



02055854

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

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SEP 27 2013

COGCC**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