

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY
Department of Natural Resources

1313 Sherman St., Room 215
Denver, Colorado 80203
Phone: (303) 866-3567
FAX: (303) 832-8106

RECEIVED

APR 18 2014

DIVISION OF RECLAMATION
MINING AND SAFETY



CONSTRUCTION MATERIALS
REGULAR (112) OPERATION
RECLAMATION PERMIT APPLICATION FORM

CHECK ONE: ☐ There is a File Number Already Assigned to this Operation

Permit # M - - 1977 - 302 (Please reference the file number currently assigned to this operation)

☐ New Application (Rule 1.4.5)

☒ Amendment Application (Rule 1.10)

☐ Conversion Application (Rule 1.11)

Permit # M - 1977 302 (provide for Amendments and Conversions of existing permits)

The application for a Construction Materials Regular 112 Operation Reclamation Permit contains three major parts: (1) the application form; (2) Exhibits A-S, Addendum 1, any sections of Exhibit 6.5 (Geotechnical Stability Exhibit; and (3) the application fee. When you submit your application, be sure to include one (1) complete signed and notarized ORIGINAL and one (1) copy of the completed application form, two (2) copies of Exhibits A-S, Addendum 1, appropriate sections of 6.5 (Geotechnical Stability Exhibit, and a check for the application fee described under Section (4) below. Exhibits should NOT be bound or in a 3-ring binder; maps should be folded to 8 1/2" X 11" or 8 1/2" X 14" size. To expedite processing, please provide the information in the format and order described in this form.

GENERAL OPERATION INFORMATION

Type or print clearly, in the space provided, ALL information requested below.

1. Applicant/operator or company name (name to be used on permit): Pete Lien & Sons, Inc.
- 1.1 Type of organization (corporation, partnership, etc.): _____
2. Operation name (pit, mine or site name): Owl Canyon Quarry
3. Permitted acreage (new or existing site): 161.5 permitted acres
- 3.1 Change in acreage (+) 6 acres
- 3.2 Total acreage in Permit area 167.5 acres
4. Fees:
- | | | |
|--|-------------------|--------------------|
| 4.1 New Application | <u>\$2,696.00</u> | application fee |
| 4.2 New Quarry Application | <u>\$3,342.00</u> | quarry application |
| 4.4 Amendment Fee | <u>\$2,229.00</u> | amendment fee |
| 4.5 Conversion to 112 operation (set by statute) | <u>\$2,696.00</u> | conversion fee |
5. Primary commoditie(s) to be mined: Limestone
- 5.1 Incidental commoditie(s) to be mined:
- | | |
|-------------------------------|-------------------------|
| 1. <u>200,000</u> lbs/Tons/yr | 2. <u>/</u> lbs/Tons/yr |
| 3. <u>/</u> lbs/Tons/yr | 4. <u>/</u> lbs/Tons/yr |
| 5. <u>/</u> lbs/Tons/yr | |
- 5.2 Anticipated end use of primary commoditie(s) to be mined: Construction and Industrial Processes
- 5.3 Anticipated end use of incidental commoditie(s) to be mined: _____

✓ Annual Fee & Report
✓ No Violations

12. **Primary future (Post-mining) land use (check one):**

- | | | |
|--|--|--|
| <input type="checkbox"/> Cropland(CR) | <input type="checkbox"/> Pastureland(PL) | <input type="checkbox"/> General Agriculture(GA) |
| <input type="checkbox"/> Rangeland(RL) | <input type="checkbox"/> Forestry(FR) | <input checked="" type="checkbox"/> Wildlife Habitat(WL) |
| <input type="checkbox"/> Residential(RS) | <input type="checkbox"/> Recreation(RC) | <input type="checkbox"/> Industrial/Commercial(IC) |
| <input type="checkbox"/> Developed Water Resources(WR) | | <input type="checkbox"/> Solid Waste Disposal(WD) |

13. **Primary present land use (check one):**

- | | | |
|--|--|--|
| <input type="checkbox"/> Cropland(CR) | <input type="checkbox"/> Pastureland(PL) | <input type="checkbox"/> General Agriculture(GA) |
| <input type="checkbox"/> Rangeland(RL) | <input type="checkbox"/> Forestry(FR) | <input checked="" type="checkbox"/> Wildlife Habitat(WL) |
| <input type="checkbox"/> Residential(RS) | <input type="checkbox"/> Recreation(RC) | <input type="checkbox"/> Industrial/Commercial(IC) |
| <input type="checkbox"/> Developed Water Resources(WR) | | |

14. **Method of Mining:** Briefly explain mining method (e.g. truck/shovel): Open - Pit

15. **On Site Processing:** ☒ Crushing/Screening

13.1 Briefly explain mining method (e.g. truck/shovel): Open - Pit

List any designated chemicals or acid-producing materials to be used or stored within permit area: _____

16. **Description of Amendment or Conversion:**

If you are amending or converting an existing operation, provide a brief narrative describing the proposed change(s).

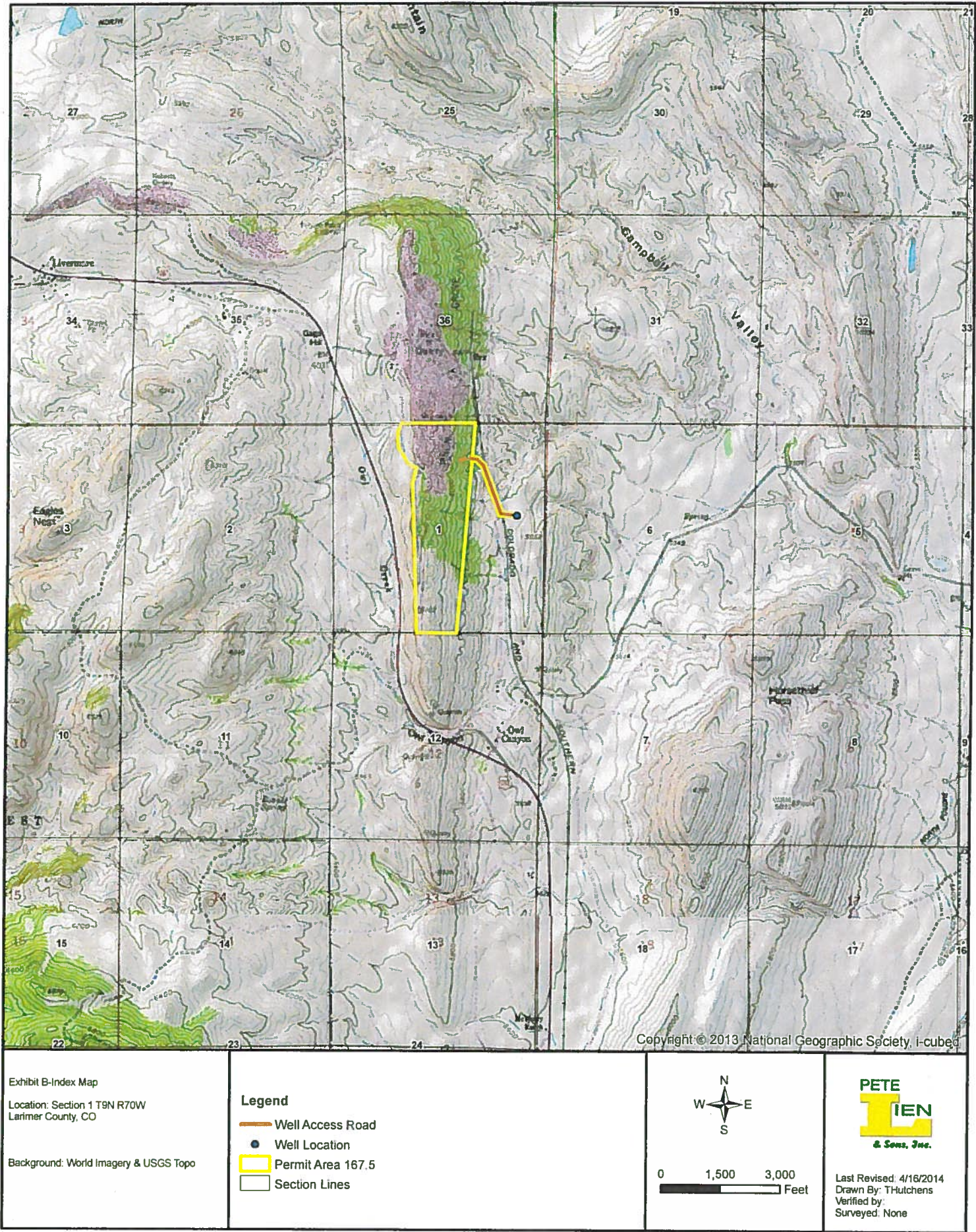
The total permitted affected acreage is 161.5 acres with an amendment request to add an additional 6 acres to allow for a new well access road. The total disturbance at any one time is currently limited to 167.5 acres by the bond.

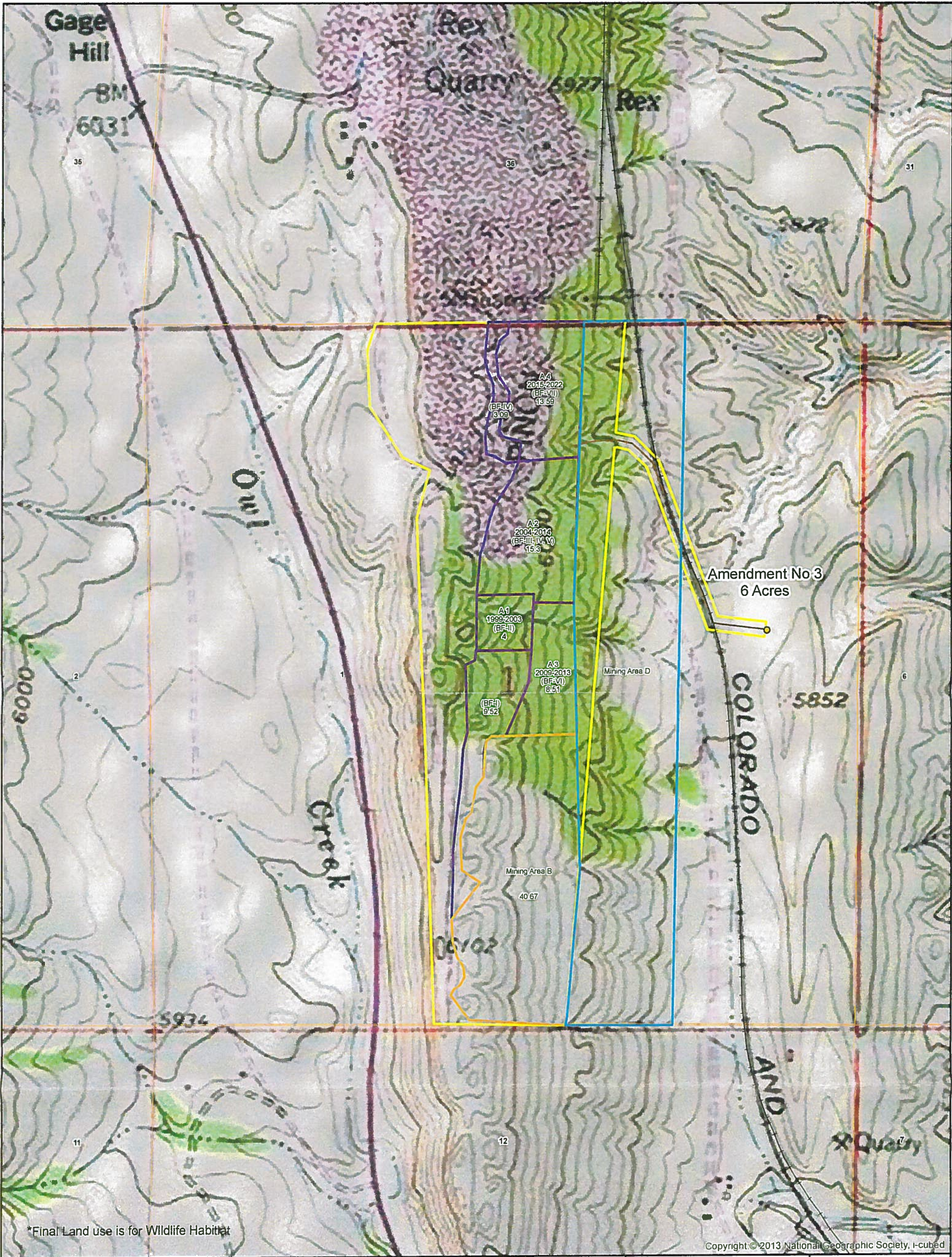
Exhibit A

Legal Description

W½ NE¼, W½ SE¼, E½ NW¼ lying East of Hwy 287, E½ SW¼ lying East of Hwy 287 and also including the well access road in the SE¼ NE¼, Section 1, Township 9 North, Range 70 West, 6th P.M., Larimer County, Colorado, approximately 161.5 acres.

Exhibit B





<p>Title: Owl Canyon Complex</p> <p>Location: Section 1 T9N R70W Larimer County, CO</p> <p>Background: World Imagery</p>	<p>Legend</p> <ul style="list-style-type: none"> Rail Road Well Access Road Section Lines A Mining Year (Back Fill Sequence) B Mining Year (Back Fill Sequence) Permit Boundary Acres 167.5 Future Mining Area D Well Location 	<p>0 330 660 Feet</p>	<p>PETE TIEN & Sons, Inc.</p> <p>Last Revised: 4/16/2014 Drawn by: THutchens Verified by: Surveyed: None</p>
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Exhibit D

MINING PLAN-2013 Revision

Owl Canyon Quarry

Mining will be accomplished in three phases or Mining Areas as outlined below, with stripping, back-filling and quarrying going on simultaneously within the 161.5 permit acres Mining Area A (the current mining area) is divided into blocks to further delineate progress within the quarry. These develop blocks were developed using both current and projected mining rates, and are subject to change based on market conditions. Planning for efficient and timely reclamation work also contributed to the revised mining sequence. Mining will progress to each of the next phase upon permit issuance (Mining Areas B and D) as previously mined and reclaimed acres are released.

The overburden material consists of sandstone rock, containing 50% SiO₂ and 50% CaCO₃. This material does break up and will generate considerable fines which will aid in subsequent revegetation. The underlying bed is again sandstone rock with the same chemical composition as that of the overburden. The parting plane between the limestone and the underlying sandstone is clearly defined, which results in a smooth hard floor after the limestone is removed. This would be very close to the existing terrain which is rock outcropping but in order to enhance reclamation, overburden will be placed over the bare rock to promote revegetation.

Conventional open pit quarrying methods will be used in this operation. Both the sandstone overburden and limestone will be drilled and blasted. The shot rock will then be loaded and hauled to the crushing, screening, and stockpiling area. Necessary roads will be constructed as required to provide the access to the mining operations. The roads will be constructed primarily with the overburden material and covered with 3" to 12" of ¾" minus limestone or sandstone. Roadways will not need to be constructed outside the disturbed area and will be graded, covered, or scarified to facilitate revegetation.

Mining Area A

This is the current mining area and will remain open until the year 2022, depending on demand for material. Limestone and sandstone will be removed. This will be accomplished by conventional open pit drilling and blasting methods. Limestone is being loaded and hauled to the crushing and stockpile area for processing and sizing. Sandstone and recoverable dolomite are loaded and hauled to the crushing and stockpile area for processing, or to back fill areas.

The total area has been divided into smaller areas numbered A1, A2, A3, and A4. Stripping and quarrying will progress through those areas in that sequence, unless demand or market conditions change. Overburden from current operations is being backfilled in Back Fill Area I (BF I)

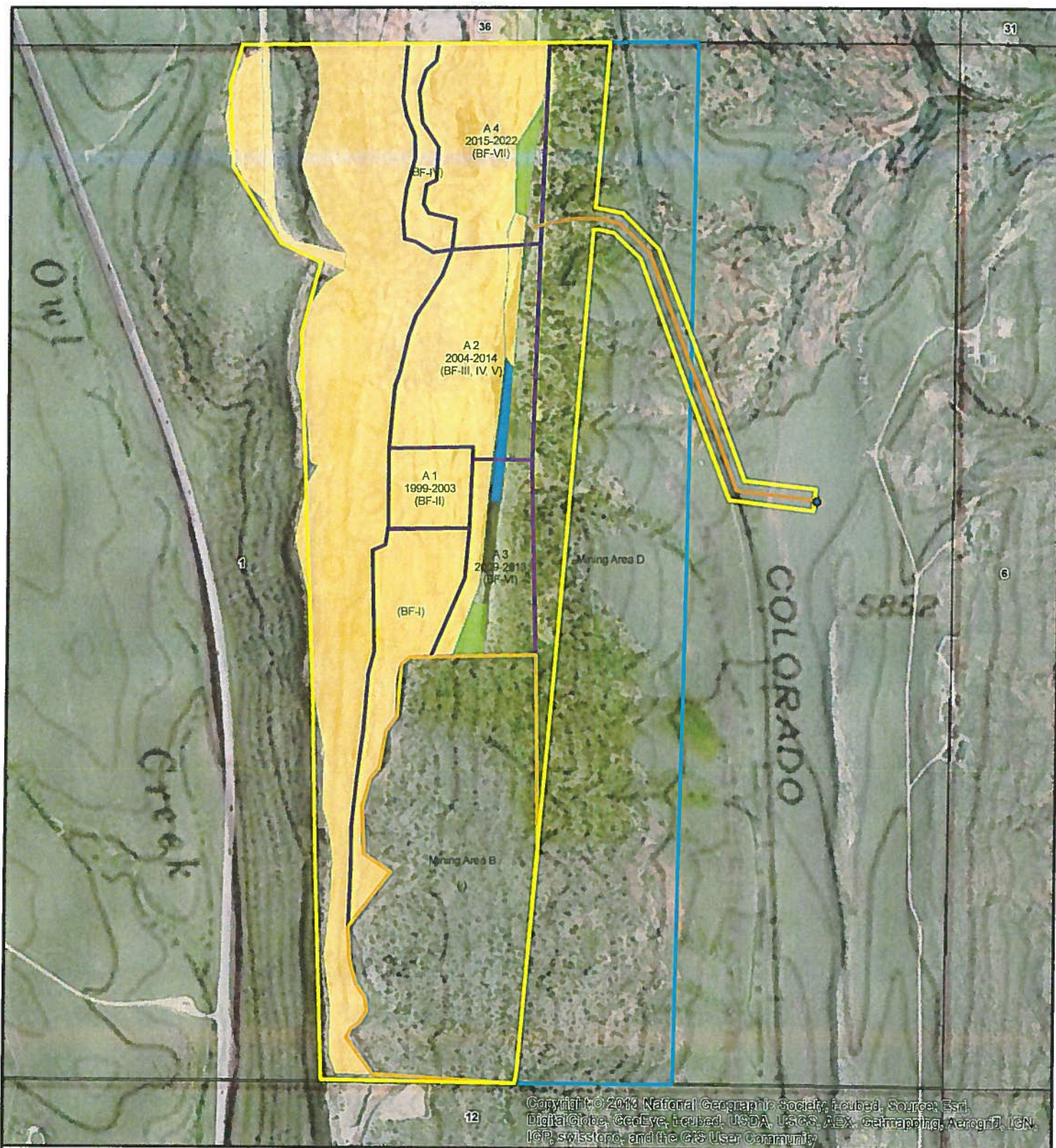
Subsequent Back Fill Areas are numbered BF II through BF XII and maintain the same boundaries as Mining Area A1 through A4. Once Back Fill Area, BF I, is full and the area contoured for reclamation,

backfilling will proceed to BF II and then BF III, BF IV, BF V, BF VI, BF VIII, BF IX, BF X, BF XI, and BF XII. The general plan is to have backfilling and reclamation occurring as closely behind quarrying as possible. While overburden is being removed from Mining Area A2, backfilling will be taking place in Back Fill Area BF II, from there backfilling will begin in BF IV and proceed east and then south as mining areas are depleted. Overall depths of overburden will vary but a minimum depth of two (2) feet will be maintained to provide a sufficient base for vegetation.

Mining Area B, D









Additional reserves within the future permit boundary are outlined in Mining Areas B (possible reserves) and Mining Area D (probable reserves). These reserves will be evaluated, permitted, and mined as previously mined acres are reclaimed and released from the Reclamation Board.

MP-1



MP-1
Location: Section 1 T9N R70W
Larimer County, CO
Background: World Imagery & USGS Topo

Legend

	Well Access Road	Mining Area	
	Well Location		A, Owl Canyon
	Previously Disturbed		B, Owl Canyon
	2006-2007 Disturbance		Future Mining Area D
	2010-2011 Disturbance		
	Permit Area 167.5		
	Section Lines		

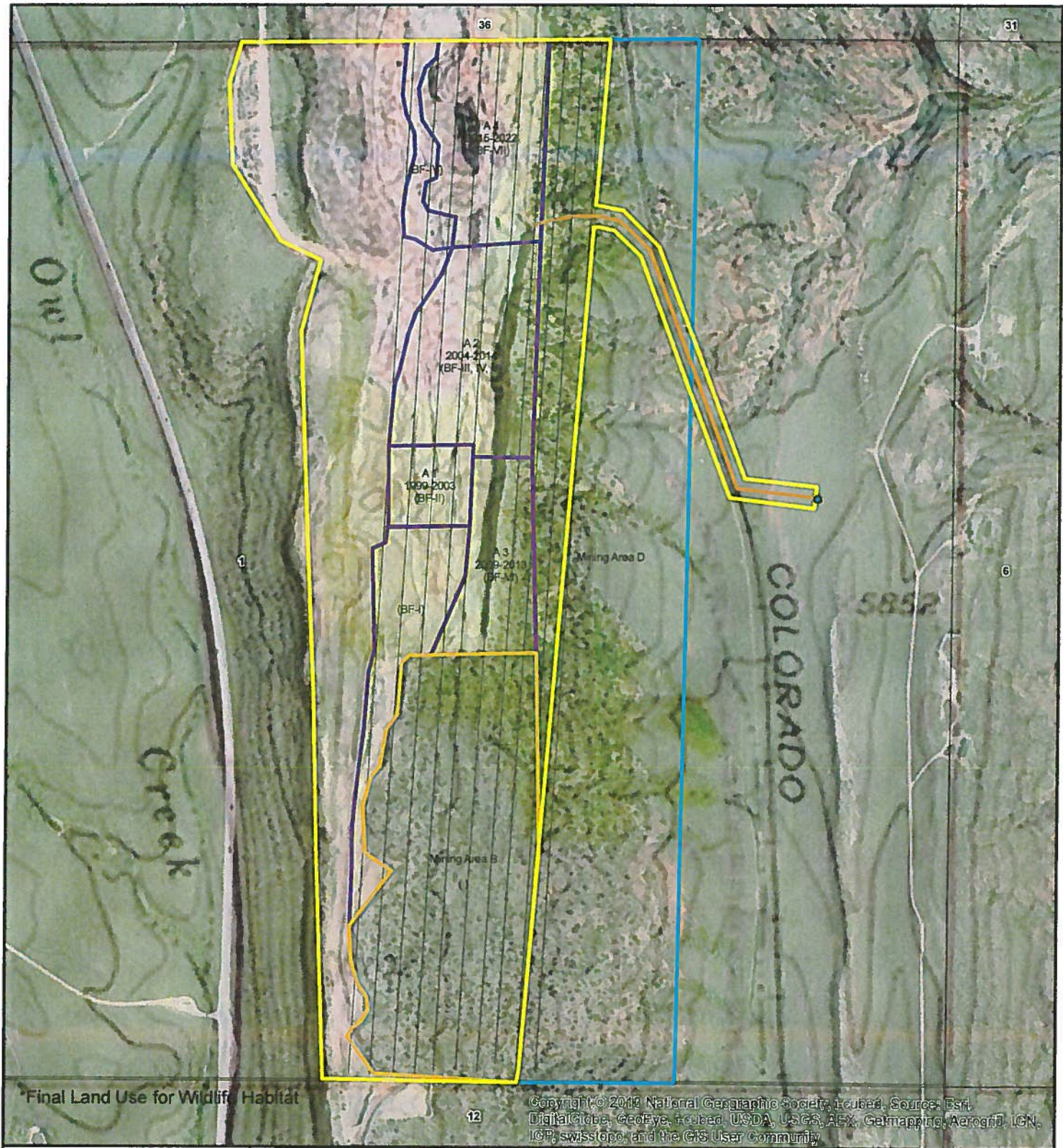


0 330 660 Feet

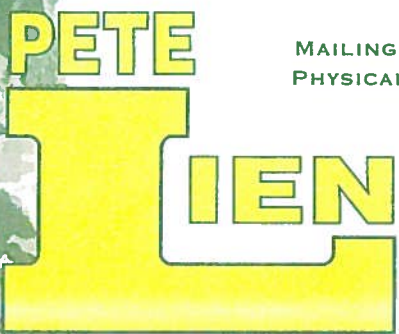


Last Revised: 4/16/2014
 Drawn By: THutchens
 Verified by:
 Surveyed: None

Exhibit F



<p>Exhibit F- Reclamation Plan Map</p> <p>Location: Section 1 T9N R70W Larimer County, CO</p> <p>Background: World Imagery & USGS Topo</p>	<p>Legend</p> <table border="0"><tr><td>Well Access Road</td><td>Mining Area</td></tr><tr><td>Well Location</td><td>A, Owl Canyon</td></tr><tr><td>Permit Area 167.5</td><td>B, Owl Canyon</td></tr><tr><td>Section Lines</td><td>Post Mining Contours_OwlCanyon</td></tr><tr><td></td><td>Future Mining Area D</td></tr></table>	Well Access Road	Mining Area	Well Location	A, Owl Canyon	Permit Area 167.5	B, Owl Canyon	Section Lines	Post Mining Contours_OwlCanyon		Future Mining Area D	<p>N W E S</p> <p>0 330 660 Feet</p>	<p>PETE LIEN & Sons, Inc.</p> <p>Last Revised: 4/16/2014 Drawn By: THutchens Verified by: Surveyed: None</p>
Well Access Road	Mining Area												
Well Location	A, Owl Canyon												
Permit Area 167.5	B, Owl Canyon												
Section Lines	Post Mining Contours_OwlCanyon												
	Future Mining Area D												



MAILING ADDRESS: P.O. Box 440 RAPID CITY, SD 57709-0440 PH. 605-342-7224
PHYSICAL ADDRESS: 3401 UNIVERSAL DR. RAPID CITY, SD 57702 FX. 605-342-6979

& Sons, Inc.

April 15, 2014

Michael A. Cunningham
Environmental Protection Specialist
Colorado Division of Reclamation, Mining and Safety
Department of Natural Resources
1313 Sherman St. Room 215
Denver, CO 80203

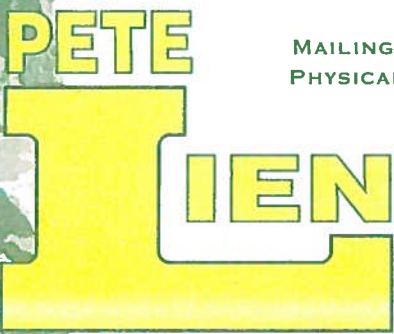
RE: Pete Lien & Sons, Inc. Revision to Owl Canyon Quarry; DRMS File No. M-1977302;
Adequacy Review-Amendment No.3

Dear Mr. Cunningham,

Pete Lien & Sons, Inc. (PLS) has prepared the enclosed revisions to be inserted and to replace the corresponding pages in the Construction Materials Regular 112 Operation Reclamation Permit Application, Owl Canyon Quarry; DRMS File NO. M-1977302 Amendment No. 3 received on November 12, 2013. The following have been revised and are enclosed:

- Pages 1 & 4 of the Construction Materials Regular (112) Operation Reclamation Permit Application Form
- Exhibit A - Legal Description
- Exhibit B – Index Map
- Exhibit C – Revised Pre-Mining and Mining Plan Map
- Exhibit D – Mining Plan (2013 Revision) and MP-1 (Mine Plan Map)
- Exhibit F – Reclamation Plan Map

Please don't hesitate to contact me with any additional questions or for further clarification at (605) 939-2690 or CBeck@petelien.com.



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PHYSICAL ADDRESS: 3401 UNIVERSAL DR. RAPID CITY, SD 57702 Fx. 605-342-6979

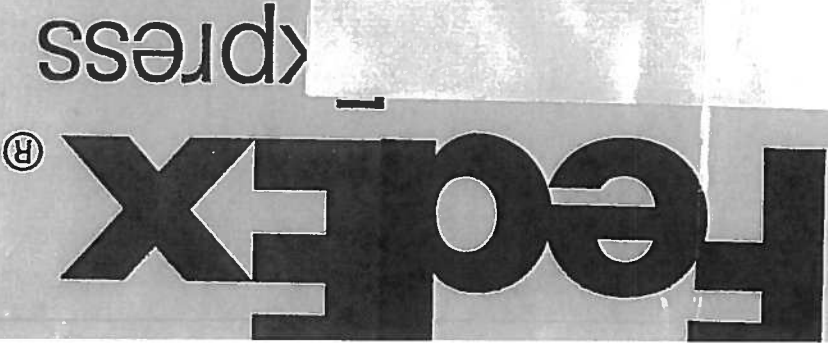
& Sons, Inc.

Respectfully,
Pete Lien & Sons, Inc.

A handwritten signature in blue ink, appearing to read "C. Beck", is written over a horizontal line.

Clinton D. Beck
Environmental Coordinator
Office: (605) 939-2690
Cell: (605) 519-1213
Email: CBeck@petelien.com

Enclosures (6)



Extremely Urgent

From: (805) 939-2690
Clint Beck
Pete Lien & Sons, Inc.
3811 Universal Dr.
RAPID CITY, SD 57709

Origin ID: RAPA



Ship Date: 17APR14
ActWgt: 10 LB
CAD: 3034015/NET3490

SHIP TO: (303) 866-3567

BILL SENDER

J14101402070326

Michael Cunningham
Colorado Division of Reclamation
1313 Sherman Street
Room 215
DENVER, CO 80203

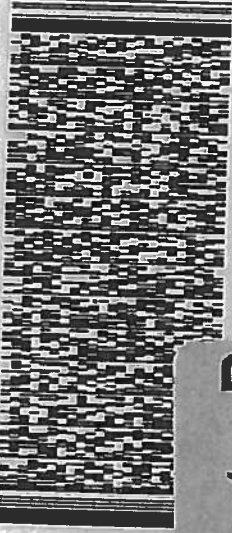
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Division of Reclamation,
Mining & Safety

FRI - 18 APR 10:30A
PRIORITY OVERNIGHT

TRK# 7985 7724 6607



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FZ 455 6607 04.18

