

WELLBORE DIAGRAM AS PLUGGED

Black Raven Energy Inc.
BF CRONE # 4
 SWNW Section 13, Township 1N, Range 58W
 Footages 2310 FNL 990 FWL
 County MORGAN: State: COLORADO
 API :05-087-05300

CAP ON SFC CSG
 48" BELOW GL

CEMENT PLUG FROM
 155 FT TO SURFACE
 65 SKS CEMENT

G.L.= 4573
 K.B.= 4583
 10

SURFACE CASING
 HOLE SIZE 12 1/4
 8-5/8" 28# set at 105
 Cmt't w/ 75 sx to Surf.

Formation tops

CARLILE	5241
D-Sand	5643
J-Sand	5708

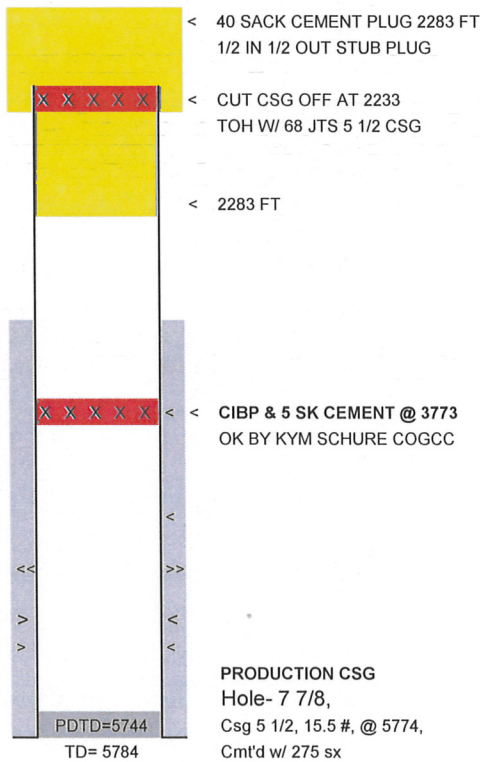
PLUGGING OPERATIONS

set cibp @ 3773 w/5 sk cement on top
 cut 5 1/2 off at 2233 tooth w/68 jts 5 1/2 csg
 set 40 sk in and out stub plug @ 2283
 pump 65 sk plug 155 ft to 4 ft
 cut 5 1/2 off 4 ft below GL
 WELD ON CAP

TOC @ 3580 CBL 3-20-13

J-SAND TOP 5708

J SAND PERFS
 5707-5718



Date	Perforation History		status
	top	btm	
9/15/1954	5707	5713	active
4/12/1962	5709	5718	active