

CURRENT WELL BORE DIAGRAM

Black Raven Energy, INC.

C.H. O’Neill #2

SESWNW Section 5

T1N R57W

2190 FNL x 990 FWL

API No. 05-087-05446

SURFACE CASING

Hole size: 12 1/4
Csg size: 8 5/8
Weight: 28#
Depth: 95’
Cement top: Surf (calc)
Cement: 85 sacks

ELEVATION DATA

GL: 4468
DF: 4478
KB: 4479

FORMATION TOPS

Niobrara
Carlile 5074
Greenhorn 5148
D Sand 5476
J Sand 5542

Top of cement=3811’
(Calculated)

PRODUCTION CASING

Hole size: 7 7/8
Csg size: 5 1/2
Weight: 15.5#
Depth: 5619’
Cement top: 3811’ (calc)
Cement: 261 sacks

PERFORATION HISTORY

| Date | Top | Btm | Status |
|---------|------|------|------------|
| 2/25/55 | 5565 | 5570 | Under CIBP |
| 9/3/58 | 5547 | 5566 | Under CIBP |

J Sand Top: 5542’
CIBP set at 5535’
Perfs 5547-5570’
Plugback Depth: 5619’
Total Depth: 5626’