ROSA UNIT #345
BASIN FRUITLAND COAL

K.B. = 14'

Location:
1850' FSL and 975' FWL
NW/4 SW/4 Sec 23L, T31N R5W
Rio Arriba, New Mexico
Elevation: 6561' GR

API #: 30-039-26248

Spud: 6/30/2000
Completed: 7/29/2000
First Delivery: 10/20/2000
Pumping Unit: 6/03/2005

Surface: 6 jts, 9-5/8", 36#, K-55, 8RD @ 292'.
Cemented with 150 sx cmt.

Top	Depth
Ojo Alamo	2750'
Kirtland	2848'
Fruitland	3253'
Pictured Cliffs	3421'

Liner Top @ 3191'

Intermediate: 71 jts, 7", 20#, K-55, 8RD, @ 3270'.
Cemented with 580 sx cmt.

3316'

3328'

Tubing: All 2-3/8", 4.7#, J-55, EUE, 8RD. Top to Bottom: 1Jt, 6' Sub, 107 Jts, 1.78" "F" Nipple, Mud Anchor. 108 Jts. Total, "F" Nipple @ 3389', Mud Anchor @ 3417'

3366'

Rods: All Norris, ¾", Type 54, Grade "D", Slick, Top to bottom: 1-1/4" x 22' Polish Rod, 1-1/2" x 10' Polished Rod Liner, 4', 6', & 8' Ponies, 134, 4' pony.

3374'

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

3387'

Liner: 5 jts, 5-1/2", 17#, N-80, 8RD @ 3419'.
Did not cement.

3419'

Liner Shoe and PBTD @ 3420'
Inflatable Packer @ 3424'

Last Depth Reached: 3420'

TD @ 3528'

Open Hole 3424' – 3528'

JUL 2005

Hole Size	Casing	Cement	Volume, Cu. Ft.	Top of Cmt.
12-1/4"	9-5/8", 36#	150 sx	176	Surface
8-3/4"	7", 20#	580 sx	1095	Surface
6-1/4"	5-1/2", 17#	Did not cmt	N.A.	N/A

Xander Buck 06/30/05