

April 11, 2014

**Sent via Email on April 11, 2014**

Utah Division of Oil, Gas & Mining Coal Program (DOGM)  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Dear Permit Supervisor:

**Subject:** Intermountain Power Agency (IPA) Response to Deficiencies Identified in April 3, 2014 DOGM letter to IPA regarding Wildcat Loadout Facility, C/007/0033

IPA is respectfully submitting via email amendments to our DOGM Permit C/007/0033 Wildcat Loadout Mining and Reclamation Plan. These amendments are in response to DOGM's April 3, 2014 letter to IPA regarding deficiencies identified in IPA's March 10, 2014 permit amendment in response to NOV # 10132.

An electronic copy of all submittal materials have been sent to DOGM via email to [ogmcoal@utah.gov](mailto:ogmcoal@utah.gov) on April 11, 2014.

Please let us know if you have any comments once your staff has had the opportunity to review the enclosed information.

If you have any comments or questions, please contact me at (801) 748-1471.

Sincerely,



Lance C. Lee  
Project Manager  
Intermountain Power Project

cc: James A. Hewlett (via email)  
Intermountain Power Agency  
Minh T. Le (via email)  
William W. Engels (via email)

## APPLICATION FOR COAL PERMIT PROCESSING

Permit Change  New Permit  Renewal  Exploration  Bond Release  Transfer

**Permittee:** INTERMOUNTAIN POWER AGENCY

**Mine:** WILDCAT LOADOUT

**Permit Number:**

C/007/0030

**Title:** RESPONSE TO TASK ID #4521

**Description,** Include reason for application and timing required to implement:

**Instructions:** If you answer yes to any of the first eight questions, this application may require Public Notice publication.

- Yes  No 1. Change in the size of the Permit Area? Acres: 6.83 Disturbed Area: 6.83  increase  decrease.
- Yes  No 2. Is the application submitted as a result of a Division Order? DO# \_\_\_\_\_
- Yes  No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes  No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes  No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes  No 6. Does the application require or include public notice publication?
- Yes  No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes  No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes  No 9. Is the application submitted as a result of a Violation? NOV # 10132
- Yes  No 10. Is the application submitted as a result of other laws or regulations or policies?

*Explain:* \_\_\_\_\_

- Yes  No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes  No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes  No 13. Does the application require or include collection and reporting of any baseline information?
- Yes  No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes  No 15. Does the application require or include soil removal, storage or placement?
- Yes  No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes  No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes  No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes  No 19. Does the application require or include certified designs, maps or calculation?
- Yes  No 20. Does the application require or include subsidence control or monitoring?
- Yes  No 21. Have reclamation costs for bonding been provided?
- Yes  No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes  No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
- Yes  No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

**Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you.** (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

JAMES HEWLETT

RESIDENT AGENT

4-11-14

*[Handwritten Signature]*

Print Name

Position

Date

Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 11 day of April, 2014

Notary Public: Michelle R Miller, state of Utah.

My commission Expires: 8-30-2015

Commission Number: 1013249

Address: 10653 So. Riverfront Parkway Suite 100

City: South Jordan State: UT Zip: 840950



<b>For Office Use Only:</b>	<b>Assigned Tracking Number:</b>	<b>Received by Oil, Gas &amp; Mining</b>

# APPLICATION FOR COAL PERMIT PROCESSING

## Detailed Schedule Of Changes to the Mining And Reclamation Plan

**Permittee:** INTERMOUNTAIN POWER AGENCY  
**Mine:** WILDCAT LOADOUT **Permit Number:** C/007/0030  
**Title:** RESPONSE TO TASK ID #4521

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

### DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED

			DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
<input type="checkbox"/> Add	<input type="checkbox"/> Replace	<input checked="" type="checkbox"/> Remove	CHAPTER 2 PAGE 2-1
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	CHAPTER 2 PAGE 2-1
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<input type="checkbox"/> Add	<input type="checkbox"/> Replace	<input checked="" type="checkbox"/> Remove	APPENDIX R PAGE 10
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<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove	PLATE 13A - NEW TOPSOIL PILE "A-1" (INSITU)
<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove	DRAWING "2014 MECHANICAL TREATMENT & SEEDING AREA" TO ADDENDUM
<input type="checkbox"/> Add	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove	TO APPENDIX P
<input type="checkbox"/> Add	<input type="checkbox"/> Replace	<input type="checkbox"/> Remove	
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<b>Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.</b>	<b>Received by Oil, Gas &amp; Mining</b>
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**SOILS**

*HISTORICAL NOTE: In 2004, the Division issued an Order DO-04 for wind-blown fines which had accumulated outside the disturbed area, primarily in the area southwest of the main coal storage pile below sediment Pond B. A complete description of the mitigation plan proposed for DO-04 is included in Appendix P.*

*Additionally, An Addendum to Appendix P has been included to reflect actions taken to mitigate NOV No. 10132 issued on November 26, 2013, which includes defining 6.83 acres of previously undisturbed area as disturbed area. with the topsoil to remain in place as per Priscilla Burton's recommendation. The Division's soil scientist, Priscilla Burton, suggested and Division management concurred that protection of the topsoil resource "insitu" was preferable to salvage and storage of topsoil, based on a lack of immediate need for expansion, limited activity foreseen at the site, and the historic difficulty in revegetation of topsoil stockpiles in this climate. This 6.83 acre area was included in the 2003 soil survey. (Refer to Appendix D)*

I. Soil Survey and Vegetation Inventory (please see Appendix D, *Appendix D Supplement*, and Appendix I).

1. Introduction

Appendix D is a survey conducted by the SCS in the Wildcat area and depicts the major soil types here. Appendix D also includes a survey including sampling as performed by Earl Jensen consulting as a soil scientist. Included in this survey is a soil profile description for each soil type identified on the permit area. Plate 11 depicts the soils as outlined by the Order 3 Survey performed by the SCS.

**PREMINING SOIL RESOURCES**

The entire disturbed area, with the exception of approximately 20 acres, was disturbed pre-law by previous owners, and no topsoil was saved.

Topsoil was removed prior to construction in 1984, and stored and protected for use in final reclamation. Please see Plate 13C for a summary of stored topsoil. Appendix D also includes a topsoil mass balance and includes soil quality data from the Utah State University Testing Laboratory. The mass balance indicates that there may not be sufficient volume of topsoil for final reclamation. IPA has committed to identifying and testing for suitable substitute material either off the permit area or possibly within

twelve inches and placed on the new topsoil storage pile on the west side.

\*\* It should also be noted that, under the plan to address the Division Order DO-04 (wind-blown fines), the company commits to salvaging 6" of topsoil from the clean-up area shown on Plate 1A. It is estimated that about 3000 cubic yards of material will be salvaged at that time. The material will be stored as an extension to existing Topsoil Pile A which is located nearby. For a complete description of the topsoil salvaging and stockpiling plan associated with Division Order DO-04, refer to Appendix P.

In March of 2014, coal fine accumulations greater than 4" in the 6.83 acre area were mechanically removed and the area seeded. At such time as the fines reach 4" or greater in depth, this operation will be repeated.

Backfilling, Grading, and Soil Replacement and Stabilization  
(Also R645-301-232.400)

All disturbed areas will be backfilled and graded to as near as possible the approximate original contour with the exception of the natural drainage which came through the loadout site prior to Swisher Coal Company's establishment of their loadout facility. Andalex has diverted this natural drainage and IPA will provide permanent protection of this diversion once reclamation is complete. Please refer to Appendix R, re Undisturbed Diversions for more detail. Slopes shall not exceed the angle of repose or such lessor slopes as required by the regulatory authority to maintain stability. Fill material will be compacted to assure stability. This is a flat lying area and therefore stabilization should be achieved easily.

Areas which will be backfilled include foundation areas such as the loadout, the reclaim tunnels (including the expanded reclaim system), and the truck dumps. All backfilled and regraded areas, including the Wildcat Expansion areas, will be reclaimed. Areas to be regraded include the loadout site, stockpile sites, and roads. These areas can all be regraded simultaneously because of the simple topography of the

area. Where possible, all final grading and placement of topsoil will be done along the contour to minimize erosion.

In all cases, grading will be conducted in a manner which minimizes erosion and provides a stable surface for the placement of topsoils.

Upon reclamation, topsoil will be hauled to the area by end dump trucks, piled and spread using a grader. Where possible, the soil will be distributed along the contour. The thickness of the re-established soil will be consistent with soils in the vicinity and will be sufficient to support vegetation equal to or superior to pre-mining history. As previously mentioned, Andalex was unable to gather topsoil because of the previous disturbance. However, IPA has committed to identifying and testing topsoil substitute areas either within or outside of the permit area as needed so that

upon final reclamation, the entire disturbed area of approximately ~~81.79~~ 88.62 acres can be resurfaced with six inches of topsoil or less if allowed by the Division (please see Plate 1 for the location of these topsoil substitute areas. They are identified on Plate 1 as revegetation test plots.) Existing topsoil piles on site total approximately 464,499 cubic feet (17,204 cubic yards) of material. IPA feels and it is apparent from the soils inventory, that much of the fill material used onsite could be used as topsoil substitute. As previously mentioned, four topsoil substitute areas have been identified and are shown on Plate 1. Soil samples from these locations have been analyzed and the results are included in Appendix N. Once it has been determined that the substitute material is suitable for reclamation purposes, the actual area of substitute material will be carefully outlined on Plate 1 and the volumes included in the Topsoil Pile Summary. These areas have been protected from wind and water erosion through revegetation using the currently approved seed mixture. Please refer to Appendix D for the specific methods for this

Note: Refer to Plate 14 for cross-section locations.

At the request of the Division, no extraordinary compaction will be applied to the last few lifts during the recontouring/grading, to provide a relatively loose rooting zone of four feet. This loose application of fill will eliminate the need for ripping prior to topsoil placement. During this operation, if it is determined that additional sediment control measures are needed for the diversions leading to the four ponds, they will be put in at this time. These measures might include rock check dams or straw dikes.

The next steps in Phase I will not take place until the fall of whatever year we are in at this point. So far the project has taken 14 to 15 months. The next two steps in the process are topsoil redistribution, where additional substitute will be hauled in if necessary, and revegetation. Once the topsoil is spread, the area will be ~~roughened by gouging~~ graded on the contour, and the area will be hydroseeded and hydromulched. The entire revegetation procedure is described in this chapter.

Finally in Phase I, monitoring will commence. Observations of revegetation success and slope stability will be observed. If any part of this is unsuccessful, corrective measures will be taken.

Since IPA estimates a minimum of two years before vegetation has taken hold to prevent erosion, then the entire Phase I project will take at least 3-1/2 years.

### Phase II

Phase II of the reclamation will commence as soon as the monitoring of Phase I allows.

All that is left at this point is the removal (recontouring) of Ponds A, C, and D and the removal of the field fence surrounding the permit area. Once the

test plots, including the newest plot will be analyzed for: soil color, texture, pH, organic carbon, saturation percentage, alkalinity, electrical conductivity, calcium carbonate percentage, sodium absorption ratio, soluble potassium, magnesium, calcium, sodium, total nitrogen, available phosphorous, available water capacity, and percent rock fragments. The results can be found in Appendix N. Once any of the areas of substitute material have been determined suitable for reclamation, all or part of these areas will be carefully outlined on Plate 1 and the volumes necessary to make up the current topsoil deficit, will be included in the Topsoil Pile Summary. This will require approximately 31,954 additional cubic yards of material.

Prior to final reclamation, samples will be taken of the stored topsoil to determine any deficiencies which would affect the growth of newly revegetated areas. Any deficiencies will be corrected by adding to the soil chemical fertilizers, organic mulch, or any other substances recommended by the regulatory authority. Preparation techniques such as discing will be incorporated.

#### Species and Amounts of Seeds and Seedlings

A reference area has been established by Andalex and DOGM. The sagebrush/grass reference area was used in combination with a vegetation inventory to determine the final seed mixture and amounts of seed to be used for final reclamation.

The following seed mixture, was developed by Mt. Nebo Scientific in conjunction with the vegetation inventory and UDOGM comments.

#### Planting and Seeding Methods

All reclaimed areas will be stabilized by ~~gouging-grading to contour~~ prior to reseeding. ~~The gouging will be done with a backhoe or trackhoe, and will consist of gouges at least 18" deep by 24" - 36" wide, spaced 6' - 10' apart.~~ All areas will then be hydroseeded and

hydromulched.

### Mulching Techniques

Vegetative cover will be promptly re-established following cessation of mining activities to stabilize erosion. Re-seeding will occur during the first normal period for favorable growth following regrading. Mulch will be applied to all reseeded areas. Areas which are hydromulched will be done so using an organic type mulch at the rate of one ton per acre. Where hydroseeding and hydromulching occur, a tackifier will be added to both the seed and the mulch.

Mulch will be used wherever seeds are planted. All disturbed areas will be reseeded. These areas are shown on Plate 1B and constitute ~~75.67~~ 88.62 acres. (Not including the Utah Railway tracks).

<b>Wildcat Loadout Final Seed Mixture</b>			
<b>Scientific Name</b>	<b>Common Name</b>	<b>#PLS/Acre</b>	<b>PLS/ft<sup>2</sup></b>
<i>Ephedra viridis</i>	Green Mormon tea	1.75	1.0
<i>Artemisia tridentata</i> var. <i>wyomingensis</i>	Wyoming Big sagebrush	0.02	1.0
<i>Ceratoides lanata</i>	Winterfat	1.25	1.5
<i>Artemisia nova</i>	Black sage	0.5	1.0
<i>Atriplex gardneri</i>	Gardner saltbush	0.4	1.0
<i>Archillea millefolium</i>	Yarrow	0.09	0.2
<i>Hedysatum boreale</i>	Northern sweetvetch	0.2	0.2
<i>Sphaeralcea ambigua</i>	Desert globemallow	0.6	1.0
<i>Penstemon palmeri</i>	Palmer penstemon	0.4	0.5
<i>Heliomeris multiflora</i>	Showy goldeneye	0.04	1.0
<i>Castilleja applegatei</i>	Early Indian paintbrush	0.01	1.0
<i>Oenothera speciosa</i>	Showy evening Primrose	0.02	1.0
<i>Bouteloua gracilis</i>	Blue grama	0.13	2.5
<i>Pascopyrum smithii</i>	Western wheatgrass	1.0	2.5
<i>Elymus trachycaulus</i>	Slender wheatgrass	0.7	2.5
<i>Pleuraphis jamesii</i>	Galleta	2.5	5.0
<i>Hesperostipa comata</i> ssp. <i>comata</i>	Needle-and-thread grass	1.4	5.0
<i>Achnatherum hymenoides</i>	Indian ricegrass	1.6	5.0
<i>Sporobolus cryptandrus</i>	Sand dropseed	0.04	5.0
<b>TOTALS</b>		<b>12.65</b>	<b>37.9</b>

**Interim Mix for broadcast seeding at Wildcat Loadout**

<u>Scientific Name</u>	<u>Common Name</u>	<u>PLS/ft<sup>2</sup></u>	<u># PLS/acre</u>
1) <b><u>FORBS</u></b> (Choose two species from the list below to arrive at 7 PLS/ft <sup>2</sup> )			
<i>Achillea millefolium var. occidentalis</i>	Western yarrow	3.5	0.09
<i>Sphaeralcea ambigua</i>	Desert globemallow	3.5	0.3
<i>Castilleja applegatei ssp. martinii</i>	Early Indian paintbrush	3.5	0.03
<i>Baileya multiradiata</i>	Desert marigold	3.5	0.14
<i>Oenothera speciosa</i>	Showy evening primrose	3.5	0.06
<i>Heliomeris multiflora</i>	Showy goldeneye	3.5	0.15
Sub TOTAL for FORBS		<b><u>7.0</u></b>	
2) <b><u>Cold Season GRASSES</u></b> (Choose two cold season species from the list below to arrive at 10 PLS/ft <sup>2</sup> )			
<i>Pascopyrum smithii</i>	Western wheatgrass	5.0	2.0
<i>Achnatherum hymenoides</i>	Indian ricegrass	5.0	1.6
<i>Bromus anomalus</i>	Nodding brome	5.0	1.5
<i>Elymus lanceolatus</i>	Thickspike wheatgrass	5.0	1.4
<i>Elymus trachycaulus</i>	Slender wheatgrass	5.0	1.4
<i>Hesperostipa comata</i>	Needle & thread grass	5.0	1.8
Sub TOTAL for COLD SEASON GRASSES		<b><u>10.0</u></b>	

Continued next page

Table continued from previous page

<u>Scientific Name</u>	<u>Common Name</u>	<u>PLS/ft<sup>2</sup></u>	<u># PLS/acre</u>
<b>3) Warm Season GRASSES</b> (Choose two warm season species to arrive at 10 PLS/ft <sup>2</sup> )			
<i>Aristida pupurea</i>	Purple threeawn	5.0	0.87
<i>Bouteloua gracilis</i>	Blue grama	5.0	0.26
<i>Eragrostis trichodes</i>	Sand lovegrass	5.0	0.15
<i>Pleuraphis jamesii</i>	Galleta grass	5.0	1.4
<i>Sporobolus airoides</i>	Alkali sacaton	5.0	0.12
<i>Sporobolus cryptandrus</i>	Sand drop seed	5.0	0.04
<b>Sub TOTAL Warm Season GRASSES</b>		<u>10.0</u>	
<b>TOTAL Forbs and Grasses (warm &amp; cold season) for Interim mix</b>		<u>27.0</u>	

Management Practices, e.g., Irrigation, Pest, and Disease Control

No mechanical irrigation will be used because of the lack of water in the area. Vegetative growth will be subject to normal rainfall and winter snowfall. Vegetation will be protected from both wildlife and livestock by drift-fences until the reclaimed areas have been adequately re-established. Upon approval, the fences will be removed. Fences are already standing surrounding the permit area. Pesticides and herbicides will be used as necessary. Should any persistent pesticides be needed, the Division's approval will be obtained prior to their use.

Measures to Determine Success

Revegetation will be closely monitored. Areas which fail to support sufficient growth to stabilize conditions will be tested and reseeded until a proper cover is established.

## 2.11 Alternate Sediment Control Areas (ASCA)

There will be 8 Alternate Sediment Control Areas (ASCA) remaining on this site. The ASCA designations are ASCA-1, ASCA-2, ASCA-3, ASCA-4, ASCA-5, ASCA-6, ASCA-7 and ASCA-8. Only areas not able to be drained to sediment ponds are included as ASCA's. All ASCA's are existing, except ASCA-8, which will be added for the outslope of new Sediment Pond "G".

**A temporary ASCA has been created in the northernmost area of the proposed disturbed area by the utilization of excelsior logs as treatment, to prevent any coal fines from entering into the wash that enters the permit area from the west. It is the operators intent that, upon approval of the 6.83 acre disturbed area addition, an application will be submitted immediately to expand the existing permit boundary by 22 acres, and defining this addition as disturbed area. Pursuant to that submittal, a larger ASCA is proposed for the northern drainage as well as 2-3 other ASCA's to control sediment.**

The following are descriptions of each of the ASCA's and methods of treatment:

**ASCA-1** - This is the area west of the railroad right-of-way and scale house access road. The area is approximately 0.76 acres and is treated for sediment control by vegetation.

**ASCA-2** - This is an existing ASCA area on the outslope east of Sediment Pond E. The area is approximately 0.15 acres and is treated by vegetation.

**ASCA-3** - This is an area north of new Sediment Pond "G", and includes the area proposed for vacuum cleaning. The area is approximately 2.32 acres and is treated for sediment by straw bales and vegetation.

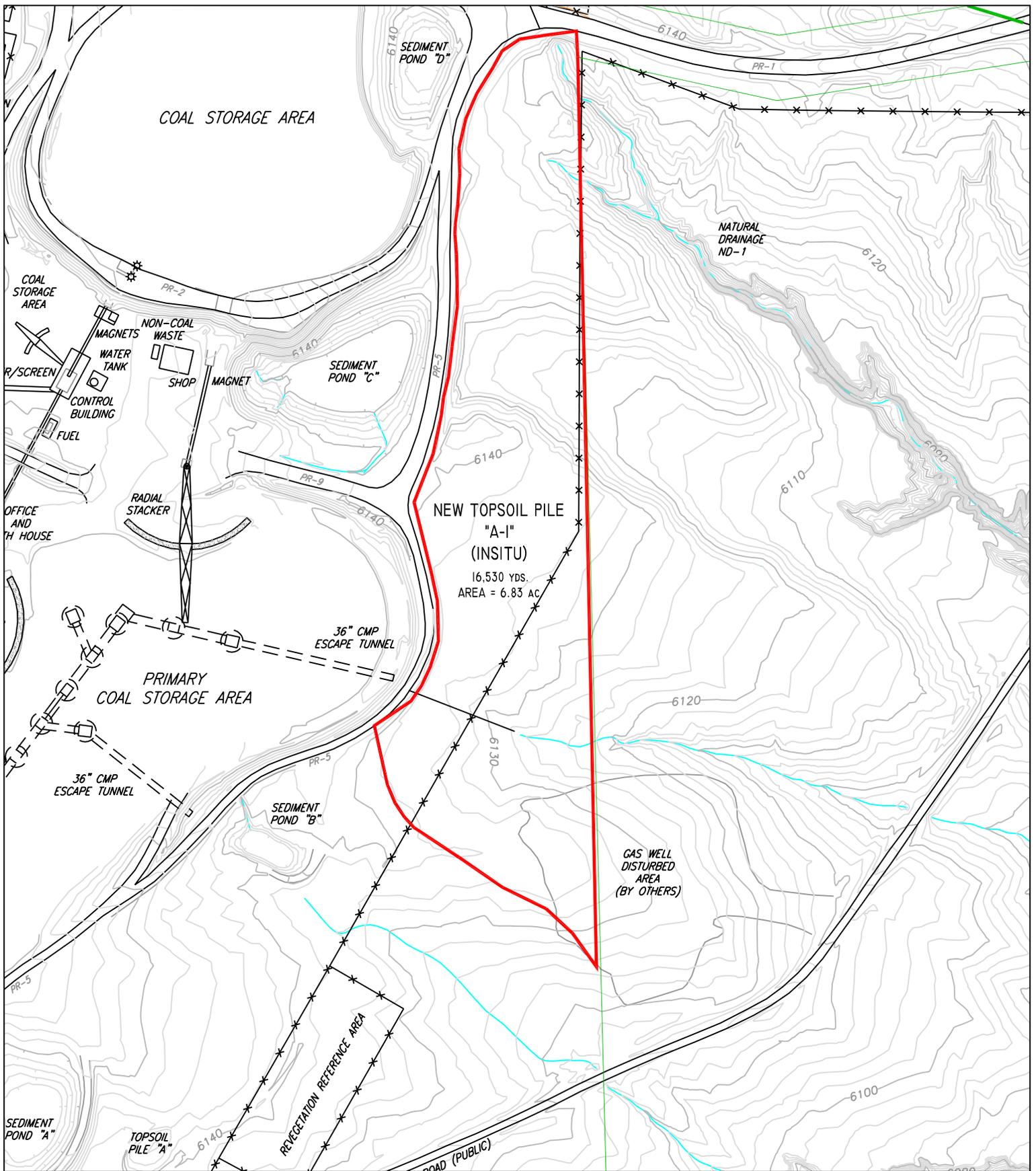
**ASCA-4** - This is the area surrounding Sediment Pond "A" and including Topsoil Storage Pile A. This is an area of approximately 2.73 acres and is treated by straw bales and vegetation.

**ASCA-5** - This is the area south and west of Topsoil Storage Piles E and B, including those piles. The area is approximately 1.71 acres, and is treated by a combination of berms, straw bales and vegetation.

**ASCA-6** - This is an area southeast of the train loading facility along the Disturbed Area boundary. It is approximately 1.08 acres and is treated by vegetation.

**ASCA-7** - This is Topsoil Storage Pile F. It is approximately 0.30 acres and is treated by a berm and vegetation.

**ASCA-8** - This will be a new ASCA located on the outslope of new Sediment Pond G. It will have an area of approximately 0.27 acres, and will be treated by vegetation



**LEGEND**

- DOGM PERMIT BOUNDARY
- NEW TOPSOIL PILE "A-1" (INSITU) 6.83 ACRES

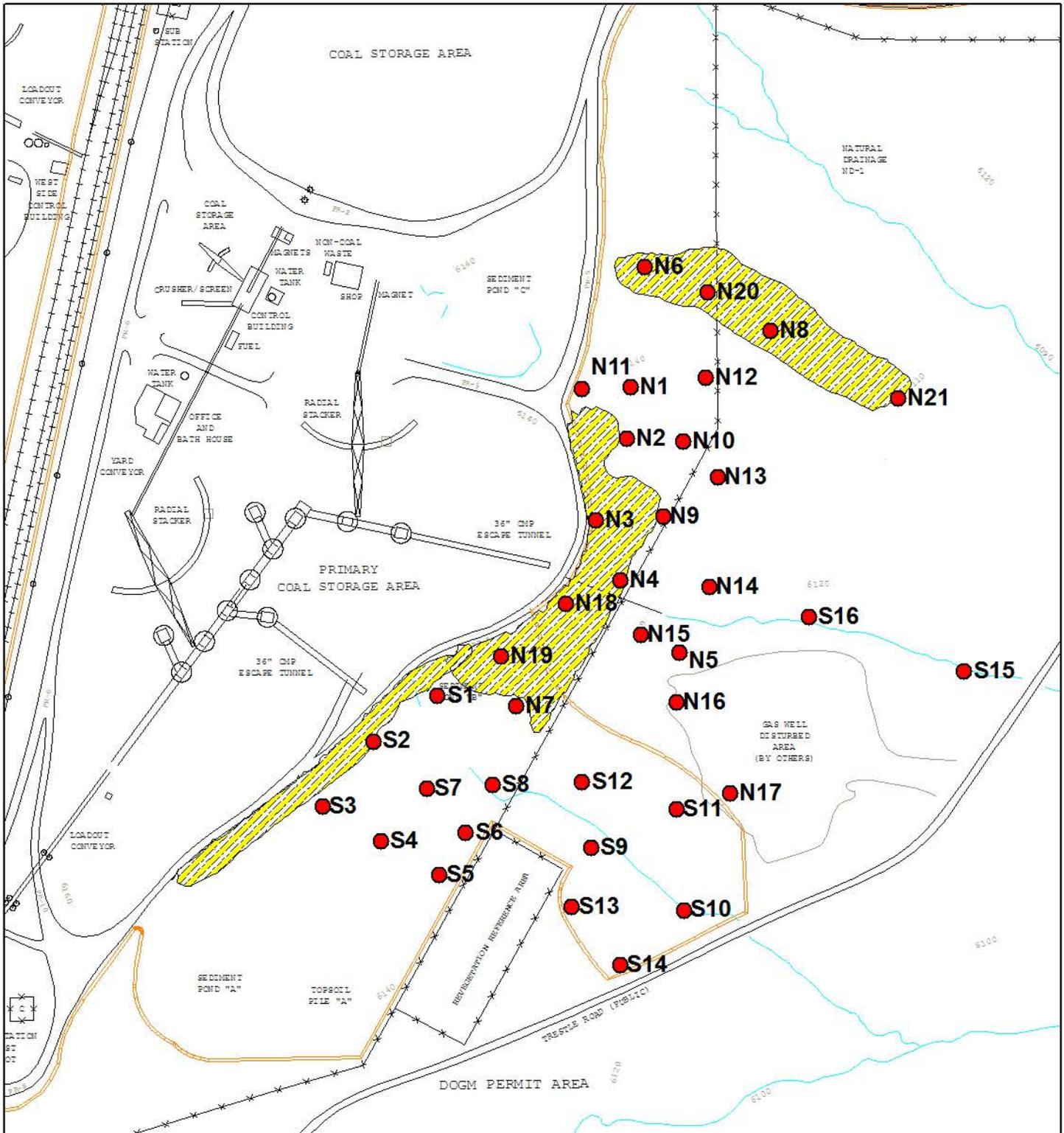


**INTERMOUNTAIN  
POWER AGENCY**

**WILDCAT LOADOUT - C/007/0030  
NEW TOPSOIL PILE "A-1" (INSITU)**

REVISION NUMBER:	SCALE:
PROPOSED DISTURBED AREA EXPANSION	1" = 200'
DATE:	APRIL 8, 2014
<b>PLATE 13A</b>	

# WILDCAT LOADOUT



 2014 Mechanical Treatment & Seeding Area     Random Photograph Sites

**Environmental Industrial Services**  
 Environmental & Engineering Consulting

31 North Main Street  
 Helper, Utah 81526  
 Office: (435) 472-3814  
 Fax: (435) 472-8780  
 EHSec@preciscom.net  
 www.EISec.com

Feet

0    110    220    330

N



**2014 Mechanical Treatment & Seeding Area**