

WELLBORE DIAGRAM

ROSA UNIT #148 MV/DK

6-2-31N-6W

LOCATION: 445'FSL, 2460'FEL
SW/4 SE/4 SEC. 02, T31N, R6W
RIO ARRIBA CO., NM
ELEVATION: 8326' GR
KB: 12'

TOPS:

OJO ALAMO 2367'
KIRTLAND 2469'
FRUITLAND 2888'
PICTURED CLIFFS 3144'
LEWIS 3452'
CLIFF HOUSE 5348'
MENELEE 5394'
POINT LOOKOUT 5609'
MANCOS 5765'
GREENHORN 7697'
GRANEROS 7756'
DAKOTA 7870'

STIMULATION

CLIFF HOUSE/MENELEE: 5324' - 5578'

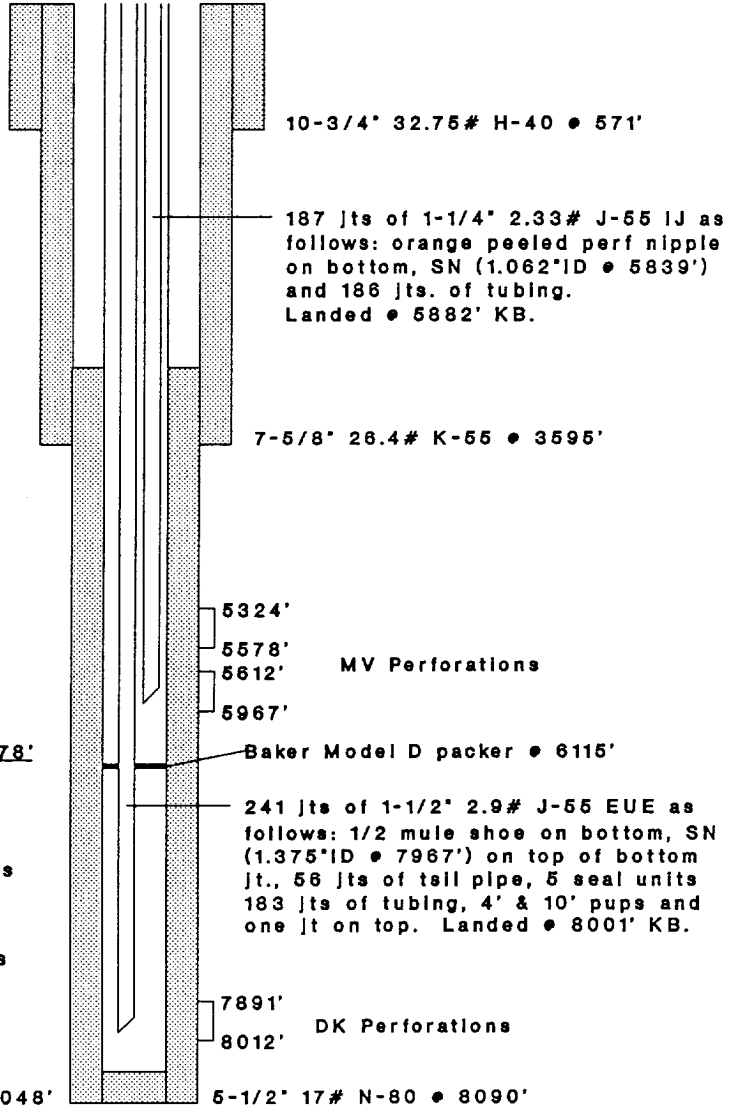
82,100# of 20/40 sand in 728 BBL's
of 30# guar gel in a 65 qual foam.

POINT LOOKOUT: 5612' - 5967'

130,000# of 20/40 sand in 854 BBL's
of 30# guar gel in a 65 qual foam.

DAKOTA: 7891' - 8012'

106,100# of 20/40 sand in 947 BBL's
of 30# X-Link gel in a 62 qual foam



HOLE SIZE	CASING	CEMENT	VOLUME	TOP OF CMT
13-3/4"	10-3/4" 32.75#	336 SX	604 CU.FT.	SURFACE
9-7/8"	7-5/8" 26.4#	890 SX	1862 CU.FT.	SURFACE
6-3/4"	5-1/2" 17#	573 SX	617 CU.FT.	3180' (surv)