

Black Hills Gas Resources

Jicarilla 457-09 #2

API No. 3003926064

695' FNL & 731' FWL (NWNW) Unit D

Section 9 T30N - R03W

East Blanco Field, Rio Arriba County, New Mexico

Top of Coal:	3708
Bottom of Coal:	3746
KOP:	3752
At Well - (NWNW) SEC 9 T30N - R03W	
Top of PC:	3746
PC Target Line:	3784
Bottom of PC:	3852
Top of Lewis:	3852
At BHL - (NENE) SEC 9 T30N - R03W	
Proposed BHL:	1000 FNL & 100 FEL
Azimuth	93.92
Top of PC:	3733
PC Target Line:	3758

Ground Elevation:		7216'
KB Elevation:		7229' (13' KB)
Surface Casing:		8-5/8" 24# K-55 ST&C @ 553'
Production Casing:		5-1/2" 15.5# K-55 LT&C @ 4048'
Plugback TD:		3982'
Perfs:	San Jose:	
Perfs:	Nacimiento:	2372 - 2392 (Open)
Perfs:	Ojo Alamo:	3205 - 45, 72 - 82 (Open)
Perfs:	Pictured Cliffs:	
Completion:		Single Completion - Nacimiento / Ojo Alamo
		102 jts 2-3/8" tbg @ 3299'

Note: CBL-CCL log will be run prior to beginning squeeze work. Window for kick-off will be cut from 3748 - 3763. KOP is estimated to be at 3752', but can be adjusted based on collar locations. Nacimiento & Ojo Alamo perfs will be squeezed prior to drilling.