

SWISHER, RUTH
SURFACE OWNER

WALKER, MYRON
SURFACE OWNER

MCCALLISTER, JOHN
SURFACE OWNER

SECTION 20

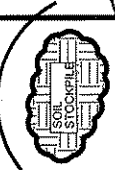
ACCESS ROAD TO 5MN
AND 6MN SHAFT SITES

UPGRADE EXISTING CMP PIPE
FROM 18" TO 24" DIAMETER
~100' IN LENGTH

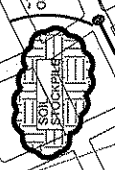
ACCESS ROAD LENGTH = 2353.0'



~250' STRAW WATTLES
OR EQUIVALENT CONTROL



~250' STRAW WATTLES
OR EQUIVALENT CONTROL



~150' STRAW WATTLES
OR EQUIVALENT CONTROL

~120' STRAW WATTLES
OR EQUIVALENT CONTROL

~80' STRAW WATTLES
OR EQUIVALENT CONTROL

~40' STRAW WATTLES
OR EQUIVALENT CONTROL

~20' STRAW WATTLES
OR EQUIVALENT CONTROL

~10' STRAW WATTLES
OR EQUIVALENT CONTROL

~5' STRAW WATTLES
OR EQUIVALENT CONTROL

~2' STRAW WATTLES
OR EQUIVALENT CONTROL

~1' STRAW WATTLES
OR EQUIVALENT CONTROL

~0.5' STRAW WATTLES
OR EQUIVALENT CONTROL

~0.25' STRAW WATTLES
OR EQUIVALENT CONTROL

~0.125' STRAW WATTLES
OR EQUIVALENT CONTROL

~0.0625' STRAW WATTLES
OR EQUIVALENT CONTROL

~0.03125' STRAW WATTLES
OR EQUIVALENT CONTROL

~0.015625' STRAW WATTLES
OR EQUIVALENT CONTROL

~0.0078125' STRAW WATTLES
OR EQUIVALENT CONTROL

1 ACRE PAD SURFACE
13' LEFT UTILITY BH
E2094.62

SURFACE ELEV. 8.24
FLOOR ELEV. 8.24
SHOULDER = 13.5'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

200'

RUNOFF DIVERSION
DITCH WITH ROCK
CHECK DAMS



Project Name	Trinityville Coal, LLC
Project Number	13 Left Outby Gate Road
Project Date	04/11/2017
Project Location	04/11/2017
Project Status	04/11/2017
Project Owner	04/11/2017
Project Manager	04/11/2017
Project Engineer	04/11/2017
Project Designer	04/11/2017
Project Checker	04/11/2017
Project Approver	04/11/2017
Project Reviewer	04/11/2017
Project Auditor	04/11/2017
Project Signer	04/11/2017
Project Seal	04/11/2017
Project Stamp	04/11/2017
Project Title	04/11/2017
Project Description	04/11/2017
Project Objectives	04/11/2017
Project Scope	04/11/2017
Project Budget	04/11/2017
Project Schedule	04/11/2017
Project Risk	04/11/2017
Project Compliance	04/11/2017
Project Quality	04/11/2017
Project Safety	04/11/2017
Project Health	04/11/2017
Project Environment	04/11/2017
Project Social	04/11/2017
Project Economic	04/11/2017
Project Cultural	04/11/2017
Project Historical	04/11/2017
Project Archaeological	04/11/2017
Project Paleontological	04/11/2017
Project Biological	04/11/2017
Project Geological	04/11/2017
Project Geographical	04/11/2017
Project Geomorphological	04/11/2017
Project Geochemical	04/11/2017
Project Geophysical	04/11/2017
Project Geotechnical	04/11/2017
Project Geospatial	04/11/2017
Project Geotectonic	04/11/2017
Project Geomagnetic	04/11/2017
Project Geoelectrical	04/11/2017
Project Geothermal	04/11/2017
Project Geohydrological	04/11/2017
Project Geobotanical	04/11/2017
Project Geozoological	04/11/2017
Project Geomicrobiological	04/11/2017
Project Geomorphological	04/11/2017
Project Geospatial	04/11/2017
Project Geotectonic	04/11/2017
Project Geomagnetic	04/11/2017
Project Geoelectrical	04/11/2017
Project Geothermal	04/11/2017
Project Geohydrological	04/11/2017
Project Geobotanical	04/11/2017
Project Geozoological	04/11/2017
Project Geomicrobiological	04/11/2017

200'x200' DRILL PAD

13 Left Grout BH 101615-Pad Report.txt

Fri Oct 16

Pad Report
10:04:00 2015

Pad slope percent: 1.000%
Pad slope azimuth: 62°23'49"
Pad slope North component: 0.463%
Pad slope East component : 0.886%
Cut slope: 50.00% 2.00:1 26.57°
Fill slope: 50.00% 2.00:1 26.57°
Existing Surface: G:\Engineering\13 Left LW Grout BH\
Grid position: 19768.90,43767.98 to 21018.20,44442.43
X grid resolution: 50, Y grid resolution: 50
X grid cell size: 24.99, Y grid cell size: 13.49
Balance Tolerance (C.Y.): 10.00
Cut Swell Factor: 1.00
Fill Shrink Factor: 1.00

Pad Earthwork Volumes
Total cut : 37,476.1 C.F., 1,388.00 C.Y.
Total fill: 37,496.9 C.F., 1,388.78 C.Y.
Balance Import: 20.8 C.F., 0.77 C.Y.
Area: 44582.2 Sq.Ft., 1.023 Acres

~1390 C.Y.

Balances Cut + Fill

ALLEBS ROAD
~ 2550' LENGTH

13 Left Grout BH 110415-Access Road Report 110415.txt

Pad Report
09:34:53 2015

Wed Nov 04

Pad slope percent: 1.500%
Pad slope azimuth: 72°35'04"
Pad slope North component: 0.449%
Pad slope East component : 1.431%
Cut slope: 50.00% 2.00:1 26.57°
Fill slope: 50.00% 2.00:1 26.57°
Existing Surface: G:\Engineering\13 Left LW Grout BH\
Grid position: 19871.39,42881.26 to 22567.69,45510.19
X grid resolution: 50, Y grid resolution: 50
X grid cell size: 53.93, Y grid cell size: 52.58
Balance Tolerance (C.Y.): 10.00
Cut Swell Factor: 1.00
Fill Shrink Factor: 1.00

Pad Earthwork Volumes
Total cut : 148,796.8 C.F., 5,510.99 C.Y.
Total fill: 148,916.5 C.F., 5,515.42 C.Y.
Balance Import: 119.7 C.F., 4.43 C.Y.
Area: 119746.0 Sq.Ft., 2.749 Acres

~ 5515 C.Y.
BALANCE Cut/FILL

Suggested Contractors:

1. Mr. Richard "Bud" Bower
Bower Brothers Construction, Inc.
595 Taylor Street
Craig, Colorado 81625
970-326-8562 Cell
970-827-2793
bowrbros@mindspring.com

2. Mr. Mike Anson
Anson Excavating & Pipe Inc.
P.O. Box 777
Craig, Colorado 81626
970-824-0382
970-824-8536 fax
970-629-2057 Cell
mikeanson@ansonexcavating.com