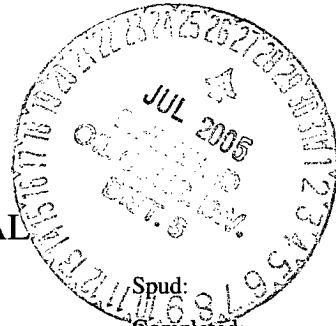


ROSA UNIT #354 BASIN FRUITLAND COAL



Location:

2120' FNL and 2015' FEL
SW/4 NE/4 Sec 19(G), T31N R4W
Rio Arriba, New Mexico
Elevation GL: 6634'
API # 30-039-26412

K.B.= 14'

Spud: 9/25/00
Completed: 6/2/01
First Delivery: 8/24/01
Pumping Unit: 6/21/05

Surface: 6 jts, 9-5/8", 36#, K-55, LTC. Set @ 295' TVD.

Top	TVD
Ojo Alamo	2896'
Kirtland	3000'
Fruitland	3325'
Coal Top	3441'
Pictured Cliffs	3525'

Cement Plug 1000'-1200' TVD
8-3/4" Hole/7" Casing Deviation Range:
3/4° - 10-1/2°

Tubing: 2-3/8" & 2-1/16" Combination String
2-3/8" 4.7#, J-55, EUE, 8 RD. Top to Bottom: 106 Jts., 2-3/8" x
2- 1/16" Cross Over Nipple. 106 Jts. Total
2-1/16", 3.25#, J-55, Integral Joint. Top to Bottom: 5 Jts,
1.53" Seating Nipple, Mud Anchor. 5 Jts. Total, Seating Nipple @
3477', Mud Anchor @ 3508'

Rods: All Norris, Type 54, Grade "D". Top to Bottom: 1-1/4" x 22'
Polish Rod, 1-1/2" x 10' Polished Rod Liner, 7/8" x 8' Pony, 7/8" x
4' Pony, 17 7/8" Slick, 112 3/4" w/ 4 R&M Energy Guides/Rod, 9
5/8" w/ 4 R&M Energy Guides/Rod, 4' 5/8" Slick Pony.

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

8-3/4" Open Hole TD @ 2287' TVD

5-1/2" Liner Top @ 3119' MD

Whipstock & CIBP @ 3183'
MD

Perforations: 4" Liner Perforated 3427'-
3511' MD w/ Milled Out Aluminum Plugs

Six 4-3/4" Drill Collars. Top @ 3189'
MD.

4" Liner Top @ 3333' MD

Intermediate: 74 jts, 7", 20#, K-55,
8RD. Set @ 3380' MD.

Liner: 7 jts, 5-1/2", 17#, N-80, LT&C. Set @
3436' MD.

6-1/4" Open Hole Packer @ 3525' MD

Liner: 4 jts, 4", 10.46#, J-55, CMF-J4. Set @ 3515'
MD.PBTD@3510'MD.Last Depth Reach: 3510' MD

6-1/4" Open Hole TD @ 3620' MD TD @ 3525' MD

Hole Size	Casing	Cement	Volume	Top of Cmt
12-1/4"	9-5/8", 36#	130 sx	155 cu. ft.	Surface
8-3/4"	7", 20#	495 sx	1237 cu. ft.	Surface
6-1/4"	5-1/2", 17#	50 sx	70 cu. ft.	Not in Well File
4-3/4"	4", 10.46#	None	N.A.	N.A.