

BLACK RAVEN ENERGY, INC.

Date: 2/7/2012
 Prepared by: Maddie Lariviere
 Lease: ORTNER
 Well Number: 743-1-43
 API: 05-095-06428-00
 Location: NESE, Sec. 1 T7N-R44W
 BHL
 Field: Amherst
 Unit
 County: Phillips
 State: Colorado
 GL: 3686
 KB: 3698
 Spud Date: 2/7/2012
 Completion date: 2/9/2012
 First gas sales: N/A

WI
 NRI
 Surface fee
 Mineral fee

SURVEYS:
 500 0.26
 1000 1.19
 1500 0.12
 2000 1.06
 2300 1.90
 2600 1.24

Geological tops
 Surface 3686
 Pierre Shale 270
 Sharron Springs 2338
 Niobrara Chalk 2386
 TD 2659

A-sect Wellhead Inc LM-70 7 X 4 1/2 1500# Screw on mandrel
 B-sect R&M LM-45 4 1/2 X 2 3/8 1500# Screw on mandrel
 Tree

Surface Cement

Cement w/ 103 sk Portland 1/11 ASTM C 150 Cement
 and displace w/748 gal of water Cir 6 brls cement to
 the pit. 30 ft cement left in the 7" sp. Pumped by Schaal
 drilling. Plug down 1:00 PM 2/7/2012

Producing ZONE Niobrara

Hole Size 9 7/8
 Surf Casing 7" 17# 11 jts meas 454.15
 Shoe 466.15

Cement Design

Rig up ADT Cementers and cement
 TIH to P&A
 1st Plug: 35 Sks 2300 to 2100
 2nd Plug: 35 sks 574 to 400
 3rd Plug: 10 sks 54 to 10
 RDMO @ 10:00 AM 2/9/2012

