

**ROSA UNIT #321A
BASIN FRUITLAND COAL**

Surface Location:

1935' FSL and 480' FWL
NW/4 SW/4 Sec 20(L), T31N, R5W
Rio Arriba, NM

Spud: 06/8/08

Completed: 07/17/08

1st Delivered: 00/00/00

Bottom Hole Location:

2310' FNL and 330' FWL
SW/4 NW/4 Sec 20(E), T31N, R5W
Rio Arriba, NM

Elevation: 6339' GR

API # 30-039-29881

Top	MD Depth
Ojo Alamo	2433'
Kirtland	2558'
Fruitland	2958'

3 -3/4 X 1-1/4" sinker rods, 95 -3/4" API D rods,
38- 3/4" API D 2-1/2 guided rods, 1- 8' pony rod, 1-
6' pony rod, 2- 4' pony rods & 1-1/4" X 22' polished
rod w/ 10' X 1-1/2" liner

0.53", 4SPF
320 holes total

3323' - 3328'

3338' - 3358'

3375' - 3390'

3420' - 3460'

2-1/2" X 1-1/4" X 8 X 12 RHAC
pump

7 jts 9-5/8", 36#, K-55, ST&C @ 332'.

72 jts 7", 23#, K-55, LT&C @ 3288'.

Liner top @ 3189'

Prod tbg as follows; 2-7/8" mud
anchor, 2-7/8" tbg screen, 2 28 ID F-
nipple, 103 jts 6.50#, J-55, EUE 8rd
tbg, one 8' X 2-7/8" pup jt, one 6' X 2-
7/8" pup jt, one jt 6.50#, J-55, EUE
8rd tbg, one jt 6.50#, J-55, EUE 8rd
tbg. EOT @ 3464', F nipple @ 3437'

60jts 5-1/2", 17#, N-80
@ 3189' - 3467'.

Open hole from 6-1/4" to 9-1/2"
from 3298' to 3560'

TD @ 3560' MD

Hole Size	Casing	Cement	Volume	Top of Cmt
12-1/4"	9-5/8", 36#	155 sxs	219 cu.ft.	Surface
8-3/4"	7", 23#	499 sxs	961 cu.ft.	Surface
6-1/4"	5-1/2", 17#	Did Not Cmt		