

**ROSA UNIT #322
FRUITLAND COAL**

K.B. = 13'

Location:

1390' FNL and 2460' FEL
SW/4 NE/4 Sec 23G, T31N, R5W
Rio Arriba, New Mexico
Elevation: 6571' GR
API #: 30-039-24950

Spud: 10/14/90
Completed: 04/17/91
First Delivery: 06/07/91
Re-cavitated: 06/24/99
Pumping Unit: 06/08/05

Top	Depth
Ojo Alamo	2770'
Kirtland	2880'
Fruitland	3213'

Surface: 5 jts, 9-5/8", 36#, K-55, 8RD, ST&C @ 228'

Liner top @ 3165'. TIW JGS hanger

Intermediate: 76 jts, 7", 20#, K-55, 8RD, STC @ 3239'

Tubing: All 2-3/8", 4.7#, J-55., EUE, 8RD. Top to Bottom: 1 Jt., 2' Sub, 106 Jts., 1.78" "F" Nipple, Mud Anchor. 107 Jts. Total, "F" Nipple @ 3356', Mud Anchor @ 3385'.

Rods: All Norris, 3/4", Type 54, Grade "D", Slick. Top to Bottom: 1-1/4" x 22' Polish Rod, 1-1/2" x 10' Polished Rod Liner, 2' Pony, 134, 4' Pony.

Pump: Harbison Fisher 2" x 1-1/4" x 8' x 12' x 12'3" RHAC-Z, 1" x 6' Dip Tube

3306' - 3320'

3356' - 3384'

Liner: 5 jts, 5-1/2", 15.5#, K-55, LTC @ 3384' 6-1/4" drilled hole under reamed to 9-1/2".

PBTD @ 3386'
TD @ 3385'

Last Depth Reached: 3386'



Hole Size	Casing	Cement, sx	Volume, cu. ft	Top of Cmt
12-1/4"	9-5/8", 36#	160 sx	189	Surface
8-3/4"	7", 20#	690 sx	1159	Surface
9-1/2"	5-1/2", 15.5#	Did Not Cmt	N.A.	N.A.