WAGNER
Construction, Inc.
1850 E. 1st. Street, Craig, CO 81625
Phone & Fax (970) 824-2709
WagnerCorp@q.com



June 1, 2017

Any Yeldell
Environmental Protection Specialist
Department of Natural Resources
Division of Reclamation, Mining and Safety
1313 Sherman # 215 80203

***RE: Wagner Rock Pit, Permit No. M-1999-018, 112c Application Adequacy Review #1 – Revision 1 Exhibits A, B, C, and D***

Dear Ms. Yeldel,

Please find attached the Revision 1 of the Exhibits A, B, C, and D in response to Adequacy Review #1. Identified below are the items addressed in by the items included;

6.4.1 Exhibit A – Legal Description (Items 1 and 2)
6.4.2 Exhibit B – Index Map (Item 1)
6.4.3 Exhibit C – Mining Plan Map (Items a, c, d, e, f, g, and h)
6.4.4 Exhibit D – Mining Plan (Items a, c, d, e, and f)

Thank you,

Jay Wagner
Wagner Construction

M-1999-018

**POWERS ENTERPRISES, INC.**
Surveyors

1790 W. Victory Way – Craig, Colorado 81625
Telephone (970) 824-3435
FAX (970) 824-3102
EMAIL lpowers@springsips.com

# WAGNER ROCK PIT
# M-1999-018
# EXHIBIT A – LEGAL

S89°41'24"W
2650.58'

FOUND 2.5" BRASS CAP N1/4 CORNER SECTION 10 T6N, R90W

FOUND 2.5" BRASS CAP N.E. CORNER SECTION 10 T6N, R90W

Legal Description

A parcel of land located in the S½NE¼ and the N½SE¼ of Section 10, T6N, R90W of the 6th P.M., Moffat County, Colorado and being more particularly described as follows:

Beginning at a point lying S18°38'14"W, 2757.21 feet from the N.E. corner of said Section 10; thence S35°42'11"W, 750.00 feet; thence N54°17'49"W, 1344.42 feet; thence N00°42'31"W, 931.94 feet; thence S54°17'49"E, 1897.61 feet to the point of beginning. Containing 27.910 acres more or less.

The north line of the NE¼ of said Section 10 is considered to bear S89°41'24"W between 2 ½" G.L.O. Brass Caps.

LAND SURVEYOR'S CERTIFICATE

I, Lloyd W. Powers being a duly registered Professional Land Surveyor do hereby certify that this survey was made by me or under my direct supervision and is based upon my professional knowledge, information and belief and conforms with the applicable standards of practice in the State of Colorado. This certificate does not constitute a guaranty or warranty, either expressed or implied.

Lloyd W. Powers, PLS
Colorado Reg. No. 13901

COLORADO LICENSED LLOYD W. POWERS 13901 11/29/16 PROFESSIONAL LAND SURVEYOR

S18°38'14"W
2757.21'

N

SCALE: 1"=300'
300 150 0 300

N00°42'31"W
931.94'

S54°17'49"E
1897.61'

PERMIT BOUNDARY

WAGNER ROCK PIT
EXCAVATED AREA
4.284 ACRES±
ELEV. = 6447

POINT OF BEGINNING

WAGNER ROCK PIT
112 PERMIT NO. M1999-018
27.910 ACRES±

1344.42'
N54°17'49"W

750.00'
S35°42'11"W

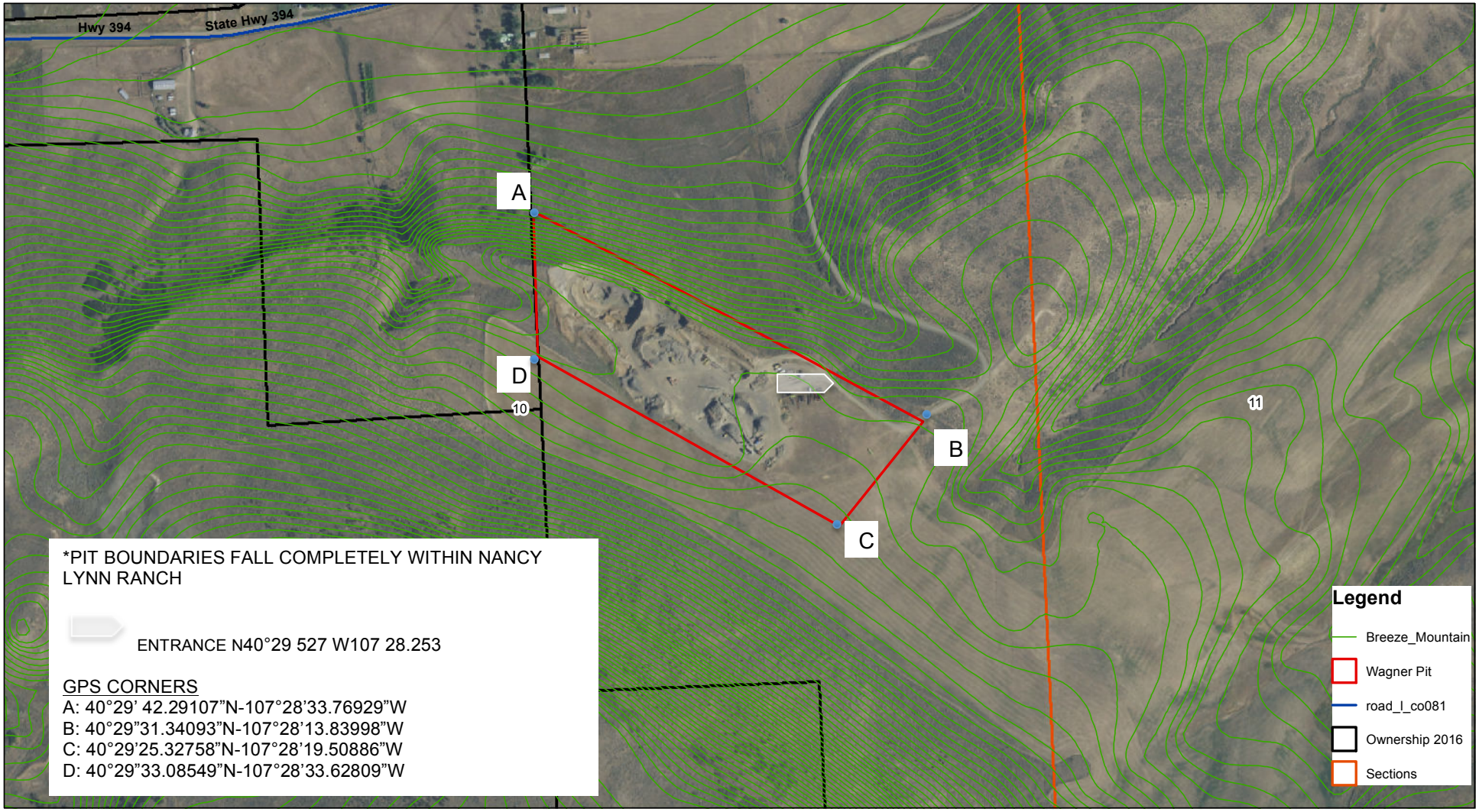
ACCESS ROAD TO STATE HIGHWAY NO. 394

16089

RECEIVED
JUN 05 2017
DIVISION OF RECLAMATION MINING & SAFETY
all sm maps

M-1999-018 WAGNER ROCK PIT
EXHIBIT A – LEGAL
TOPOGRAPHICAL MAP

## Topography Map - Powers Enterprises Inc.




Prepared with assistance from USDA-Natural Resources Conservation Service

USDA

360 0 360 720 1,080 1,440
Feet

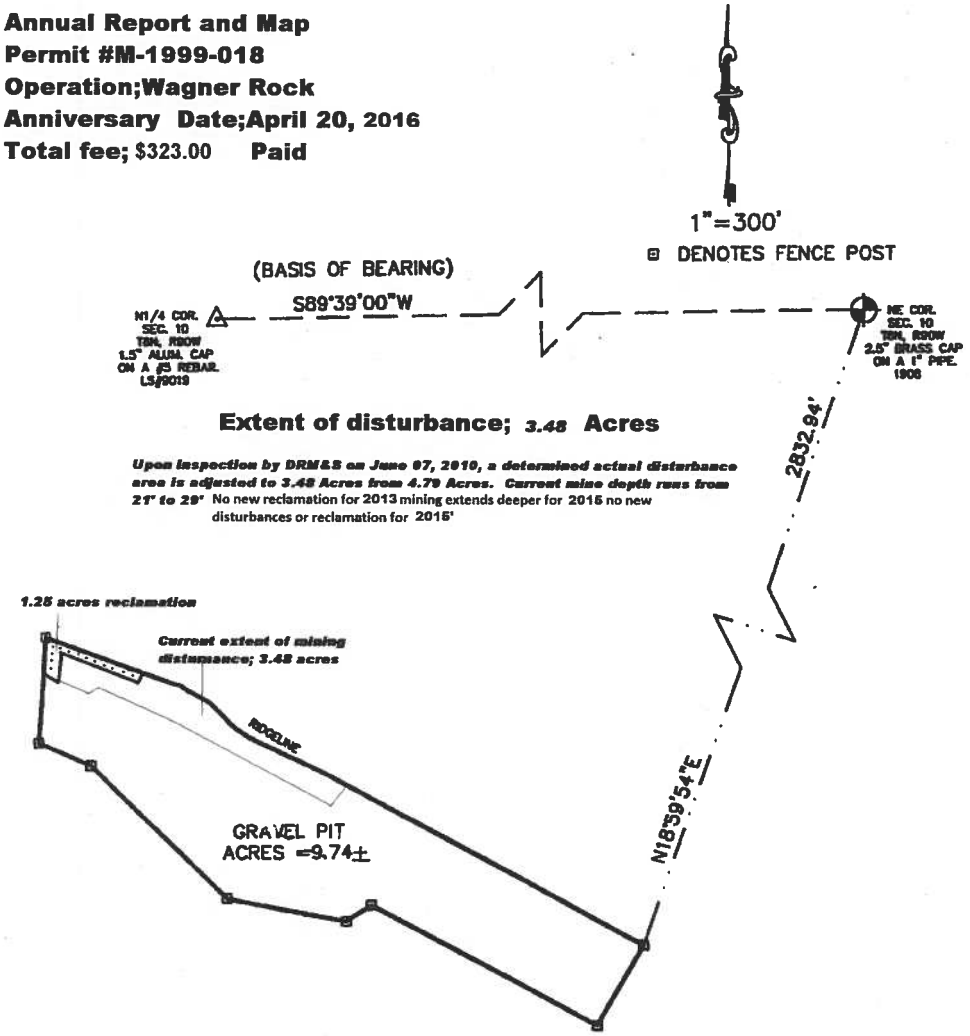
10' contours

N

M-1999-018

# WAGNER ROCK PIT
## M-1999-018 CURRENT PERMIT MAP W/DISTURBED AREA

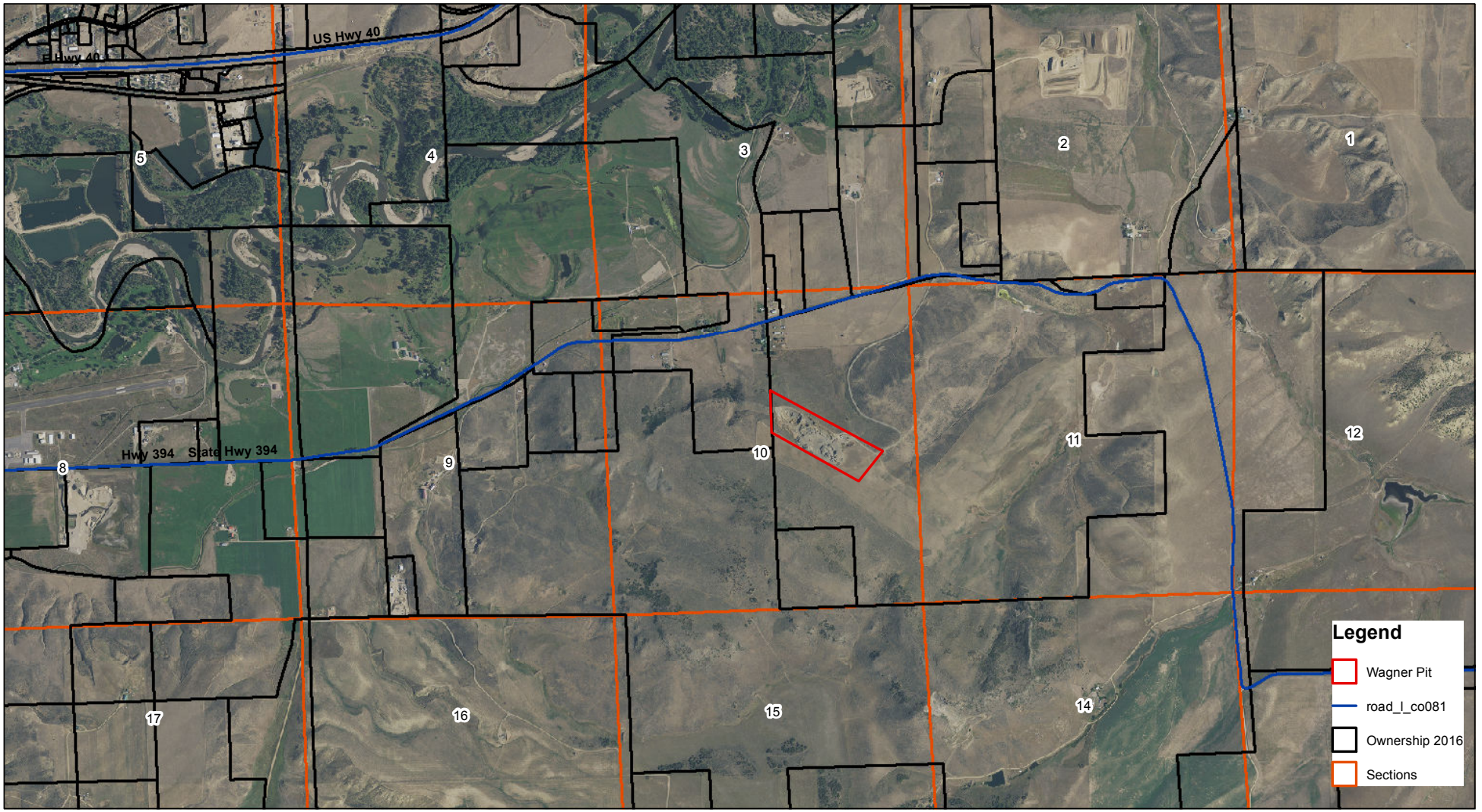
**Annual Report and Map**
**Permit #M-1999-018**
**Operation;Wagner Rock**
**Anniversary Date;April 20, 2016**
**Total fee;** $323.00 **Paid**




**Extent of disturbance;** ***3.48*** **Acres**

***Upon inspection by DRM&S on June 07, 2010, a determined actual disturbance area is adjusted to 3.48 Acres from 4.79 Acres. Current mine depth runs from 21' to 29'*** No new reclamation for 2013 mining extends deeper for 2015 no new disturbances or reclamation for 2015'

WAGNER ROCK PIT
M-199-018
EXHIBIT B- INDEX MAP




Prepared with assistance from USDA-Natural Resources Conservation Service

USDA

1,250 0 1,250 2,500 3,750 5,000
Feet

N

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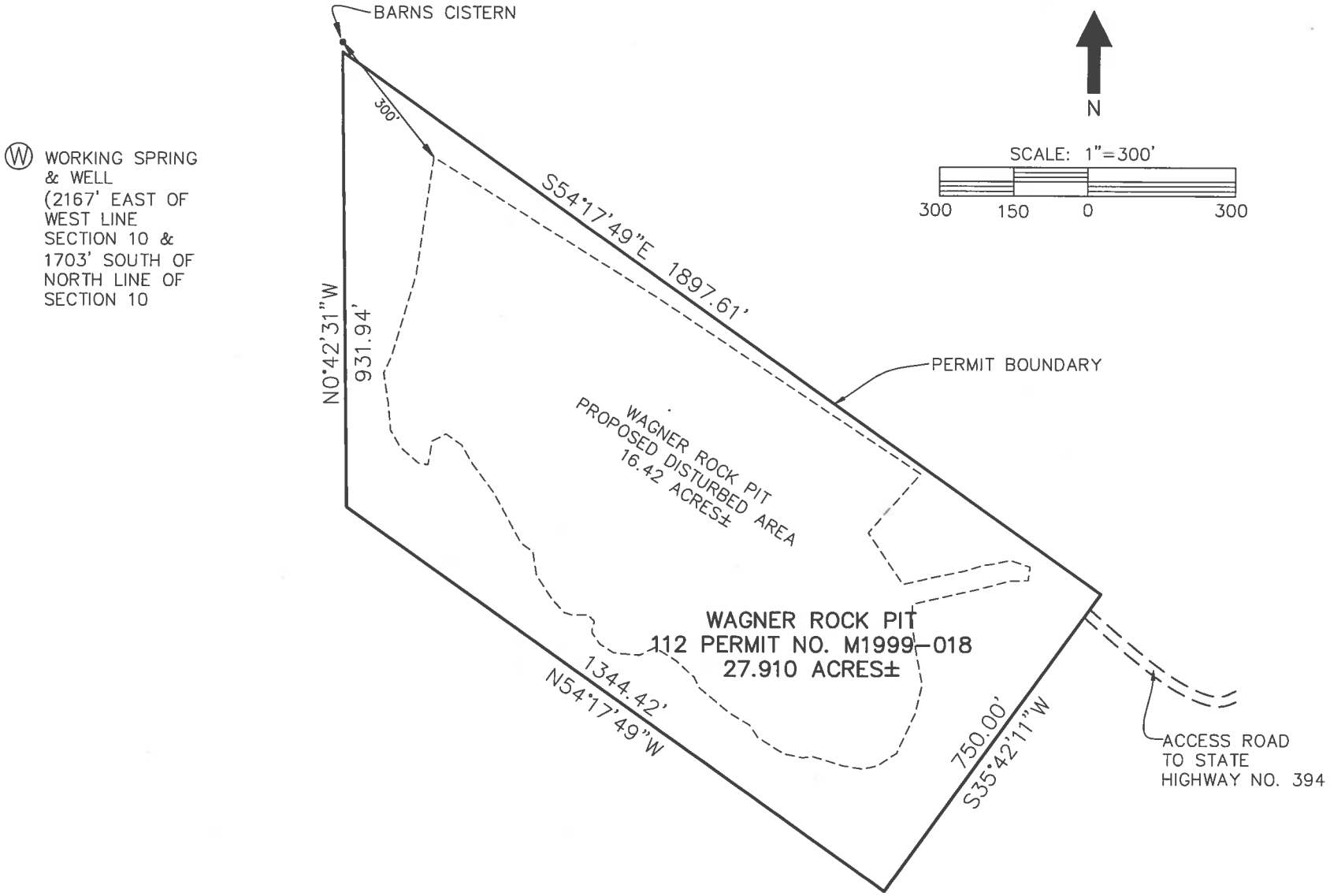
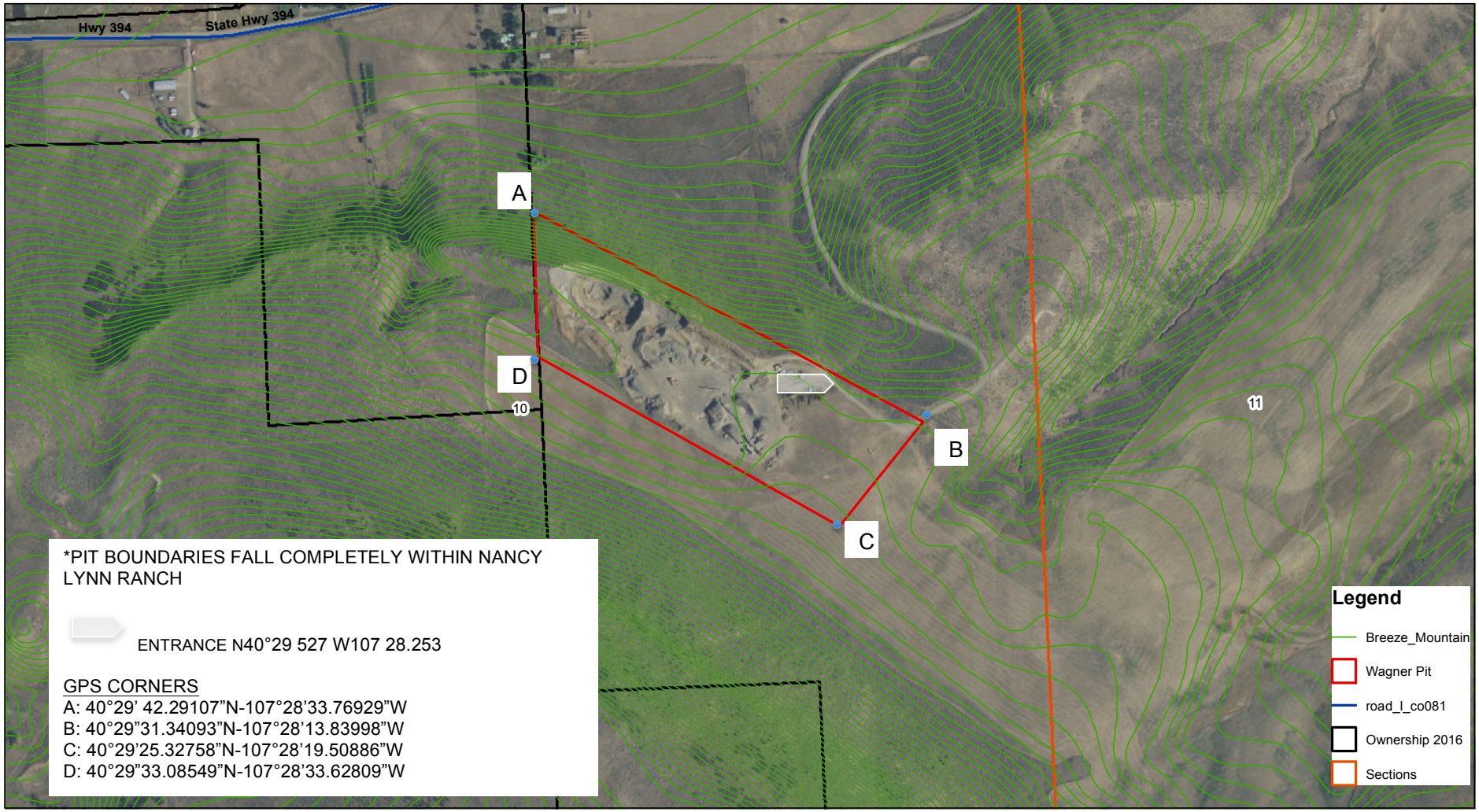
# WAGNER ROCK PIT
## M-1999-018
## EXHIBIT C – MINING PLAN MAP
## TOTAL PROPOSED DISTRUBANCE MAP



# WAGNER ROCK PIT
# M-1999-018
## EXHIBIT C – MINING PLAN MAP
## TOPOGRAPHY MAP WITH DISTURBANCE AND SLOPES

Topography Map - Powers Enterprises Inc.




Prepared with assistance from USDA-Natural Resources Conservation Service

USDA

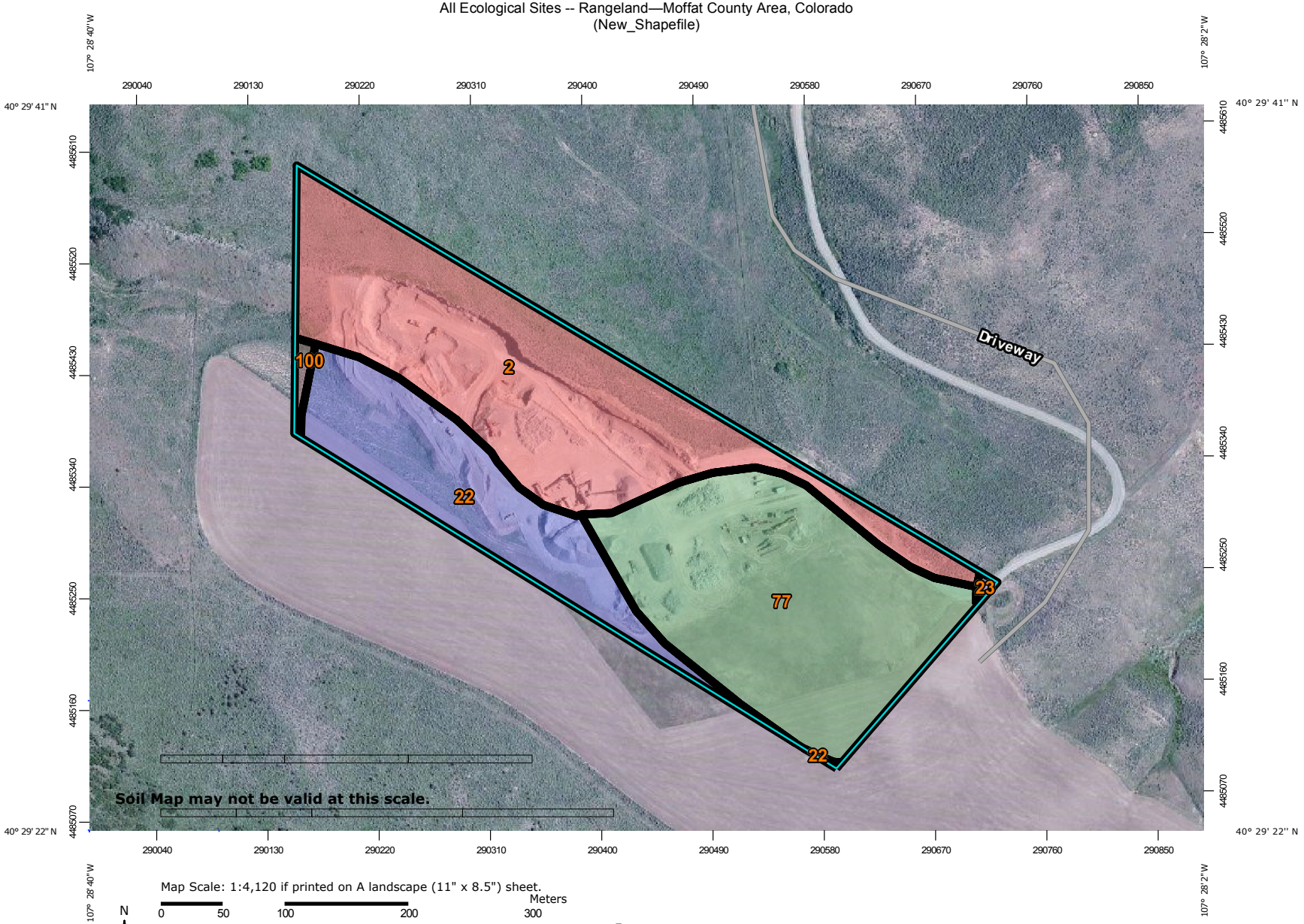
360 0 360 720 1,080 1,440 Feet

10' contours

N

# WAGNER ROCK PIT
# M-1999-018
## EXHIBIT C – MINING PLAN MAP
## VEGETATION & SOILS MAP

All Ecological Sites -- Rangeland—Moffat County Area, Colorado
(New_Shapefile)




Map Scale: 1:4,120 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

**WAGNER ROCK PIT**
**M-1999-018**
EXHIBIT C – MINING PLAN MAP
VEGETATION & SOILS MAP LEGEND PAGE 1



# Report—Rangeland Productivity and Plant Composition

| Rangeland Productivity and Plant Composition–Moffat County Area, Colorado | | | | | | |
|---|---|---|---|---|---|---|
| Map unit symbol and soil name | Ecological site | Total dry-weight production | | | Characteristic vegetation | Rangeland composition |
| | | Favorable year | Normal year | Unfavorable year | | |
| | | *Lb/ac* | *Lb/ac* | *Lb/ac* | | *Pct* |
| 2—Abor silty clay loam, 25 to 65 percent slopes | | | | | | |
| Abor | Clayey Foothills | 1,200 | 900 | 600 | Western wheatgrass | 40 |
| | | | | | Wyoming big sagebrush | 15 |
| | | | | | Miscellaneous perennial forbs | 10 |
| | | | | | Miscellaneous perennial grasses | 10 |
| | | | | | Miscellaneous shrubs | 10 |
| | | | | | Yellow rabbitbrush | 5 |
| | | | | | Bottlebrush squirreltail | 5 |
| | | | | | Sandberg bluegrass | 5 |
| 22—Bulkley silty clay, 3 to 12 percent slopes | | | | | | |
| Bulkley | Clayey Foothills | 1,200 | 900 | 600 | Western wheatgrass | 40 |
| | | | | | Wyoming big sagebrush | 15 |
| | | | | | Bottlebrush squirreltail | 5 |
| | | | | | Prairie junegrass | 5 |
| | | | | | Miscellaneous perennial forbs | 5 |
| | | | | | Miscellaneous perennial grasses | 5 |
| 23—Bulkley silty clay, 12 to 25 percent slopes | | | | | | |
| Bulkley | Clayey Foothills | 1,200 | 900 | 600 | Western wheatgrass | 40 |
| | | | | | Wyoming big sagebrush | 15 |

# WAGNER ROCK PIT
# M-1999-018
## EXHIBIT C – MINING PLAN MAP
## VEGETATION & SOILS MAP LEGEND PAGE 2



| Rangeland Productivity and Plant Composition–Moffat County Area, Colorado | | | | | | |
|---|---|---|---|---|---|---|
| **Map unit symbol and soil name** | **Ecological site** | **Total dry-weight production** | | | **Characteristic vegetation** | **Rangeland composition** |
| | | **Favorable year** | **Normal year** | **Unfavorable year** | | |
| | | *Lb/ac* | *Lb/ac* | *Lb/ac* | | *Pct* |
| | | | | | Bottlebrush squirreltail | 5 |
| | | | | | Prairie junegrass | 5 |
| | | | | | Miscellaneous perennial forbs | 5 |
| | | | | | Miscellaneous perennial grasses | 5 |
| 77—Forelle loam, 3 to 12 percent slopes | | | | | | |
| Forelle | Rolling Loam | 1,000 | 800 | 500 | Western wheatgrass | 15 |
| | | | | | Wyoming big sagebrush | 15 |
| | | | | | Needleandthread | 10 |
| | | | | | Prairie junegrass | 10 |
| | | | | | Sandberg bluegrass | 10 |
| | | | | | Bluebunch wheatgrass | 5 |
| | | | | | Indian ricegrass | 5 |
| 100—Hesperus loam, 15 to 50 percent slopes | | | | | | |
| Hesperus | Brushy Loam | 3,000 | 2,500 | 1,500 | Saskatoon serviceberry | 10 |
| | | | | | Mountain brome | 10 |
| | | | | | Elk sedge | 10 |
| | | | | | Gambel oak | 10 |
| | | | | | Mountain snowberry | 5 |
| | | | | | Slender wheatgrass | 5 |
| | | | | | Nodding brome | 5 |
| | | | | | Miscellaneous perennial forbs | 5 |
| | | | | | Miscellaneous perennial grasses | 5 |
| | | | | | Letterman's needlegrass | 5 |

**WAGNER ROCK PIT**
**M-1999-018**
EXHIBIT C – MINING PLAN MAP
WATER CONTROL FEATURES

Wagner Rock Pit Erosion Control Features

- Retention Pond #1
- Retention Pond #2
- Erosion Control Ditch

M1999-018 112C Permit

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# WAGNER ROCK PIT
# M-1999-018
## EXHIBIT C – MINING PLAN MAP
## MINING AREA DETAILED

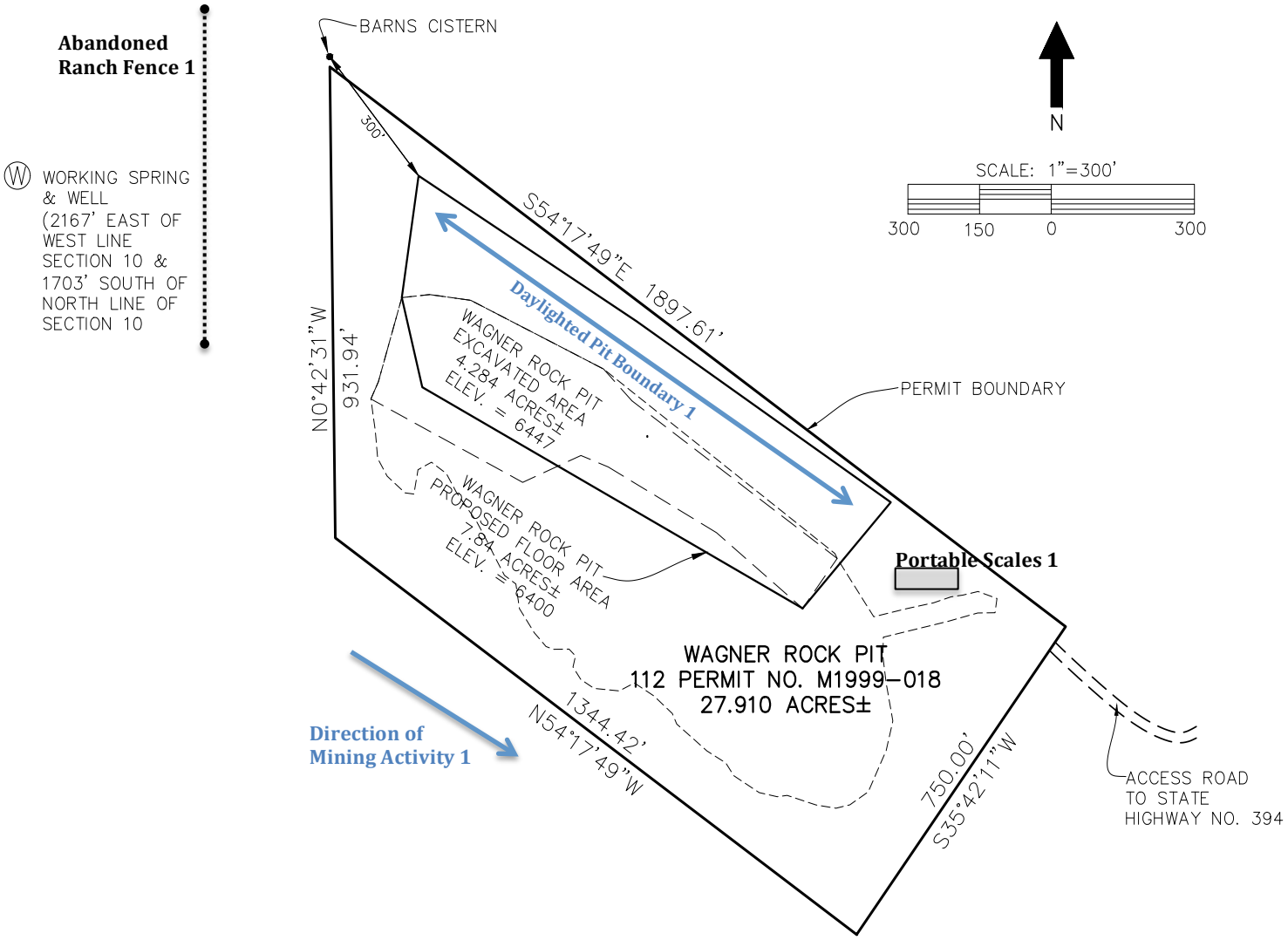

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**EXHIBIT D (6.4.4) – Mining Plan**

Wagner Construction Inc. (operators) will adhere to the same mining plan offered under the 110 Permit M-99-018 with expansion revision noted below in Subsection H.

a) Mining will commence upon approval of this permit, and end when necessary excavation has been completed and the requirements for agricultural improvements by landowner are satisfied.
Open pit mining will result in approximately 928 linear feet of 2 to 1 north facing slopes. The pit floor will be graded to drain with exposed aggregate. The north pit boundary will be day lighted without slope.

Methods are consistent throughout all stages.

Methods include:
Track hoe excavating all materials
Articulated Dump Truck hauling materials to the surface to the screening plant.

b) Mining Management – excavators, crushers, dozers, loaders, dump trucks
Present topsoil depth in this rock area is approximately six (6) inches in depth and is suitable as a plant growth medium. The topsoil will be salvaged for use in the landscaping, backfilling, and structural fill process. Topsoil from the mine excavation will be stockpiled for reclamation activities and stored at the highest point along the perimeter of the excavation. Topsoil piles will be sloped to a 2 to 1 angle and revegetated with the same pastureland seed mix as is referenced in the reclamation plan as recommended by the USDA. (Reference: Seed Mix attachment for Exhibit D. Topsoil removal will run concurrent with mining efforts. Limited areas will be stripped upon need. Seed bed preparation consisting of discing to eliminate compacted conditions, drill seeding and fertilizing of topsoil will be conducted annually as mining operations progress.
    a. Top Soil Management – excavators, dump trucks, loaders
The depth of the excavation of deposit will not exceed 60 (sixty) feet without technical revision.

c) Dry pit mining methods are used for extraction. No water will be used for mining. The excavation site is located at the highest point of a rock ledge and is considered a dry basalt operation at an expected depth of sixty (60) feet. Site surveys and existing excavations do not indicate the presence of ground water within the permit boundaries. If ground water is encountered backfill will be installed 2 feet above the encountered level and the office of the state engineer and the Division will be notified.

d) No runoff, impoundment, or groundwater can affect the excavation or affect the hydrologic balance, pre or post mine. Measures will be taken to minimize

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disturbance to the hydrologic balance. No fuels or other hazardous products will be stored on site.

A perimeter ditch is located along the south permit boundary that directs runoff to two small impoundment sediment containment features.

The pit self contains all runoffs and no runoff or ground water can affect hydrologic balance pre or post mining.

e) Permit area is being increased to 27.91 acres to provide additional acreage for material stockpiling, equipment storage, as well as accommodate future phases with 17 acres as the maximum amount disturbed within the permit area at any given time

f) Future mining is not anticipated to increase to more than 17 acres over a 20-year period. Mining operations over the last 16 years have resulted in the excavation of four (4) acres with a maximum .25-acre per year pit growth. Current 4+/_ acre pit floor will be excavated until a 60ft depth is reached. Mining will then extend to the north until northern limits of excavation (60ft) are attained resulting in the daylighting of the northern slope. Current access roads will be maintained and the only portable structure will remain in place for the permit life.

g) The general post-mined area will be leveled and graded with the existing rock in-situ to accommodate anticipated construction and agricultural building activities. 2:1 slope construction occurs during the mining process.
All materials with exception to topsoil are market products therefore overburden is not considered in this permit.
No waste material is anticipated as all primary product will be extracted and removed from the site.
The mined deposit is basalt with a thickness and depth that extends beyond the 60ft depth. The 60ft depth includes 4-6 inches of existing topsoil and mined material.

The nature of the stratum immediately beneath the material to be mined remains basalt to an indeterminate depth.

There are no permanent buildings used for mining. Temporary structures include:
Weighscales (see map)
Pit Road accessing excavation (see map)

h) Sand and gravel are the primary commodities to be mined.
i) The topsoil will be salvaged for use in the landscaping, backfilling, and structural fill process. Topsoil from the mine excavation will be stockpiled for reclamation activities and stored at the highest point along the perimeter of the excavation.
j) No explosives will be used in mining operations.

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WagnerCorp@q.com

# ATTACHMENT – USDA SEED MIX

USDA NRCS **Grass Seeding Planned and Applied Worksheet**

**Grass Seeding PART I - Planned**

| | | | |
|---|---|---|---|
| Cooperator | Jay Gardner | Date | 5/18/2019 |
| Tract/Field No | | Acres | 27.9 |
| Soil Survey Area | | Map Unit (s) | |
| Contract No. | | CIN | |

| | | | |
|---|---|---|---|
| Seeding dates | Oct. 1st - Nov. 15th | Purpose | Other |
| Seedbed preparation | No Till | Seed rate | Non-irrigated drilled (20 seeds/sq ft) |
| Drill type | no-till grass | Acres to be seeded | 27.90 |
| Planting depth-Drill spacing (in) | | | |

| | N | $P_2O_5$ | $K_2O$ |
|---|---|---|---|
| lanned fertilizer application (lb/ac) | | | |

A Nutrient Management Plan is not required for the establishment of vegetative conservation practices.

Planned weed control activities — Description: Herbicide; Date(s): when needed

Attach WIN-PST Soil-Pesticide Interaction Risk Report for all chemical suppression activities

Planned residue cover or mulch — Type: ; Amount (lb/ac): ; Application method:

**Seed Mix Recommendation, † ‡** **(PLS = Pure Live Seed)**

| Common name N=native, I=introduced | | Genus, species | Recommended Cultivar | % of seed mix | Total Pounds PLS | Pounds PLS per acre |
|---|---|---|---|---|---|---|
| **Grasses, forbs** | | | | | | |
| Wheatgrass, Thickspike | N | *Elymus lanceolatus lanceolatus* | | 10.0 | 15.90 | 0.57 |
| Wheatgrass, Western | N | *Pascopyrum smithii* | | 30.0 | 66.96 | 2.40 |
| Muttongrass | N | *Poa fendleriana* | | 5.0 | 0.70 | 0.03 |
| Prairie junegrass | N | *Koelaria macrantha* | | 10.0 | 1.12 | 0.04 |
| Needleandthread | N | *Hesperostipa comata* | | 5.0 | 7.53 | 0.27 |
| Bluegrass, Sandberg | N | *Poa secunda* | | 20.0 | 5.58 | 0.20 |
| Indian ricegrass - Nezpar, Rimrock | N | *Achnatherum hymenoides* | | 5.0 | 5.16 | 0.19 |
| Silvery lupine | N | *Lupinus argenteus* | | 1.0 | 15.62 | 0.56 |
| Utah sweetvetch | N | *Hedysarum boreale* | | 2.0 | 6.08 | 0.22 |
| Flax, lewis - Maple Grove | N | *Linum lewisii* | | 2.0 | 1.73 | 0.06 |
| Penstemon, Palmer | N | *Penstemon palmeri* | | 2.0 | 0.95 | 0.03 |
| Prairie clover, purple | N | *Dalea purpurea* | | 2.0 | 1.79 | 0.06 |
| | | | | 94.0 | | |
| **Shrubs (add shrub seed to grass - forb seed mix)** | | | | | | |
| Serviceberry, Saskatoon (M bloom) | N | *Amelanchier alnifolia* | 1.0 | | 0.56 | 0.02 |
| Sagebrush, Mountain Big | N | *Artemisia tridentata vaseyana* | 4.0 | | 2.79 | 0.10 |
| Rabbitbrush, Rubber | N | *Ericameria nauseosa* | 1.0 | | 0.70 | 0.03 |
| | | | | Shrubs | 4.05 | |
| | | | | Grasses, Forbs | 129.12 | |
| | | | | Total lbs PLS | 133.17 | |
| | | | | Seed Rate (Pounds PLS per acre) | | 4.77 |

† Certified Seed is required for all NRCS cost share programs

‡ Complete a Tree and Shrub Establishment 612 Job Sheet for bare-root shrub plantings

**Additional Recommendations**

P

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1006

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C031

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WHEN USED INTERNATIONALLY, A CUSTOMS DECLARATION LABEL MAY BE REQUIRED.

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Wagner
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Craig, CO. 81625

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DRMS - Permit Review
1313 Sherman St. #215
Denver, CO 80203

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EP14F July 2013
OD: 12.5 x 9.5

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