

WELLBORE DIAGRAM
NOBLE ENERGY INC
GRANADOS 4-3
NWNW SEC 3 5N 64W
WELD COUNTY
05-123-21647

Proposed

Welded cap
10 sks at surface

hole size: 7-7/8"

Behind 4-1/2
Shoot holes at 720' &
squeeze **200 sx** to surface

Inside 4-1/2
Pump 60 sks from 720' to
surface

Perforate casing at 2,500' &
pump balanced plug of 175 sx
from 2,500' to 2,000', 1.15 ft³/sk

Additional 180
sx from 3,200' to
5,050' (CBL)

TOC @ 5,950'
(CBL)

All cement Class G mixed at 15.8 ppg, 1.15 cuft/sk (unless otherwise noted); calcs include excess


4-1/2" CIBP @ 6,510'
w/ 2 sks

Niobrara perfs 6,564'-6,632'

Codell perfs 6,806'-6,818'

4-1/2" 11.6# @ 6,958'
cmt w/ 155 sks

PBMD: 6,943'

Legend	
	Water
	Existing Cement
	New Cement
	Existing Mud

*NOT TO SCALE