

# WEST RIDGE MINE

007/041

INCIDENTAL BOUNDARY CHANGE  
TO THE  
MINING AND RECLAMATION PLAN

***TO INCLUDE:***

***MINING WITHIN 20.3 ACRES OF  
PENTA CREEK FEE LEASE EXTENSION***

SUBMITTAL OF CLEAN COPIES  
TASK #3608

SUBMITTED: OCTOBER 6, 2010

COVER LETTER.....C1/C2 FORMS

**COPY**

C/007/041 Incoming

#3608  
&



P.O. Box 910, East Carbon, Utah 84520  
Telephone (435) 888-4000 Fax (435) 888-4002

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

October 6, 2010

ATTACHMENT NOT PRINTED, MAINTAINED  
ELECTRONICALLY ONLY. (Attachment  
in Date Folder 10062010)

Attn: Daron Haddock  
Permit Supervisor

Re: West Ridge Mine C/007/041  
Incidental Boundary Change  
Penta Creek Fee Lease Extension  
Submittal of Clean Copies, Task #3608

Dear Mr. Haddock:

Enclosed are four (4 ea.) clean copies of the approved Incidental Boundary Change (IBC) to the West Ridge MRP, Task # 3608.

If you have questions or comments please contact me at (435) 888-4017.

Sincerely,

David Shaver  
Resident Agent

File in:

- Confidential
- Shelf
- Expandable

Date Folder 10062010 C/0070041

See: *Incoming*; For additional information

*Confidential*

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OCT 06 2010

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: <b>C/007/041</b>
Title of Proposal: <b>Incidental Boundary Change to allow mining within 20.3 acres</b>						Mine: <b>WEST RIDGE MINE</b>
<b>Of Penta Creek fee lease extension, clean copies, Task 3608</b>						Permittee: <b>WEST RIDGE Resources, Inc.</b>

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 specialist.

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	2. Is the application submitted as a result of a Division Order?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input checked="" 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 checked="" 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 checked="" type="checkbox"/> No	9. Is the application submitted as a result of a Violation?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain:
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing?
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<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

**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. (R645-301-123)

Signed - Name - Position - Date

Subscribed and sworn to before me this 6<sup>th</sup> day of October, 2010.

My Commission Expires: \_\_\_\_\_  
Attest: STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

Notary Public



Received by Oil, Gas & Mining

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OCT 06 2010

DIV. OF OIL, GAS & MINING

ASSIGNED TRACKING NUMBER





**WEST RIDGE**  
RESOURCES, INC.

P.O. Box 910, East Carbon, Utah 84520  
Telephone (435) 888-4000 Fax (435) 888-4002

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

August 24, 2010

Attn: Daron Haddock  
Permit Supervisor

Re: West Ridge Mine C/007/041  
Incidental Boundary Change  
Penta Creek Fee Lease Extension

Dear Mr. Haddock:

Enclosed are six (6 ea.) copies of an Incidental Boundary Change (IBC) to the West Ridge MRP. This IBC is to allow mining within a small area of the newly-acquired Penta Creek Fee Lease Extension. The purpose of this IBC is to allow the main entries to be squared off before the section equipment has to be pulled out. As a result of the IBC the permit area would expand from 6740.53 acres to 6760.83 acres. As you review this submittal please note the following:

- 1) The IBC increases the permit area by 20.3 acres, which is less than 1/3 of 1% of the existing permit area.
- 2) The actual area of the IBC to be undermined is less than 9.5 acres.
- 3) All mining within the IBC will be development mining. There will be no full-extraction mining associated with the IBC.
- 4) All mining in this IBC will be under 3000' of cover.
- 5) There will be no surface disturbance associated with mining of the IBC.
- 6) The IBC area is included within the existing CHIA
- 7) This IBC has been surveyed for raptors with negative finding.

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AUG 30 2010  
DIV. OF OIL, GAS & MINING

Daron Haddock  
August 24, 2010  
page 2

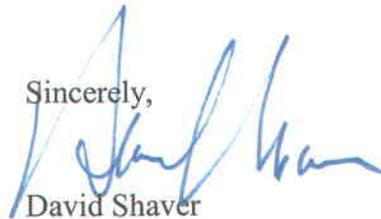
- 8) The IBC has been surveyed for archeology with negative findings.
- 9) There are no issues involving soils, biology, T & E species, land use, archeology, land use or hydrology associated with the IBC.
- 10) All mining in the IBC will be on private (fee) coal, under private (fee) surface, both owned by Penta Creek and leased to West Ridge Resources.

A map showing the location of the IBC relative to the existing permit area is attached to this letter for your review. Please note that the confidential archeology information and raptor information for this area is the same as what was submitted for the recent SITLA IBC which was approved and incorporated by your office on July 27 of this year.

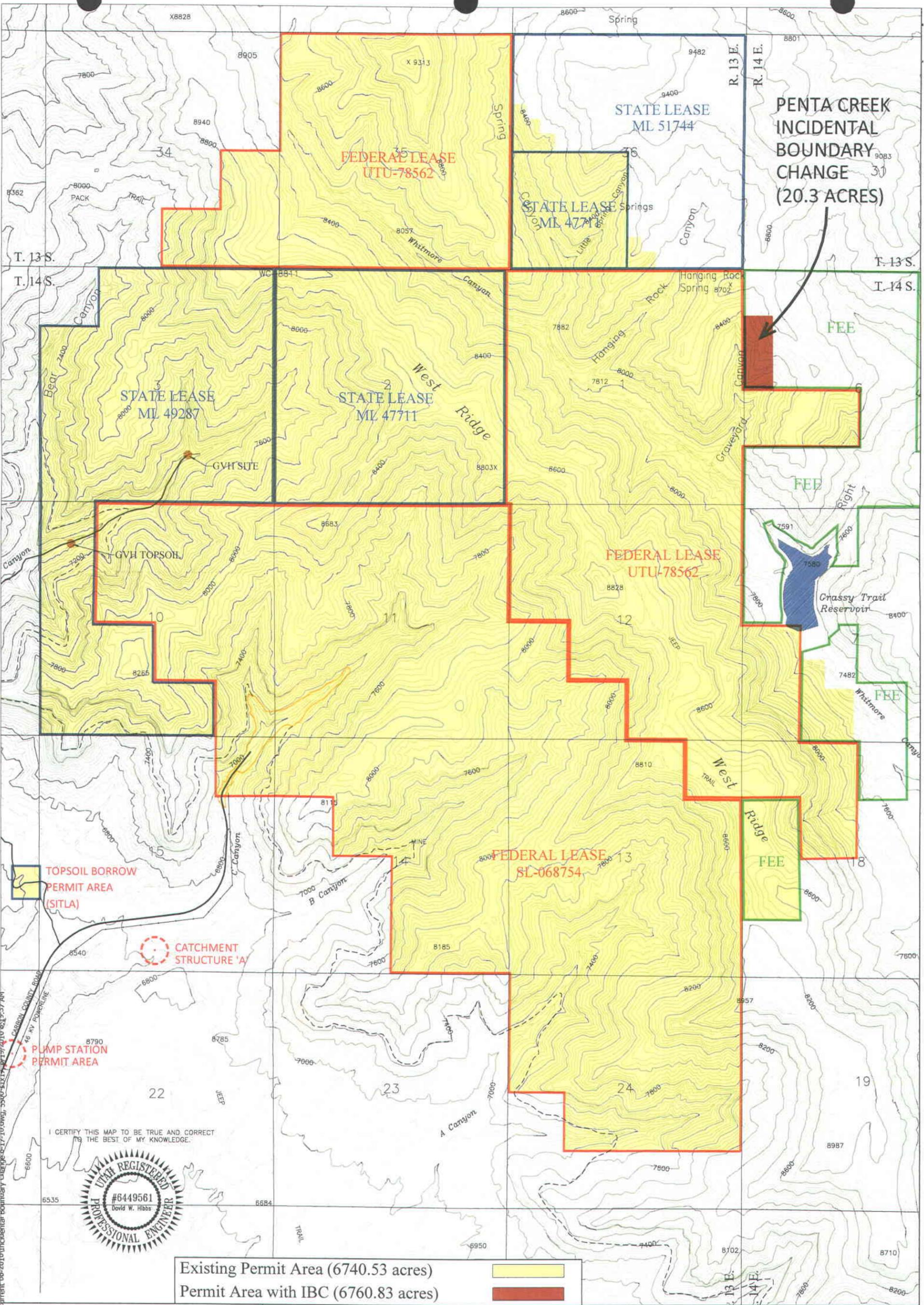
According to our latest mining projections, the main entry development is scheduled to cross into the Penta Creek IBC area in October, 2010. Therefore, we would appreciate an expedited review of this application.

If you have questions or comments please contact me at (435) 888-4017.

Sincerely,



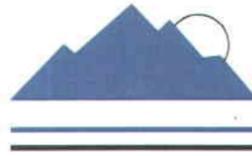
David Shaver  
Resident Agent



Existing Permit Area (6740.53 acres)   
 Permit Area with IBC (6760.83 acres)

# WEST RIDGE MINE Incidental Boundary Change

- LEGEND:**
- Federal Lease
  - State Lease
  - Penta Creek Fee
  - Surface Facility Area
  - GVH Site
  - Outcrop



**WEST RIDGE  
RESOURCES, INC.**

SCALE: 1"=2000'

DATE: 8-19-10



Current Drawings/Maps (West Ridge Mine) current to 2010 incidental boundary change 08-17-10 DWJ, 0800-518-17-10/08-19-10 08:23:37 AM

## APPLICATION FOR PERMIT PROCESSING

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Title of Proposal: <b>Incidental Boundary Change to allow mining within 20.3 acres Of Penta Creek fee lease extension</b>						Mine: <b>WEST RIDGE MINE</b>
						Permittee: <b>WEST RIDGE Resources, Inc.</b>

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**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. (R645-301-123)

Mary V. Kava 8/24/10  
Signed - Name - Position - Date  
agent

Subscribed and sworn to before me this 24 day of August, 2010.

Mary V. Kava  
My Commission Expires May 16, 2012  
Attest: STATE OF Utah COUNTY OF Carbon



Received by Oil, Gas & Mining

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AUG 30 2010

DIV. OF OIL, GAS & MINING

ASSIGNED TRACKING NUMBER



## CHAPTER 1.....REPLACEMENT PAGES

**NOTE TO REVIEWERS:**

**REPLACE PAGES 1-ii, 1-5, 1-6 and 1-11 thru 1-15**

~WEST RIDGE MINE - PERMIT APPLICATION PACKAGE~

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<b>APPENDIX NUMBER</b>	<b>DESCRIPTION</b>
APPENDIX 1-1	Certifications, Verifications, Publications Attachment 1-1 Certificate of Liability Insurance Attachment 1-2 Newspaper Advertisement Attachment 1-3 Proof of Publication Attachment 1-4 Filing Fee Verification Attachment 1-5 Verification Statement
APPENDIX 1-2	Violation Information
APPENDIX 1-3	Reference List
APPENDIX 1-4	Proof of Lease Assignment
APPENDIX 1-4A	Federal Lease SL-068754, U-01215
APPENDIX 1-4B	Federal Lease UTU-78562
APPENDIX 1-4C	State Lease ML-47711
APPENDIX 1-4D	State Lease ML-49287
APPENDIX 1-4E	State Lease ML-51744
APPENDIX 1-4F	Penta Creek Fee Lease
APPENDIX 1-4G	Penta Creek Fee Lease Extension
APPENDIX 1-5	Current and Previous Coal Mining Permits
APPENDIX 1-6	Consultation and Coordination
APPENDIX 1-7	Ownership and Control
APPENDIX 1-8	Letter from Carbon County
APPENDIX 1-9	*****Deleted*****
APPENDIX 1-10	SITLA - Special Use Lease (Topsoil Borrow Area)
APPENDIX 1-11	Material Deposit Special Use Lease Agreement
APPENDIX 1-12	Waterline/Pump House Right of Way
APPENDIX 1-13	Correspondence Regarding Security Gate
APPENDIX 1-14	*****Moved*****
APPENDIX 1-15	Legal Description of Grassy Trail Reservoir

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R645-301-100 CHAPTER 1**

<b>MAP NUMBER</b>	<b>DESCRIPTION</b>	<b>SCALE</b>
<b>MAP 1-0</b>	<b>Permit Map</b>	<b>1" = 2000'</b>
MAP 1-1	Location Map	1" = 2000'

**R645-301-100 PERMIT APPLICATION REQUIREMENTS: GENERAL CONTENTS**

**SCOPE**

The objective of this chapter is to set forth all relevant information concerning ownership and control of WEST RIDGE Resources, Inc., the ownership and control of the property to be affected by mining activities and all other information and documentation required under Part UMC.

**R645-301-112 IDENTIFICATION OF INTERESTS**

112.100 WEST RIDGE Resources, Inc. is a corporation organized and existing under the laws of Utah and qualified to do business in Utah.

112.200 The applicant, WEST RIDGE Resources, Inc. will also be the operator.

WEST RIDGE Resources, Inc.  
P.O. Box 910  
East Carbon, Utah 84520  
(435) 888-4000  
David Hibbs - President

Employer Identification Number: 87-0585129

112.220 The resident agent of the applicant, WEST RIDGE Resources, Inc., is:

Dave Shaver  
WEST RIDGE Resources, Inc.  
P.O. Box 910  
East Carbon, Utah 84520

(435) 888-4000

112.230 WEST RIDGE Resources, Inc. will pay the abandoned mine land reclamation fee.

112.300      **Ownership and Control - See Appendix 1-7**

WEST RIDGE Resources, Inc. is the permittee and operator of the WEST RIDGE Mine. WEST RIDGE Resources, Inc. is a wholly owned subsidiary of ANDALEX Resources, Inc.. WEST RIDGE Resources, Inc. is a Utah corporation licensed to do business in the State of Utah. WEST RIDGE Resources, Inc. is the operating agent for the WEST RIDGE PROJECT. ANDALEX Resources, Inc. and the Intermountain Power Agency (I.P.A.) are tenants in common (co-owners) of the WEST RIDGE PROJECT, each having an undivided 50% ownership interest in the PROJECT. ANDALEX Resources, Inc. is a Delaware corporation and Intermountain Power Agency is a political subdivision of the State of Utah. All leases associated with the WEST RIDGE Mine are owned jointly (undivided 50% ownership) by ANDALEX Resources, Inc. and Intermountain Power Agency. ANDALEX Resources, Inc. is a wholly owned subsidiary of UtahAmerican Energy Inc., which in turn is a wholly owned subsidiary of Murray Energy Corporation.

112.340      See Appendix 1-5

112.350      See Appendix 1-5

112.410      See Appendix 1-5

112.420      See Appendix 1-7

112.500      Surface Owners:

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

Glen Wells  
700 West U.S. Hwy 6  
Price, Utah 84501

Penta Creek, LLC  
140 S. Newton  
Albert Lea, MN 56007

Dave Hinkins  
155 West 100 South  
Orangeville, Utah 84537

School and Institutional Trust  
Lands Administration  
355 West North Temple, Suite 400  
Salt Lake City, Utah 84180-1204

Matt Rauhala  
1236 East Main  
Price, Utah 84501

Subsurface Owners:

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

Penta Creek, LLC  
140 S. Newton  
Albert Lea, MN 56007

School and Institutional Trust  
Lands Administration  
355 West North Temple, Suite 400  
Salt Lake City, Utah 84180-1204

WEST RIDGE Resources, Inc. is the holder of record for federal lease SL-068754 and UTU 78562 (see Table 1-1), state lease ML 47711 and ML 49287 (see Table 1-2A) and the Penta Creek Fee lease (see Table 1-2B).

Proof of lease assignment for all leases (Federal leases SL-068754 and UTU 78562, and State leases ML 47711 and ML 49287), and the Penta Creek fee lease can be found in Appendix 1-4.

112.600 Contiguous surface owners:

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

Dave Hinkins  
155 West 100 South  
Orangeville, Utah 84537  
Glen Wells

700 West U.S. Hwy 6  
Price, Utah 84501

Penta Creek, LLC  
140 S. Newton  
Albert Lea, MN 56007

School and Institutional Trust  
Lands Administration  
355 West North Temple, Suite 400  
Salt Lake City, Utah 84180-1204

Contiguous subsurface owners:

School and Institutional Trust  
Lands Administration  
355 West North Temple, Suite 400  
Salt Lake City, Utah 84180-1204

Penta Creek, LLC  
140 S. Newton  
Albert Lea, MN 56007

Dave Hinkins  
155 West 100 South  
Orangeville, Utah 84537

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

112.700 See Appendix 1-5

112.800 There are no pending interests or bids existing on lands contiguous to the present leased area.

112.900 After WEST RIDGE Resources, Inc. is notified that the application is approved, but before the permit is issued, WEST RIDGE Resources, Inc. will update, correct or indicate that no change has occurred in the information previously submitted under R645-301-112.100 through R645-301-112.800.

**R645-301-113 VIOLATION INFORMATION**

- 113.100 The applicant or any subsidiary, affiliate or persons controlled by or under common control with the applicant has not had a federal or state permit to conduct coal mining and reclamation operations suspended or revoked in the five years preceding the date of submission of the application.
- 113.120 The applicant etc. has not forfeited any performance bond or similar security
- 113.200 Not applicable
- 113.300 A listing of violations received by the applicant in connection with any coal mining and reclamation operation during the three year period preceding the application date is provided in Appendix 1-2. MSHA numbers for the operations can be found in Appendix 1-5. There have been no unabated violations or cessation orders issued to any affiliated companies during the previous three years.
- 113.400 After WEST RIDGE Resources, Inc. is notified that the application is approved, but before the permit is issued, WEST RIDGE Resources, Inc. will update, correct or indicate that no change has occurred in the information previously submitted under R645-301-113.

**R645-301-114 RIGHT OF ENTRY INFORMATION**

- 114.100 WEST RIDGE Resources, Inc., currently holds 4,899.92 acres of federal coal (2,650.67 acres leased under SL-068754 and 2249.25 acres leased under UTU 78562) in the Book Cliffs coal field (refer to Maps 1-0 and 5-3). A complete legal description of all Federal leases held by WEST RIDGE is found in Table 1-1. WEST RIDGE currently holds 2162.34 acres of state coal (801.24 acres under ML 47711, 881.10 under ML 49287, and 480 acres under ML 51744. A complete legal description of all State leases held by WEST RIDGE is found in Table 1-2. WEST RIDGE also holds a 734.44 acre lease on contiguous private (fee) coal lands located along the eastern side of the mineable reserve. A complete legal description of this fee lease is found in Table 1-3. None of these leases are the subject of any pending litigation. Proof of lease assignment for all leases can be found in Appendix 1-4.

WEST RIDGE Resources, Inc. bases its legal right to enter and conduct mining activities in the permit area pursuant to the language contained in the Federal Coal Lease, Part I Lease Rights Granted which reads as follows:

*"That the lessor, in consideration of the rents and royalties to be paid and the covenants to be observed as hereinafter set forth, does hereby grant and lease to the*

*lessee the exclusive right and privilege to mine and dispose of all the coal in, upon, or under the following described tracts of land, situated in the State of Utah... together with the right to construct all such works, buildings, plants, structures and appliances as may be necessary and convenient for the mining and preparation of the coal for market, the manufacture of coke or other products of coal, the housing and welfare of employees, and subject to the conditions herein provided, to use so much of the surface as may reasonably be required in the exercise of the rights and privileges herein granted."*

In addition to the coal leases, WEST RIDGE also holds several surface use permits as part of the operation, including:

1) SITLA Special Use Lease Agreement No. 1163. The substitute topsoil borrow area, which is also included within the permit area, is located on lands administered by the Utah School and Institutional Trust Lands Administration (SITLA). This area is located within the SE1/4 of section 16, T 14 S, R 13 E. SITLA has issued a long term special use permit to WEST RIDGE Resources, Inc. which provides full assurance that the topsoil resource in this area will be available for (and, indeed dedicated to) final reclamation of the West Ridge minesite if needed. This area is not contiguous with the main coal leasehold. (See Appendix 1-10 for details)

2) BLM Right-of-Way UTU-77120 This right-of-way authorizes the installation and operation of a pumping station used to facilitate the delivery of culinary water to the West Ridge Mine. This area is not contiguous with the main coal leasehold. (See Appendix 1-12 for details)

3) BLM Right-of-Way 87110 This right-of way authorizes the installation of a catchment structure in the C Canyon drainage below the mine. This catchment is designed to provide containment of unanticipated coal-fines accumulations from the mine discharge water. This catchment structure comprises 0.23 acres (Refer to Appendix 5-15 for details).

The permit area consists of the following areas:

- 1) all of federal coal leases SL-068754-U-01215 (2,650.67 acres)
- 2) all of federal coal lease UTU 78562 (2,249.25 acres),
- 3) all of state coal leases ML-47711 (801.24 acres)
- 4) all of state coal lease ML-49287 (881.10 acres)
- 5) a small portion of state coal lease ML-51744 (22.5 acres)
- 6) much of the Penta Creek fee coal lease (145.22 acres)
- 7) SITLA surface lease 1163, for topsoil borrow area (9.6 acres).
- 8) BLM right-of-way UTU-77120, for pumping station (0.23 acres)
- 9) BLM right-of-way UTU-87110, for catchment structures (0.23 acres)
- 10) Carbon County authorization, road security gate (0.79 acres). See Appendix 1-13.

The total permit area is 6760.83 acres. Refer to Map 1-1 for the permit area location. Refer to Table 1-4 for the legal description of the permit area by composite leasehold, and Table 1-5 for the legal description of the permit area in total area. Table 1-6 describes the surface ownership of the permit area.

Disturbed area within the permit area consists of the following;

1)	Minesite surface facilities	29.82 acres
2)	Pumping station	0.23 acres
3)	GVH installation	0.24 acres
4)	GVH topsoil storage	0.1 acres
5)	Catchment structure	<u>0.23 acres</u>
	TOTAL	30.62 acres

See Table 1-7 for complete legal description of disturbed areas.

114.200 Not applicable, the fee lease mineral estate is not severed from the surface estate.

**TABLE 1-1  
FEDERAL LEASE and R.O.W. PROPERTIES**

<u>PARCEL</u>	<u>ACREAGE</u>	<u>LEGAL DESCRIPTION</u>
<u>1) FEDERAL COAL LEASE SL-068754</u> (SL-068754-U-01215)	2,650.67	T 14 S, R 13 E  Section 10: NE, E2NW, N2SE, SESE  Section 11: All  Section 12: S2SW, NWSW  Section 13: S2, NW, S2NE, NWNE  Section 14: E2, N2NW, SENW  Section 15: NENE  Section 24: N2, N2SE, NESW
<u>2) FEDERAL COAL LEASE UTU-78562</u>	2,249.25	T 13 S, R13 E  Section 34: NESE, S2SE  Section 35: All  T 14 S, R 13 E  Section 1: All  Section 12: Lots 1 thru 4, S2N2, NESW, SE  Section 13: NENE  T 14 S, R 14 E  Section 6: Lot 6, NESW  Section 7: Lots 3 and 4  Section 18: Lot 1, E2NW
<u>3) PUMPING STATION</u> (BLM R.O.W. UTU-7712)	0.23	T 14 S, R 13 E  Section 21: NENE (0.23 acres thereof)

4) CATCHMENT STRUCTURE  
(BLM R.O.W. UTU-87110)

0.23

T 14 S, R 13 E

Section 15:      SESW (0.23 acres therein)

TOTAL FEDERAL

4900.38

**TABLE 1-2**  
**STATE (SITLA) LEASE and SPECIAL USE PROPERTIES**

<u>PARCEL</u>	<u>ACREAGE</u>	<u>LEGAL DESCRIPTION</u>
<u>1) STATE LEASE ML 47711</u>	801.24	T 14 S, R 13 E  Section 2: Lots 1 thru 4, S2N2, S2 (i.e. All)  T 13 S, R 13 E  Section 36: SW
<u>2) STATE COAL LEASE ML 49287</u>	881.10	T 14 S, R 13 E  Section 3: Lots 1, 2, 3, S2N2, S2  Section 10: W2NW, SW, SWSE
<u>3) STATE COAL LEASE ML 51744</u>	480	T 13 S, R 13 E  Section 36: N2, SE
<u>4) STATE SURFACE LEASE</u> <u>SPECIAL USE PERMIT</u> (Agreement #1163)	9.6	T 14 S, R 13  Section. 16: E2NESE (9.6 acres thereof, containing substitute topsil area)
<b><u>TOTAL STATE</u></b>	<b><u>2171.94</u></b>	

**TABLE 1-3  
FEE LEASE PROPERTIES  
(PENTA CREEK)**

<u>PARCEL</u>	<u>ACREAGE</u>	<u>LEGAL DESCRIPTION</u>
<u>1) PENTA CREEK FEE LEASE</u>	382.08	T 14 S, R 14 E
		Section 6: Lot 7, SESW
		Section 7*: Lots 1 and 2, NENW, E2SW, SWSE
		Section 18: Lots 2 and 3, NWNE

\*Less and excepting from the portion of the above legal subdivisions in Section 7, those lands under and around Grassy Trail Dam and Reservoir owned by East Carbon City and Sunnyside City, such lands being more accurately described in Appendix 1-15.

<u>2) PENTA CREEK LEASE EXTENSION</u>	352.36	T 14 S, R 14 E
		Section 6: Lots 2, 3, 4 and 5, SENW, SWNE, S2SE

TOTAL FEE LEASES: 734.44 acres

**TABLE 1-4  
LEGAL DESCRIPTION OF PERMIT AREA  
(BY LEASEHOLD)**

<u>PARCEL</u>	<u>ACREAGE</u>	<u>LEGAL DESCRIPTION</u>
<u>1) FEDERAL LEASE SL-068754</u> (SL-068754-U-01215)	2,650.67	T 14 S, R 13 E  Section 10: NE, E2NW, N2SE, SESE  Section 11: All  Section 12: S2SW, NWSW  Section 13: S2, NW, S2NE, NWNE  Section 14: E2, N2NW, SENW  Section 15: NENE  Section 24: N2, N2SE, NESW
<u>2) FEDERAL LEASE UTU-78562</u>	2249.25	T 13 S, R13 E  Section 34: NESE, S2SE  Section 35: All  T 14 S, R 13 E  Section 1: All  Section 12: Lots 1 thru 4, S2N2, NESW, SE  Section 13: NENE  T 14 S, R 14 E  Section 6: Lot 6, NESW  Section 7: Lots 3 and 4  Section 18: Lot 1, E2NW
<u>3) STATE LEASE ML 47711</u>	801.24	T 14 S, R 13 E  Section 2: Lots 1 thru 4, S2N2, S2  T 13 S, R 13 E  Section 36: SW

**TABLE 1-4 (continued)**

<u>4) STATE LEASE ML 49287</u>	881.10	T 14 S, R 13 E	
		Section 3:	Lots 1, 2 and 3, S2N2, S2
		Section 10:	W2NW, SW, SWSE
<u>5) STATE LEASE ML 51744</u>	22.5	T 13 S, R 13 E	
		Section 36:	SWSWNW, SWNWSWNW, SWSESWNW, S2SWSWSE, NWSWSWSE
<u>6) PENTA CREEK FEE LEASE</u>	124.92	T 14 S, R 14 E	
		Section 7*:	SESW, SWNESW
		Section 18:	Lots 2 and 3
<u>7) PENTA CREEK LEASE EXTENSION</u>	20.3	T 14 S, R 14 E	
		Section 6:	S2SWLot 4, W2Lot 5
<u>8) PUMPING STATION</u> (BLM R.O.W. UTU-7712)	0.23	T 14 S, R 13 E	
		Section 21	NESENE (0.23 acres thereof, containing pumping station)
<u>9) TOPSOIL SALVAGE AREA</u> (SITLA special use agreement #1163)	9.6	T 14 S, R 13 E	
		Section 16:	E2NESE (9.6 acres thereof, containing substitute topsoil area)
<u>10) CATCHMENT STRUCTURE</u> (BLM R.O.W. UTU-87110)	0.23	T 14 S, R 13 E	
		Section 15:	SESW (0.23 acres thereof, containing catchment structure)
<u>11) SECURITY GATE</u> (Carbon County authorization)	0.79	T 14 S, R 13 E	
		Section 15:	NWSENE (0.79 acres thereof, containing security gate)
<b><u>TOTAL PERMIT AREA</u></b>	<b><u>6760.83</u></b>		

\*Less and excepting from the portion of the above legal subdivisions in Section 7, those lands under and around Grassy Trail Dam and Reservoir owned by East Carbon City and Sunnyside City, such lands being more accurately described in Appendix 1-15.

**TABLE 1-5  
LEGAL DESCRIPTION OF PERMIT AREA  
(TOTAL AREA)**

T13S, R13E	Section 34	NESE, S2SE
	Section 35	All
	Section 36	SW, SWSWNW, SWNWSWNW, SWSESWNW, S2SWSWSE, NWSWSWSE
T14S, R13E	Section 1	All
	Section 2	All
	Section 3	Lots 1, 2 and 3, S2N2, S2
	Section 10	All
	Section 11	All
	Section 12	All
	Section 13	All
	Section 14	E2, N2NW, SENW
	Section 15	NENE, NWSENE (part thereof, containing security gate) SESW (part thereof, containing catchment structure A)
	Section 16	E2NESE (part thereof, containing substitute topsoil area)
	Section 21	NESENE (part thereof, containing pumping station)
	Section 24	N2, N2SE, NESW
T14S, R14E	Section 6	S2SWLot 4, W2Lot 5, Lot 6, NESW
	Section 7	Lots 3 and 4, SESW, SWNESW
	Section 18	Lots 1, 2 and 3, E2NW

**TOTAL PERMIT AREA = 6760.83 acres.**

**TABLE 1-6  
SURFACE OWNERSHIP OF PERMIT AREA**

T(S)/R(E)	Section	BLM	Penta Creek	Hinkins	Wells	Rauhala	SITLA	Total
13/13	34	-	-	-	120	-	-	120.00
13/13	35	40	-	448.91	151.09	-	-	640.00
13/13	36	-	182.25	-	-	-	-	282.25
			-	-	-	-	-	
14/13	1	283.75	328.68	-	-	39.92	-	652.35
14/13	2	-	641.24	-	-	-	-	641.24
14/13	3	-	-	-	80.66	-	520.44	601.10
14/13	10	360	-	-	-	-	280	640.00
14/13	11	650.87	-	-	-	-	-	650.87
14/13	12	-	648.96	-	-	-	-	648.96
14/13	13	640	-	-	-	-	-	640.00
14/13	14	440	-	-	-	-	-	440.00
14/13	15	41.02	-	-	-	-	-	41.02
14/13	16	-	-	-	-	-	9.6	9.60
14/13	21	0.23	-	-	-	-	-	0.23
14/13	24	440	-	-	-	-	-	440.00
14/14	6	76.41	20.3	-	-	-	-	96.71
14/14	7	74.08	50.00	-	-	-	-	124.08
14/14	18	117.25	74.92	-	-	-	-	192.17
			-	-	-	-	-	
		3163.61	1946.35	448.91	351.75	39.92	810.04	6760.83

**TABLE 1-7  
DISTURBED AREA WITHIN PERMIT AREA**

1) Minesite surface facilities: portions of the following, totaling 29.82 acres (all BLM)

T14S, R13E	Section 10	SESESE NESESE
T14S, R13E	Section 11	SWNESW NWSESW NESWSW NWSWSW SWSWSW SESWSW
T14S, R13E	Section 15	NENENE NWNENE SWNENE SENENE NWSENE

2) Pumphouse: portion thereof of the following, containing 0.23 acres (all BLM)

T14S, R13E	Section 21	NESENE
------------	------------	--------

3) Gob gas vent hole (GVH) installation: portion thereof of the following, containing 0.24 acres (all SITLA)

T14S, R13E	Section 3	NESWSE
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3) Gob gas vent hole (GVH) topsoil pile: portion thereof of the following, containing 0.1 acres (all SITLA)

T14S, R13E	Section 10	SENWNW
------------	------------	--------

4) Catchment Structure: portion thereof, containing 0.12 acres (all BLM)

T 14 S, R 13 E	Section 15:	SESW
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**TOTAL DISTURBED AREA = 30.51 acres**

**R645-301-115 STATUS OF UNSUITABILITY CLAIMS**

115.100 The proposed permit area is not within an area designated as unsuitable for mining. WEST RIDGE Resources, Inc. is not aware of any petitions currently in progress to designate the area as unsuitable for coal mining and reclamation activities.

The area in which the proposed facility will be located has been evaluated within area management plans. It has not been found unsuitable for mining activities under any categories of examination.

115.200 Not applicable.

115.300 WEST RIDGE Resources, Inc. will not be conducting mining operations within 100 feet of an occupied dwelling. WEST RIDGE Resources, Inc. has received permission from Carbon County to construct facilities and operate coal mining activities within 100 feet of a public road. Refer to the letter from Carbon County in Appendix 1-8.

**R645-301-116 PERMIT TERM**

116.100 The anticipated starting and termination dates of the coal mining and reclamation operation are as follows:

	<u>Begin</u>	<u>Complete</u>
Construction of Mining Pad, Mining Support Structures, and Portals	Apr. 1999	Dec. 1999
Begin Mining	Jan. 2000	
Terminate Mining		Dec. 2017*
Remove Facilities	Jan. 2018*	June 2018*
Regrade Area	July 2018*	Sept. 2018*
Revegetate Site	Oct. 2018*	Nov. 2018*

\*This assumes mine life extended through acquisition of adjacent state and federal coal reserves.

116.200 The initial permit application will be for a five year term with successive five year permit renewals.

**R645-301-117            INSURANCE, PROOF OF PUBLICATION AND FACILITIES OR STRUCTURES USED IN COMMON**

117.100            The Certificate of Liability Insurance is included as Attachment 1-1 in Appendix 1-1.

117.200            A copy of the newspaper advertisement of the application for a permit and proof of publication are included as Attachment 1-2 and 1-3 respectively, in Appendix 1-1. A copy of the newspaper advertisement for the Whitmore lease revision is included as Attachment 1-3 in Appendix 1-1.

117.300            Not applicable.

**R645-301-118            FILING FEE**

Verification of filing fee payment is included as Attachment 1-4 in Appendix 1-1.

**R645-301-123            NOTARIZED STATEMENT**

A notarized statement attesting to the accuracy of the information submitted can be referenced as Attachment 1-5 in Appendix 1-1.

**R645-301-130            REPORTING OF TECHNICAL DATA**

Technical reports prepared by consultants specifically for WEST RIDGE Resources, Inc. are typically presented in an appendix format and, in general, provide the name and address of the person or company (consultant) preparing the report, the name of the report, the date of collection and analysis of the data, and descriptions of the methodology used to collect and analyze the data. The body of the report usually will provide the date the actual field work was conducted and a description of the methodology used to collect and analyze the data. The format of each report may vary depending on the contents of the report and organization preparing it.

For laboratory analyses, such as Appendix 7-2 and 7-3, the company performing the analyses as well as the date of the analyses, is presented on the laboratory report rather than the cover page.

A list of consultants and their appended reports is contained in Appendix 1-6, Consultation and Coordination. Sources used in the preparation of the permit application are referenced in Appendix 1-3. References in all chapters are keyed to this main reference list.

Mining and exploration activities had been conducted in the currently proposed disturbed area prior to August 3, 1977. A road existed into C Canyon in 1952 when drill hole B-6 was drilled in the right fork. A road was also constructed up the left fork of C Canyon to a drill hole site during the same year. In addition to the drill holes, the coal outcrop in the left fork of C Canyon was exposed for sampling purposes. A small pad was built at the outcrop location and it was left in place as were the roads.

In 1986, another drill hole, 86-2, was drilled west of the first drill hole in the right fork. A minor amount of road work was done in conjunction with this second drill hole. Kaiser Coal Company obtained permission from the BLM to grade the existing road and make it passable for the drill rig. The drill hole site was reclaimed but the road, a public road, was left in place.

Through use of aerial photography and site evaluations, it is possible to document previous mining related disturbances in C Canyon. Refer to Map 5-1 for delineation of the disturbance prior to August 3, 1977.

The total of all the previously disturbed areas within the minesite disturbed area is estimated to be as follows:

roads in right and left forks	=	1.27 acres
road culvert	=	.05 acres
water monitoring well	=	.05 acres
material storage pad	=	.05 acres
		1.62 acres

WEST RIDGE Resources, Inc. is proposing to utilize the entire previously disturbed area in their current proposal and to reclaim it upon cessation of mining operations.

In the 1950's a road was constructed in the Right Fork of Bear Canyon to access an exploratory drillhole site. This road now provides access to the site of the Bear Canyon GVH installation. (Refer to Appendix 5-14 for a detailed description of the Bear Canyon GVH facility)

**PENTA CREEK FEE LEASE EXTENSION  
APPENDIX 1-4G**

**NOTE TO REVIEWERS:**

**ADD THIS RIGHT-OF-ENTRY INFORMATION AS  
APPENDIX 1-4G**

APPENDIX 1-4G

LEASE ASSIGNMENT

PENTA CREEK FEE LEASE EXTENSION

EXHIBIT B

**MEMORANDUM OF UNDERGROUND COAL LEASE**

THIS MEMORANDUM OF COAL LEASE made and entered into effective as of the 1st day of January, 2003, among PENTA CREEKS, L.L.C. (a.k.a. Penta Creek LLC), a Utah limited liability company and MAGNIFICENT SEVEN, L.L.C., a Utah limited liability company, collectively referred to as "Lessors," having a single address for purposes of this Lease of Howard Jensen Real Estate, 111 East Clark Street, Albert Lea, Minnesota 56007; and ANDALEX RESOURCES, INC., a Delaware corporation, with an address at P.O. Box 910, East Carbon, Utah 84520, and INTERMOUNTAIN POWER AGENCY, a political subdivision of the State of Utah, with an address at 480 East 6400 South, Murray, Utah 84107, each having an undivided 50% ownership interest in the leasehold estate created by this Lease as tenants in common and collectively referred to herein as "Lessee," having a single address do ANDALEX Resources, Inc., P.O. Box 910, East Carbon, Utah 84520.

**WITNESSETH:**

The parties hereto agree:

**1** Upon the terms and conditions set forth in that certain Underground Coal Lease (hereinafter "Lease"), effective of even date herewith, all of which are hereby incorporated herein as if set forth in full, Lessors do hereby grant and lease unto Lessee for the purposes described in paragraph 2 of this Memorandum of Underground Coal Lease and in the Lease, all of the coal and any substance (whether solid, liquid or gaseous) mixed with or encountered when mining coal (all hereinafter referred to collectively as "coal") in and underlying those certain lands situated in Carbon County, State of Utah, more particularly described as follows, to-wit:

**Township 14 South, Range 14 East, SLB&M**

Section 6: Lots 2, 3, 4 and 5, SE1/4NW1/4, SW1/4NE1/4, NW1/4SE1/4,  
S1/2SE1/4.

Comprising 352.36 acres, more or less.

**2.** The Underground Coal Lease grants to Lessee the exclusive right and privilege to explore for, mine (by any lawful underground mining method), remove extract, store, prepare, ship and dispose of the coal and gas occurring in coal seams, beds or deposits when vented as a non-commercial substance in conjunction with coal development or extraction operations together with limited rights of access for environmental monitoring purposes. The leasing, exploration for, or development of other minerals or substances other than coal and substances mixed with coal shall not interfere in any way with the coal mining operations of the Lessee during the term of this Lease. Leases related to other minerals issued by Lessors after the date of this Lease shall be specifically made subject to the priority of the coal mining operations.

Section 6: Lots 2, 3, 4 and 5, SE1/4NW1/4, SW1/4NE1/4, NW1/4SE1/4, S1/2SE1/4.

Comprising 352.36 acres, more or less

The parties agree that all other provisions of the LEASE shall remain in full force and effect.

**IN WITNESS WHEREOF**, with the intent to be legally bound hereby, the parties hereto have caused this Amendment to be executed as of the date and year first above written.

LESSORS:  
PENTA CREEKS, L.L.C.

By: [Signature]

Its: [Signature]

MAGNIFICENT SEVEN, L.L.C.

By: [Signature]

Its: [Signature]

LESSEES:  
ANDALEX RESOURCES, INC.

By: [Signature]

Its: Treasurer

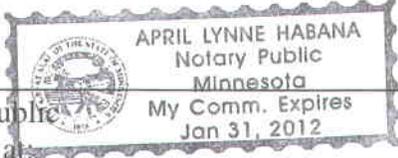
INTERMOUNTAIN POWER AGENCY

By: [Signature]

Its: [Signature]

STATE OF Minnesota )  
 )  
COUNTY OF Freeborn ) : ss.

On the 24 day of Aug, 2010, personally appeared before me Greg Jewson, the manager of Penta Creeks, L.L.C., a Utah limited liability company, who signed the foregoing instrument on behalf of Penta Creeks, L.L.C. and acknowledged to me that he executed the same.

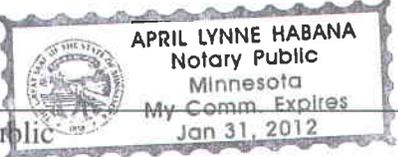


Notary Public \_\_\_\_\_  
Residing at: \_\_\_\_\_

My commission expires:  
1-31-2012

STATE OF Minnesota )  
 )  
COUNTY OF Freeborn ) : ss.

On the 24 day of Aug, 2010, personally appeared before me Greg Jewson, the manager of Magnificent Seven, L.L.C., a Utah limited liability company, who signed the foregoing instrument on behalf of Magnificent Seven, L.L.C. and acknowledged to me that he executed the same.



Notary Public \_\_\_\_\_  
Residing at: \_\_\_\_\_

My commission expires:  
1-31-2012

STATE OF Ohio )  
COUNTY OF Belmont ) : ss.

On the 26<sup>th</sup> day of August, 2010, personally appeared before me Robert D. Moore, the Treasurer of ANDALEX Resources, Inc., who signed the foregoing instrument on behalf of ANDALEX Resources, Inc. and acknowledged to me that he executed the same.



PENNY J. ELLIOTT  
Notary Public  
State of Ohio  
My Commission Expires Feb. 11, 2013

Penny Elliott  
Notary Public  
Residing at: 5654 Pleasant Ridge Rd  
Alledonia, Ohio 43902

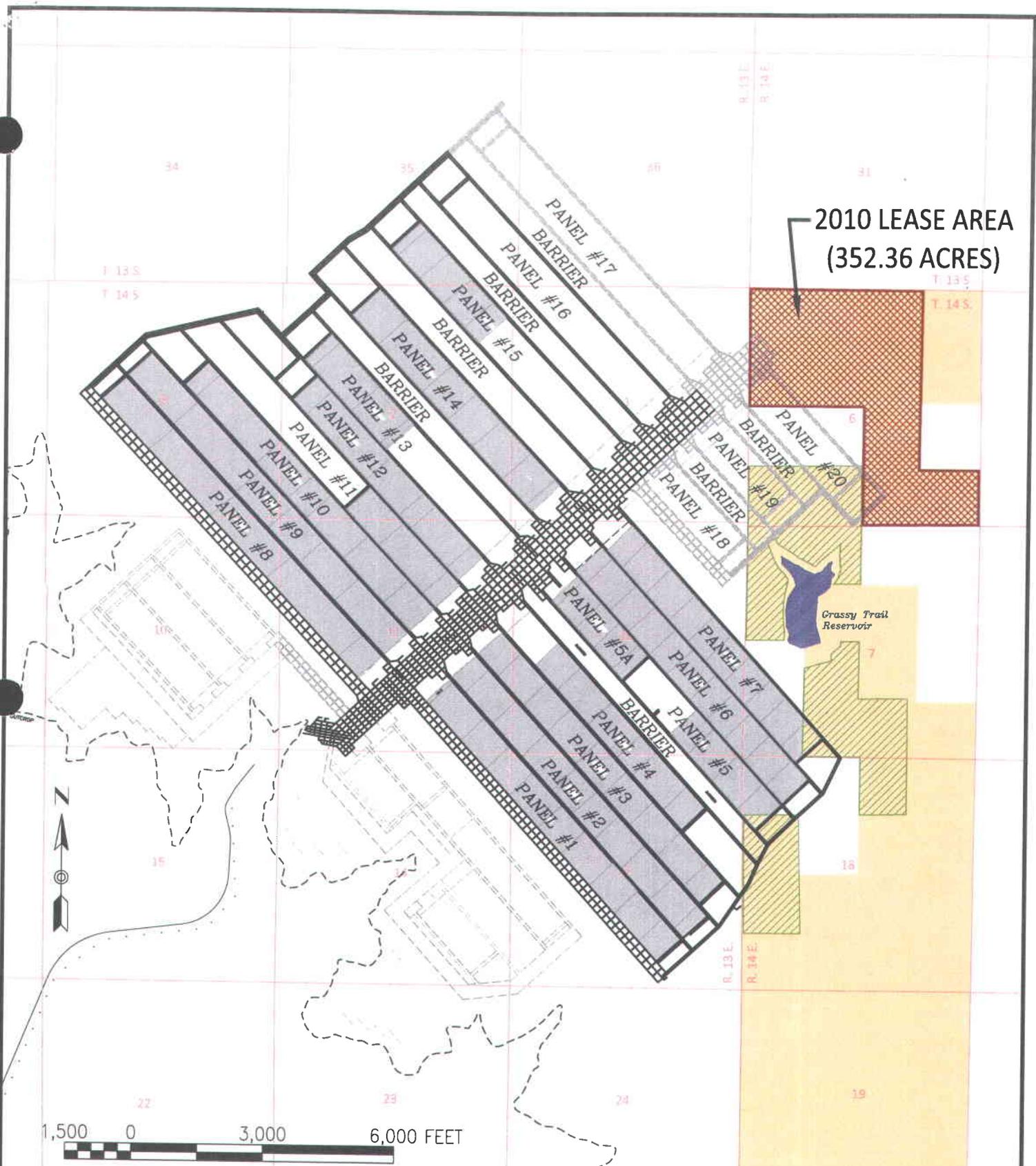
STATE OF Utah )  
COUNTY OF Salt Lake ) : ss.

On the 30 day of August, 2010, personally appeared before me James A. Hewlett, the General Manager of Intermountain Power Agency, who signed the foregoing instrument on behalf of Intermountain Power Agency and acknowledged to me that he executed the same.



My commission expires:  
9-1-2011

Krista R Paull  
Notary Public  
Residing at: 5161 S. 1130 W.  
Taylorsville UT 84123



2010 LEASE AREA  
(352.36 ACRES)

Crassy Trail Reservoir



**EXHIBIT A  
PENTA CREEK  
2010 LEASE**

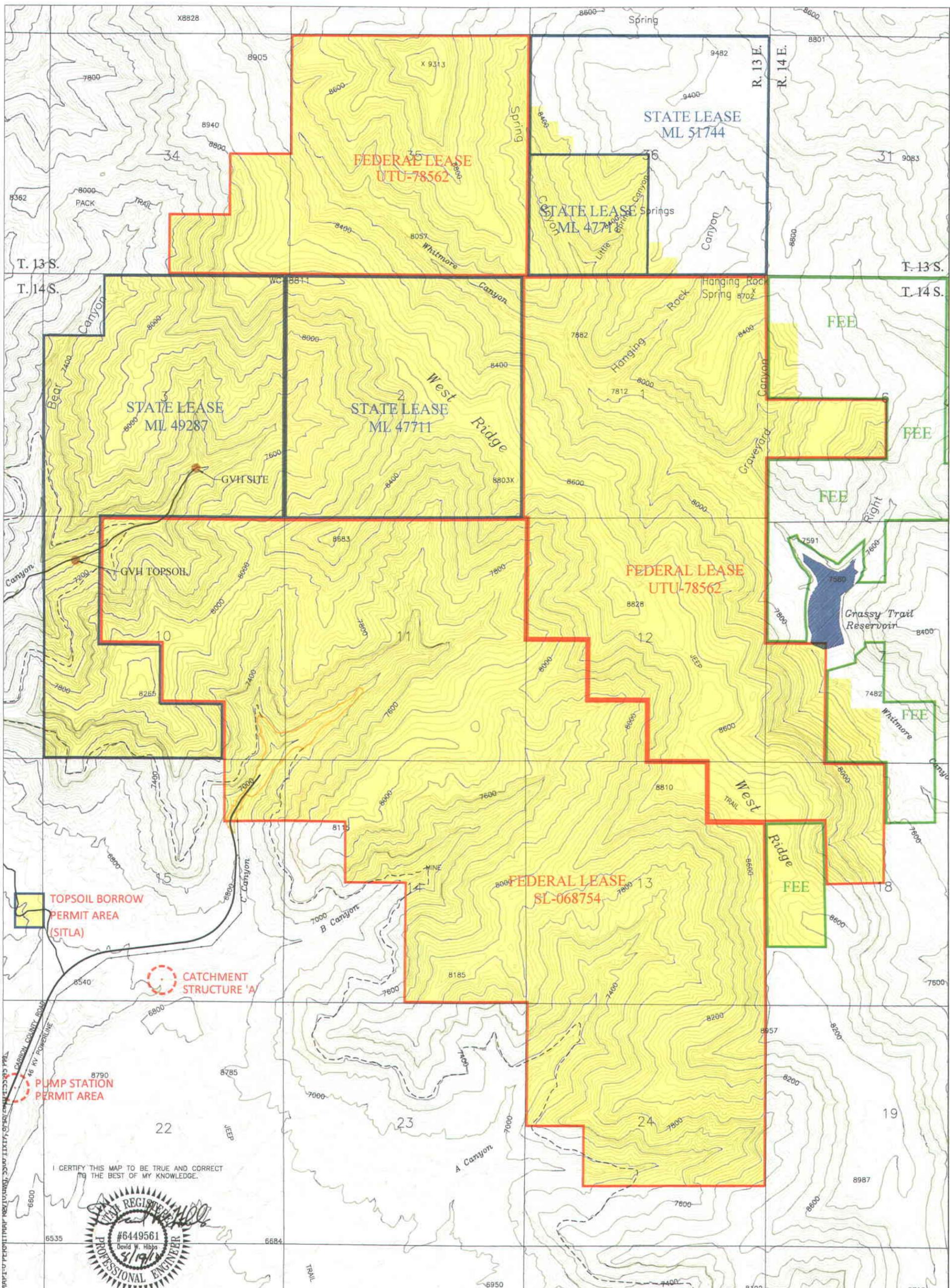
**WEST RIDGE  
RESOURCES INC.**  
794 NORTH "C" CANYON ROAD  
EAST CARBON, UTAH 84520

DRAWN BY: PJ SCALE: 1" = 3000'  
APPROVED BY: DH DATE: 19 AUGUST 2010

**LEGEND:**

PENTA CREEK / MAGNIFICENT SEVEN	
COAL OUTCROP	
2003 LEASE	
2010 LEASE	

# REPLACEMENT MAPS



TOPSOIL BORROW PERMIT AREA (SITLA)

CATCHMENT STRUCTURE 'A'

PUMP STATION PERMIT AREA

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



Existing Permit Area (6760.83 acres) RECEIVED

OCT 06 2010

# WEST RIDGE MINE

## Map 1-0

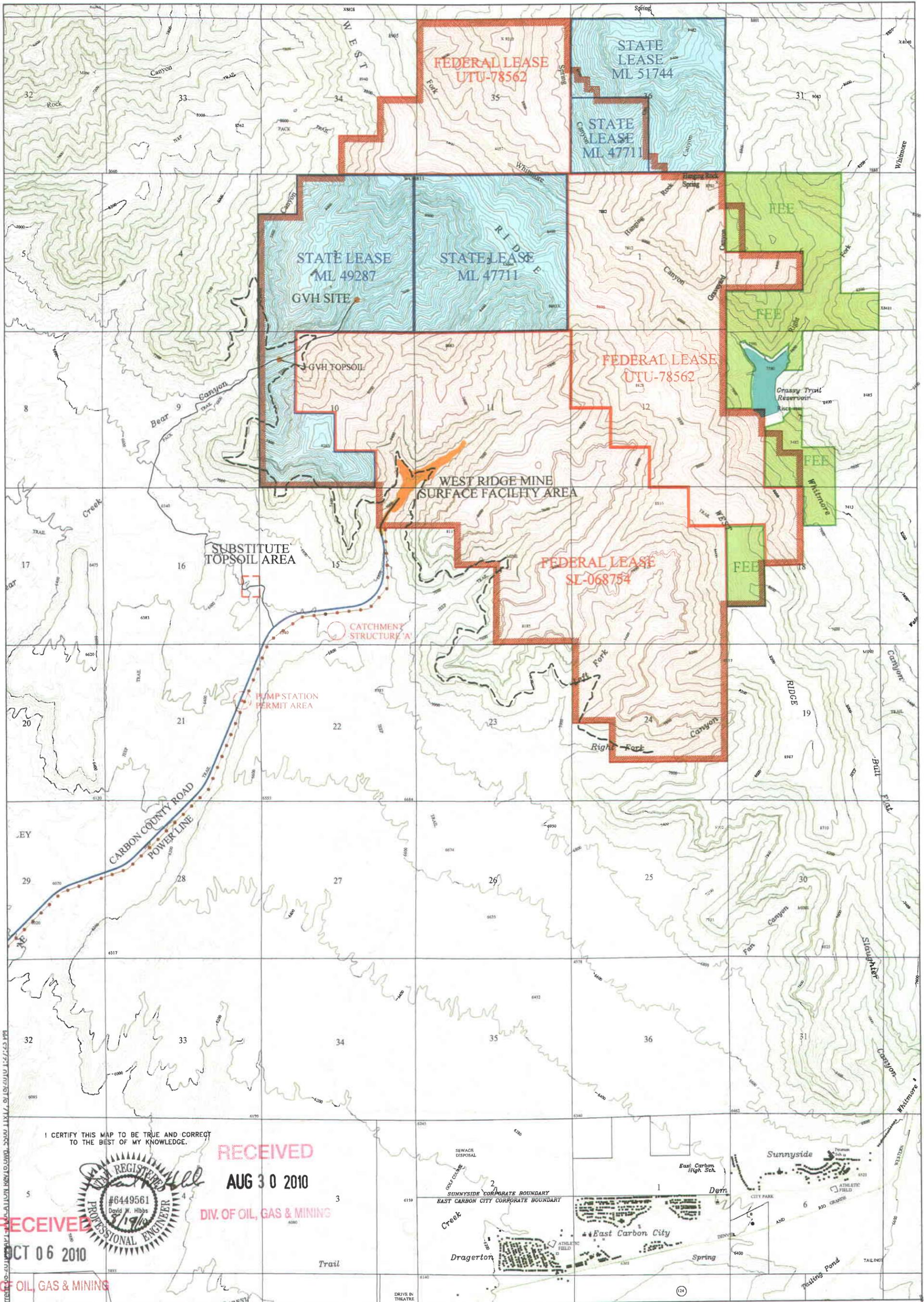
### Permit Map

- LEGEND:**
- Federal Lease
  - State Lease
  - Penta Creek Fee
  - Surface Facility Area
  - GVH Site
  - Outcrop

DIV. OF OIL, GAS & MINING  
**RECEIVED**  
 AUG 30 2010  
 DIV. OF OIL, GAS & MINING

**WEST RIDGE**  
RESOURCES, INC.

SCALE: 1"=2000'

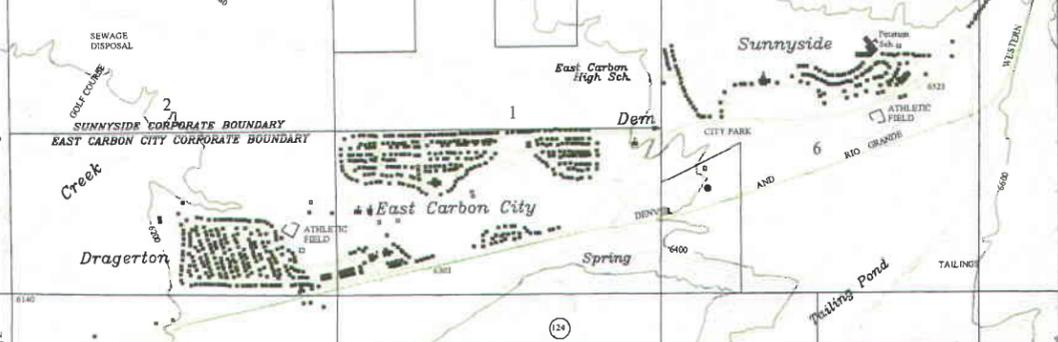


I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



**RECEIVED**  
**AUG 30 2010**  
 DIV. OF OIL, GAS & MINING

**RECEIVED**  
 OCT 06 2010  
 DIV. OF OIL, GAS & MINING

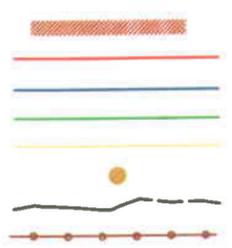


# WEST RIDGE MINE

## Map 1-1

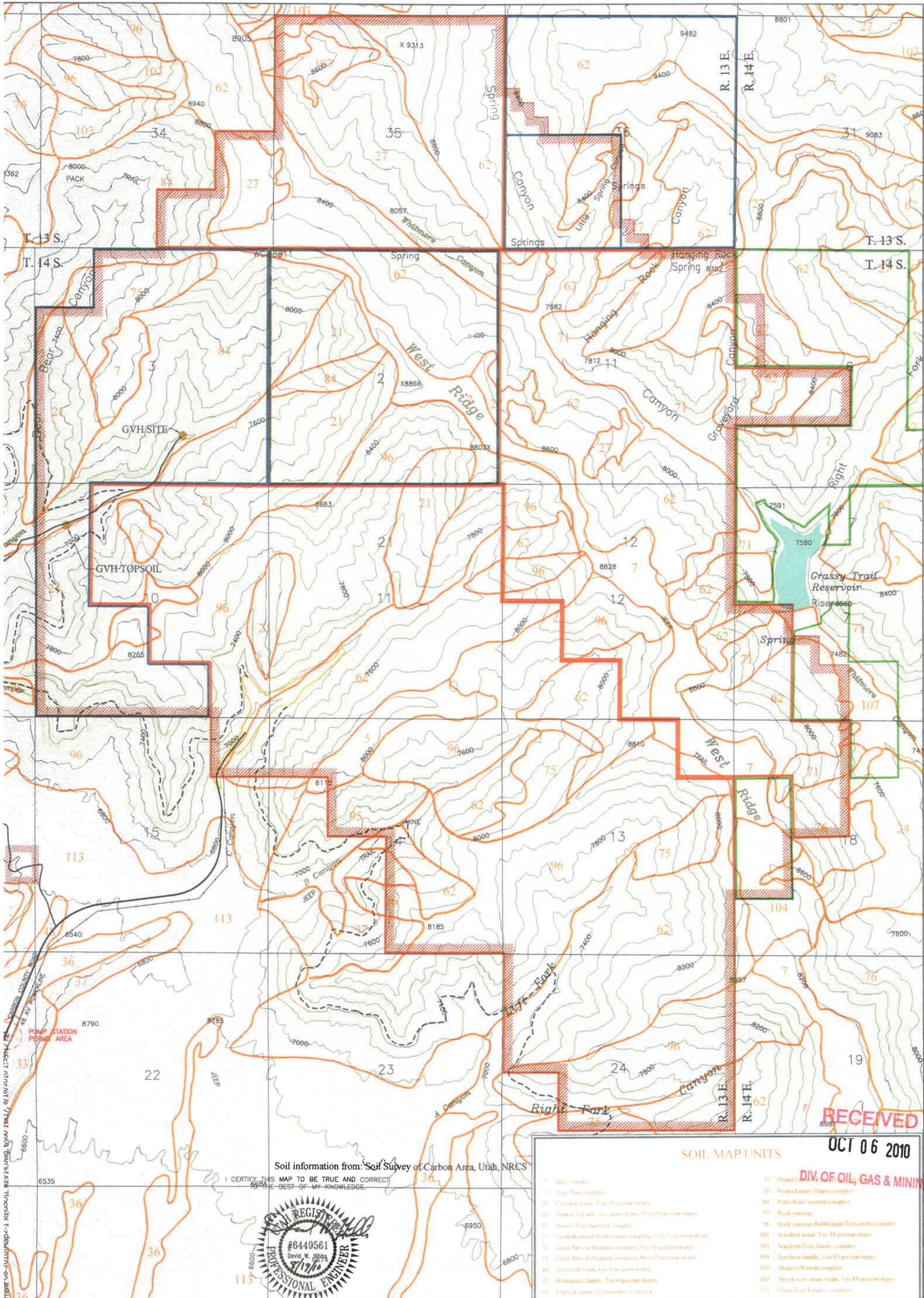
### Location & Lease Map

- LEGEND:**
- Permit Boundary
  - Federal Lease
  - State Lease
  - Penta Creek Fee
  - Surface Facility Area
  - GVH Site
  - Outcrop
  - Power Line



**WEST RIDGE**  
 RESOURCES, INC.

SCALE: 1" = 3000'



WEST RIDGE MINE  
Map 2-1  
Regional Soil Map

DATE: 8-19-10 REV: 14 ACAD REF: MAP2-1 REGSOIL REV14

Soil information from: Soil Survey of Carbon Area, Utah, NRCS  
I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



**LEGEND:**

	Permit Boundary
	Federal Lease
	State Lease
	Penta Creek Fee
	Surface Facility Area
	GVH Site
	Soil Mapping Boundary
	Soil Map Number

**SOIL MAP UNITS**

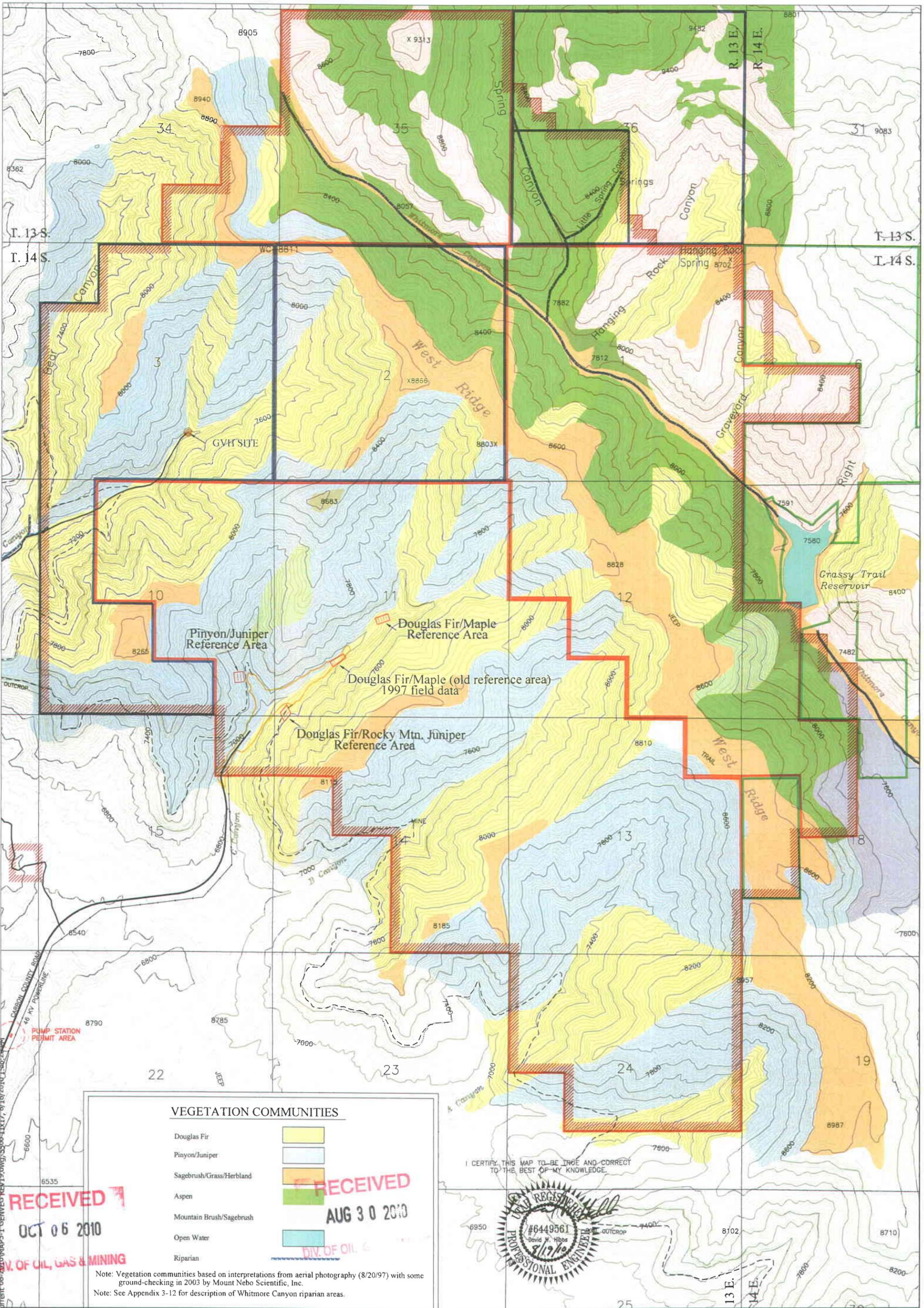
8	Bege complex	11	Perna complex
1	Bipe-Tra complex	15	Perna family-Uhmo complex
2	Croston loam, 8 to 30 percent slopes	16	Pena family-Uhmo complex
3	Dunes-Vintana-ces stony loam, 50 to 80 percent slopes	17	Pada-Buck intersp complex
4	Dunes-Vintana-ces stony loam, 50 to 80 percent slopes	18	Rock outcrop
5	Dunes-Vintana-ces stony loam, 50 to 80 percent slopes	19	Rock outcrop-Bubbland-Trovanilla complex
6	Dunes-Vintana-ces stony loam, 50 to 80 percent slopes	20	Seichest loam, 2 to 15 percent slopes
7	Dunes-Vintana-ces stony loam, 50 to 80 percent slopes	21	Seichest loam, 2 to 15 percent slopes
9	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	22	Seichest loam, 2 to 15 percent slopes
10	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	23	Seichest loam, 2 to 15 percent slopes
12	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	24	Seichest loam, 2 to 15 percent slopes
13	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	25	Seichest loam, 2 to 15 percent slopes
14	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	26	Seichest loam, 2 to 15 percent slopes
15	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	27	Seichest loam, 2 to 15 percent slopes
16	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	28	Seichest loam, 2 to 15 percent slopes
17	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	29	Seichest loam, 2 to 15 percent slopes
18	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	30	Seichest loam, 2 to 15 percent slopes
19	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	31	Seichest loam, 2 to 15 percent slopes
20	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	32	Seichest loam, 2 to 15 percent slopes
21	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	33	Seichest loam, 2 to 15 percent slopes
22	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	34	Seichest loam, 2 to 15 percent slopes
23	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	35	Seichest loam, 2 to 15 percent slopes
24	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	36	Seichest loam, 2 to 15 percent slopes
25	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	37	Seichest loam, 2 to 15 percent slopes
26	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	38	Seichest loam, 2 to 15 percent slopes
27	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	39	Seichest loam, 2 to 15 percent slopes
28	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	40	Seichest loam, 2 to 15 percent slopes
29	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	41	Seichest loam, 2 to 15 percent slopes
30	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	42	Seichest loam, 2 to 15 percent slopes
31	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	43	Seichest loam, 2 to 15 percent slopes
32	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	44	Seichest loam, 2 to 15 percent slopes
33	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	45	Seichest loam, 2 to 15 percent slopes
34	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	46	Seichest loam, 2 to 15 percent slopes
35	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	47	Seichest loam, 2 to 15 percent slopes
36	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	48	Seichest loam, 2 to 15 percent slopes
37	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	49	Seichest loam, 2 to 15 percent slopes
38	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	50	Seichest loam, 2 to 15 percent slopes
39	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	51	Seichest loam, 2 to 15 percent slopes
40	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	52	Seichest loam, 2 to 15 percent slopes
41	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	53	Seichest loam, 2 to 15 percent slopes
42	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	54	Seichest loam, 2 to 15 percent slopes
43	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	55	Seichest loam, 2 to 15 percent slopes
44	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	56	Seichest loam, 2 to 15 percent slopes
45	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	57	Seichest loam, 2 to 15 percent slopes
46	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	58	Seichest loam, 2 to 15 percent slopes
47	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	59	Seichest loam, 2 to 15 percent slopes
48	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	60	Seichest loam, 2 to 15 percent slopes
49	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	61	Seichest loam, 2 to 15 percent slopes
50	Gerst-Badland-Bubbland complex, 15 to 50 percent slopes	62	Seichest loam, 2 to 15 percent slopes

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SCALE: 1"=2000'

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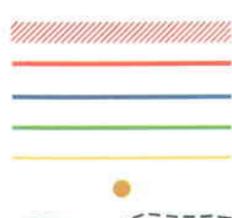


# WEST RIDGE MINE

## Map 3-1

### General Vegetation Communities

- LEGEND:**
- Permit Boundary
  - Federal Lease
  - State Lease
  - Penta Creek Fee
  - Surface Facility Area
  - GVH Site
  - Outcrop



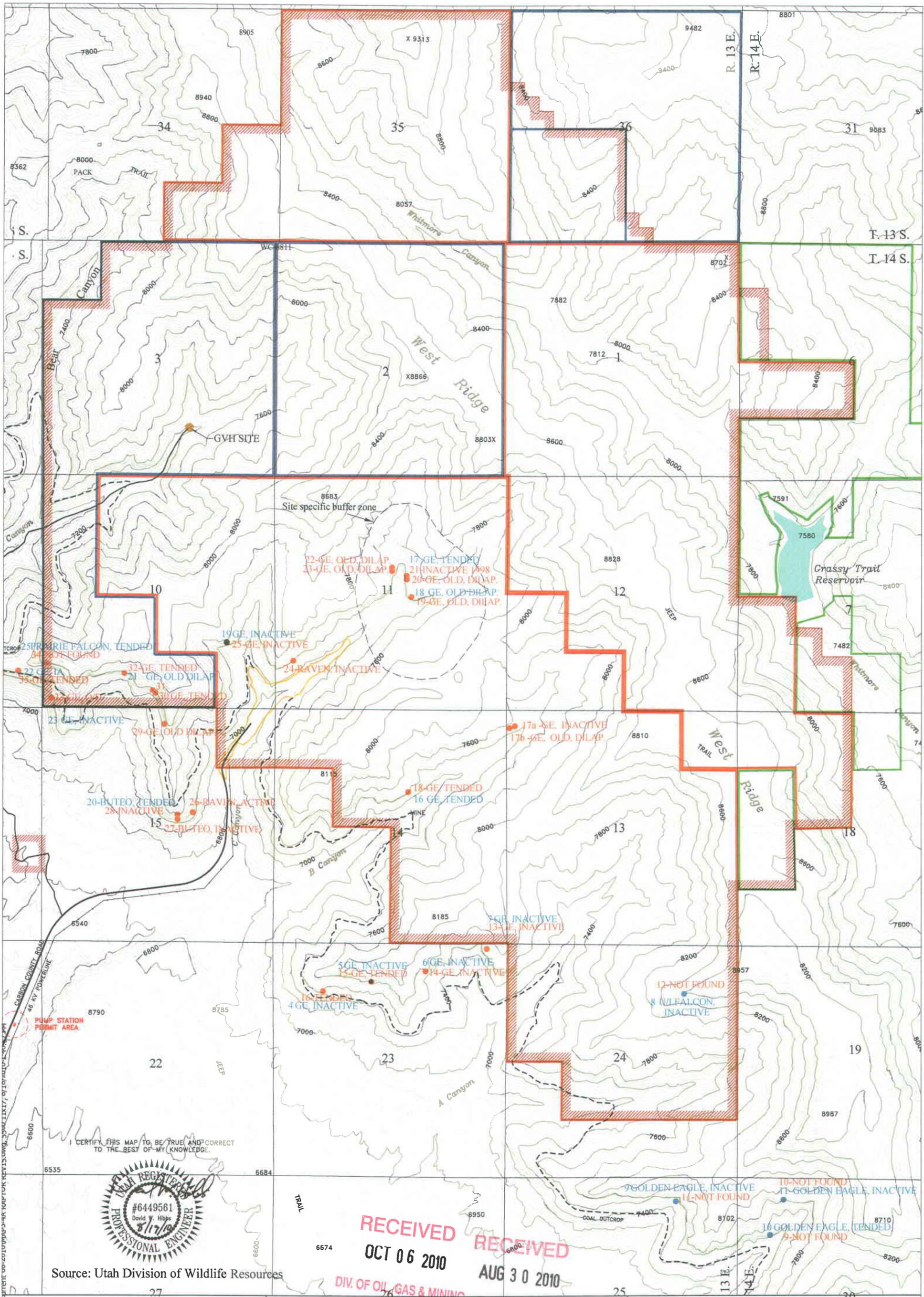
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**DAVID W. HIBBS**  
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 PROFESSIONAL ENGINEER



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Source: Utah Division of Wildlife Resources

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# WEST RIDGE MINE

## Map 3-4A

### Wildlife Map - Raptor Survey

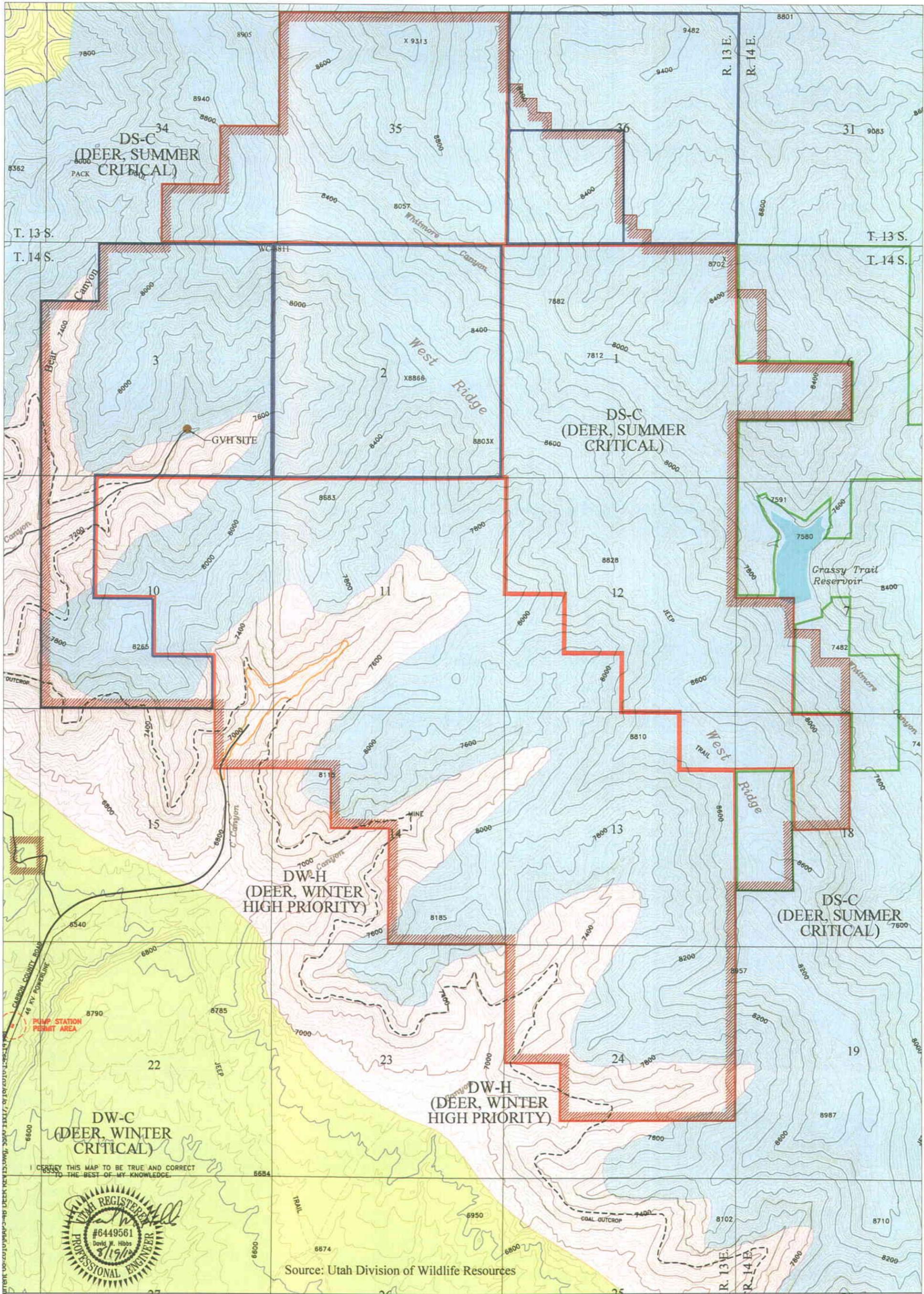
ATE: 8-19-10 REV: 15 ACAD REF: MAP3-4A RAPTOR REV15

**LEGEND:**

Permit Boundary	
Federal Lease	
State Lease	
Penta Creek Fee	
Surface Facility Area	
GVH Site	
Outcrop	
Raptor Nest - 1997 Survey	
Raptor Nest - 1998 Survey	

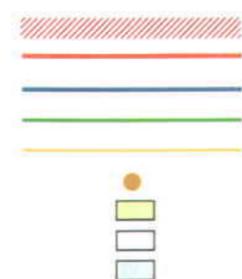


SCALE: 1"=2000'



Source: Utah Division of Wildlife Resources

- LEGEND:**
- Permit Boundary
  - Federal Lease
  - State Lease
  - Penta Creek Fee
  - Surface Facility Area
  - GVH Site
  - DW-C
  - DW-H
  - DS-C



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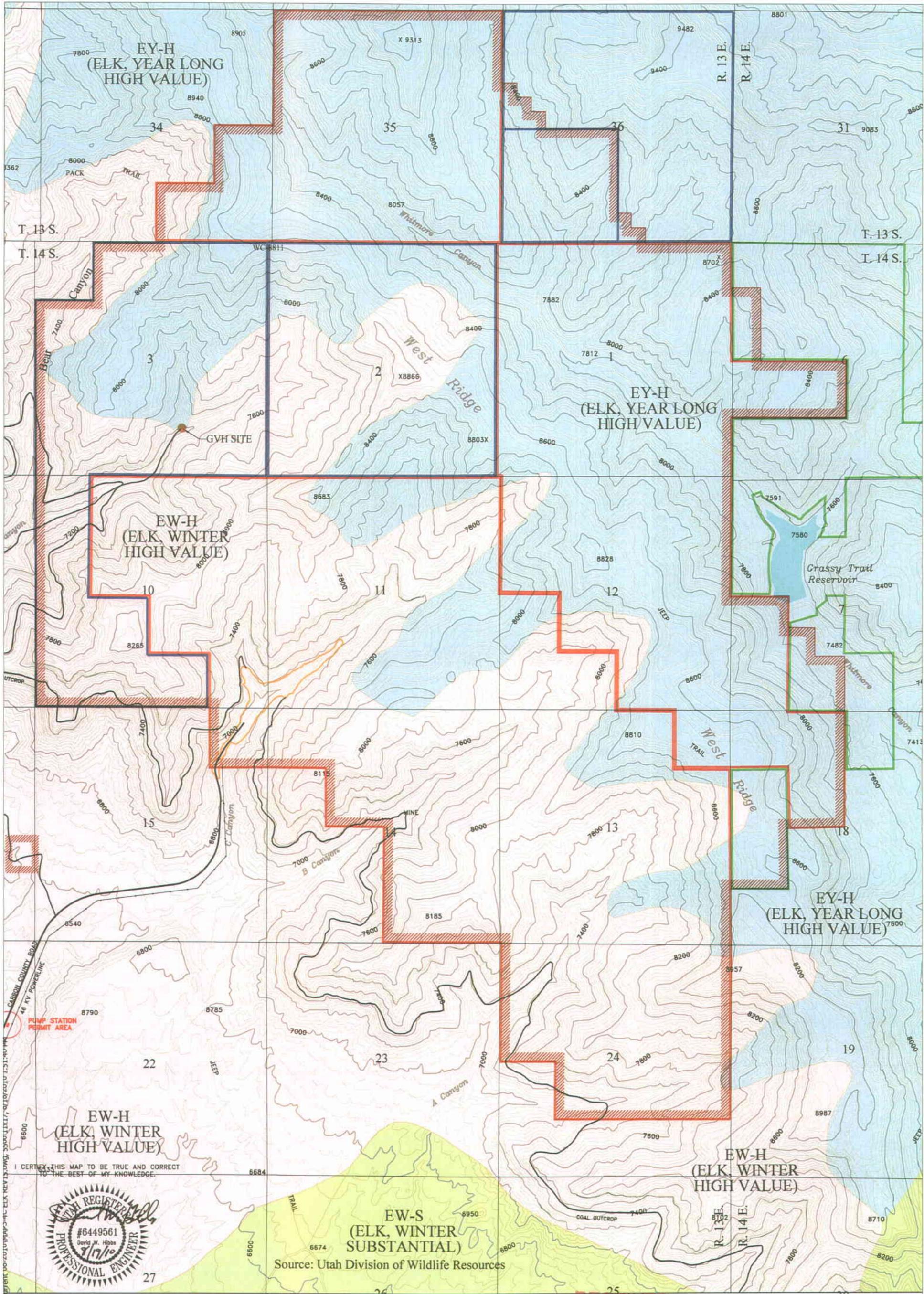
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**WEST RIDGE MINE**  
Map 3-4B  
**Wildlife Map - Deer Range**



Source: Utah Division of Wildlife Resources



**WEST RIDGE MINE**  
 Map 3-4C  
**Wildlife Map - Elk Range**

- Permit Boundary
- Federal Lease
- State Lease
- Penta Creek Fee
- Surface Facility Area
- GVH Site
- EW-S
- EY-H
- EW-H

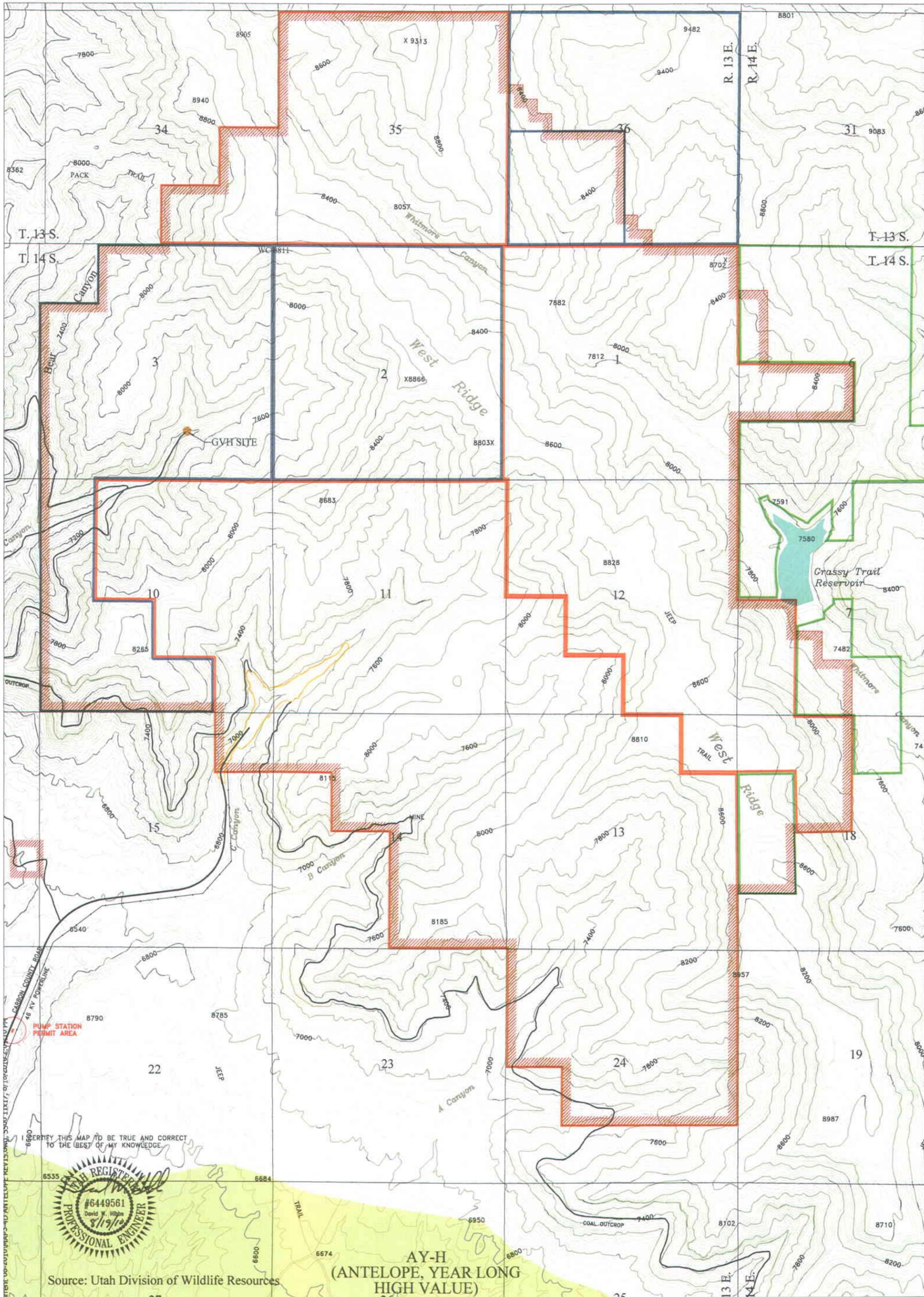
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 8/19/10  
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Source: Utah Division of Wildlife Resources

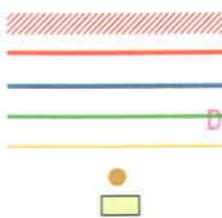
AY-H  
 (ANTELOPE, YEAR LONG HIGH VALUE)

# WEST RIDGE MINE

Map 3-4D

## Wildlife Map - Antelope Range

**LEGEND:**  
 Permit Boundary  
 Federal Lease  
 State Lease  
 Penta Creek Fee  
 Surface Facility Area  
 GVH Site  
 AY-H



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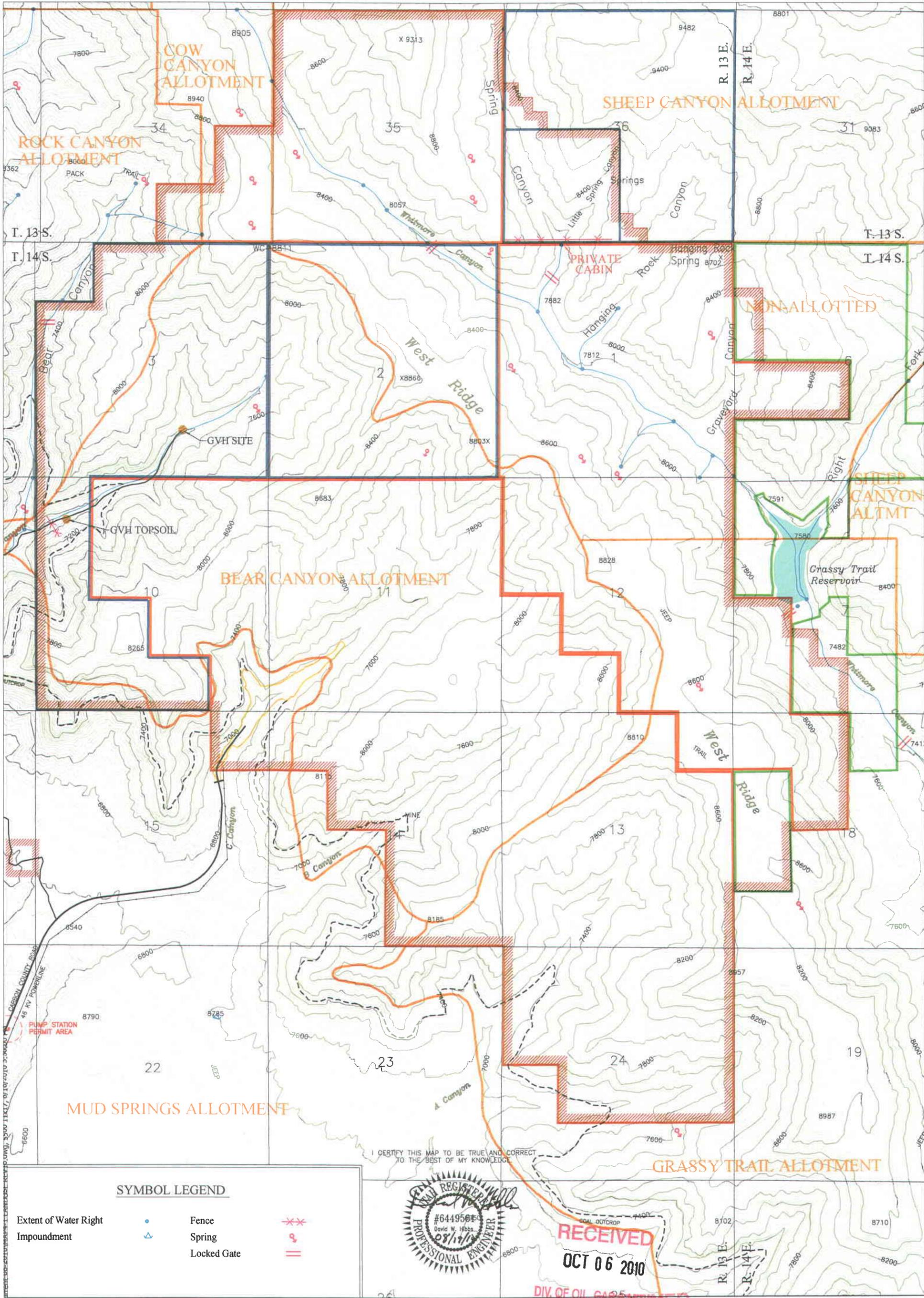
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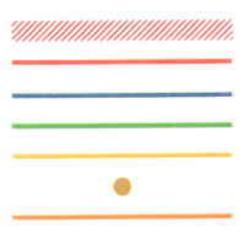
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**SYMBOL LEGEND**

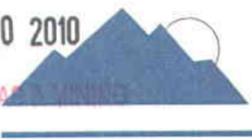
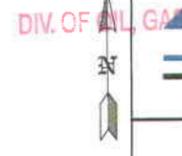
- |                       |   |             |     |
|-----------------------|---|-------------|-----|
| Extent of Water Right | ● | Fence       | *** |
| Impoundment           | ▲ | Spring      | ⊙   |
|                       |   | Locked Gate | ==  |

**WEST RIDGE MINE**  
Map 4-1  
Existing Land Use

- LEGEND:**
- Permit Boundary
  - Federal Lease
  - State Lease
  - Penta Creek Fee
  - Surface Facility Area
  - GVH Site
  - Grazing Allotment Boundary

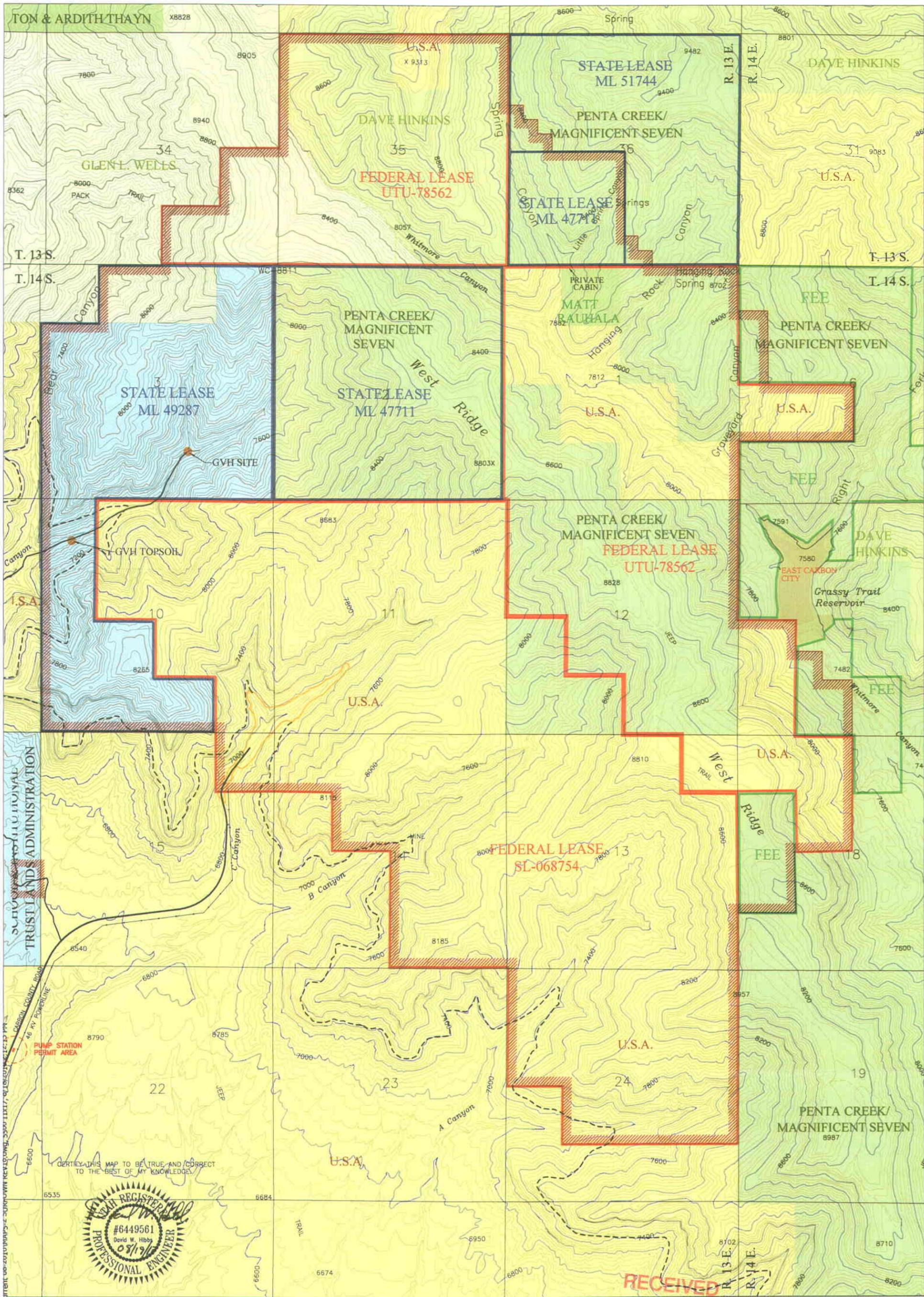


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SCALE: 1"=2000'



# WEST RIDGE MINE

## Map 5-2

### Surface Ownership Map

**LEGEND:**

- Permit Boundary
- Federal Lease
- State Lease
- Penta Creek Fee
- Surface Facility Area
- GVH Site
- Outcrop
- School Trust Land (SITLA)
- Penta Creek/Magnificent Seven
- U.S.A. (BLM)
- Dave Hinkins
- Glen L. Wells
- Matt Rauhala
- Milton & Ardith Thayn
- East Carbon City

OCT 06 2010

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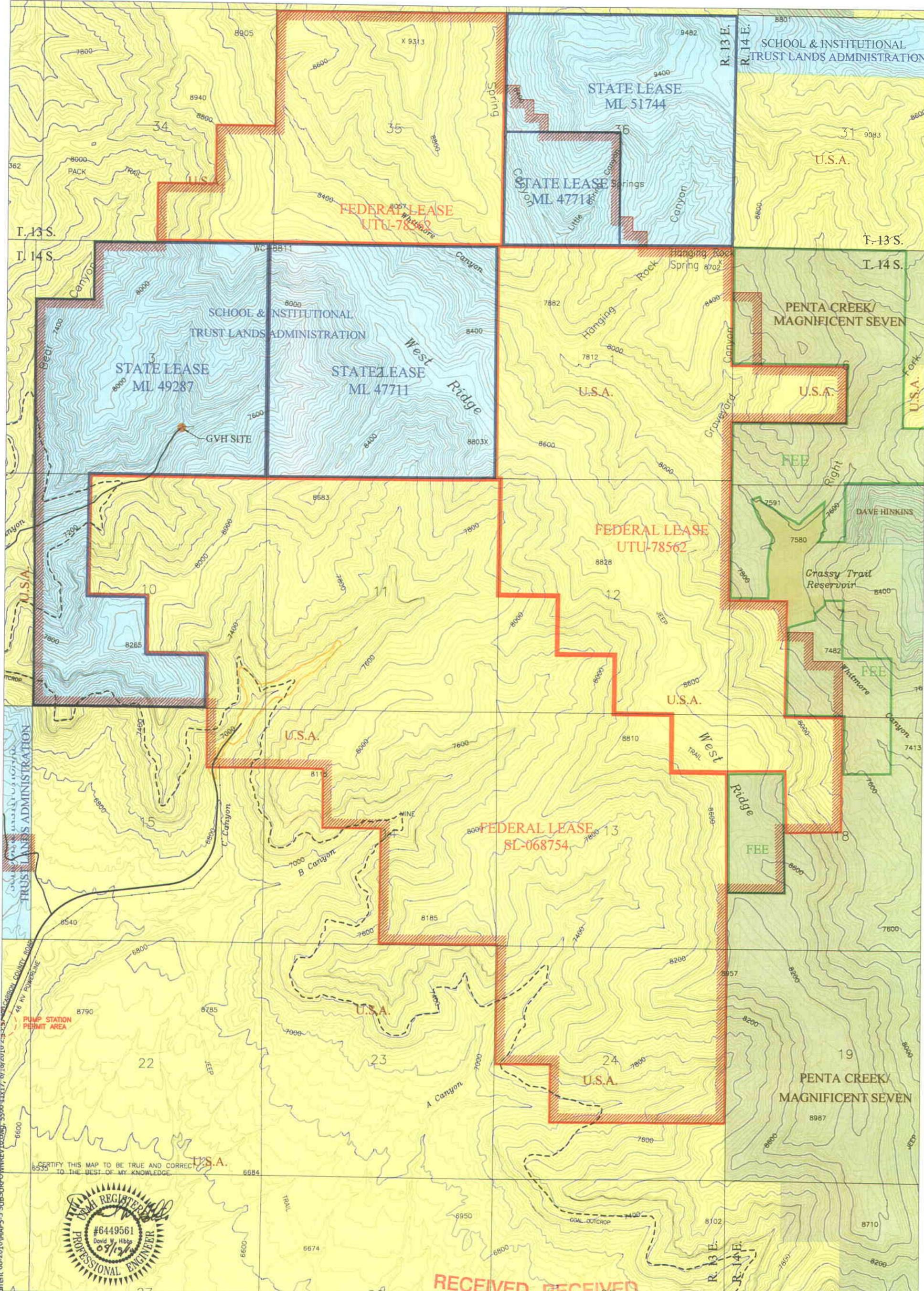
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# WEST RIDGE MINE

## Map 5-3

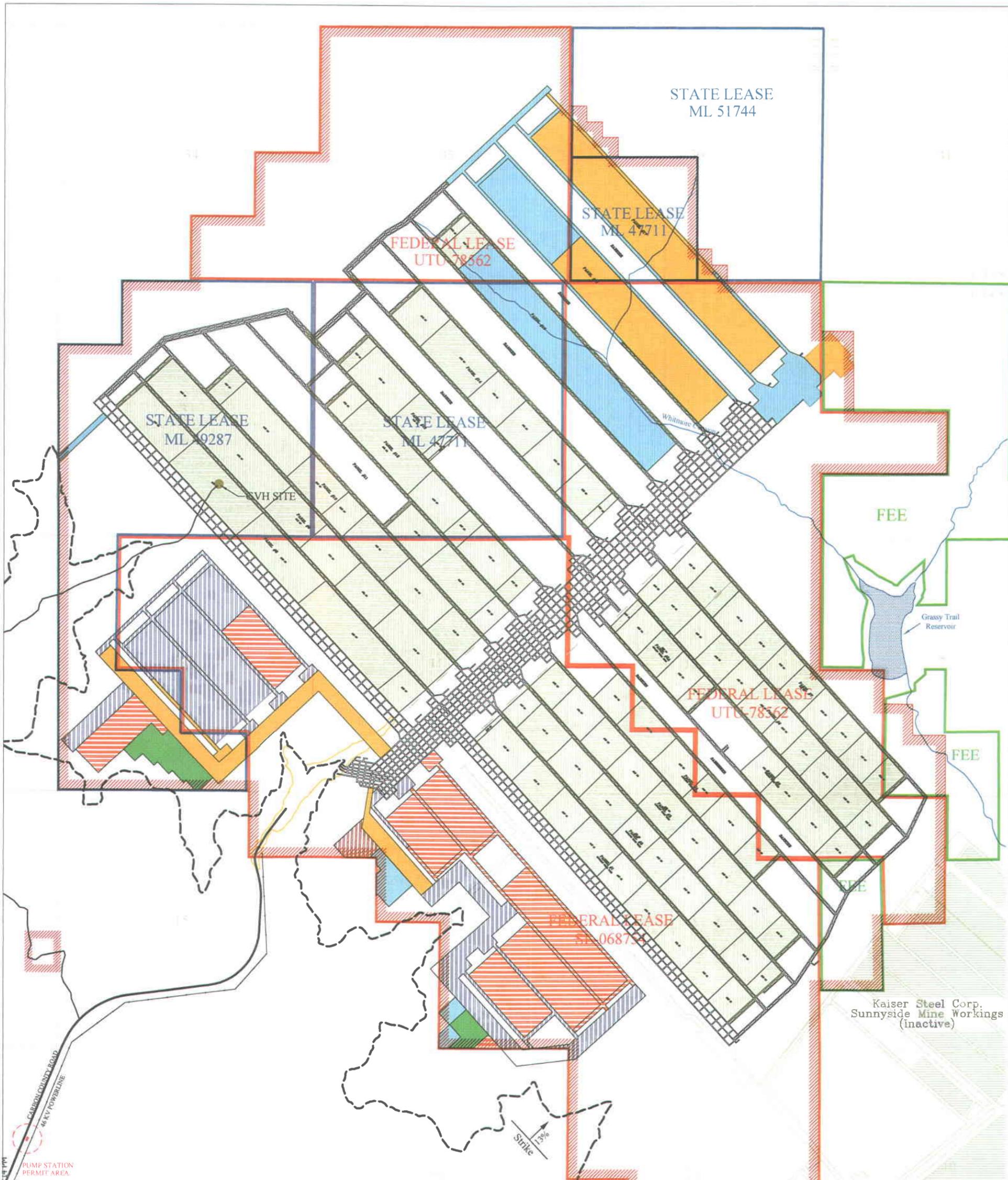
### Sub-surface Ownership Map

**LEGEND:**

	Permit Boundary		School Trust Lands (SITLA)
	Federal Lease		Penta Creek/Magnificent Seven
	State Lease		U.S.A. (BLM)
	Penta Creek Fee		Dave Hinkins
	Surface Facility Area		East Carbon City
	GVH Site		Outcrop

**WEST RIDGE RESOURCES, INC.**

SCALE: 1"=2000'



**YEAR KEY:**

2010	[Blue hatched]
2011	[Orange hatched]
2012	[Blue vertical lines]
2013	[Red horizontal lines]
2014	[Green hatched]
2015	[Light blue hatched]
2016	[Red vertical lines]
Mined Area	[Green solid]

**NOTE:**  
 Mine projections are subject to change depending on conditions encountered in the underground mine workings. Actual mine works are shown as of January 1, 2010. Mine projections depicted in the fringe areas beyond the existing permit area are speculative and based on future reserve acquisitions. No mining will be conducted in these areas unless those reserves are acquired in the future and permitted according to federal, state, and local permitting requirements. West Ridge Resources acknowledges that permission to mine within the permit boundary does not imply permission to mine beyond the permit boundary.

Kaiser Steel Corp.  
 Sunnyside Mine Workings  
 (Inactive)

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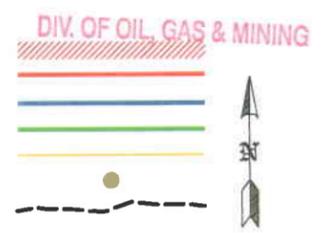
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UNIVERSITY REGISTERED PROFESSIONAL ENGINEER  
 #6449561  
 David W. Hobb  
 08/17/10

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**WEST RIDGE MINE**  
**Map 5-4A**  
**Mining Projections**

- LEGEND:**
- Permit Boundary
  - Federal Lease
  - State Lease
  - Penta Creek Fee
  - Surface Facility Area
  - GVH Site
  - Outcrop



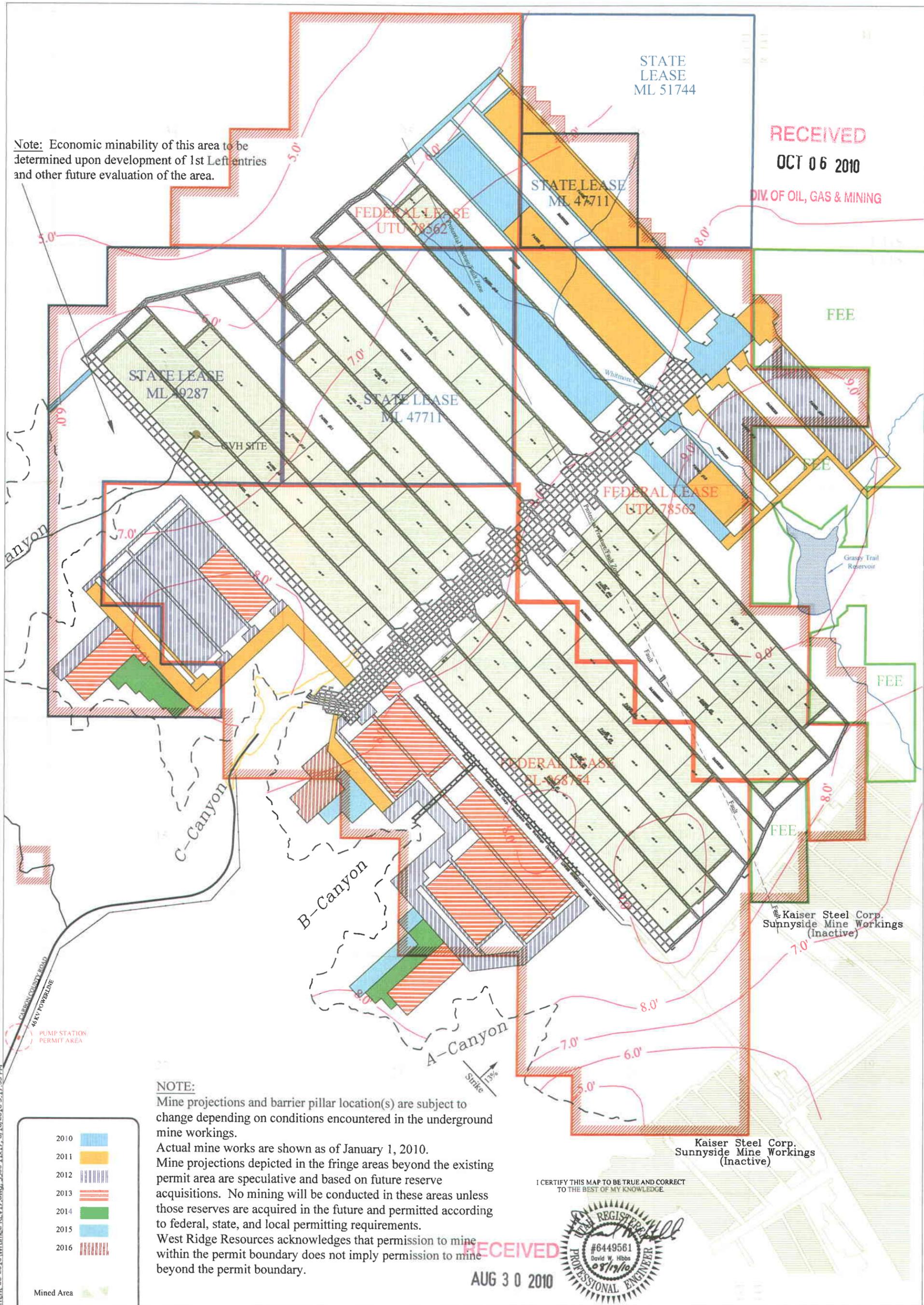
**WEST RIDGE**  
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SCALE: 1"=2000'

Note: Economic minability of this area to be determined upon development of 1st Left entries and other future evaluation of the area.

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**NOTE:**

Mine projections and barrier pillar location(s) are subject to change depending on conditions encountered in the underground mine workings. Actual mine works are shown as of January 1, 2010. Mine projections depicted in the fringe areas beyond the existing permit area are speculative and based on future reserve acquisitions. No mining will be conducted in these areas unless those reserves are acquired in the future and permitted according to federal, state, and local permitting requirements. West Ridge Resources acknowledges that permission to mine within the permit boundary does not imply permission to mine beyond the permit boundary.

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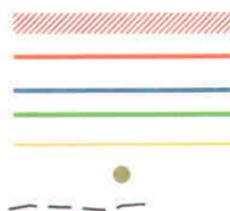
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2010	
2011	
2012	
2013	
2014	
2015	
2016	
Mined Area	

**WEST RIDGE MINE**  
**Map 5-4B**  
**Mining Projections**  
**(Extended Reserves)**

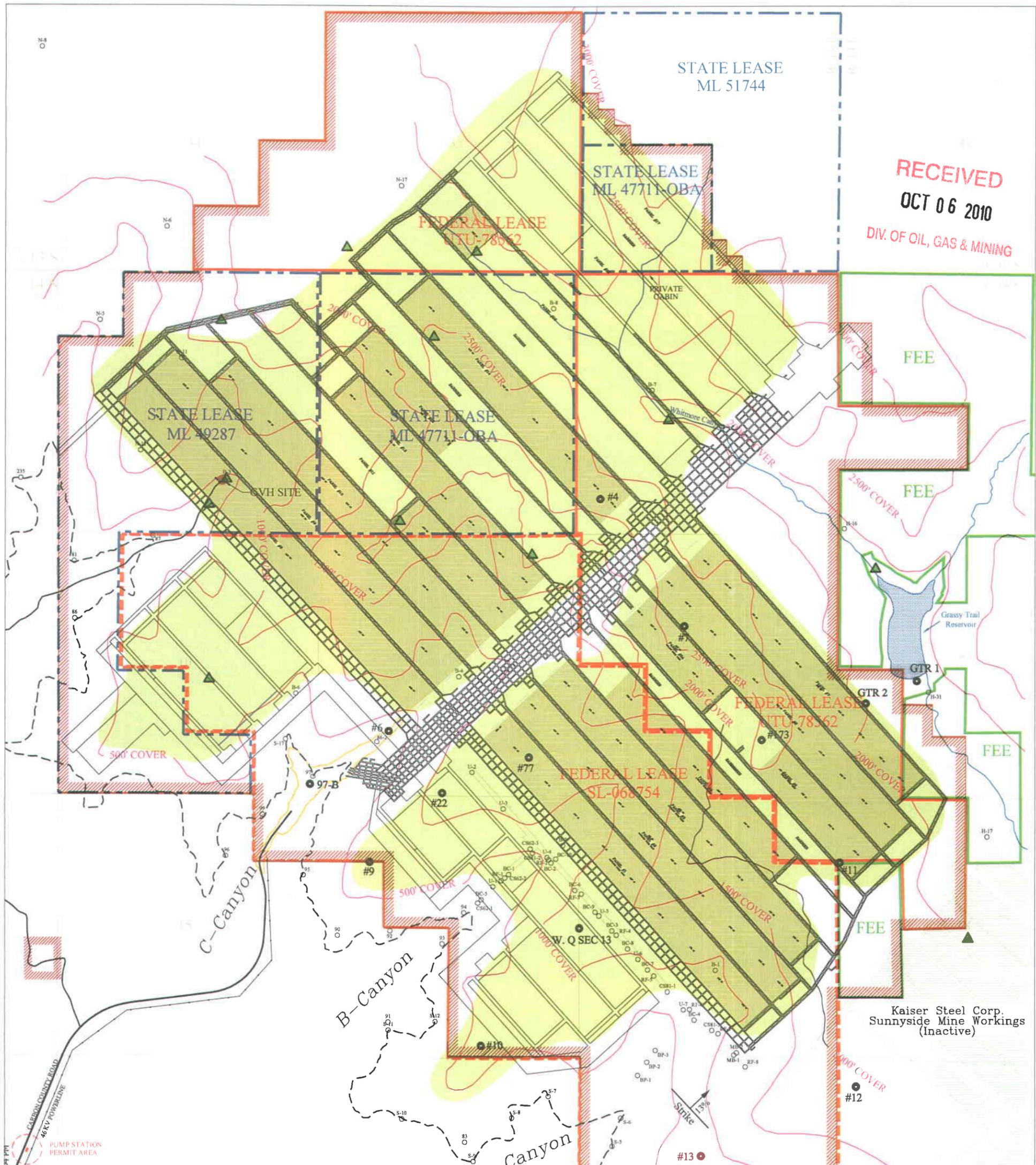
**LEGEND:**

- Permit Boundary
- Federal Lease
- State Lease (ML 49287)
- Penta Creek Fee
- Surface Facility Area
- GVH Site
- Outcrop



**WEST RIDGE**  
RESOURCES, INC.

SCALE: 1"=2000'



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**NOTE:**  
 Mine projections are subject to change depending on conditions encountered in the underground mine workings. Actual mine works are shown as of January 1, 2010. Mine projections depicted in the fringe areas beyond the existing permit area are speculative and based on future reserve acquisitions. No mining will be conducted in these areas unless those reserves are acquired in the future and permitted according to federal, state, and local permitting requirements. West Ridge Resources acknowledges that permission to mine within the permit boundary does not imply permission to mine beyond the permit boundary. Longwall panels will be reconfigured as needed to prevent unauthorized subsidence beyond the permit area if extended reserves are not acquired in the future. Additional control points will be added as mine advances.

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Kaiser Steel Corp.  
Sunnyside Mine Workings  
(Inactive)

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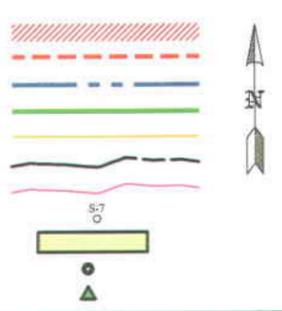
# WEST RIDGE MINE

## Map 5-7

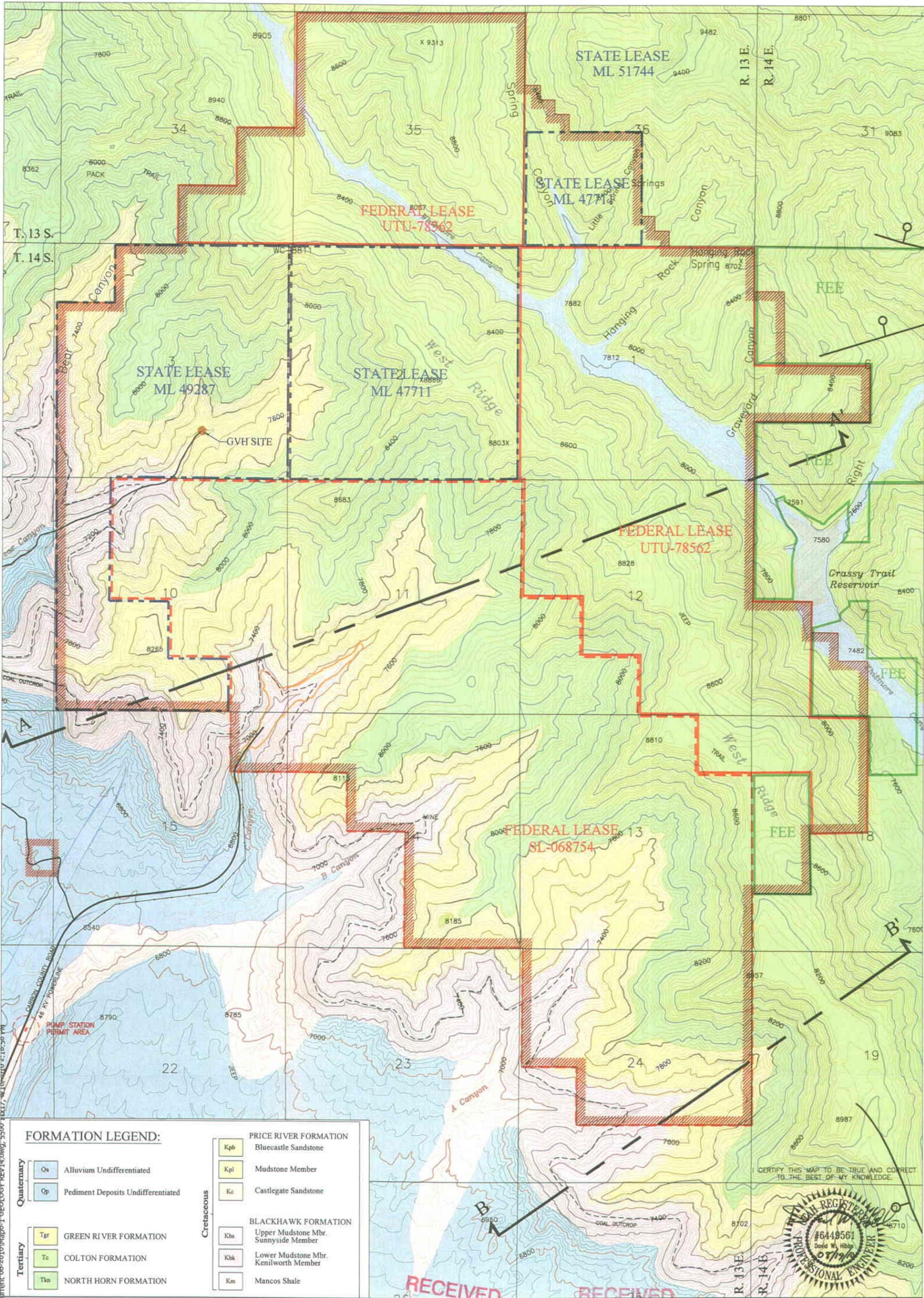
### Subsidence Map

**LEGEND:**

	Permit Boundary
	Federal Lease
	State Lease
	Penta Creek Fee
	Surface Facility Area
	Outcrop
	Cover
	Drill Hole
	Possible Subsidence Area
	Existing Photogrammetric Control Points
	Future Photogrammetric Control Points



SCALE: 1"=2000'



**FORMATION LEGEND:**

Quaternary	Qa	Alluvium Undifferentiated	Cretaceous	Kpb	PRICE RIVER FORMATION Bluecastle Sandstone
	Qp	Pediment Deposits Undifferentiated		Kpl	Mudstone Member
Tertiary	Tgr	GREEN RIVER FORMATION	Kc	Castlegate Sandstone	
	Tc	COLTON FORMATION	Kbs	BLACKHAWK FORMATION Upper Mudstone Mbr. Sunnyside Member	
	Tkn	NORTH HORN FORMATION	Kbk	Lower Mudstone Mbr. Kenilworth Member	
			Km	Mancos Shale	

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



**WEST RIDGE MINE**  
Map 6-1  
Regional Geology Map

**LEGEND:**

	Permit Boundary
	Federal Lease
	State Lease
	Penta Creek Fee
	Surface Facility Area
	GVH Site
	Fault

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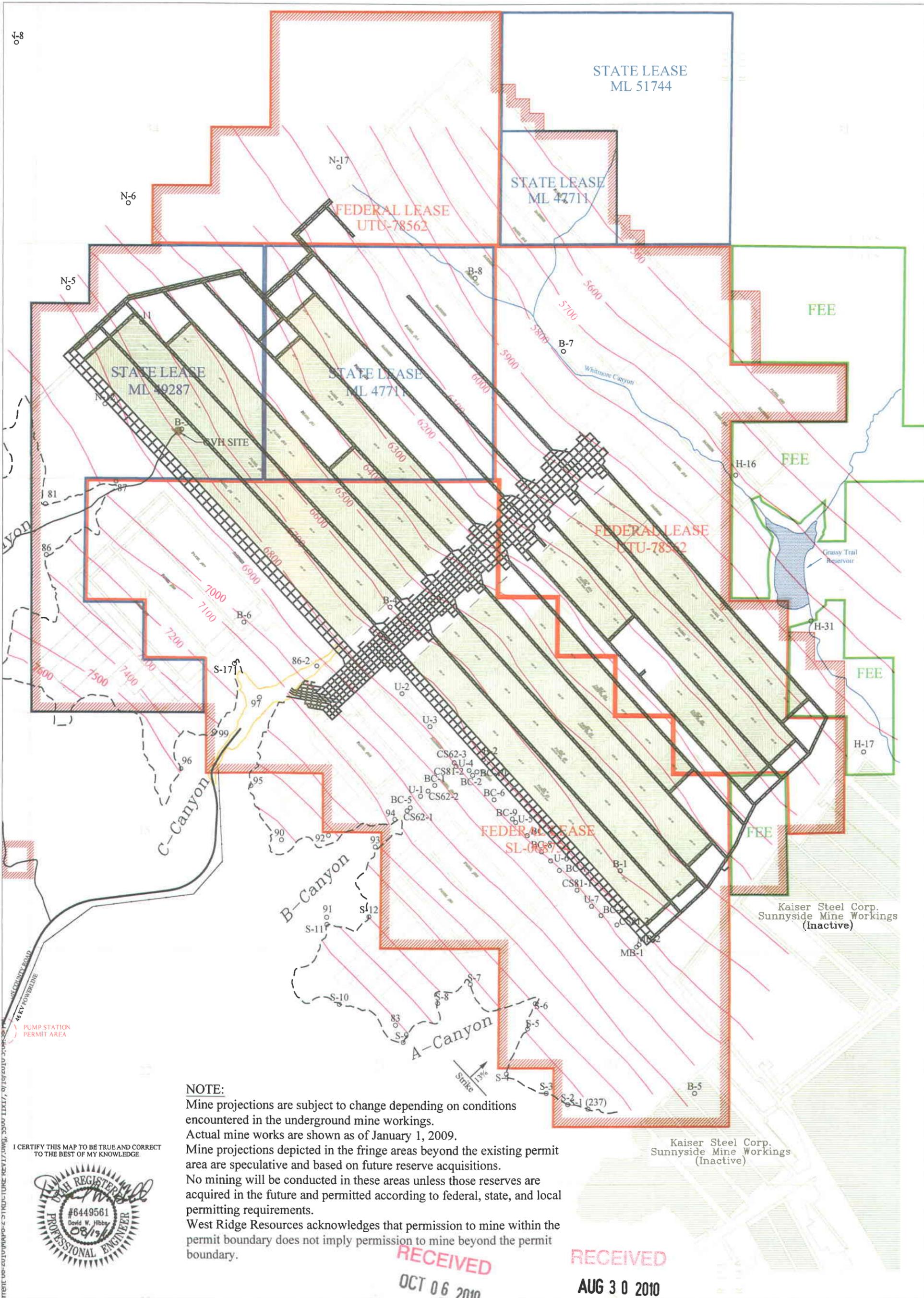
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**NOTE:**  
 Mine projections are subject to change depending on conditions encountered in the underground mine workings. Actual mine works are shown as of January 1, 2009. Mine projections depicted in the fringe areas beyond the existing permit area are speculative and based on future reserve acquisitions. No mining will be conducted in these areas unless those reserves are acquired in the future and permitted according to federal, state, and local permitting requirements. West Ridge Resources acknowledges that permission to mine within the permit boundary does not imply permission to mine beyond the permit boundary.

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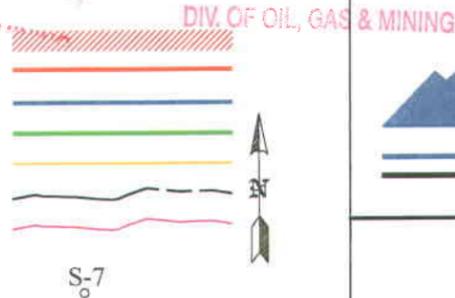
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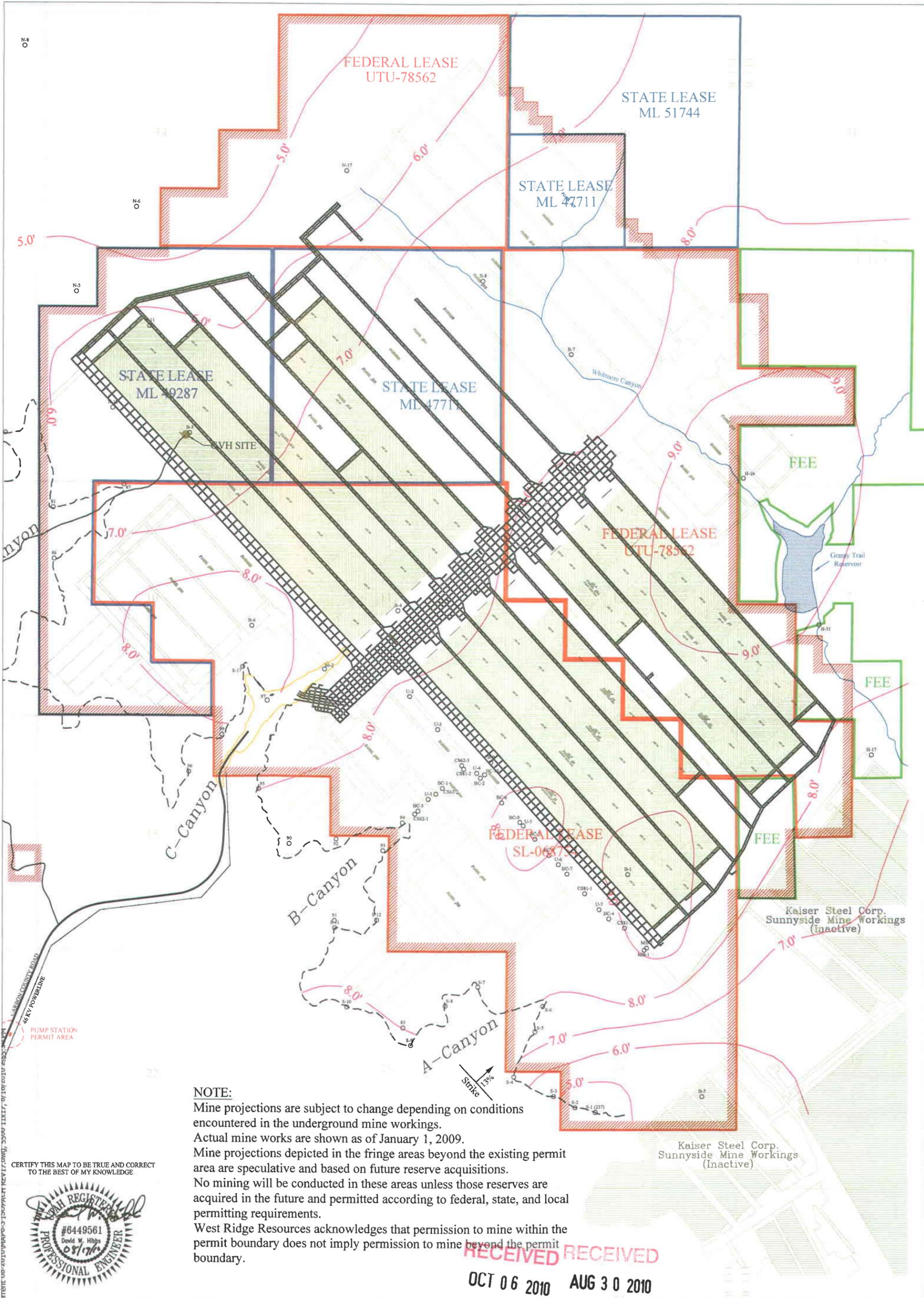
## Map 6-2

### Coal Seam Structure Map

- LEGEND:**
- Permit Boundary
  - Federal Lease
  - State Lease
  - Penta Creek Fee
  - Surface Facility Area
  - Outcrop
  - Structure Contour (Base of Lower Sunnyside Seam)
  - Drill Hole/Channel Samples



SCALE: 1"=2000'



**NOTE:**  
 Mine projections are subject to change depending on conditions encountered in the underground mine workings. Actual mine works are shown as of January 1, 2009. Mine projections depicted in the fringe areas beyond the existing permit area are speculative and based on future reserve acquisitions. No mining will be conducted in these areas unless those reserves are acquired in the future and permitted according to federal, state, and local permitting requirements. West Ridge Resources acknowledges that permission to mine within the permit boundary does not imply permission to mine beyond the permit boundary.

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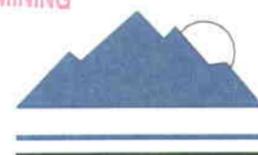
**WEST RIDGE MINE**

**Map 6-3**

**Lower Sunnyside Coal Seam Isopach Map**

- LEGEND:**
- Permit Boundary
  - Federal Lease
  - State Lease
  - Penta Creek Fee
  - Surface Facility Area
  - GVH Site
  - Outcrop
  - Coal Isopachs
  - Drill Hole/Channel Samples

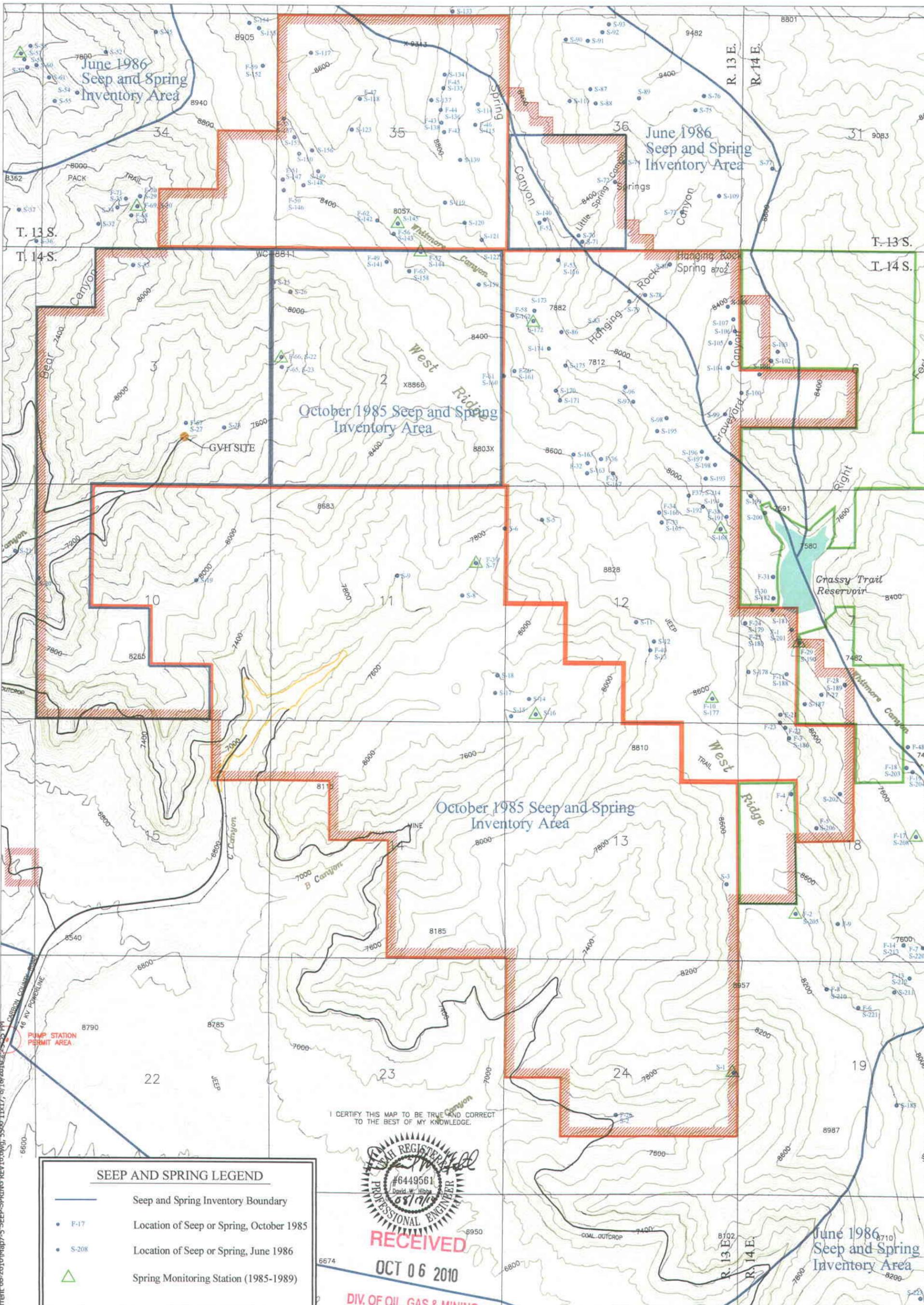
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SCALE: 1"=2000'





Current Drawings: \\wkr\maps\west\_ridge\_mine\current\06-2010\map7-5 SEEP-SPRING REV16.dwg, 25000 11x17, 01/10/2010, 2:52 PM  
 ATE: 8-19-10 REV: 16 ACAD REF: MAP7-5 SEEP-SPRING REV16

**SEEP AND SPRING LEGEND**

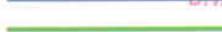
-  Seep and Spring Inventory Boundary
-  F-17 Location of Seep or Spring, October 1985
-  S-208 Location of Seep or Spring, June 1986
-  Spring Monitoring Station (1985-1989)

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**WEST RIDGE MINE**  
**Map 7-5**  
**Seep/Spring Survey Map**

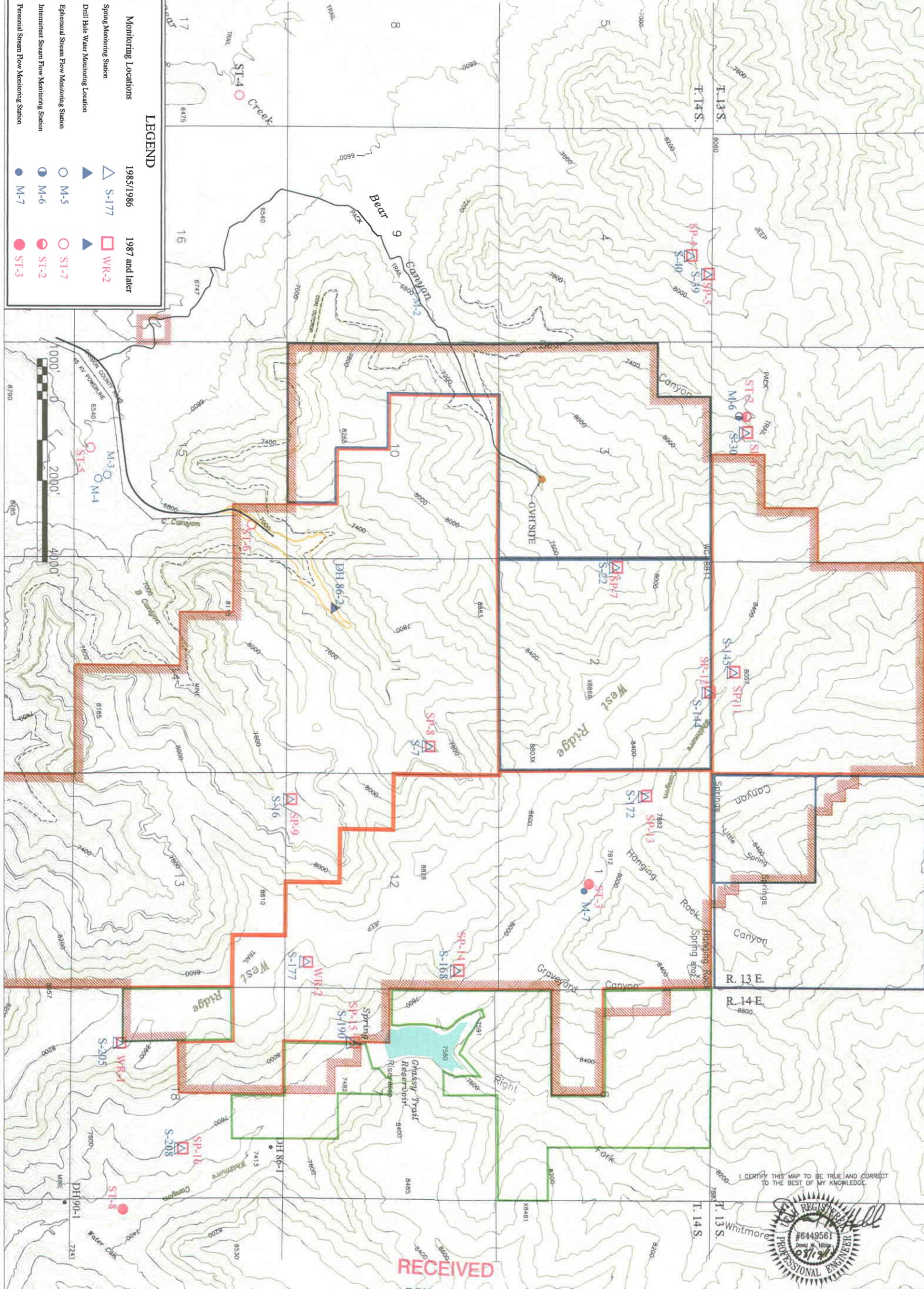
- LEGEND:**
-  Permit Boundary
  -  Federal Lease
  -  State Lease
  -  Penta Creek Fee
  -  Surface Facility Area
  -  GVH Site

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**RESOURCES, INC.**

SCALE: 1"=2000'



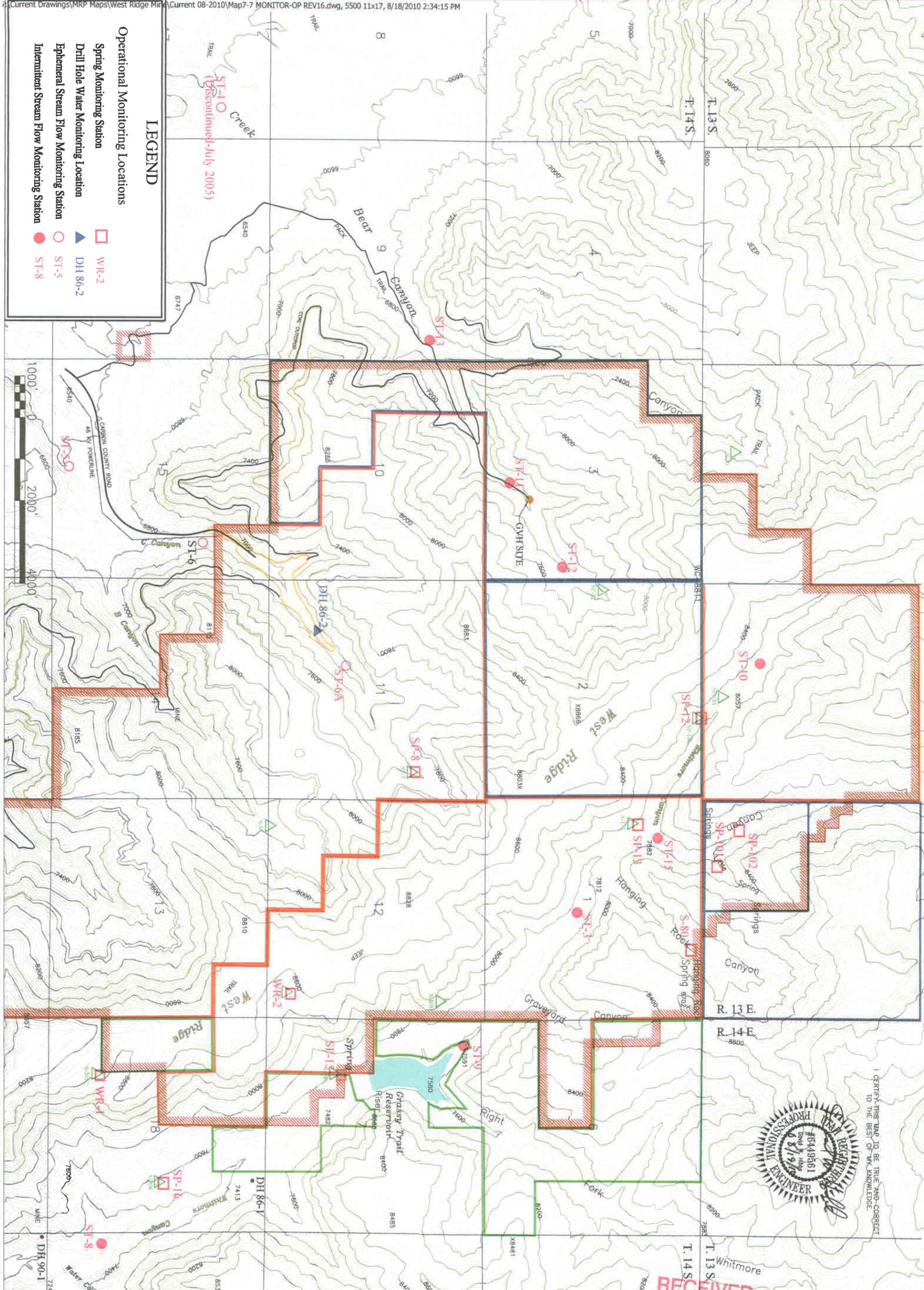
**WEST RIDGE MINE**  
**Map 7-6**  
**Hydrologic Monitoring Map**  
**(Historical Monitoring Locations)**

**LEGEND:**  
 Permit Boundary  
 Federal Lease  
 State Lease  
 Penta Creek Fee  
 Surface Facility Area  
 GVH Site

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SCALE: 1"=2000'



**LEGEND**

**Operational Monitoring Locations**

- Spring Monitoring Station: □ WR-2
- Drill Hole Water Monitoring Location: ▲ DH 86-2
- Ephemeral Stream Flow Monitoring Station: ○ ST-5
- Intermittent Stream Flow Monitoring Station: ● ST-8



**WEST RIDGE MINE**  
**Map 7-7**  
**Operational Monitoring Locations**

**LEGEND:**

- Permit Boundary: [Hatched Box]
- Federal Lease: [Red Line]
- State Lease: [Blue Line]
- Penta Creek Fee: [Green Line]
- Surface Facility Area: [Yellow Line]
- GVH Site: [Yellow Dot]

North Arrow

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SCALE: AS SHOWN



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