



Suzanne Steab < suzannesteab@utah.gov >

Mine Plan Modification Determination

1 message

Suzanne Steab < suzannesteab@utah.gov >

Mon, Mar 24, 2014 at 10:21 AM

To: "eshaeffer@osmre.gov" < eshaeffer@osmre.gov >, ncaveny@osmre.gov, Foster Kirby < fkirby@osmre.gov >

Cc: "Haddock, Daron" < daronhaddock@utah.gov >

The Division received an application for a permit change. We are asking for your determination as to whether or not this action constitutes a Mining Plan Determination. Please provide your determination as soon as possible.

When responding, please reference Task ID #4552 in the regarding line.

Addition of Kenilworth Lease, Task ID #4552, Centennial Mine, C/007/0019

The application is attached.

Thank you.

--

Suzanne Steab, Engineering Technician II

Division of Oil, Gas & Mining

1594 West North Temple, Suite 1210

Salt Lake City, Utah 84114-5801

 **03182014.4552.pdf**
11419K

C/007/019 Incoming
#4552



794 North "C" Canyon Rd.
P.O. Box 910,
East Carbon, Utah 84520
Telephone (435) 888-4000 Fax (435) 888-4002

Daron Haddock
Permit Supervisor
Utah Division of Oil, Gas and Mining
P.O. Box 145801
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

March 17, 2014

Re: Permit Revision
to add Kenilworth Lease
007/019

Dear Mr. Haddock:

UtahAmerican Energy, Inc. has held the Kenilworth lease for almost six years and as of now the lease has not been added to the Approved Tower MRP. By means of this application UEI desires to add the lease to the Tower Permit.

It is our understanding since the permit area will increase 56% the submittal will be considered a significant revision. Since the expansion is totally underground there is no increase in disturbed area.

Please find attached a proposed legal notice, revised maps and revised chapters 1-8. Let me know when we can advertise. As previously discussed, UEI needs an administrative completeness by June of 2014, but will not need an approved permit until June of 2018.

Attached you will find the revisions to the approved MRP reflecting adding Kenilworth to the Permit. As was done in the previous submittals a new Appendix AB will be added to include the Kenilworth Lease within the currently approved MRP.

Since the Kenilworth lease was included in the Willow Creek permit, which has Federal Mine Approval, the submittal may not need additional Federal Approval.

If you have any questions please give me a call.

Sincerely,

A handwritten signature in black ink that reads "R. Jay Marshall".

R. Jay Marshall
Resident Agent

RECEIVED

MAR 18 2014

DIV. OF OIL, GAS & MINING

APPLICATION FOR PERMIT PROCESSING

<input type="checkbox"/> Permit Change	<input type="checkbox"/> New Permit	<input type="checkbox"/> Renewal	<input type="checkbox"/> Transfer	<input type="checkbox"/> Exploration	<input type="checkbox"/> Bond Release	Permit Number: ACT/007/019
Title of Proposal: Adding Kenilworth Lease to the Permit 14-002						Centennial Coal Mine
						Permittee: UtahAmerican Energy, Inc.

Description, include reason for application and timing required to implement

Instructions: If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to your reclamation

<input type="checkbox"/> Yes	<input type="checkbox"/> No	1. Change in the size of the Permit Area? 1,7611.3 acres Disturbed Area? NA acres decrease.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	2. Is the application submitted as a result of a Division Order? DO #
<input type="checkbox"/> Yes	<input type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	9. Is the application submitted as a result of a Violation? NOV #
<input type="checkbox"/> Yes	<input type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain:
<input type="checkbox"/> Yes	<input type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2?)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	13. Does the application require or include collection and reporting of any baseline information?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	15. Does application require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	17. Does the application require or include construction, modification, or removal of surface facilities?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	18. Does the application require or include water monitoring, sediment or drainage control measures?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	19. Does the application require or include certified designs, maps, or calculations?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	20. Does the application require or include subsidence control or monitoring?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

X Attach 3 complete copies of the application.

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.

Signed: E. J. Mankin 3/17/14
 Name - Position - Date

Subscribed and sworn to before me this 17th day of March, 2014

Linda Kerns
 Notary Public
 My Commission Expires: 03.27.17, 19
 STATE OF Utah
 COUNTY OF Carbon



) ss:

Received by Oil, Gas & Mining

RECEIVED

MAR 18 2014

DIV. OF OIL, GAS & MINING

ASSIGNED TRACKING NUMBER

LEGAL NOTICE

Andalex Resources, Inc. has filed a complete application with the Division of Oil, Gas and Mining for a revision of the existing Mining and Reclamation Plan, C/007/019 for the Aberdeen Mine. Andalex Resources, Inc. is a subsidiary of UtahAmerican Energy, Inc. and operates the Aberdeen Mine in Dead Canyon which is located approximately 8 miles NE of the town of Price, Utah. The lease revision will increase the lease acreage by approximately 1,760 acres, with no additional surface disturbance proposed.

Underground coal mining will take place in coal reserves owned or leased by Andalex Resource, Inc. A legal description of the proposed areas for additional underground Mining and Reclamation Activities are described as follows:

Federal Lease UTU-81893			
(Kenilworth Lease)			
T. 12 S., R. 10 E., SLM, Utah			
Section 26			
N1/2 SW1/4	80.00	Acres	
SE SW	40.00	Acres	
SE	160.00	Acres	
Section 27			
S1/2	320.00	Acres	
Section 34			
S1/2 NE	80.00	Acres	
NW NE	40.00	Acres	
NW	160.00	Acres	
S1/2	320.00	Acres	
Section 35			
NE	160.00	Acres	
S1/2 NW	80.00	Acres	
S1/2	320.00	Acres	
Total	1,760.00	Acres	

The address of the applicant is : Andalex Resources
794 North "C" Canyon Road
P.O. Box 910
East Carbon, UT 84520-0910

After filing, copies of this permit revision application will be available for inspection at the Carbon County Court House, and at the Utah Division of Oil Gas, and Mining website under the Coal Permit files.

Written comment or requests regarding this permit revision must be made within 30 days of the last publication of this notice, and may be addressed to the Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801.

Published in the Sun Advocate March _____ and _____ 2014.

Centennial Project
List of Plates in Permit
(March 2014)

Plate Number	Plate Name	New or Revised	Electronic Copy	Mylar Only	Notes
1	Centennial Project - General Location Map	X	dwg		
1A	Centennial Project - Coal Leases and Acquisitions		dwg		Omitted
2	Centennial Project - Surface Ownership Map	X	dwg		
3	Centennial Project - Mineral Ownership Map	X	dwg		
4	Centennial Project - Leases	X	dwg		
5	Surface Area Boundary - Deadman Canyon			X	No change
6	As-Constructed Surface Facilities - Deadman Canyon		dwg		
6A	Left-Fork Fan Area - As Constructed			X	No change
7	As Proposed Surface Facilities - Deadman Canyon			X	No change
8	Support Facilities - Surface Area Drainage		PDF		
9	Watershed & Culvert Sizing and Revegetation Reference Areas			X	No change
10	Proposed Sediment Pond 'E-PM' - Post Mining			X	No change
11	Catch Basin 'B' - As Constructed			X	No change
12	Sediment Pond 'C' - As Constructed			X	No change
13	Sediment Pond 'E' - Proposed Aberdeen Surface			X	No change
14	Cut & Fill Cross Section Reference - Deadman Canyon		PDF		
15	Cut & Fill Cross Sections; Original Surface, As Constructed, As Reclaimed - Deadman Canyon (18 Sheets)			X	No change
16	Post Mining Hydrology - Final Reclamation Plan - Deadman Canyon - Phase I		PDF		
17	Final Mining Hydrology - Final Reclamation - Phase II - Deadman Canyon		PDF		
17A	Reclamation Watershed Map			X	No change
18	Soil Survey Map - Deadman Canyon			X	No change
19	Vegetation Survey Map - Deadman Canyon			X	No change
19A	Vegetation Map - Mt. Nebo				No Original
20	Revegetation Map - Deadman Canyon			X	No change
21	Surface Geology of the Andalex Resources' Mine Plan Area	X	dwg		
22	Centennial Project - Geologic Cross Section Reference and Drill Hole Locations	X	dwg		
23	Centennial Project - Cross Section A-A'		PDF		No change
24	Centennial Project - Cross Section B-B'		PDF		No change
25	Centennial Project - Subsidence Monitoring Stations	X	dwg		
26	Lower Sunnyside Seam Production Areas	X	dwg		
27	Centennial Seam Production Areas		dwg		No change
28	Gilson Seam Production Areas		dwg		No change
29	Proposed Mine Plan - Aberdeen Seam	X	dwg		
30	Proposed Mine Plan - Gilson Seam		dwg		Omitted
31	Proposed Mine Plan - Centennial Seam				No change
32	Pinnacle Mine - Current Mine Plan (Mine is closed and sealed)				Missing (Omitted)
33	Apex Mine - Current Mine Plan (Mine is closed and sealed)				Missing (Omitted)
34A	Centennial Project - Wildlife Distribution Map	X	dwg		
34B	Centennial Project - Wildlife Distribution Map	X	dwg		
34C	Centennial Project - Wildlife Distribution Map	X	dwg		
34D	Centennial Project - Wildlife Distribution Map	X	dwg		
35	Typical Road Cross Sections			X	No change
36	Topsoil Storage Pile "G"			X	No change
37	Topsoil Piles - Deadman Canyon			X	No change
38	Previously Omitted				Omitted
39	Previously Omitted				Omitted
40	Centennial Seam Isopach (Mine is closed and sealed)				Omitted
41	Proposed Mine Plan - Centennial Seam (Mine is closed and sealed)				Omitted
Figure 4	Water Quality Data		PDF		No change
Figure 5	Surface and Ground Water Rights	X	PDF		
Figure 6	Ground and Surface Water Monitoring	X	PDF		
Figure 1-2	Centennial Leases / Permit Area	X	dwg		
Figure 1-2A	Centennial Disturbed Area	X	dwg		
Figure 7-1	Water Monitoring Locations	X	dwg		
Figure 1-1	GVH Locations Map	X	dwg		

ANDALEX RESOURCES, INC.

APPENDIX AB

CENTENNIAL PROJECT

Adding Kenilworth Lease

C/007/019

(Revised)
March, 2014

CHAPTER 1
LEGAL, FINANCIAL, COMPLIANCE AND
RELATED INFORMATION

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110 MINIMUM REQUIREMENTS FOR LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION

111 Introduction

UtahAmerican Energy, Inc. operates the Centennial Project under the Division of Oil, Gas and Mining permit number ACT 007/019. Coal has been mined on Federal leases SL-027304, SL-063058, U-010581, U-05067-08916, UTU-66060, UTU-69600, and UTU-79975. The Centennial Project mined three different seams in various areas. The Aberdeen seam ranged from approximately 5' to 8'. The Centennial seam ranged from approximately 5' to 7' and the Lower Sunnyside seam ranged from 4' to 6'. Both Longwall and Room and Pillar methods of mining were utilized in mining the reserves. A significant amount of coal has been mined from all of the leases. Some leases have been mined out and others have very little remaining recoverable reserves.

UtahAmerican Energy, Inc. Relinquished portions of the mined out leases in two relinquishments. The first relinquishment approved 3/12/2012 reduced the Federal coal leased acreage from 5,436.24 down to 2,813.48. The second relinquishment reduced the Federal coal lease even further down to 894.55 acres remaining. UEI retained all areas of surface disturbance conducted in association with the underground mining and surface access to the gob-vent holes was retained through surface use agreements.

The permit acreage dropped from 6,516.91 down to 2,274.77 acres. When Kenilworth lease is added the permit acreage goes up to 4,035.90 which is the new permit acreage. The disturbed area has not changed and remains at 47.19 acres. Since the disturbed area has not changed and the disturbed legal description stays the same the bond does not change.

The Kenilworth lease UTU-81893 is being added to the permit at this time (1,760.00 Acres).

A new lease area legal description can be found in Table 1-1 and the new permit area is described in Table 1-2.

A General Location Map can be found as Plate 1 in the Tower MRP.

A Surface Ownership Map can be found as Plate 2 in the Tower MRP.

A Mineral Ownership Map can be found as Plate 3 in the Tower MRP.

A Lease Map can be found as Plate 4 in the Tower MRP.

TABLE 1-1
Andalex Resources, Inc.
Tower Division
Centennial Project Permit Lease Areas

Federal Lease UTU-66060

T. 13 S., R. 10 E., SLM, Utah

Section 1

Lot 3	40.59	Acres
Lot 4	40.82	Acres
S1/2 NE	80.00	Acres

Total **161.41 Acres**

Federal Lease UTU-69600

T. 13 S., R. 10 E., SLM, Utah

Section 1

SW1/4	160.00	Acres
-------	--------	-------

Section 12

Lot 3	36.71	Acres
Lot 4	37.16	Acres
Lot 5	44.08	Acres
Lot 6	45.01	Acres
Lot 7	47.17	Acres
Lot 11	47.05	Acres
W1/2 NW	80.00	Acres

Total **497.18 Acres**

Federal Lease UTU-010581

T. 13 S., R. 11 E., SLM, Utah

Section 7

NW SE	40.00	Acres
-------	-------	-------

Total **40.00 Acres**

Federal Lease UTSL-27304

T. 13 S., R. 11 E., SLM, Utah

Section 7

Lot 4	42.98	Acres
-------	-------	-------

Section 18

Lot 1	42.98	Acres
NW NE	40.00	Acres
N1/2 NE NW	20.00	Acres
SW NE NW	10.00	Acres

Total **155.96 Acres**

Federal Lease SL-63058

T. 13 S., R. 11 E., SLM, Utah

Section 18

SW NE 40.00 Acres

Total 40.00 Acres**Federal Lease UTU-81893 (Kenilworth Lease)**

T. 12 S., R. 10 E., SLM, Utah

Section 26

N1/2 SW1/4 80.00 Acres

SE SW 40.00 Acres

SE 160.00 Acres

Section 27

S1/2 320.00 Acres

Section 34

S1/2 NE 80.00 Acres

NW NE 40.00 Acres

NW 160.00 Acres

S1/2 320.00 Acres

Section 35

NE 160.00 Acres

S1/2 NW 80.00 Acres

S1/2 320.00 Acres

Total 1,760.00 Acres**Total of Federal Leases 2,654.55 Acres****Mathis Fee Lease**

T. 12 S., R. 10 E., SLM, Utah

Section 36

All 640.00 Acres

Total 640.00 Acres**Zion Fee Lease**

T. 13 S., R. 11 E., SLM, Utah

Section 7

Lot 2 42.99 Acres

Lot 3 42.99 Acres

SE NW 40.00 Acres

E1/2 SW 80.00 Acres

Total 205.98 Acres**Total of Fee Leases 845.98 Acres**

Bureau of Land Management ROW U-62045

T. 13 S., R. 11 E., SLM, Utah

Section 18

SE NE NW 10.00 Acres

Total 10.00 Acres

**Bureau of Land Management ROW UTU-64158
(Left fork fan and access road)**

Located within:

T. 13 S., R. 10 E., SLM, Utah

Section 13

Lot 1

T. 13 S., R. 11 E., SLM, Utah

Section 18

Lot 2

NE SW

Total 1.45 Acres

Total of BLM R.O.W.'S 11.45 Acres

Cave Private Easement

Located within:

T. 13 S., R. 11 E., SLM, Utah

Section 18

SE NW 1.50 Acres

Total Cave 1.50 Acres

Total Private Easements 1.50 Acres

TABLE 1-2
Andalex Resources, Inc.
Tower Division
Centennial Project Surface Only Permit Area

Federal Lease UTU-66060

T. 13 S., R. 10 E., SLM, Utah
 Section 1

Lot 1	40.12	Acres
Lot 2	40.35	Acres

T. 12 S., R. 11 E., SLM, Utah
 Section 31

Lot 3	7.58	Acres
Lot 4	7.60	Acres
Lot 5	7.17	Acres
Lot 12	40.00	Acres
Lot 13	1.13	Acres
Lot 14	40.00	Acres
Lot 15	40.00	Acres
Lot 16	40.00	Acres
Lot 21	22.86	Acres

Total	<u>286.81</u>	Acres
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Federal Lease UTU-79975

T. 12 S., R. 11 E., SLM, Utah
 Section 31

Lot 2	7.53	Acres
Lot 7	40.00	Acres
Lot 8	40.00	Acres
Lot 10	40.00	Acres
Lot 11	40.00	Acres

Total	<u>167.53</u>	Acres
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Federal Lease UTU-010581

T. 13 S., R. 11 E., SLM, Utah
 Section 7

SW NE	40.00	Acres
-------	-------	-------

Total	<u>40.00</u>	Acres
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Federal Lease UTSL-27304

T. 13 S., R. 11 E., SLM, Utah
Section 7

SW SE 40.00 Acres

Total 40.00 Acres

Surface Only Permit Area 534.34 Acres

PERMIT AREA TABULATION

Federal Coal Leases:	2,654.55	Acres (Including Kenilworth)
Fee Coal Leases:	845.98	Acres
BLM Surface R.O.W.	11.45	Acres
Private Easements:	1.50	Acres
Surface Only Federal Leases:	534.34	Acres
Permit Area Subtotal	4,047.82	Acres
Less OSO Gaswell Area	-11.92	Acres
Total Permit Area:	<u>4,035.90</u>	Acres

112 Identification of Interests

Refer to the same section of the approved M&RP.

112.100 Business Entity

Refer to the same section of the approved M&RP.

112.200 Applicant and Operator

Applicant and Operator: Andalex Resources, Inc
Tower Division
P.O. Box 910
East Carbon, Utah 84520
Telephone: (435) 888-4000

Contact Person and
Resident Agent: R. Jay Marshall
Andalex Resources, Inc
Tower Division
P.O. Box 910
East Carbon, Utah 84520
Telephone: (435) 888-4000

Responsibility: Andalex Resources, Inc. is responsible for submission of information and will pay abandoned mine reclamation fees.

112.300 Officers of the Applicant

Refer to the same section of the approved M&RP.

112.400 Coal Mining and Reclamation Operation Owned or Controlled

Refer to the same section of the approved M&RP.

112.500 Legal or Equitable Owner of the Surface and Mineral Properties

The legal and equitable owner of the surface and mineral properties to be affected by this operation during the duration of the permit period are listed below:

Surface Owners

David R. & Mildred Cave, et al.
144 South 1650 East
Price, Utah 84501

Mathis Land Co.
Sunnyside Star Route
Price, Utah 84501

F. and D. Shimmin
711 North 500 East
Price, Utah 84501

Sub-Surface Owners

United States of America
Bureau of Land Management
Utah State Office
136 East South Temple
Salt Lake City, Utah 84111

Mathis Land Co.
Sunnyside Star Route
Price, Utah 84501

Oso Energy Resources Corp.
900 Main Avenue, Suite D
Durango, Colorado 81301 (gas rights)

112.600 Owners of Record of Property Contiguous to Proposed Permit Area

Owners of record for surface and mineral properties contiguous to the proposed permit area are listed below:

Contiguous Surface Owners

David R. & Mildred Cave, et al.
144 South 1650 East
Price, Utah 84501

Mathis Land Co.
Sunnyside Star Route
Price, Utah 84501

F. and D. Shimmin
711 North 500 East
Price, Utah 84501

Contiguous Sub-Surface Owners

United States of America
Bureau of Land Management
Utah State Office
136 East South Temple
Salt Lake City, Utah 84111

State of Utah
School Trust Lands Administration
675 East 500 South
Salt Lake City, Utah 84102

Mathis Land Co.
Sunnyside Star Route
Price, Utah 84501

Oso Energy Resources Corp.
900 Main Avenue, Suite D
Durango, Colorado 81301 (gas rights)

112.700 MSHA Numbers

Refer to the same section of the approved M&RP.

112.800 Interest in Contiguous Lands

Andalex Resources, Inc. has no interest in contiguous lands other than those currently owned as shown on Plate 1A of the approved M&RP.

112.900 Certification of Submittal Information

No information has changed in the approved M&RP because of this submittal. Refer to the same section of the approved M&RP.

113 Violation Information

Refer to the same section in the approved M&RP.

114 Right-of-Entry Information

Refer to the same section of the approved M&RP. A surface use agreement with the

private surface owners is in place. A memorandum of this agreement is included in the MRP and is on record at the County Recorder's office. (See Appendix X-1)

** Existing acres reflect contemporaneous reclamation work completed to date.

115 Status of Unsuitability Claims

Refer to the same section of the approved M&RP.

116 Permit Term

Refer to the same section of the approved M&RP.

117 Insurance, Proof of Publication, and Facilities and Structures Used in Common

The certificate of insurance(s) will be included in Appendix B of the approved M&RP.

118 Filing Fees

Refer to the same section of the approved M&RP.

120 PERMIT APPLICATION FORMAT AND CONTENTS

This amendment submittal will comply with R645-301-120.

130 REPORTING OF TECHNICAL DATA

All technical data submitted in the amendment will be accompanied by the name or organization responsible for the collection and analysis of data, dates of collection and descriptions of methodology used. Technical analyses will be planned by or under the direction of a qualified professional in the subject to be analyzed.

140 MAPS AND PLANS

The maps and plans in the Mining and Reclamation Plan will correspond with the requirements in R645-301-140.

150 COMPLETENESS

Andalex Resources, Inc. believes the information in this permit application to be complete and correct.

(Revised)
March, 2014

CHAPTER 2

SOILS

Since the Kenilworth Lease boundary change is simply an extension of underground mine workings under roughly 2,600 to 3,000 feet of cover there will be absolutely no effect on soils. The addition of the Kenilworth Lease will not increase the disturbed areas. Only the Prime Farmland Investigation section of the regulations have been addressed. Please refer to the approved MRP for current Chapter 2 information.

2.21 Prime Farmland Investigation

The land within the Kenilworth lease area has not been historically used as cropland, contains steep slopes, and the area is not conducive to intensive agricultural uses and no surface disturbance. The Permittee does not believe that any Prime Farmland exists with the permit revision area, Kenilworth lease, being added to the Mine and Reclamation Plan. The Kenilworth lease has been previously permitted under the Willow Creek Mine Permit ACT/007/004.

Since Kenilworth lease is found in T12S R10E Section 26, the Willow Creek Permit information found below is pertinent.

Quoted Directly From the Willow Creek Permit

Several previous investigations have been conducted for the permit area to determine whether any prime farmlands exist in the area. Each of these investigations involved formal consultation with the USDA-SCS. The initial determination, included in PRCCs Mining and Reclamation Permit application, was provided by Mr. George D. McMillan, USDA-SCS State Conservationist in a letter dated July 16, 1979. This letter concluded that, based upon the absence of any irrigation, and excessive slopes, no prime farmlands existed in the area corresponding to Townships 12 & 13 South, Ranges 8, 9 and 10 East. A second negative determination for prime farmlands in the permit area was issued in connection with the permitting efforts for the CGCC Permit submitted to UDOGM in February 1991. The CGCC permit application contains a letter dated May 21, 1991 from Mr. Ferris P. Allgood, USDA-SCS State Soil Scientist, stating that due to the excessive amount of rock fragments, high erodibility and lack of a reliable source of irrigation waters for lands within the CGCC Mine Permit area, the soils within this area are excluded from consideration as important farmlands. Confirmation of these negative determinations was included in the findings documents issued by UDOGM for both permit applications and documentation is provided in Exhibit 5, Soils Information. Since the limitations which exclude these soils for consideration as prime farmlands still exist, and all surface disturbance associated with the mining and reclamation activities will occur on either previously disturbed areas or on slopes greater than ten percent,

UXXXJM is requested to reaffirm the negative determination regarding the presence of prime farmland soils in the permit area.

A regional Soils Map can be found in the Willow Creek Permit Map #3. This map covers the Kenilworth Lease Area as well as the total Willow Creek Permit Area.

(Revised)
March, 2014

CHAPTER 3

BIOLOGY

Since the Kenilworth Lease boundary change is simply an extension of underground mine workings under roughly 2,600 to 3,000 feet of cover there will be absolutely no effect on vegetation, fish or wildlife.

The Biology portion of the disturbed area of the Permit is addressed with the existing approved Mine and Reclamation Plan. Please refer to the approved Tower MRP (007/019) for current Chapter 3 information.

The Kenilworth lease has been previously permitted under the Willow Creek Mine Permit ACT/007/004.

A regional vegetation map of the area can be found as See Map 5 of the Willow Creek Mine Permit ACT/007/004.

A regional Wildlife map can be found in the Willow Creek Mine Permit as Map #7.

A Raptor survey map can be found as Plate 34A in the Tower Permit.

A Mule Deer Range map can be found as Plate 34B in the Tower Permit.

An Elk Range map can be found as Plate 34C in the Tower Permit.

A Sage Grouse Range map can be found as Plate 34D in the Tower Permit.

The Land Use & Air Quality portions of the disturbed area of the Permit is addressed with the existing approved Mine and Reclamation Plan. Please refer to the approved Tower MRP (ACT 007/019) for current Chapter 4 information.

The Kenilworth lease has been previously permitted under the Willow Creek Mine Permit ACT/007/004.

The extension of the underground workings will not result in any additional surface disturbance therefore additional Land Use or Air Quality surveys should not be required.

Prior to mining the Permittee will consult with the Division to discuss additional or updated surveys and or studies that might be necessary prior to second mining.

The extension of the underground workings will not result in any additional surface disturbance therefore additional T&E or Raptor surveys should not be required. Prior to mining the Permittee will consult with the Division to discuss additional or updated surveys and or studies that might be necessary prior to second mining.

(Revised)
March, 2014

CHAPTER 4

LAND USE & AIR QUALITY

Since the Kenilworth Lease boundary change is simply an extension of underground mine workings under roughly 2,600 to 3,000 feet of cover there will be absolutely no effect on Land Use or Air Quality.

The Land Use & Air Quality portions of the disturbed area of the Permit is addressed with the existing approved Mine and Reclamation Plan. Please refer to the approved Tower MRP (ACT 007/019) for current Chapter 4 information.

The Kenilworth lease has been previously permitted under the Willow Creek Mine Permit ACT/007/004. A regional Land Use Map can be found in the Willow Creek Permit as Map #9.

The extension of the underground workings will not result in any additional surface disturbance therefore additional Land Use or Air Quality surveys should not be required.

Prior to mining the Permittee will consult with the Division to discuss additional or updated surveys and or studies that might be necessary prior to second mining.

(Revised)
March, 2014

CHAPTER 5

ENGINEERING

Since the Kenilworth Lease boundary change is simply an extension of underground mine workings under roughly 2,600 to 3,000 feet of cover there will be absolutely no additional surface disturbance.

The Engineering section of the Permit is addressed with the existing approved Mine and Reclamation Plan. Please refer to the approved Tower MRP (ACT 007/019) for current Chapter 5 information.

The Kenilworth lease has been previously permitted under the Willow Creek Mine Permit ACT/007/004.

The Permittee will utilize the Willow Creek Mine proposed subsidence points located within the Kenilworth Lease. The subsidence monitoring points are shown on Willow Creek Map #20. The Permittee will start the subsidence monitoring, using the Willow Creek points within the Kenilworth Lease, one year prior to any second mining.

A subsidence Monitoring plan specific for the Kenilworth map is shown on Plate 25.

The production areas are shown on Plate 26 in the Tower Permit.

The mine workings are shown on Plate 29 in the Tower Permit.

A R2P2 will be submitted to the BLM at a later date.

The GVH locations are shown on Figure 1-1 in the Tower Permit.

The extension of the underground workings will not result in any additional surface disturbance therefore additional Engineering surveys should not be required.

Prior to mining the Permittee will consult with the Division to discuss additional or updated surveys and or studies that might be necessary prior to second mining.

(Revised)
March, 2014

CHAPTER 6

GEOLOGY

Since the Kenilworth Lease boundary change is simply an extension of underground mine workings under roughly 2,600 to 3,000 feet of cover there will be absolutely no additional surface disturbance.

The Geology section of the Permit is addressed with the existing approved Mine and Reclamation Plan. Please refer to the approved Tower MRP (ACT 007/019) for current Chapter 6 information.

The general surface geology is shown on Map 21 in the Tower Permit.

Geologic Cross Section and Drill Hole References is shown on Plate 22 in the Tower Permit.

The Kenilworth lease has been previously permitted under the Willow Creek Mine Permit ACT/007/004.

The extension of the underground workings will not result in any additional surface disturbance therefore additional Geological information should not be required.

(Revised)
March, 2014

CHAPTER 7

HYDROLOGY

Since the Kenilworth Lease boundary change is simply an extension of underground mine workings under roughly 2,600 to 3,000 feet of cover there will be absolutely no additional surface disturbance.

The Hydrology section of the Permit is addressed with the existing approved Mine and Reclamation Plan. Please refer to the approved Tower MRP (ACT 007/019) for current Chapter 7 information.

The Kenilworth lease has been previously permitted under the Willow Creek Mine Permit ACT/007/004.

The Permittee will utilize the Willow Creek Mine proposed water monitoring locations located within the Kenilworth Lease. The water monitoring points and regional hydrology are shown on Willow Creek Map #15. Water Rights are shown on Willow Creek Map #17. The Permittee will begin water monitoring, using the Willow Creek points within the Kenilworth Lease, one year prior to any second mining.

Water Rights locations are also shown on Figure 5 of the Tower MRP.

Water monitoring locations are shown on Figure 6 of the Tower MRP.

Water Monitoring Locations are shown also on Figure 7-1 of the Tower MRP.

The extension of the underground workings will not result in any additional surface disturbance therefore additional Engineering surveys should not be required.

Prior to mining the Permittee will consult with the Division to discuss additional or updated surveys and or studies that might be necessary prior to second mining.

(Revised)
March, 2014

CHAPTER 8

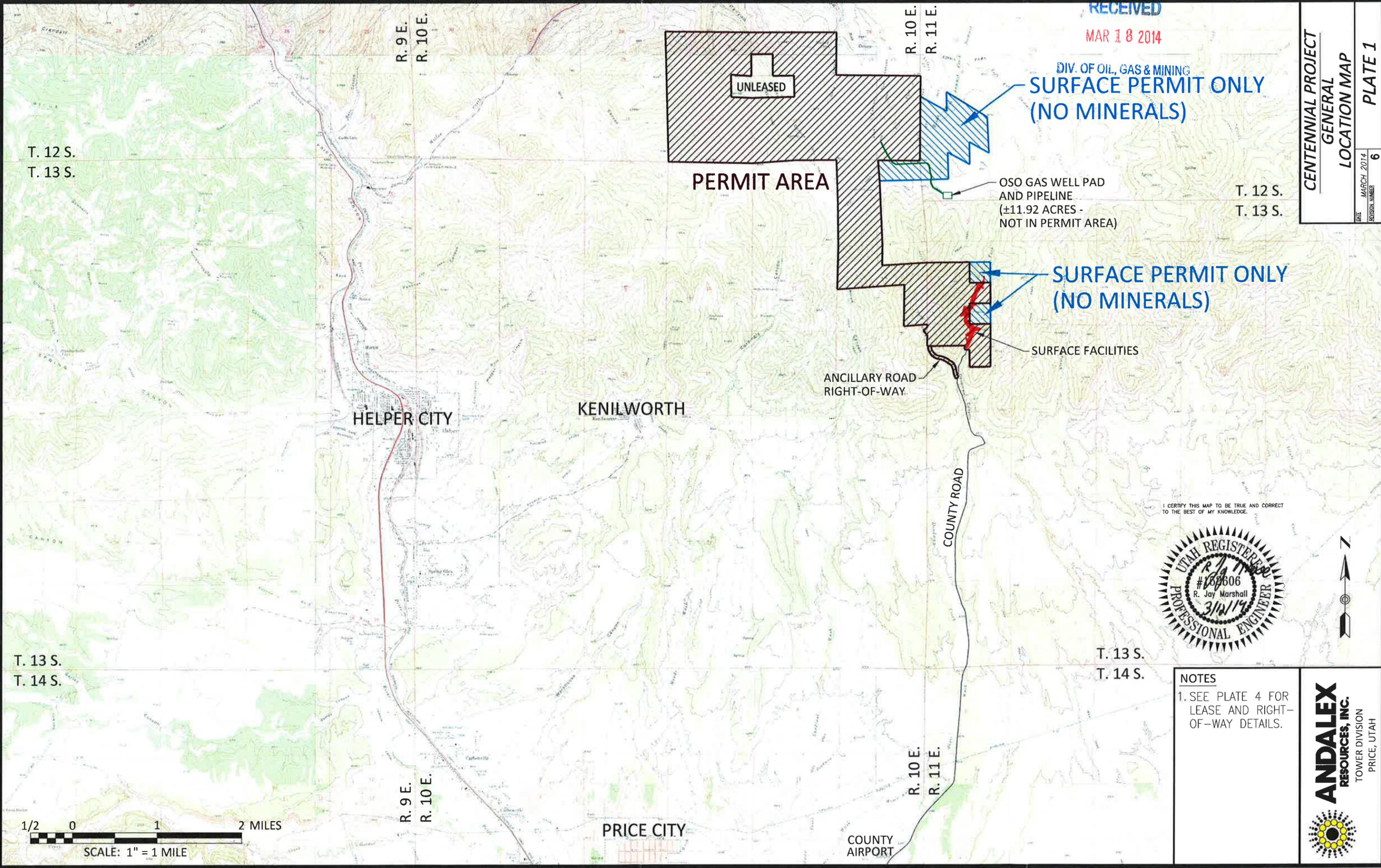
BONDING

Since the Kenilworth Lease boundary change is simply an extension of underground mine workings under roughly 2,600 to 3,000 feet of cover there will be absolutely no additional surface disturbance.

The Bonding section of the Permit is addressed with the existing approved Mine and Reclamation Plan. Please refer to the approved Tower MRP (ACT 007/019) for current Chapter 8 information.

The Kenilworth lease has been previously permitted under the Willow Creek Mine Permit ACT/007/004.

The extension of the underground workings will not result in any additional surface disturbance therefore additional Bonding should not be required.



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SURFACE PERMIT ONLY
(NO MINERALS)

UNLEASED

PERMIT AREA

OSO GAS WELL PAD
AND PIPELINE
(±11.92 ACRES -
NOT IN PERMIT AREA)

SURFACE PERMIT ONLY
(NO MINERALS)

SURFACE FACILITIES

ANCILLARY ROAD
RIGHT-OF-WAY

COUNTY ROAD

I CERTIFY THIS MAP TO BE TRUE AND CORRECT
TO THE BEST OF MY KNOWLEDGE.



T. 12 S.
T. 13 S.

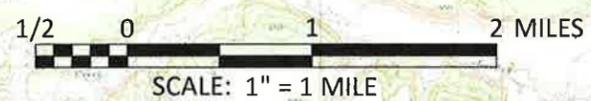
T. 13 S.
T. 14 S.

R. 9 E.
R. 10 E.

R. 10 E.
R. 11 E.

R. 9 E.
R. 10 E.

R. 10 E.
R. 11 E.

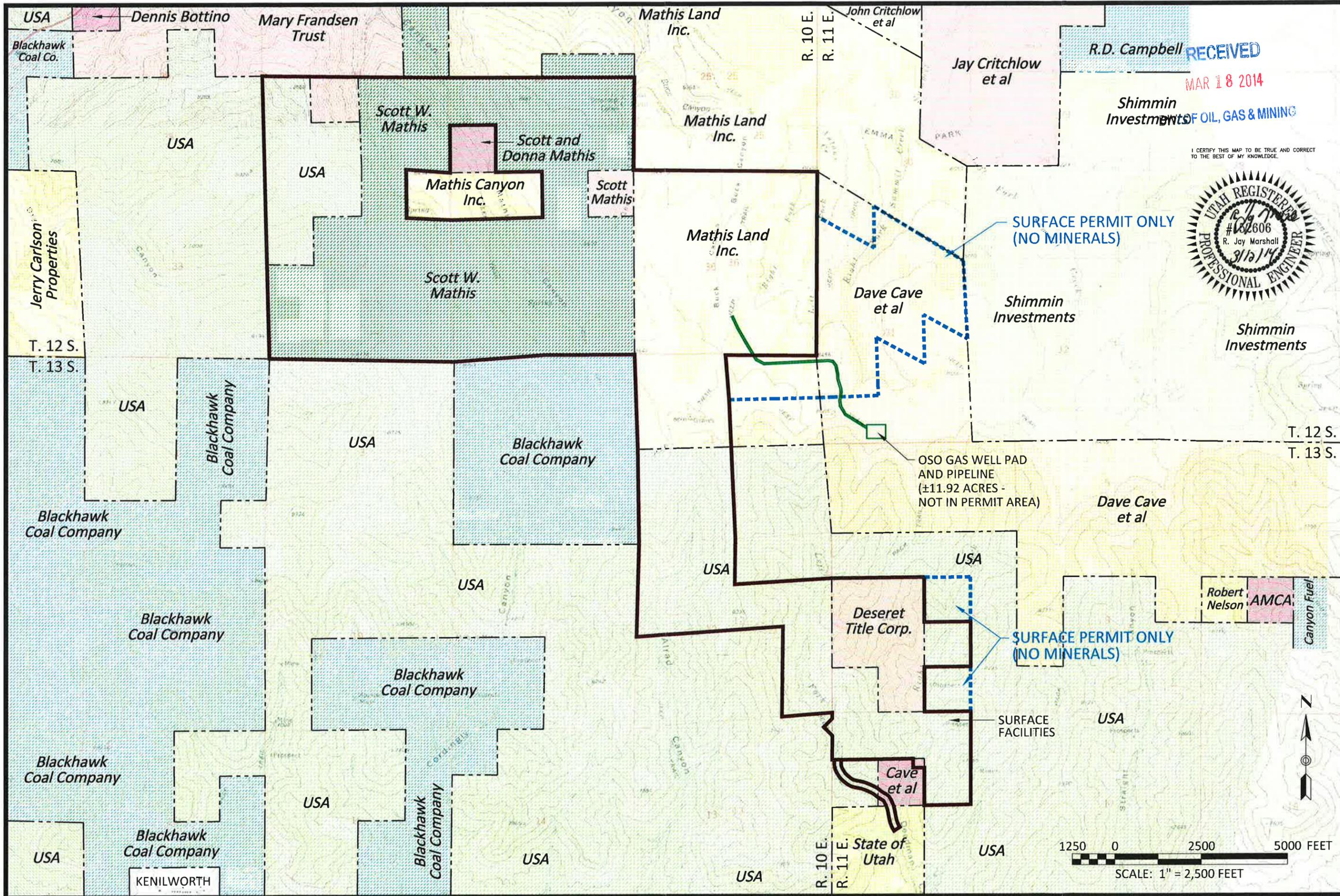


CENTENNIAL PROJECT
GENERAL
LOCATION MAP
PLATE 1

DATE: MARCH 2014
REVISION NUMBER: 6

NOTES
1. SEE PLATE 4 FOR
LEASE AND RIGHT-
OF-WAY DETAILS.





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Shimmin Investments
DIVISION OF OIL, GAS & MINING

I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

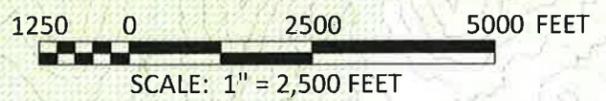


SURFACE PERMIT ONLY
(NO MINERALS)

OSO GAS WELL PAD AND PIPELINE
(±11.92 ACRES - NOT IN PERMIT AREA)

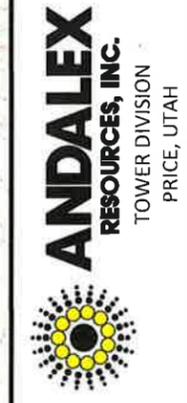
SURFACE PERMIT ONLY
(NO MINERALS)

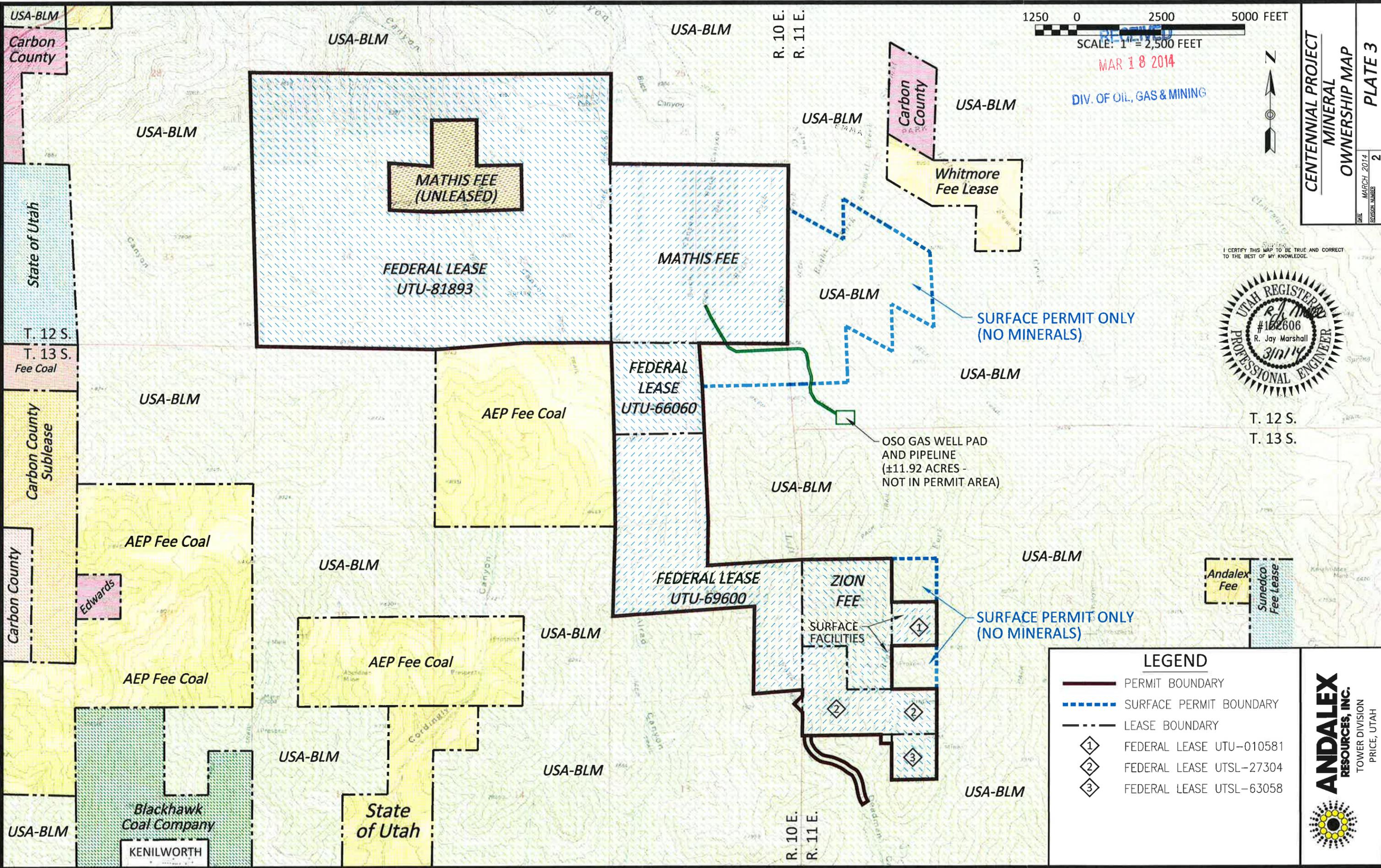
SURFACE FACILITIES



CENTENNIAL PROJECT
SURFACE OWNERSHIP MAP
DATE: MARCH 2014
REVISION NUMBER: 2
PLATE 2

LEGEND
 - - - PROPERTY LINES
 ——— PERMIT LINE
 - - - PERMIT LINE (SURFACE ONLY)





1250 0 2500 5000 FEET

SCALE: 1" = 2,500 FEET

MAR 18 2014

DIV. OF OIL, GAS & MINING



CENTENNIAL PROJECT
MINERAL
OWNERSHIP MAP
PLATE 3

DATE: MARCH 2014
REVISION NUMBER: 2

I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



T. 12 S.
T. 13 S.

LEGEND

- PERMIT BOUNDARY
- SURFACE PERMIT BOUNDARY
- LEASE BOUNDARY
- FEDERAL LEASE UTU-010581
- FEDERAL LEASE UTSL-27304
- FEDERAL LEASE UTSL-63058

ANDALEX RESOURCES, INC.
TOWER DIVISION
PRICE, UTAH

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DIV. OF OIL, GAS & MINING

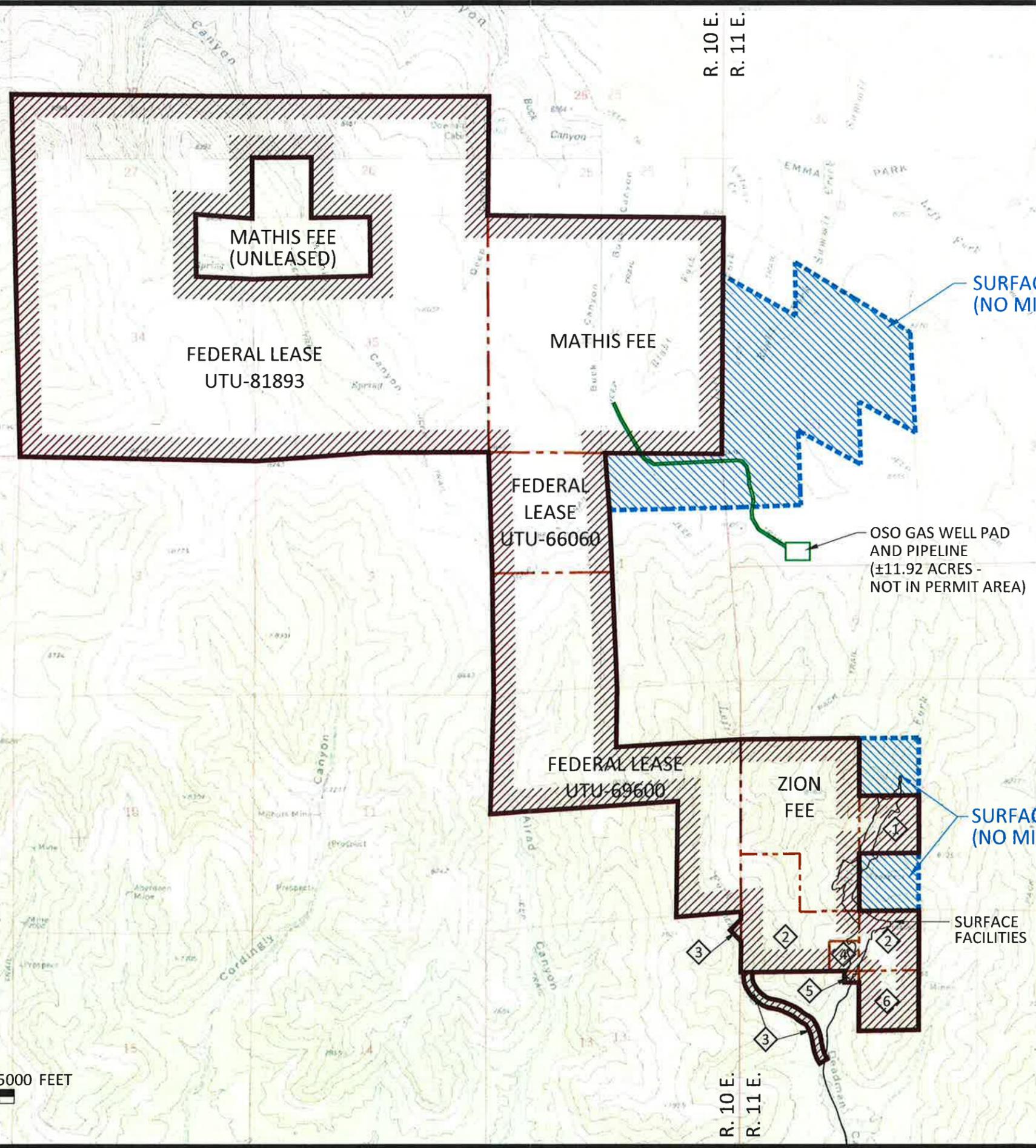
I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



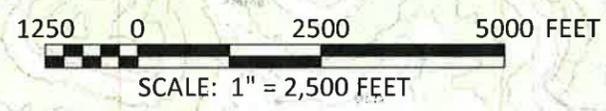
T. 12 S.
T. 13 S.

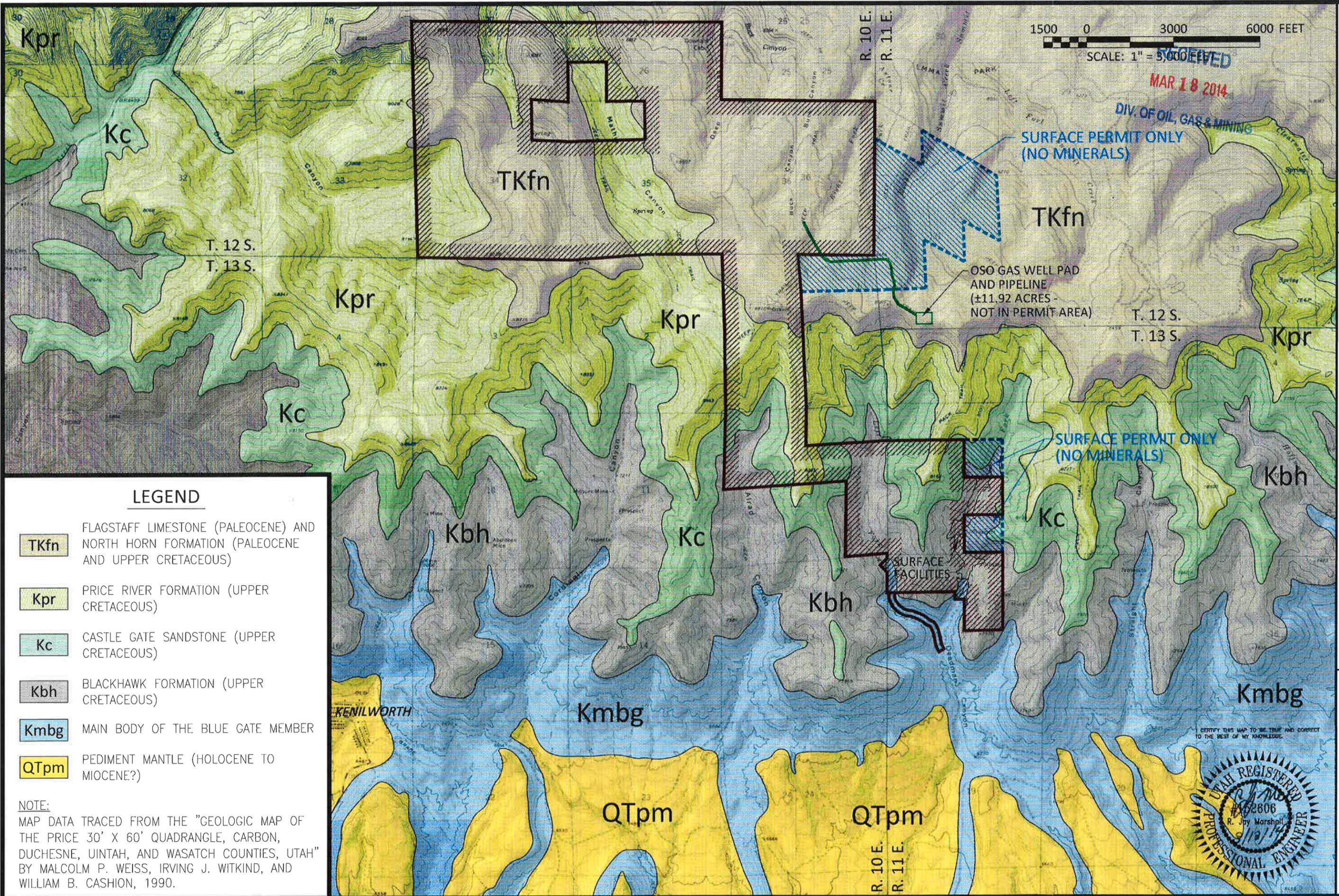


LEGEND	
	PERMIT BOUNDARY
	SURFACE PERMIT BOUNDARY
	LEASE BOUNDARY
	FEDERAL LEASE UTU-010581
	FEDERAL LEASE UTSL-27304
	BLM R.O.W. UTU-64158
	BLM R.O.W. UTU-062045
	CAVE PRIVATE EASEMENT
	FEDERAL LEASE UTSL-63058



T. 12 S.
T. 13 S.

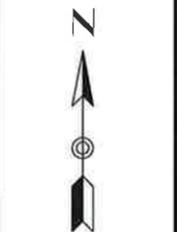




LEGEND

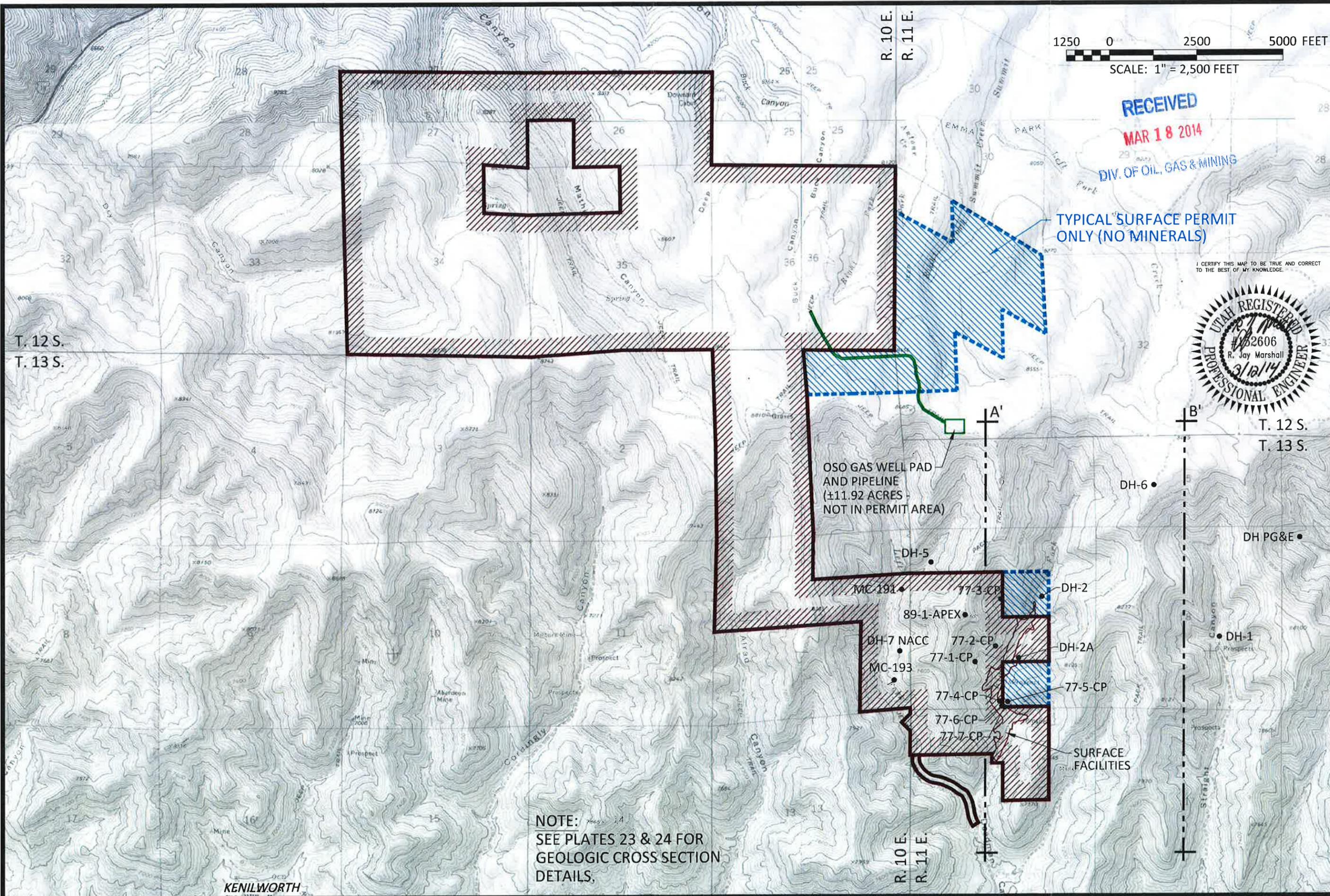
- TKfn** FLAGSTAFF LIMESTONE (PALEOCENE) AND NORTH HORN FORMATION (PALEOCENE AND UPPER CRETACEOUS)
- Kpr** PRICE RIVER FORMATION (UPPER CRETACEOUS)
- Kc** CASTLE GATE SANDSTONE (UPPER CRETACEOUS)
- Kbh** BLACKHAWK FORMATION (UPPER CRETACEOUS)
- Kmbg** MAIN BODY OF THE BLUE GATE MEMBER
- QTpm** PEDIMENT MANTLE (HOLOCENE TO MIOCENE?)

NOTE:
 MAP DATA TRACED FROM THE "GEOLOGIC MAP OF THE PRICE 30' X 60' QUADRANGLE, CARBON, DUCHESNE, UINTAH, AND WASATCH COUNTIES, UTAH" BY MALCOLM P. WEISS, IRVING J. WITKIND, AND WILLIAM B. CASHION, 1990.



- LEGEND**
- PROPERTY LINES
 - PERMIT LINE
 - PERMIT LINE (SURFACE ONLY)





1250 0 2500 5000 FEET
SCALE: 1" = 2,500 FEET

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TYPICAL SURFACE PERMIT ONLY (NO MINERALS)

I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



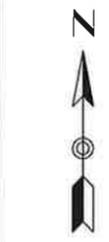
T. 12 S.
T. 13 S.

OSO GAS WELL PAD AND PIPELINE (±11.92 ACRES - NOT IN PERMIT AREA)

- LEGEND**
- PROPERTY LINES
 - PERMIT LINE
 - PERMIT LINE (SURFACE ONLY)

NOTE:
SEE PLATES 23 & 24 FOR GEOLOGIC CROSS SECTION DETAILS.

CENTENNIAL PROJECT
GEOLOGIC CROSS SECTION
and DRILL HOLE REFERENCE
DATE: MARCH 2014
REVISION NUMBER: 2
PLATE 22

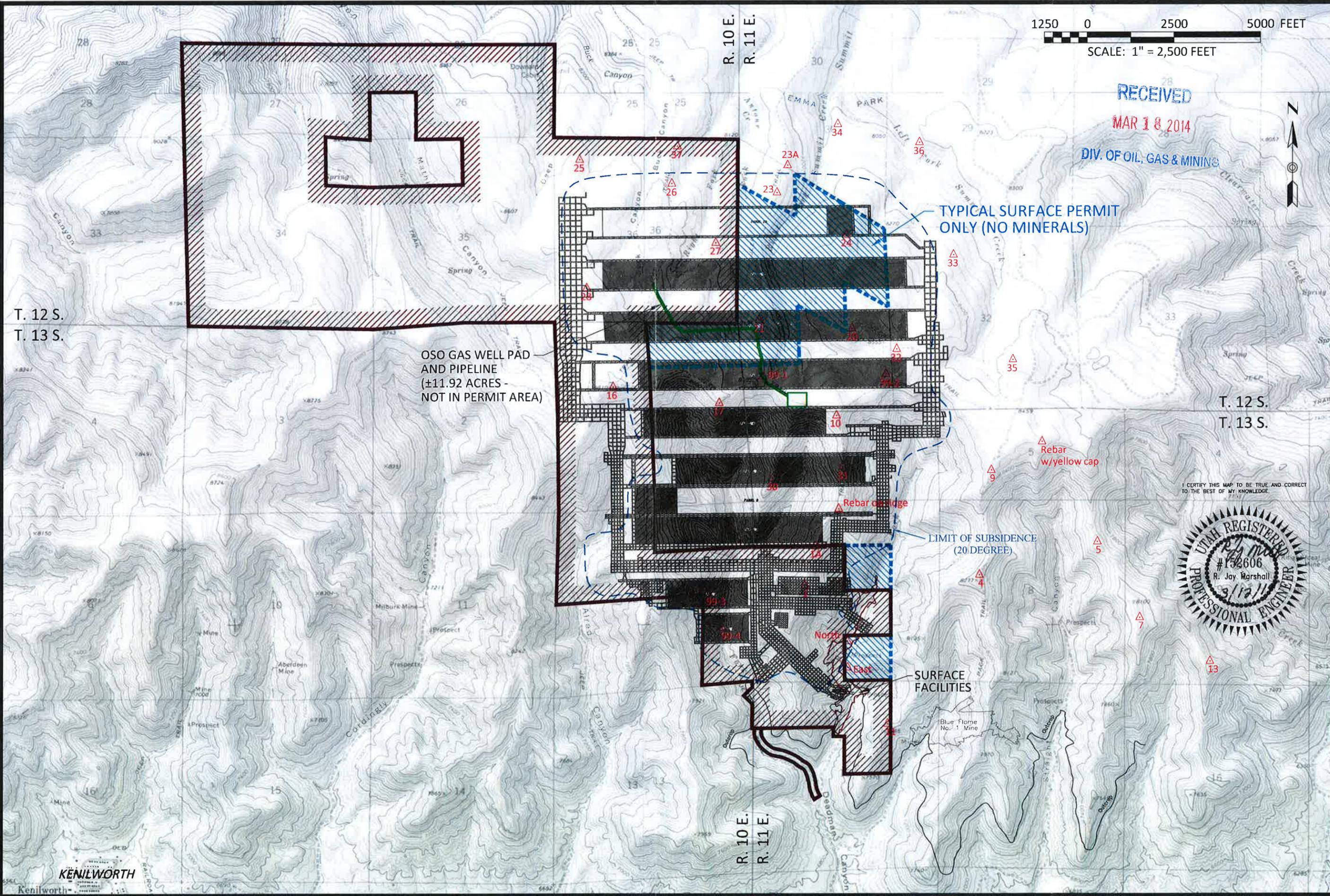


T. 12 S.
T. 13 S.

R. 10 E.
R. 11 E.

R. 10 E.
R. 11 E.

KENILWORTH



1250 0 2500 5000 FEET

SCALE: 1" = 2,500 FEET

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TYPICAL SURFACE PERMIT ONLY (NO MINERALS)

OSO GAS WELL PAD AND PIPELINE (±11.92 ACRES - NOT IN PERMIT AREA)

LIMIT OF SUBSIDENCE (20 DEGREE)

SURFACE FACILITIES

I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



T. 12 S.
T. 13 S.

R. 10 E.
R. 11 E.

T. 12 S.
T. 13 S.

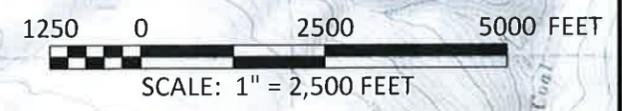
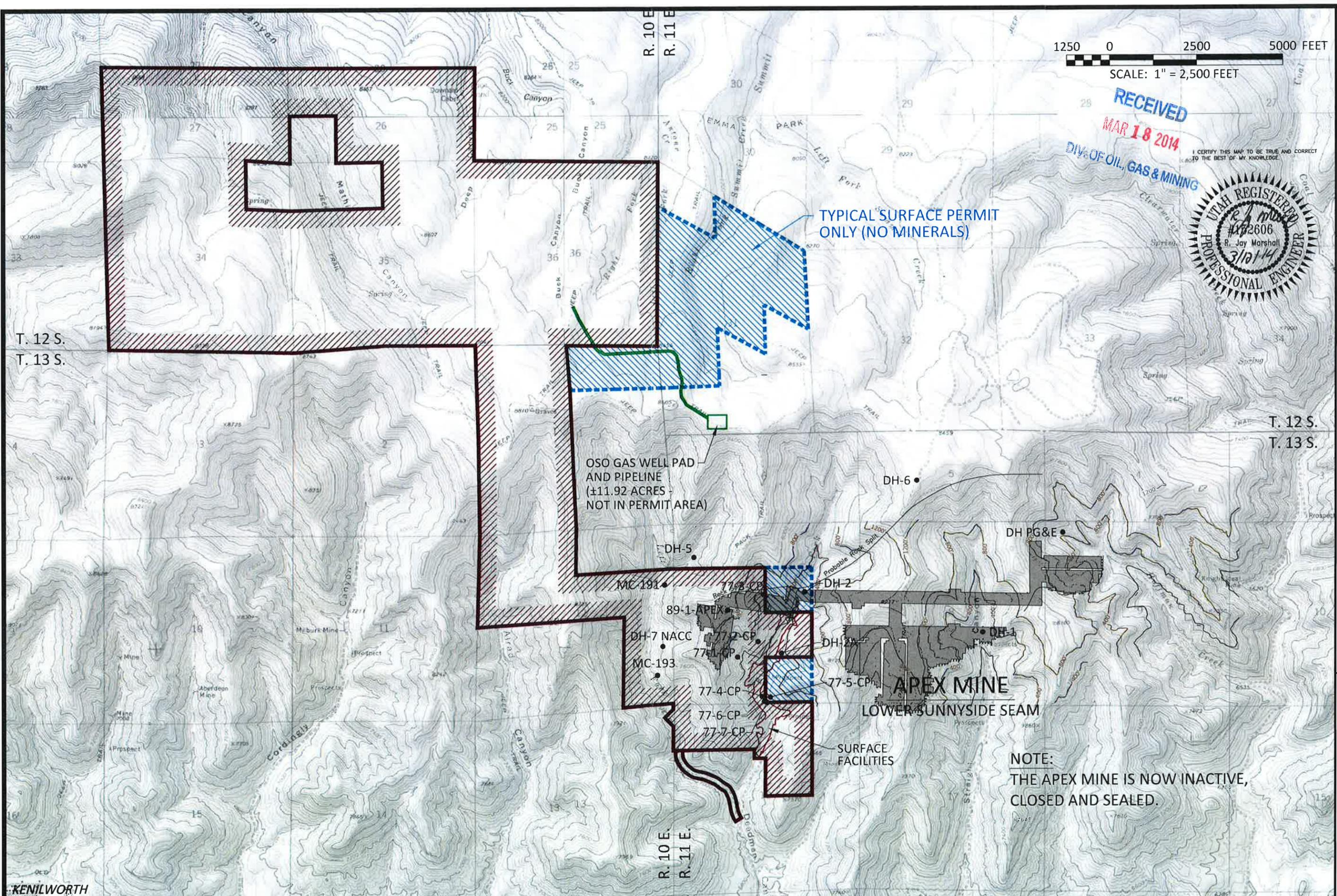
CENTENNIAL PROJECT
SUBSIDENCE MONITORING
DATE: MARCH 2014
REVISION NUMBER: 2

LEGEND
 SUBSIDENCE MONITORING STATION
 PERMIT LINE
 PERMIT LINE (SURFACE ONLY)

ANALEX RESOURCES, INC.
 TOWER DIVISION
 PRICE, UTAH



KENILWORTH



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 I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



TYPICAL SURFACE PERMIT ONLY (NO MINERALS)

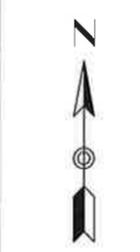
OSO GAS WELL PAD AND PIPELINE (±11.92 ACRES - NOT IN PERMIT AREA)

APEX MINE
 LOWER SUNNYSIDE SEAM

SURFACE FACILITIES

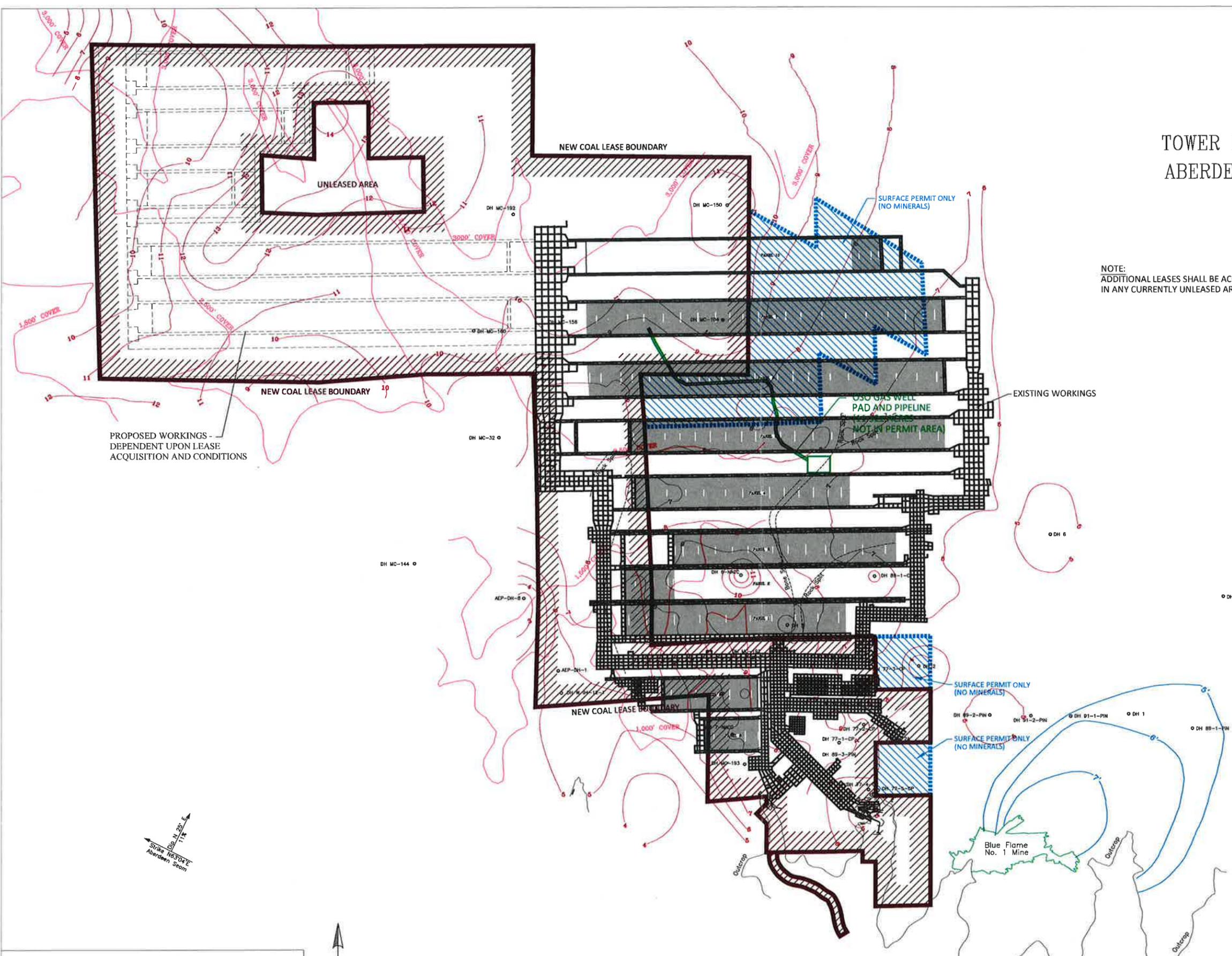
NOTE:
 THE APEX MINE IS NOW INACTIVE, CLOSED AND SEALED.

CENTENNIAL PROJECT
 LOWER SUNNYSIDE SEAM
 PRODUCTION AREAS
 DATE: MARCH 2014
 REVISION NUMBER: 2
 PLATE 26



LEGEND
 PERMIT LINE (SOLID LINE)
 PERMIT LINE (SURFACE ONLY) (DASHED LINE)

ANDALEX
 RESOURCES, INC.
 TOWER DIVISION
 PRICE, UTAH



TOWER DIVISION
 ABERDEEN SEAM
 RECEIVED
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 DIV. OF OIL, GAS & MINING

NOTE:
 ADDITIONAL LEASES SHALL BE ACQUIRED PRIOR TO MINING
 IN ANY CURRENTLY UNLEASED AREAS.

PROPOSED WORKINGS -
 DEPENDENT UPON LEASE
 ACQUISITION AND CONDITIONS

EXISTING WORKINGS
 OSO GAS WELL
 PAD AND PIPELINE
 NOT IN PERMIT AREA



LEGEND:
 Mined Areas

ANDALEX
 RESOURCES, INC.
 Tower Division



SCALE:
 500' 0' 1000' 2000'
 REVISION DATE: MARCH 2014
 ACAD REF: Plate 29 - Aberdeen Seam

Aberdeen Mine
 P.O. Box 910
 East Carbon, Utah 84520

I CERTIFY THIS MAP TO BE TRUE AND CORRECT
 TO THE BEST OF MY KNOWLEDGE.



PLATE 29
 Isopachs
 Current Mining
 Cover
 Drillhole Location

SOURCE: UTAH DIVISION OF WILDLIFE RESOURCES

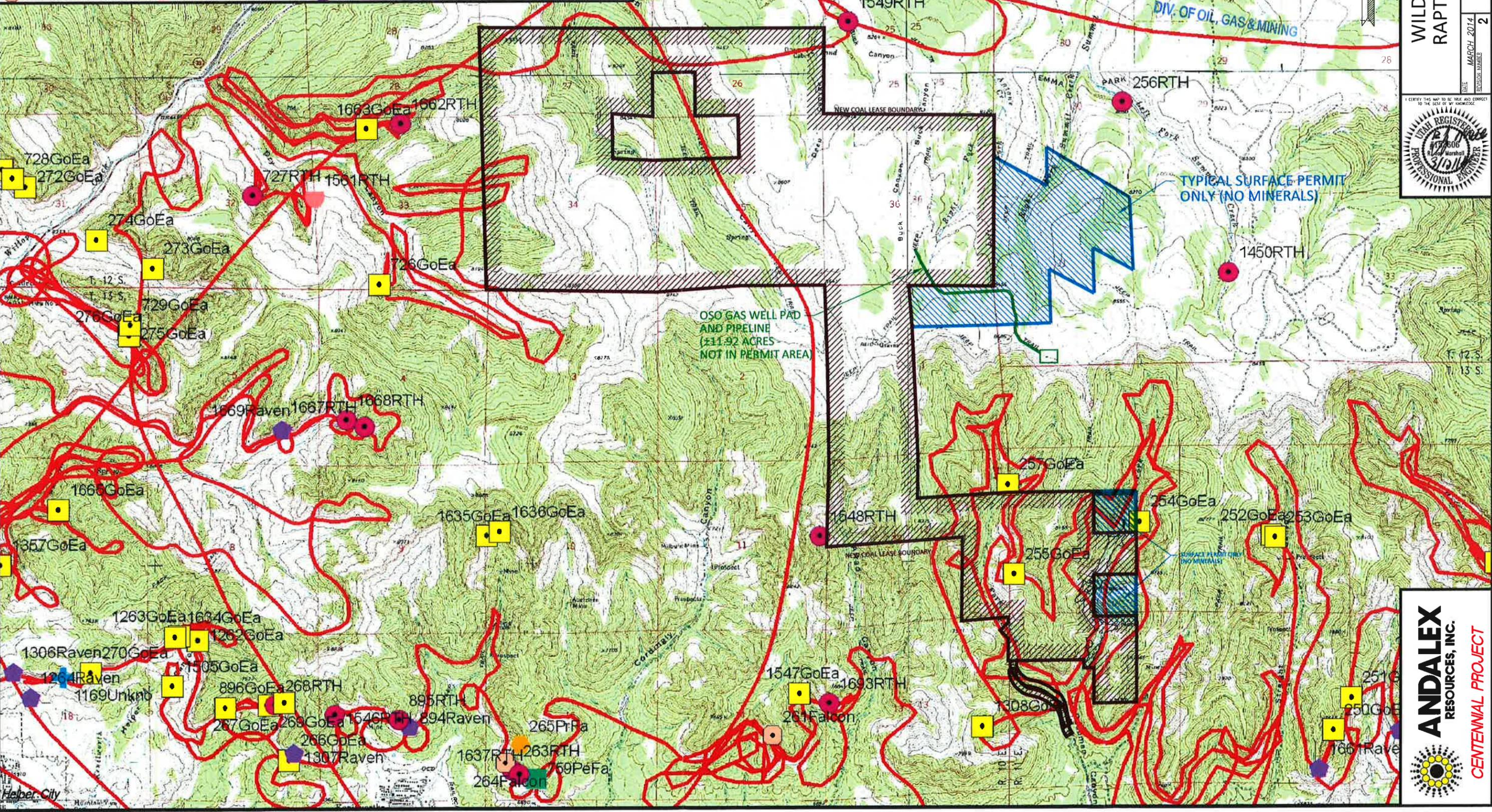
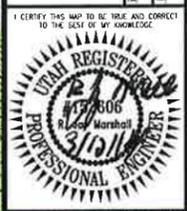
Raptor Survey 2007

Legend			
American Kestrel	Ferruginous Hawk	Northern Harrier	Red-tailed Hawk
Bald Eagle	Golden Eagle	Osprey	Unknown
Buteo	Great Horned Owl	Peregrine Falcon	Unknown Owl
Cooper's Hawk	Long-eared owl	Prairie Falcon	Western Screech Owl
Falcon	Northern Goshawk	Raven	Flight Lines

0.5 Miles 0 1 Mile

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MAR 18 2014
DIV. OF OIL, GAS & MINING

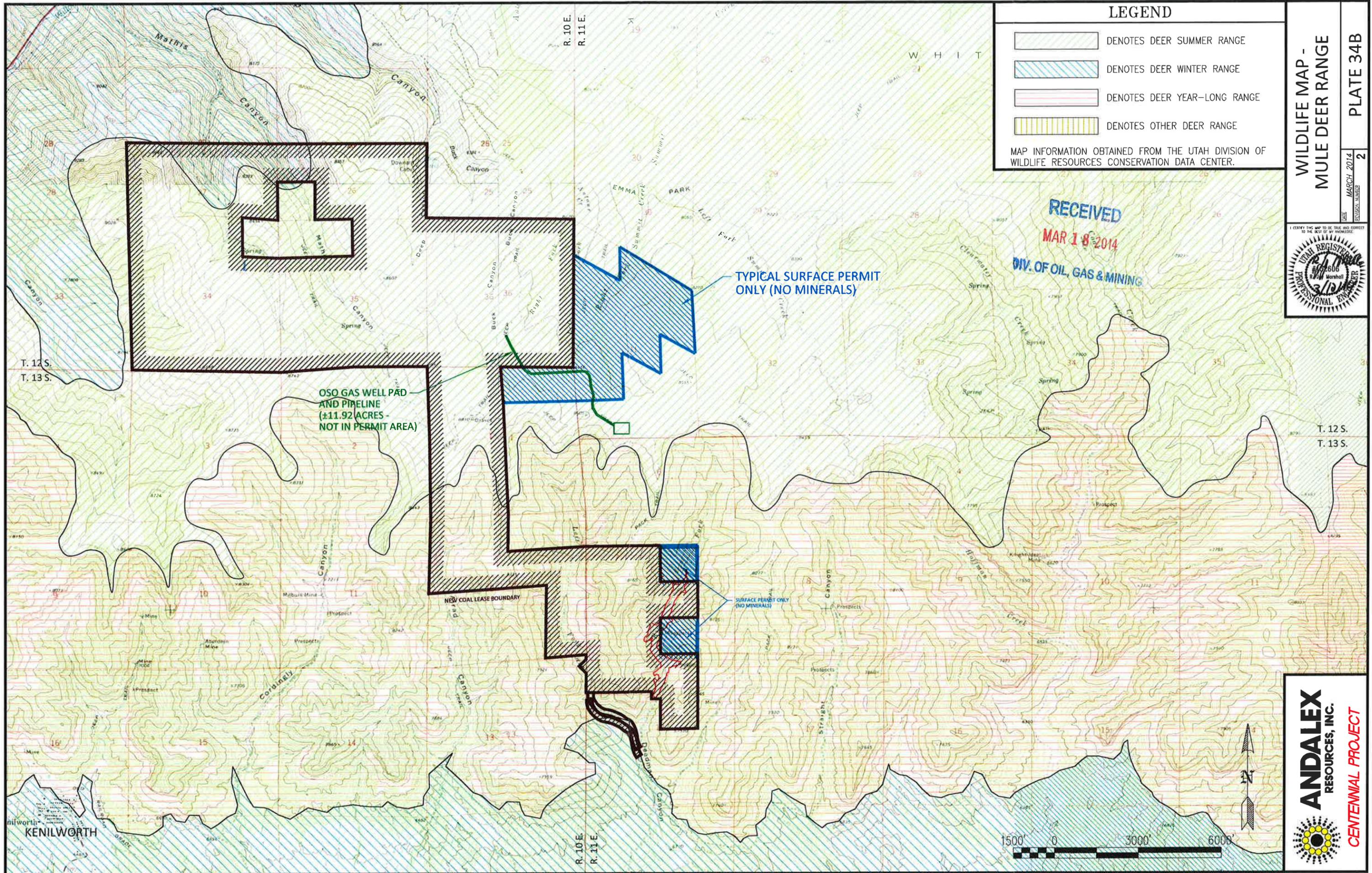
WILDLIFE MAP -
RAPTOR SURVEY
DATE: MARCH 2014
REVISION NUMBER: 2
PLATE 34A



TYPICAL SURFACE PERMIT ONLY (NO MINERALS)

OSO GAS WELL PAD AND PIPELINE (11.92 ACRES NOT IN PERMIT AREA)

ANDALEX
RESOURCES, INC.
CENTENNIAL PROJECT



LEGEND

-  DENOTES DEER SUMMER RANGE
-  DENOTES DEER WINTER RANGE
-  DENOTES DEER YEAR-LONG RANGE
-  DENOTES OTHER DEER RANGE

MAP INFORMATION OBTAINED FROM THE UTAH DIVISION OF WILDLIFE RESOURCES CONSERVATION DATA CENTER.

**WILDLIFE MAP -
MULE DEER RANGE**

PLATE 34B

DATE: MARCH 2014
REVISION NUMBER: 2



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MAR 18 2014

DIV. OF OIL, GAS & MINING

TYPICAL SURFACE PERMIT ONLY (NO MINERALS)

OSO GAS WELL PAD AND PIPELINE (±11.92 ACRES - NOT IN PERMIT AREA)

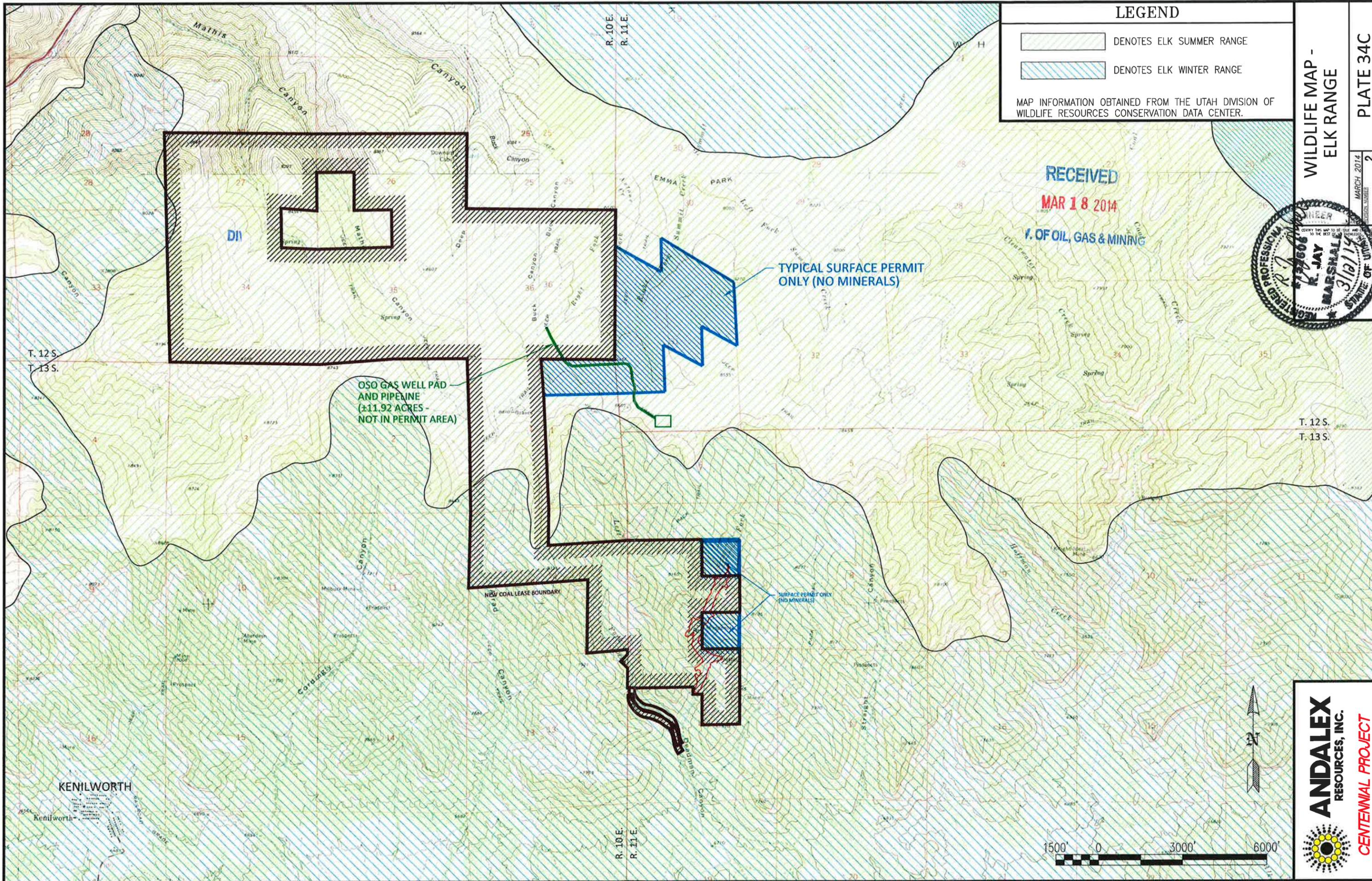
SURFACE PERMIT ONLY (NO MINERALS)

T. 12 S.
T. 13 S.

ANDALEX
RESOURCES, INC.
CENTENNIAL PROJECT



KENILWORTH



LEGEND

-  DENOTES ELK SUMMER RANGE
-  DENOTES ELK WINTER RANGE

MAP INFORMATION OBTAINED FROM THE UTAH DIVISION OF WILDLIFE RESOURCES CONSERVATION DATA CENTER.

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U.S. DEPARTMENT OF
ENERGY
BUREAU OF OIL, GAS & MINING

TYPICAL SURFACE PERMIT ONLY (NO MINERALS)

OSO GAS WELL PAD AND PIPELINE
(±11.92 ACRES - NOT IN PERMIT AREA)

SURFACE PERMIT ONLY (NO MINERALS)

NEW COAL LEASE BOUNDARY



T. 12 S.
T. 13 S.

ANDALEX
RESOURCES, INC.
CENTENNIAL PROJECT



WILDLIFE MAP -
ELK RANGE

PLATE 34C

MARCH 2014

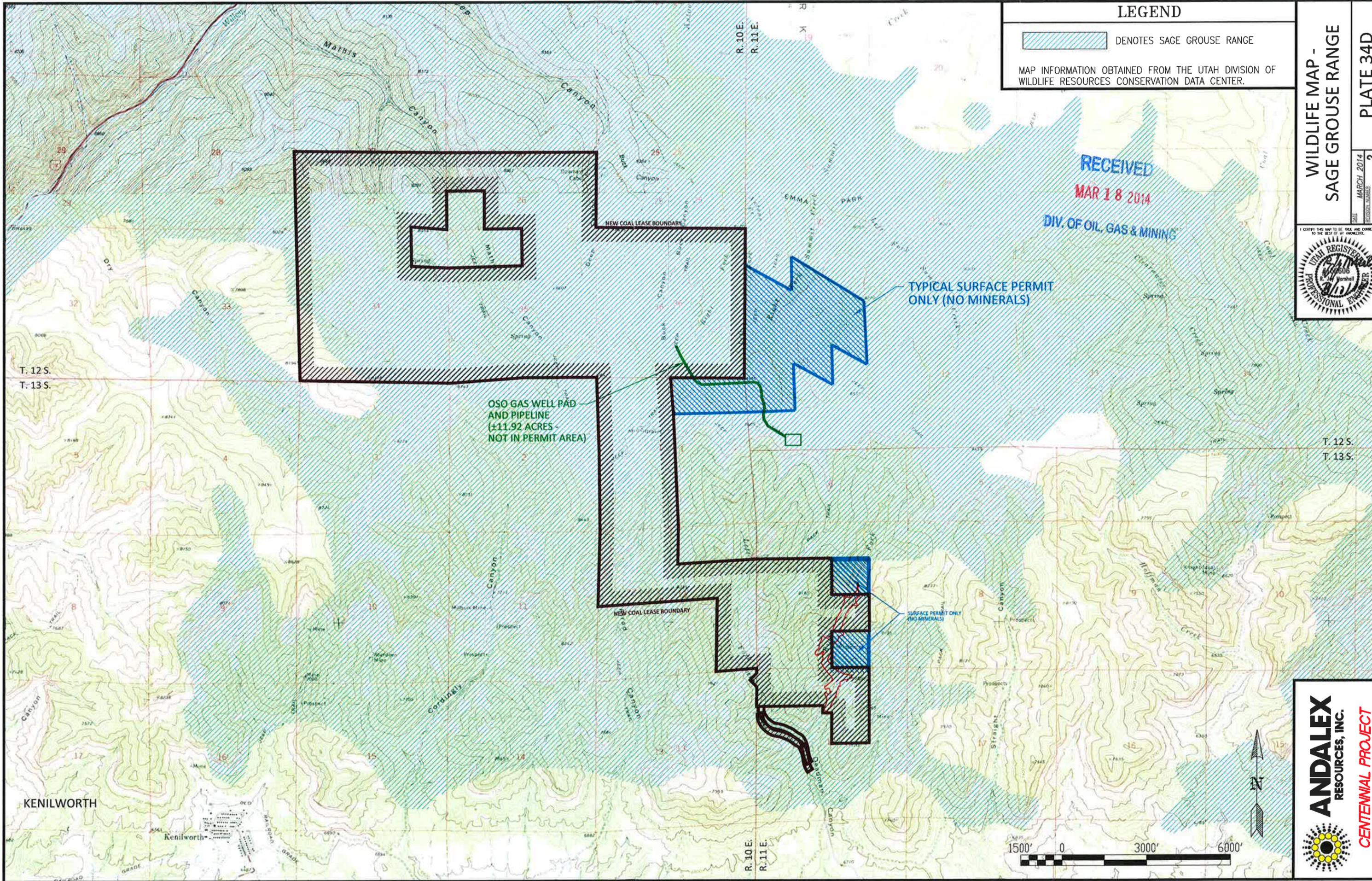
2

KENILWORTH

T. 12 S.
T. 13 S.

R. 10 E.
R. 11 E.

R. 10 E.
R. 11 E.



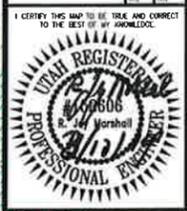
LEGEND

 DENOTES SAGE GROUSE RANGE

MAP INFORMATION OBTAINED FROM THE UTAH DIVISION OF WILDLIFE RESOURCES CONSERVATION DATA CENTER.

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MAR 18 2014
DIV. OF OIL, GAS & MINING

WILDLIFE MAP -
SAGE GROUSE RANGE
MARCH 2014
PLATE 34D



T. 12 S.
T. 13 S.

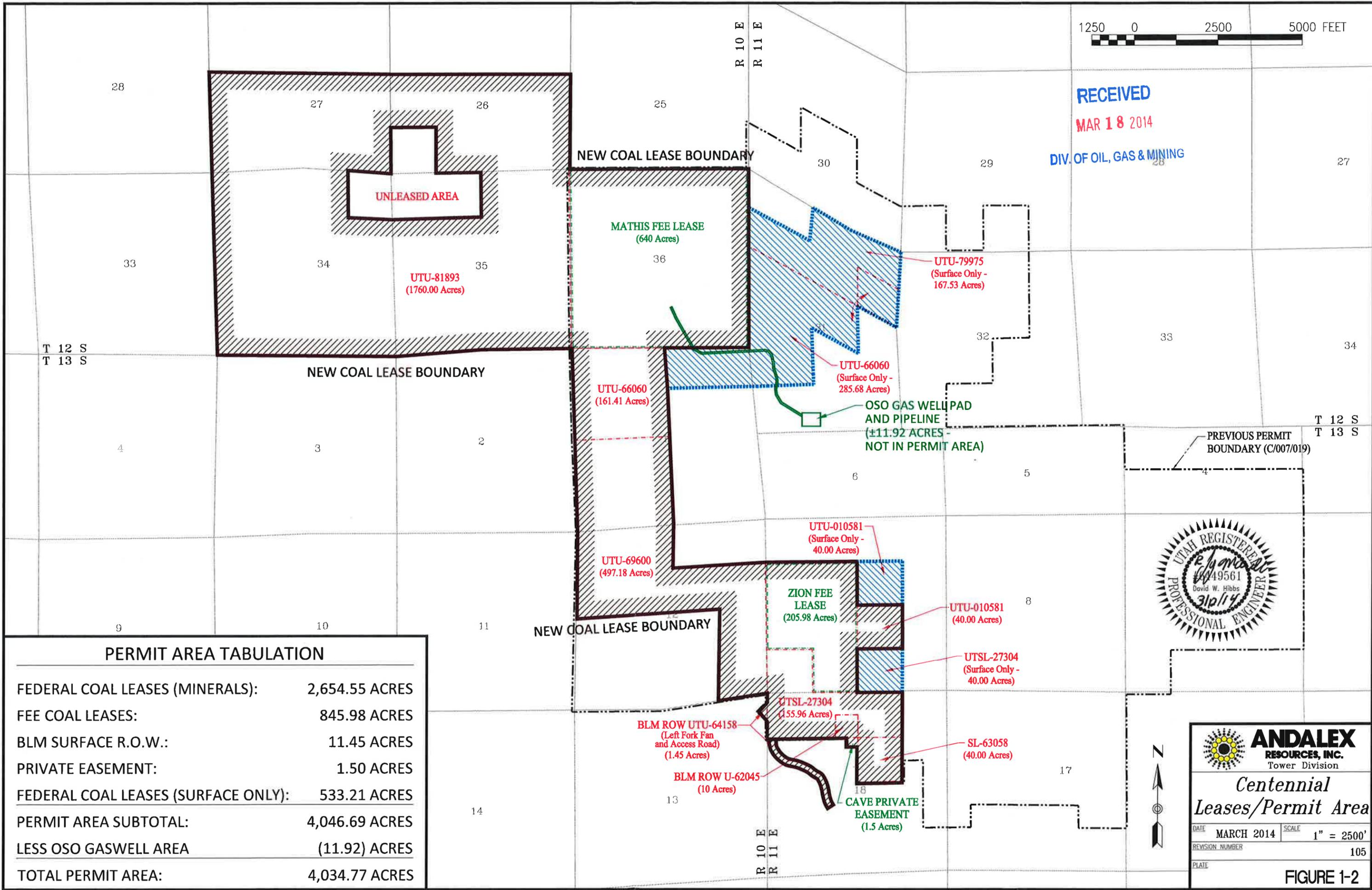
T. 12 S.
T. 13 S.

KENILWORTH

ANALEX
RESOURCES, INC.
CENTENNIAL PROJECT



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DIV. OF OIL, GAS & MINING



PERMIT AREA TABULATION	
FEDERAL COAL LEASES (MINERALS):	2,654.55 ACRES
FEE COAL LEASES:	845.98 ACRES
BLM SURFACE R.O.W.:	11.45 ACRES
PRIVATE EASEMENT:	1.50 ACRES
FEDERAL COAL LEASES (SURFACE ONLY):	533.21 ACRES
PERMIT AREA SUBTOTAL:	4,046.69 ACRES
LESS OSO GASWELL AREA	(11.92) ACRES
TOTAL PERMIT AREA:	4,034.77 ACRES



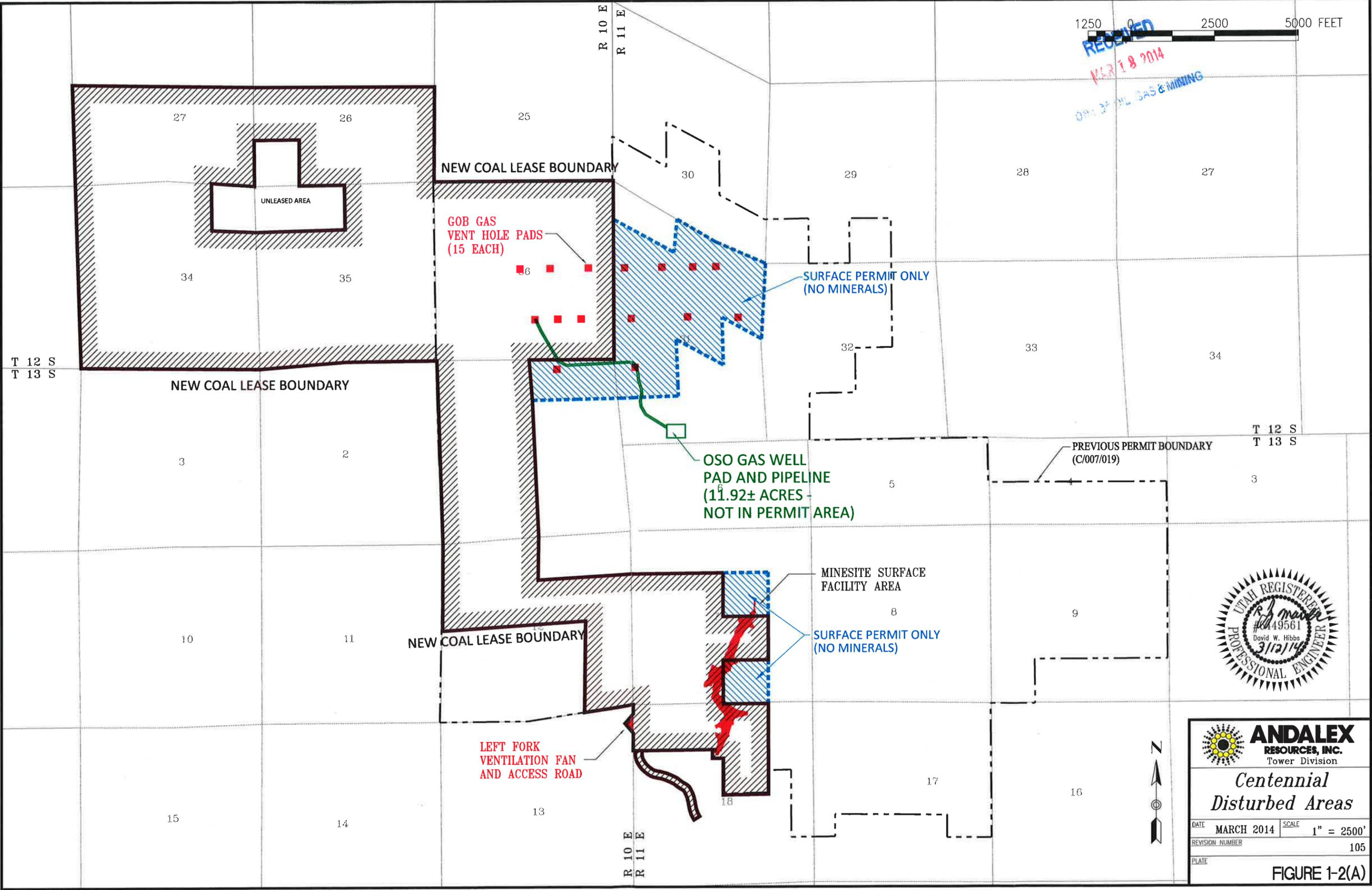
ANDALEX
RESOURCES, INC.
Tower Division

*Centennial
Leases/Permit Area*

DATE MARCH 2014 SCALE 1" = 2500'
REVISION NUMBER 105
PLATE

FIGURE 1-2

1250 2500 5000 FEET
RECEIVED
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 ORE IDaho GAS & MINING



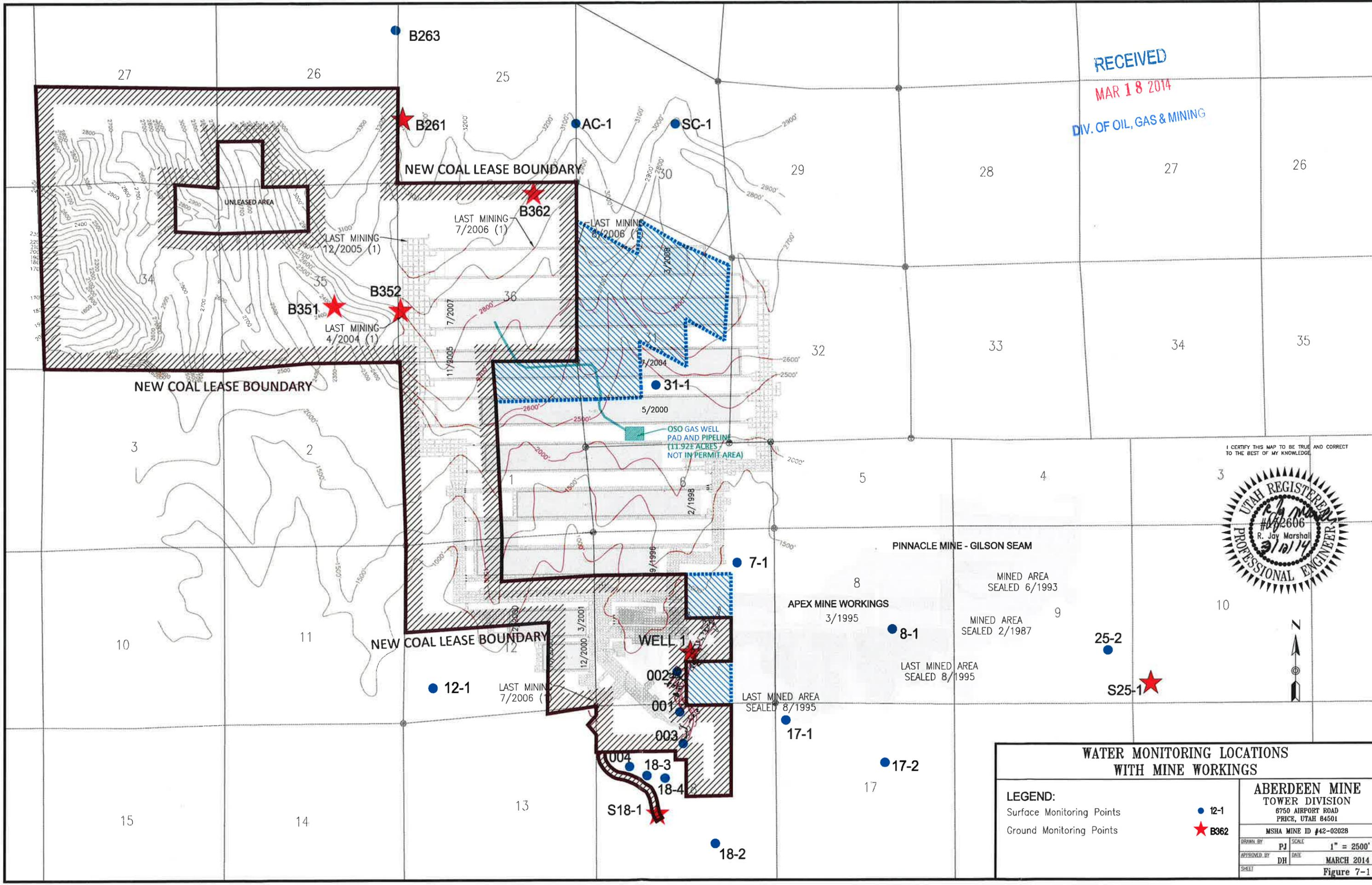
ANDALEX RESOURCES, INC.
 Tower Division

Centennial Disturbed Areas

DATE: MARCH 2014 SCALE: 1" = 2500'
 REVISION NUMBER: _____ 105
 PLATE: _____

FIGURE 1-2(A)

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WATER MONITORING LOCATIONS WITH MINE WORKINGS	
LEGEND: Surface Monitoring Points ● 12-1 Ground Monitoring Points ★ B362	ABERDEEN MINE TOWER DIVISION 6750 AIRPORT ROAD PRICE, UTAH 84501 MSHA MINE ID #42-02028
	DRAWN BY: PJ SCALE: 1" = 2500' APPROVED BY: DH DATE: MARCH 2014 SHEET: Figure 7-1

NEW COAL LEASE BOUNDARY

RECEIVED

REMONUMENTED SECTION CORNER (BLM) MAR 18 2014 DIV. OF OIL, GAS & MINING

SURFACE ONLY - NO MINERALS

I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE



LEGEND

- CURRENT GVH LOCATIONS
- ⊕ PROPOSED GVH LOCATIONS (Primary)
- ⊙ PROPOSED GVH LOCATIONS (Alternate)
- OSO PIPELINE CORRIDOR (APPROXIMATE LOCATION)
- - - EXISTING ROADS
- - - NEWLY CONSTRUCTED ROADS
- SURFACE OWNERSHIP BOUNDARY
- ANDALEX PERMIT BOUNDARY
- ★ VEGETATION REFERENCE AREAS

GVH LOCATIONS MAP

CENTENNIAL PROJECT

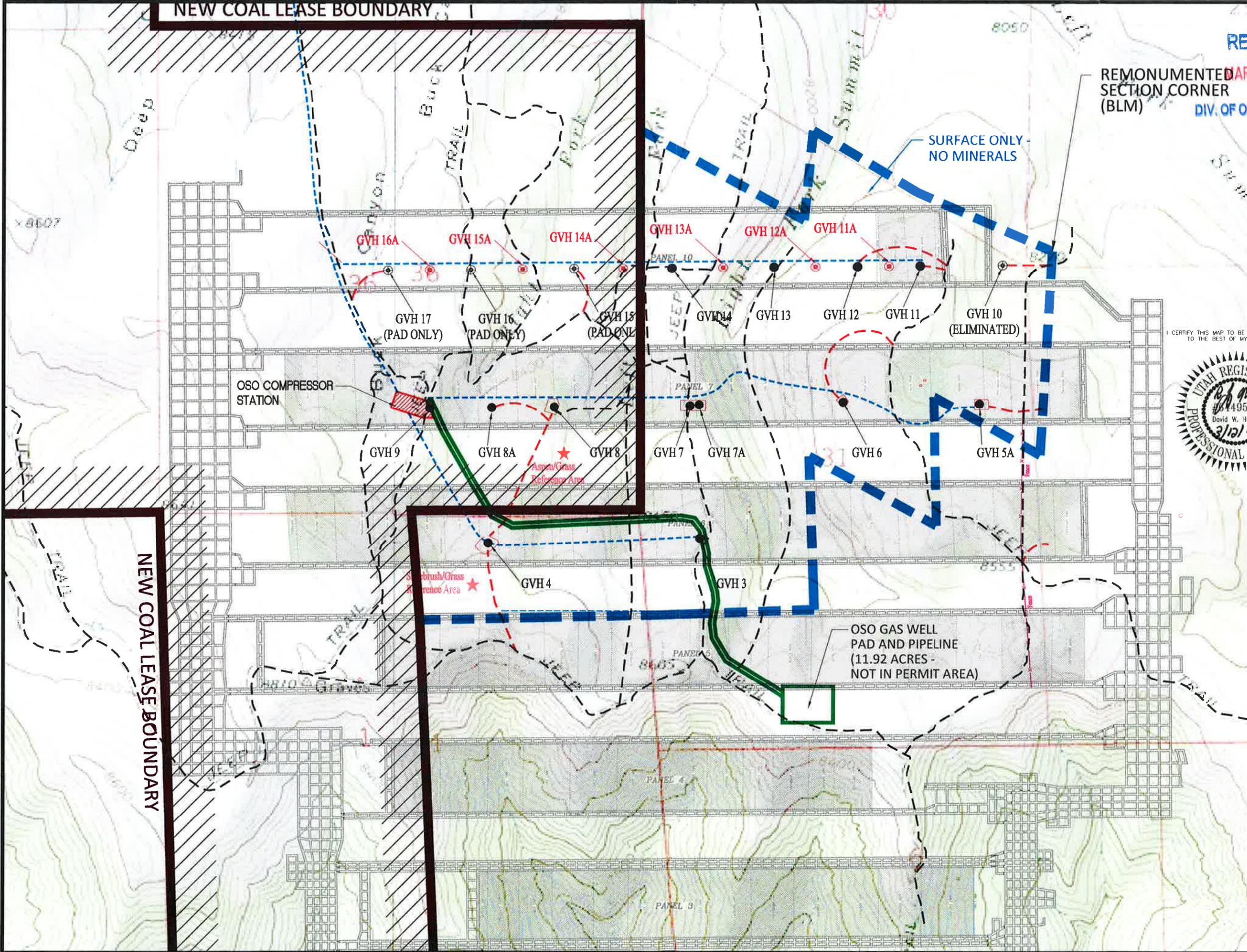


6750 AIRPORT ROAD PRICE, UTAH 84501

MSHA MINE ID #42-02028

DRAWN BY	PJ	SCALE	1" = 1000'
APPROVED BY	DH	DATE	MARCH 2014

FIGURE 1-1



NEW COAL LEASE BOUNDARY

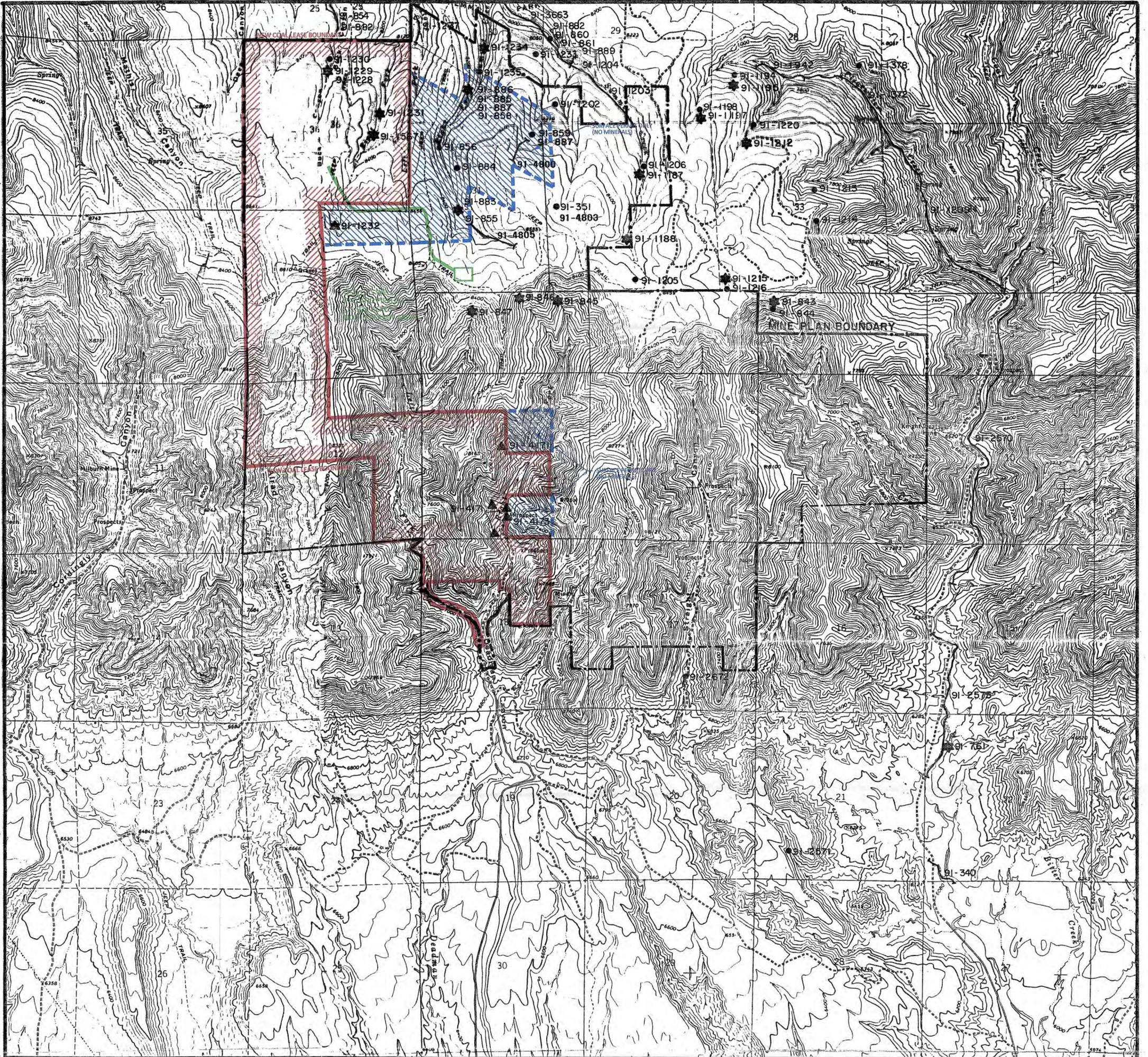


FIGURE 5 - Surface and Ground Water Rights On and Adjacent to the Andalex Resources, Inc. Mine Plan Area

Legend

- 90-290 Water Use Claim Number
- ~ Stream Segment
- ★ Diversion Point, Stock Pond or Reservoir Use
- Spring
- ▲ Diversion by Well or Mine



1" = 2000' scale feet

I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



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Prepared by:
Vaughn Hanson Associates
Salt Lake City, Utah
February 1981

Revisions:

03/06/98	JCB	Andalex Resources, Inc.
05/14/98	JCB	Andalex Resources, Inc.
12/28/98	JCB	Andalex Res., Inc.
2/13/02	JCB	Andalex Res., Inc.
8/16/02	JCB	Andalex Res. Inc.
2/20/04	DG	
07/12/05	DG	
01/20/14	PJ	

Figure 5

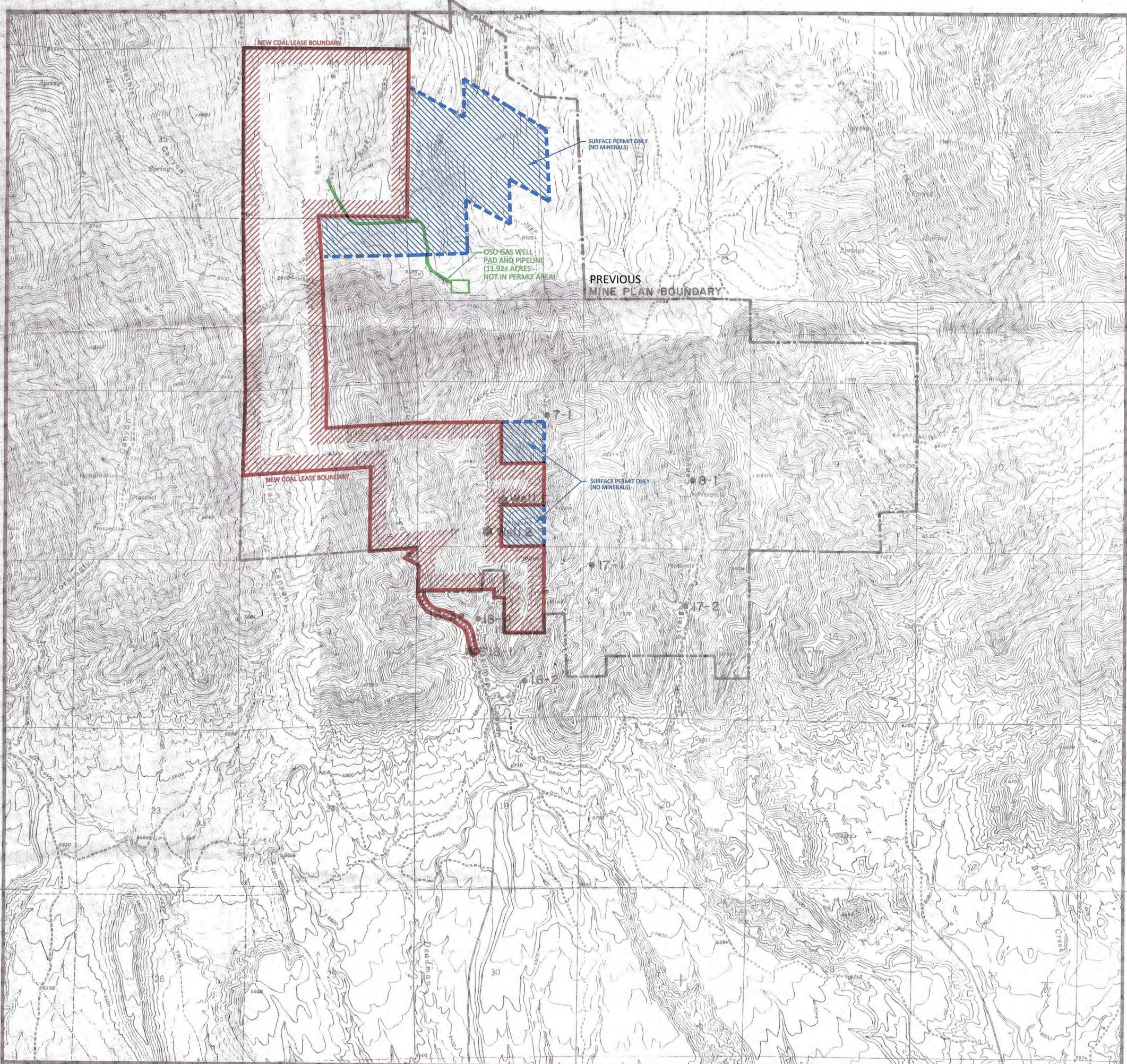
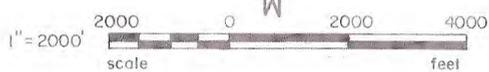


FIGURE 6- Location of the Proposed Ground and Surface Water Monitoring Stations of the Andalex Resources, Inc. Mine Plan Area

Legend

- ★ Ground Water Monitoring Station
- Surface Water Monitoring Station



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Figure 6