250' FNL, 2245' FWL
NE/4 NW/4 Section 11, T31N, R6W
Rio Arriba Co., NM

Elevation = 6247' GR
KB = 14'

RECEIVED
SEP 13 1996

OIL CON. DIV.
DIST. 3

TOPS	DEPTH
OJO ALAMO	2444'
KIRTLAND	2559'
FRUITLAND	3014'
PICTURED CLIFFS	3234'
LEWIS	3549'
CLIFF HOUSE	5459'
MENEFEE	5504'
POINT LOOKOUT	5709'
MANCOS	5864'
GREENHORN	7799'
GRANEROS	7859'
DAKOTA	7977'

STIMULATION

Cliff House/Menefee: 5419' - 5709'

80,000# of 20/40 sand in 1871 BBL's of slick water

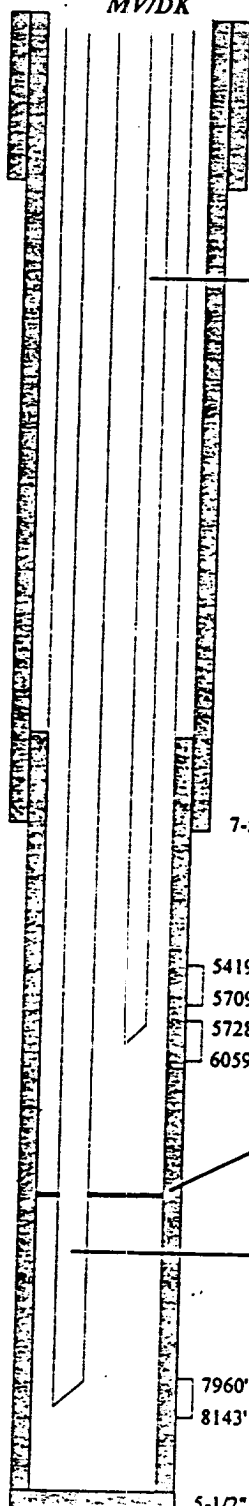
Point Lookout: 5728' - 6059'

80,000# of 20/40 sand in 2120 BBL's of slick water

Dakota: 7960' - 8143'

90,000# of 20/40 Ottawa & 10,000# super DC

resin coated sand in 660 BBL's of 60 qual. N2 foam



10-3/4" 40.5# J-55 @ 544'

187 jts of 1-1/4", 2.33#, J-55, U, ERW as follows: orange peeled perforated sub on bottom, SN (1.062" ID @ 6022') and 186 jts of tubing. Landed @ 6056' KB.

7-5/8" 26.4# K-55 @ 3704'

5419'

5709'

5728'

6059'

Mesaverde Perforations

Model "D" packer @ 6600'

246 jts of 1-1/2", 2.9#, J-55 EUE ERW as follows:
1/2 mule show on bottom, SN (1.375" ID @ 8018'). 43 jts of
tail pipe, 5 seal units, 201 jts of tubing, 1 8' pup and one full
jt. Landed @ 8051' KB.

7960'

8143'

Dakota Perforations

PBTD @ 8173'

5-1/2" 17# N-80 @ 8195'

HOLE SIZE	CASING	CEMENT	VOLUME	TOP OF CMT
13-3/4"	10-3/4" 40.5#	335 sx	395cu.ft.	SURFACE
9-7/8"	7-5/8" 26.4#	855 sx	1532cu.ft.	SURFACE
6-3/4"	5-1/2" 17#	445 sx	617cu.ft.	3000' CBL