

Oxbow Mining LLC #2
Drilling and Casing Plan
Gunnison County, CO – September 2013
Operator: Vessels Coal Gas, Inc.
Driller: Himes Drilling Company, Inc.

Day 1

- Move to site and rig up on hole location *12 hrs*

Day 2

- Drill, air rotary, 21" conductor hole to 40 ft. *6 hrs*
- Install 18" steel conductor casing and cement in place; allow to set *4 hrs*
 - Conductor casing will be pre-assembled/welded into 40 ft section prior to installation

Day 3

- Install 18" flange on conductor casing *3 hrs*
- Drill, air rotary, 17" borehole to TD of approx. 100 ft *4 hrs*
- Install 13-3/8" steel liner casing to TD, hang off on conductor and cement in place *3 hrs*
 - Bottom of 13-18" casing will be cut to necessary length and will be left plain, open ended on bottom

Day 4

- Rig down and move off of location *10 hrs*

Casing:

- 18" OD conductor, 0.375" wall, 70.65#/ft, plain end
- 13-3/8" OD, 0.330" wall, 48#/ft, T&C STC, Range III

Casing Type	Size of Hole	Size of Casing	Wt/ft	Csg Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	21	18	70.65	0	40	18	40	0
SURF	17	13-3/8	48.00	0	100	36	100	0