

PROPOSED P&A WELL BORE DIAGRAM

Black Raven Energy, INC. Glenn-Biddle A-4

SWSW Section 32
T2N R57W
330 FSL x 990 FWL
API No. 05-087-05490

SURFACE CASING

Hole size: 13 3/4
Csg size: 10 3/4
Weight: 32.75#
Depth: 114'
Cement top: Surf (calc)
Cement: 75 sacks

ELEVATION DATA

GL: 4474
DF:
KB: 4484

FORMATION TOPS

Niobrara 4680
D Sand 5500
J Sand 5568

PLANNED PLUGGING OPERATIONS

Set CIBP and 2 sacks cement at 5550'.
Cut and pull 5 1/2" casing from 3500'.
Set 50 sack cement plug (3500-3350').
Set 100 sack cement plug from 174' to 4'.
Cut sfc csg 4' below GL, weld cap on csg.

PRODUCTION CASING

Hole size: 9"
Csg size: 5 1/2
Weight: 15.5#
Depth: 5630'
Cement top: 4546' (calc)
Cement: 250 sacks

PERFORATION HISTORY

Date	Top	Btm	Status
2/22/54	5586	5592	Below CIBP
10/4/11	5570	5575	Active
10/6/11	5575	5580	Active

