

BLACK HILLS GAS RESOURCES, INC.

JICARILLA 459-17 #24

30-039-29324

FRTC/PC

(H) Section 17, T-30-N, R-03-W, Rio Arriba County, NM

Today's Date: 6/22/06 – M. Pippin

Spud: 5/22/05

Completed: 7/22/05

Elevation: 7166' GL

12-1/4" hole

Nacimiento @ 2066'

Ojo Alamo @ 3170'

Kirtland @ 3414'

Fruitland @ 3596'

Pictured Cliffs @ 3738'

PBTD @ 3648'

7-7/8" hole

TD 3885'

8-5/8" 24# @ 267'
Cmt w/175 sxs
Circ. 20 bbls cmt

Perf SQ holes @ 350' &
Sq w/total of 56 cf cmt.
Did not circ out bradenhead

Tertiary perms @ 1578'-1680'
fraced w/54,980# sand in 50Q
foam

Tertiary perms @ 2132'-34' &
2222'-24' & fraced w/20,600#
sand in 50Q foam

2-3/8" tubing @ 3795'

Tertiary perms @ 3178'-3210'
fraced w/93,260# sand in 70Q
foam
Sq w/total of 308 sx cmt.

Arrowset PKR @ 3401'
w/on/off tool on top

FRTC perms @ 3668'-98' & treated
w/400 gal Formic acid, & N2.

PC perms @ 3735'-92' fraced
w/65,760# sand in 65Q foam

5-1/2" 17# @ 3885'
Cmt with 750 sx
Circ. 60 bbls cmt

