



WEST RIDGE
RESOURCES, INC.

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

Incoming
C0070041

#4236

R

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

November 28, 2012

Attn: Daron Haddock
Permit Supervisor

Re: West Ridge Mine C/007/041
12-003 Adding New Lease Modification to the MRP

Dear Mr. Haddock:

Enclosed are six copies of a submittal to add the newly approved Lease Modification area to the approved MRP. The submittal is in the format for direct insertion into the approved Mine Permit.

It should be noted that since there will be no additional surface disturbance, and all of the acres have been previously included in the study areas for vegetation, archeology, biology, and soils, no additionally inventories were warranted.

Completed C1 and C2 forms as well as redline strikeouts have been included.

If you have questions or comments please contact Jay Marshall at (435) 888 4007.

Sincerely,

R. Jay Marshall
R. Jay Marshall

File in:

- Confidential
- Shelf
- Expandable

Date Folder 12/03/12 C/ 007-0041

Incoming

RECEIVED

DEC 03 2012

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: C/007/041
Title of Proposal: 12-003 Add BLM Lease Modification to Permit						Mine: WEST RIDGE MINE
						Permittee: WEST RIDGE Resources, 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 specialist.

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1. Change in the size of the Permit Area? <u>480.2</u> acres Disturbed Area? <u>0</u> acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	2. Is the application submitted as a result of a Division Order?
<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?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain: Mid Term Review
<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?
<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?

Attach 6 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)

R. Howard Marshall - 11/27/12
Signed - Name - Position - Date

Subscribed and sworn to before me this 27th day of November 2012

My Commission Expires: 3/27/13
Attest: STATE OF Utah COUNTY OF Carbon



Received by Oil, Gas & Mining

RECEIVED

DEC 03 2012

DIV. OF OIL, GAS & MINING

ASSIGNED TRACKING NUMBER

WordPerfect Document Compare Summary

Original document: C:\Projects\UtahAmerican\West Ridge Mod\Chapter 1 approved-panel 22 approved-B canyon portal re-opening pending.wpd

Revised document: @PFDesktop\MyComputer\C:\Projects\UtahAmerican\West Ridge Mod\Chapter 1 approved-HDI.wpd

Deletions are shown with the following attributes and color:

Strikeout, **Blue** RGB(0,0,255).

Deleted text is shown as full text.

Insertions are shown with the following attributes and color:

Double Underline, **Redline**, **Red** RGB(255,0,0).

The document was marked with 62 Deletions, 54 Insertions, 0 Moves.

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~~ Jay Marshall
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.

114.100 WEST RIDGE Resources, Inc., currently holds ~~5256~~5,736.1636 acres of federal coal (~~23,650~~130.67-87 acres leased under SL-068754 and ~~2605~~2,605.49 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 1189.84 acres leased 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 three (3 ea.) catchment structures in the C Canyon drainage below the mine. These catchments are designed to provide containment of unanticipated coal-fines accumulations from the mine discharge water. These catchment structures comprises a total of 0.69 acres (Refer to Appendix 5-15 for details).

The total permit area is ~~78,600~~080.3858 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.

The permit area consists of the following areas:

- 1) all of federal coal leases SL-068754-U-01215 (~~23,650~~130.6787 acres)
- 2) most of federal coal lease UTU 78562 (2,403.07 acres),
- 3) all of state coal leases ML-47711 (801.24 acres)
- 4) all of state coal lease ML-49287 (881.10 acres)
- 5) much of state coal lease ML-51744 (212.5 acres)
- 6) much of the Penta Creek fee coal lease (650.49 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 A, C and E (0.69 acres)
- 10) Carbon County authorization, road security gate (0.79 acres). See Appendix 1-13

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 (main pad)	0.24 acres
4)	GVH installation (GVH 5 "pullout")	0.02 acres
5)	GVH topsoil storage	0.1 acres
6)	Catchment structures A	0.12 acres
7)	Catchment structures C	0.23 acres
8)	Catchment structures E	0.23 acres
9)	B Canyon Portal re-opening	<u>0.25 acres</u>
	TOTAL	31.24 acres

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

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

<u>PARCEL</u>	<u>ACREAGE</u>	<u>LEGAL DESCRIPTION</u>
1) <u>FEDERAL COAL LEASE SL-068754</u> (SL-068754-U-01215)	23,650 <u>130.6787</u>	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, <u>SWNW, N2NWSW, E2SW</u> Section 15: NENE, <u>W2NE, E2SENE</u> <u>Section 23:</u> <u>Lot 1, N2NE, SWNE, NENW</u> Section 24: N2, N2SE, NESW, <u>NWSW</u>
2) <u>FEDERAL COAL LEASE UTU-78562</u>	2,249.25	T 13 S, R13 E Section 34: NESE, S2SE Section 35: All T 13 S, R 14 E Section 31: Lot 4, S2SESW, NESESW, SENWSESW, W2SWSE, S2SESWSE, S2S2SESE 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 5: Lot 4, W2W2SWNW, SWNWSW, W2NWNWSW, W2SWSW Section 6: Lot 6, NESW, NESE

3) PUMPING STATION
(BLM R.O.W. UTU-7712)

0.23

Section 7: Lots 3 and 4

Section 8: W2NWNW, W2SENWNW,
SWNENWNW, W2SWNW,
W2E2SWNW, W2NWSW,
SWSW

Section 17: N2NWNWNE

Section 18: Lot 1, E2NW

T 14 S, R 13 E

Section 21: NENE (0.23 acres thereof)

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

0.23

T 14 S, R 13 E

Section 15: SESW (0.23 acres therein)

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

0.23

T 14 S, R 13 E

Section 28: NWNW (0.23 acres therein)

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

0.23

T 14 S, R 12 E

Section 25: SESE (0.23 acres therein)

TOTAL FEDERAL

52575.736.0836 acres

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

<u>PARCEL</u>	<u>ACREAGE</u>	<u>LEGAL DESCRIPTION</u>
1) FEDERAL LEASE SL-068754 <u>(SL-068754-U-01215)</u>	23,650 <u>130.6787</u>	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, <u>SWNW</u> , <u>N2NWSW, E2SW</u> Section 15: NENE, <u>W2NE, E2SENE</u> <u>Section 23:</u> <u>Lot 1, N2NE, SWNE, NENW</u> Section 24: N2, N2SE, NESW, <u>NWSW</u>
2) FEDERAL LEASE <u>UTU-78562</u>	2403.07	T 13 S, R13 E Section 34: NESE, S2SE Section 35: All T 13 S, R 14 E Section 31: Lot 4, S2SESW, NESESW, SENWSESW, W2SWSE, S2SESWSE, S2S2SESE 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 5: W2W2SWNW, W2NWNWSW Section 6: Lot 6, NESW, N2NESE, SWNESE

TABLE 1-4 (continued)

<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 A</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) CATCHMENT STRUCTURE C</u> (BLM R.O.W . UTU-87110)	0.23	T 14 S, R 13 E	Section 28: NWNW (0.23 acres thereof, containing catchment structure)
<u>12) CATCHMENT STRUCTURE E</u> (BLM R.O.W . UTU-87110)	0.23	T 14 S, R 12 E	Section 25: SESE (0.23 acres thereof, containing catchment structure)
<u>13) SECURITY GATE</u> (Carbon County authorization)	0.79	T 14 S, R 13 E	Section 15: NWSENE (0.79 acres thereof, containing security gate)
<u>TOTAL PERMIT AREA</u>	7600 8080.3858 acres		

*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, SWNWSWNW, S2S2NW, S2SWNE, W2SE, SESE, S2NESE, NWNENE,
T13S, R14E	Section 31:	Lot 4, S2SESW, NESESW, SENWSESW, W2SWSE, S2SESWSE, S2S2SESE
T14S, R12E	Section 25	SESE (part thereof containing catchment structure E)
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, <u>SWNW, N2NWSW, E2SW</u>
	Section 15	NENE, NWISENE (part thereof, containing security gate)
	Section 16	E2NESE (part thereof, containing substitute topsoil area)
	Section 21	NESENE (part thereof, containing pumping station)
	<u>Section 23</u>	<u>Lot 1, N2NE, SWNE, NENW</u>
	Section 24	N2, N2SE, NESW, <u>NWSW</u>
	Section 28	NWNW (part thereof, containing catchment structure C)
T14S, R14E	Section 5:	W2W2SWNW, W2NWNWSW
	Section 6	Lots 1, 2, 3, 4, 5, 6 and 7, SENW, E2SW, W2SE, S2NE, N2NESE, SWNESE, NWSESE
	Section 7*	Lots 1*, 3 and 4, SESW, SWNESW
	Section 18	Lots 1, 2 and 3, E2NW

TOTAL PERMIT AREA = 78,600,080.3858 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	-	-	-	120.00	-	-	120.00
13/13	35	40.00	-	448.91	151.09	-	-	640.00
13/13	36	-	372.50	-	-	-	-	372.50
13/14	31	108.82	-	-	-	-	-	108.82
14/12	25	0.23	-	-	-	-	-	0.23
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	360.00	-	-	-	-	280.00	640.00
14/13	11	650.87	-	-	-	-	-	650.87
14/13	12	-	648.96	-	-	-	-	648.96
14/13	13	640.00	-	-	-	-	-	640.00
14/13	14	440 <u>580</u> . 00	-	-	-	-	-	440 <u>580</u> . 00
14/13	15	41 <u>141.0</u> 220	-	-	-	-	-	41 <u>141.0</u> 220
14/13	16	-	-	-	-	-	9.60	9.60
14/13	21	0.23	-	-	-	-	-	0.23
<u>14/13</u>	<u>23</u>	<u>200.02</u>	=	=	=	=	=	<u>200.02</u>
14/13	24	448 <u>0</u> .00	-	-	-	-	-	448 <u>0</u> .00
14/12	28	0.23	-	-	-	-	-	0.23
14/14	5	-	-	15.00	-	-	-	15.00
14/14	6	76.41	478.88	30.00	-	-	-	585.29
14/14	7	74.08	86.69	-	-	-	-	160.77
14/14	8	-	-	-	-	-	-	0.00

**ATTACHMENT 1-5
VERIFICATION STATEMENT**

I hereby certify that I am a responsible official (Resident Agent) of the applicant (ANDALEX and IPA for WEST RIDGE Resources, Inc.) 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 - Name - Position - Date
~~David Shaver~~ Jay Marshall, Resident Agent

Subscribed and sworn to before me this__ day of_____, 20__

Notary Public

My commission Expires: _____, 20__)

Attest: STATE OF _____) ss:

COUNTY OF _____)

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David Hibbs - President

Employer Identification Number: 87-0585129

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Jay Marshall
WEST RIDGE Resources, Inc.
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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 three (3 ea.) catchment structures in the C Canyon drainage below the mine. These catchments are designed to provide containment of unanticipated coal-fines accumulations from the mine discharge water. These catchment structures comprises a total of 0.69 acres (Refer to Appendix 5-15 for details).

The total permit area is 8,080.58 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.

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- 6) much of the Penta Creek fee coal lease (650.49 acres)
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- 8) BLM right-of-way UTU-77120, for pumping station (0.23 acres)
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- 10) Carbon County authorization, road security gate (0.79 acres). See Appendix 1-13

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 (main pad)	0.24 acres
4) GVH installation (GVH 5 "pullout")	0.02 acres
5) GVH topsoil storage	0.1 acres
6) Catchment structures A	0.12 acres
7) Catchment structures C	0.23 acres
8) Catchment structures E	0.23 acres
9) B Canyon Portal re-opening	<u>0.25 acres</u>
TOTAL	31.24 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>
1) <u>FEDERAL COAL LEASE SL-068754</u> (SL-068754-U-01215)	3,130.87	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, SWNW, N2NWSW, E2SW
		Section 15: NENE, W2NE, E2SENE
		Section 23: Lot 1, N2NE, SWNE, NENW
		Section 24: N2, N2SE, NESW, NWSW
		2) <u>FEDERAL COAL LEASE UTU-78562</u>
Section 34: NESE, S2SE		
Section 35: All		
T 13 S, R 14 E		
Section 31: Lot 4, S2SESW, NESESW, SENWSESW, W2SWSE, S2SESWSE, S2S2SESE		
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 5: Lot 4, W2W2SWNW, SWNWSW, W2NWNWSW, W2SWSW		
Section 6: Lot 6, NESW, NESE		
Section 7: Lots 3 and 4		

3) PUMPING STATION
(BLM R.O.W. UTU-7712)

0.23

Section 8: W2NWNW, W2SENWNW,
SWNENWNW, W2SWNW,
W2E2SWNW, W2NWSW,
SWSW

Section 17: N2NWNWNE

Section 18: Lot 1, E2NW

T 14 S, R 13 E

Section 21: NENE (0.23 acres thereof)

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

0.23

T 14 S, R 13 E

Section 15: SESW (0.23 acres therein)

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

0.23

T 14 S, R 13 E

Section 28: NWNW (0.23 acres therein)

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

0.23

T 14 S, R 12 E

Section 25: SESE (0.23 acres therein)

TOTAL FEDERAL

5,736.36 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)	3,130.87	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, SWNW, N2NWSW, E2SW
		Section 15: NENE, W2NE, E2SENE
		Section 23: Lot 1, N2NE, SWNE, NENW
		Section 24: N2, N2SE, NESW, NWSW
		<u>2) FEDERAL LEASE UTU-78562</u>
Section 34: NESE, S2SE		
Section 35: All		
T 13 S, R 14 E		
Section 31: Lot 4, S2SESW, NESESW, SENWSESW, W2SWSE, S2SESWSE, S2S2SESE		
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 5: W2W2SWNW, W2NWNWSW		
Section 6: Lot 6, NESW, N2NESE, SWNESE		
Section 7: Lots 3 and 4		
Section 18: Lot 1, E2NW		

TABLE 1-4 (continued)

<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 A</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) CATCHMENT STRUCTURE C</u> (BLM R.O.W . UTU-87110)	0.23	T 14 S, R 13 E	Section 28: NWNW (0.23 acres thereof, containing catchment structure)
<u>12) CATCHMENT STRUCTURE E</u> (BLM R.O.W . UTU-87110)	0.23	T 14 S, R 12 E	Section 25: SESE (0.23 acres thereof, containing catchment structure)
<u>13) SECURITY GATE</u> (Carbon County authorization)	0.79	T 14 S, R 13 E	Section 15: NWSENE (0.79 acres thereof, containing security gate)
<u>TOTAL PERMIT AREA</u>	<u>8080.58 acres</u>		

*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, SWNWSWNW, S2S2NW, S2SWNE, W2SE, SESE, S2NESE, NWNESE,
T13S, R14E	Section 31:	Lot 4, S2SESW, NESESW, SENWSESW, W2SWSE, S2SESWSE, S2S2SESE
T14S, R12E	Section 25	SESE (part thereof containing catchment structure E)
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, SWNW, N2NWSW, E2SW
	Section 15	NENE, NWSENE (part thereof, containing security gate) SESW (part thereof, containing catchment structure A), W2NE, E2SENE
	Section 16	E2NESE (part thereof, containing substitute topsoil area)
	Section 21	NESENE (part thereof, containing pumping station)
	Section 23	Lot 1, N2NE, SWNE, NENW
	Section 24	N2, N2SE, NESW, NWSW
Section 28	NWNW (part thereof, containing catchment structure C)	
T14S, R14E	Section 5:	W2W2SWNW, W2NWNWSW
	Section 6	Lots 1, 2, 3, 4, 5, 6 and 7, SENW, E2SW, W2SE, S2NE, N2NESE, SWNESE, NWSESE
	Section 7*	Lots 1*, 3 and 4, SESW, SWNESW
	Section 18	Lots 1, 2 and 3, E2NW

TOTAL PERMIT AREA = 8,080.58 acres.

*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 1-6
SURFACE OWNERSHIP OF PERMIT AREA**

T(S)/R(E)	Section	BLM	Penta Creek	Hinkins	Wells	Rauhala	SITLA	Total
13/13	34	-	-	-	120.00	-	-	120.00
13/13	35	40.00	-	448.91	151.09	-	-	640.00
13/13	36	-	372.50	-	-	-	-	372.50
13/14	31	108.82	-	-	-	-	-	108.82
14/12	25	0.23	-	-	-	-	-	0.23
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	360.00	-	-	-	-	280.00	640.00
14/13	11	650.87	-	-	-	-	-	650.87
14/13	12	-	648.96	-	-	-	-	648.96
14/13	13	640.00	-	-	-	-	-	640.00
14/13	14	580.00	-	-	-	-	-	580.00
14/13	15	141.20	-	-	-	-	-	141.20
14/13	16	-	-	-	-	-	9.60	9.60
14/13	21	0.23	-	-	-	-	-	0.23
14/13	23	200.02	-	-	-	-	-	200.02
14/13	24	480.00	-	-	-	-	-	480.00
14/12	28	0.23	-	-	-	-	-	0.23
14/14	5	-	-	15.00	-	-	-	15.00
14/14	6	76.41	478.88	30.00	-	-	-	585.29
14/14	7	74.08	86.69	-	-	-	-	160.77
14/14	8	-	-	-	-	-	-	0.00
14/14	18	117.25	74.92	-	-	-	-	192.17
		3753.09	2631.87	493.91	351.75	39.92	810.04	8080.58

**ATTACHMENT 1-5
VERIFICATION STATEMENT**

I hereby certify that I am a responsible official (Resident Agent) of the applicant (ANDALEX and IPA for WEST RIDGE Resources, Inc.) 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

Jay Marshall, Resident Agent

Signed - Name - Position - Date

Subscribed and sworn to before me this__ day of_____, 20_

Notary Public

My commission Expires: _____, 20__)

Attest: STATE OF _____) ss:

COUNTY OF _____)

WordPerfect Document Compare Summary

Original document: C:\Projects\UtahAmerican\West Ridge Mod\Chapter 5 approved GVH 4 and 5-panel 22 approved-jan 12-2011-B Canyon portal re-opening pending.wpd

Revised document: C:\Projects\UtahAmerican\West Ridge Mod\Chapter 5 approved - HDI.wpd

Deletions are shown with the following attributes and color:

~~Strikeout~~, Blue RGB(0,0,255).

Deleted text is shown as full text.

Insertions are shown with the following attributes and color:

Double Underline, Redline, Red RGB(255,0,0).

The document was marked with 3 Deletions, 4 Insertions, 0 Moves.

R645-301-520

OPERATION PLAN

R645-301-521

GENERAL

WEST RIDGE Resources, Inc. holds federal, state and fee coal leases SL-068754 and UTU-75862, state leases ML 47711, ML 49287 and ML 51744, and the Penta Creek fee lease, totaling 7796.7 acres in the West Ridge area of eastern Carbon County. Much of the Penta Creek Fee Lease, is not included within the permit area at this time and cannot be mined until the permit is amended. Refer to Map 5-4B, Mining Projections - Extended Reserves. A breakdown of the acreage of the lease areas are presented in Chapter 1 of this permit.

The mine, consists of one longwall and two continuous miner sections. The mining sequence is shown on Map 5-4A, Mining Projections. Initial mine production will come from reserves located in the southeastern portion of the existing lease area. Panels will be developed to the north and south of the mains, progressing in an eastward direction. With the existing leases, the projected life of the West Ridge Mine is 15 years. After the economically recoverable reserves within the permit area have been depleted, the portals would be sealed and reclamation of the surface facility area would begin unless additional leases were acquired.

Surface facilities will be located in C Canyon, where the left and right forks converge, in a previously disturbed area. The extent of the previous disturbance includes access roads, outcrop excavations and exploration drill holes. Previous disturbance at this site is estimated to be approximately 1.62 acres. The total proposed surface disturbed area, as delineated by the tan line on the maps, amounts to approximately 29 acres. Actual anticipated disturbance for surface facilities and topsoil stockpiles (within the disturbance area) is estimated at 26.02 acres. This includes approximately 0.79 acres of Carbon County road which has been included in the disturbed area down to the C Canyon gate, and 0.23 acres for the pumphouse area located below the minesite.

An alternate (substitute) topsoil borrow area would be located about 1 ½ miles to the west of the proposed mine site on a ten acre parcel of State School Trust land. This area would not be included unless needed for final reclamation. No surface disturbance would take place at this location until the time of final reclamation. No additional acreage should be required for the project as proposed in this permit application.

or air pollution control facilities exist within the proposed permit area. A small portion of the Grassy Trail Reservoir (less than 0.6 acres) lies within a corner of the permit area.

521.130 Landownership And Right Of Entry Maps

Ownership boundaries and the names of the present owners of record for surface lands as well as underground are depicted on Maps 5-2, Surface Ownership and 5-3, Subsurface Ownership.

Map 5-4B delineates the federal coal lease SL-068754 and UTU-78562, state lease ML 47711, ML49287 and ML 51744 and the Penta Creek fee lease, totaling 7796.7 acres held by WEST RIDGE Resources, Inc., which is the area for which WEST RIDGE Resources, Inc. Resources has the legal right to enter and begin coal mining and reclamation operations. Much of the Penta Creek Fee Lease is not included within the permit area at this time. A breakdown of the acreages of the lease areas are presented in Chapter 1 of this permit.

Included in Appendix 5-2 is a letter from Carbon County granting WEST RIDGE Resources, Inc. permission to conduct mining operations within 100 feet of the Carbon County road. This would basically be that segment of road where the road enters the mine facility area.

Also included in Appendix 5-2 is an approval letter from Carbon County, allowing for the periodic closure of approximately 960' of the "C" Canyon Road from the gate to the original mine permit area. The permit area has been extended to the gate, as shown on Plate 4-1.

A public notice has been published providing for request for a public hearing as provided in R645-103-234. A copy of this notice is also included in Appendix 5-2.

521.140 Mine Maps And Permit Area Maps

The permit area proposed to be affected by the coal mining and reclamation operation is shown on Map 5-3. Permit renewals will be reapplied for on five year intervals.

521.141 The mining operation has been divided into five year mining blocks in an attempt to show future areas that will be mined under the permit renewals. The mining blocks are shown on Map 5-4B. All projections and timing are preliminary and general in nature and may change in the future depending on mining, marketing, environmental conditions and/or acquisition of additional state and federal reserves.

Surface support facilities in C Canyon will be utilized for the life of mine operations. The proposed mine surface facility area is depicted on Map 5-5, Surface Facility Map. Reclamation of the facilities will be performed following completion of mining activities and sealing of the portals.

R645-301-520 OPERATION PLAN

R645-301-521 GENERAL

WEST RIDGE Resources, Inc. holds federal, state and fee coal leases SL-068754 and UTU-75862, state leases ML 47711, ML 49287 and ML 51744, and the Penta Creek fee lease in the West Ridge area of eastern Carbon County. Much of the Penta Creek Fee Lease, is not included within the permit area at this time and cannot be mined until the permit is amended. Refer to Map 5-4B, Mining Projections - Extended Reserves. A breakdown of the acreage of the lease areas are presented in Chapter 1 of this permit.

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521.100

Cross Sections And Maps

The lease area is located northwest of the old Sunnyside No. 1 underground mine workings. The lease was, at one time, held by U.S. Steel Corp., who authorized Kaiser Coal Company to extend a set of test entries from the Sunnyside No. 1 mine part way through the lease. These test entries were driven to the surface in B Canyon. The portal for this test entry breakout exists presently although it has been sealed. B Canyon is located approximately one mile southeast of C Canyon where the surface facilities for the West Ridge Mine are being proposed. The extent of the underground test entry development within the lease is shown on Map 5-7, Subsidence Map. The old Sunnyside Mine test entries driven north into the proposed permit area were mined in 1959 and 1960, are now inactive and sealed to prevent public access.

The proposed surface facilities are to be situated in C Canyon. north of the old underground mine workings in the Sunnyside No. 1 Mine. The location of the old workings with respect to the proposed development is shown on Map 5-4A. Map 5-1, Previous Disturbance, shows the areal extent of the previous surface disturbance in C Canyon.

521.120

Existing Surface And Subsurface Facilities And Features

No surface or subsurface features, such as commercial buildings, transmission lines, pipelines, or agricultural related features, exist in or near the proposed permit area. Refer to Map 4-1. A pre-mining (pre-subsidence) survey was conducted prior to mining operations, which included the area of lease UTU-78652. Refer to Appendix 5-8. A recreational cabin (seasonal occupation) and trailer are located in Spring Canyon in the northern part of the permit area. In this area, the depth of cover exceeds 2500'. Within 18 months prior to longwall mining in this area a pre-subsidence survey of the cabin/trailer will be conducted. The location of this cabin is shown on Map 4-1, 5-2 and 5-7. A breakdown of the acreage of the lease areas are presented in Chapter 1 of this permit.

Man-made features in or near the proposed permit area consist primarily of roads. Refer to Map 4-1. Several small roads exist within the permit area. These roads are Carbon County RS2477 roads. They are used primarily to access the top of West Ridge by ranchers in the area.

Approximately 960' of the existing Carbon County road into "C" Canyon has been added to the West Ridge Mine permit and included as disturbed area. The addition of this portion of road was necessitated by the placement of a gate (owned by Carbon County) to allow for better visibility and turnaround area for the public during those times when the gate is closed by the operator.

Roads that lie in or within 100 feet of the proposed permit area are depicted on Map 4-1.

No spoil, waste, noncoal waste, dams, embankments, sediment pond, water treatment

or air pollution control facilities exist within the proposed permit area. A small portion of the Grassy Trail Reservoir (less than 0.6 acres) lies within a corner of the permit area.

521.130 Landownership And Right Of Entry Maps

Ownership boundaries and the names of the present owners of record for surface lands as well as underground are depicted on Maps 5-2, Surface Ownership and 5-3, Subsurface Ownership.

Map 5-4B delineates the federal coal lease SL-068754 and UTU-78562, state lease ML 47711, ML49287 and ML 51744 and the Penta Creek fee lease held by WEST RIDGE Resources, Inc., which is the area for which WEST RIDGE Resources, Inc. Resources has the legal right to enter and begin coal mining and reclamation operations. Much of the Penta Creek Fee Lease is not included within the permit area at this time. A breakdown of the acreages of the lease areas are presented in Chapter 1 of this permit.

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521.140 Mine Maps And Permit Area Maps

The permit area proposed to be affected by the coal mining and reclamation operation is shown on Map 5-3. Permit renewals will be reapplied for on five year intervals.

521.141 The mining operation has been divided into five year mining blocks in an attempt to show future areas that will be mined under the permit renewals. The mining blocks are shown on Map 5-4B. All projections and timing are preliminary and general in nature and may change in the future depending on mining, marketing, environmental conditions and/or acquisition of additional state and federal reserves.

Surface support facilities in C Canyon will be utilized for the life of mine operations. The proposed mine surface facility area is depicted on Map 5-5, Surface Facility Map. Reclamation of the facilities will be performed following completion of mining activities and sealing of the portals.

521.142 The surface above mined out longwall panels may be subject to conditions associated with subsidence. Subsidence may occur under the mined out area.

Map 5-7 identifies the mining area for which planned subsidence mining methods will be used. Based on experience at other nearby mines located in the Book Cliffs (i.e. Soldier Creek, Sunnyside and Andalex Tower), a conservative angle of draw of 20 degrees was used to project the maximum extent of subsidence.

521.143 No underground development waste or excess spoil will be stored at the mine site.

521.150 Land Surface Configuration Map

Map 5-1 represents the existing land surface configuration in the proposed disturbed area. Areas of previous disturbance exist within the proposed disturbed area. These are shown on Map 5-1 and involve approximately 1.62 acres. Map 5-1 extends at least 100 feet beyond the area to be disturbed. Map 5-5 depicts the disturbed area boundary with regard to the proposed structures and facilities. All previous disturbance will be included within the proposed disturbed area boundary and included within the reclamation plan. The proposed disturbed area boundary is depicted on most 1" = 100' scale drawings regardless of subject covered.

521.160 Maps And Cross Sections Of Proposed Features For The Proposed Permit Area

Buildings, utility corridors and facilities, to be constructed and used in conjunction with the mine, are shown on Map 5-5.

The proposed surface disturbance area is shown on Map 5-5. This exhibit depicts the maximum potential disturbance around the facilities that would be used for the life of the mine. The proposed maximum disturbance area amounts to approximately 29 acres. This is composed of the anticipated on-the-ground disturbance (projected at about 25 acres) plus extra buffer acreage around the perimeter of the facility which would remain undisturbed. The proposed disturbed area will be the total disturbance needed for the life of the mine. The actual disturbed area will be reclaimed following the completion of underground mining activities.

The area to be affected during the permit term according to the mining sequence is depicted on Map 5-4A.

A bond will be posted for reclamation of the disturbed area acreage depicted on Map 5-5.

The coal pile area, truck loadout and associated facilities are shown on Map 5-5.

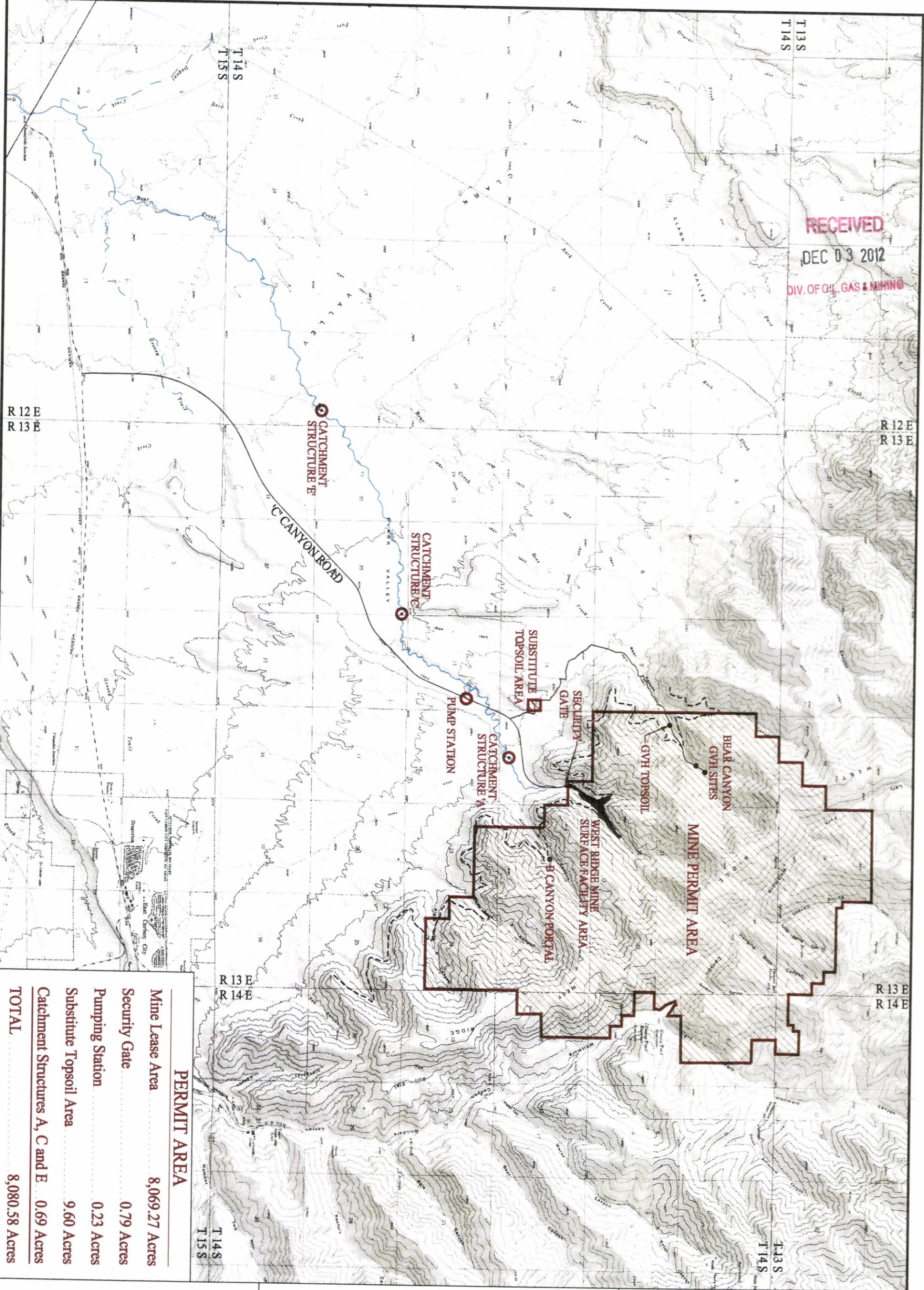
Noncoal waste will be stored in the main storage area immediately southwest of the shop area, as shown on Map 5-5. The locations of the fuel storage facility is shown

T133
T14S

RECEIVED
DEC 03 2012
DIV. OF OIL, GAS & MINING

R 12 E
R 13 E

R 12 E
R 13 E



PERMIT AREA	
Mine Lease Area	8,069.27 Acres
Security Gate	0.79 Acres
Pumping Station	0.23 Acres
Substitute Topsoil Area	9.60 Acres
Catchment Structures A, C and E	0.69 Acres
TOTAL	8,080.58 Acres

WEST RIDGE MINE
Map 1-0, Permit Map
Map 1-1, Location Map

DATE: 10-09-12 REV: 18 ACAD REF: Maps 1-0 and 1-1 Rev 18

LEGEND:

- Lease Areas
- Surface Facility Area
- GVH Site
- Outcrop

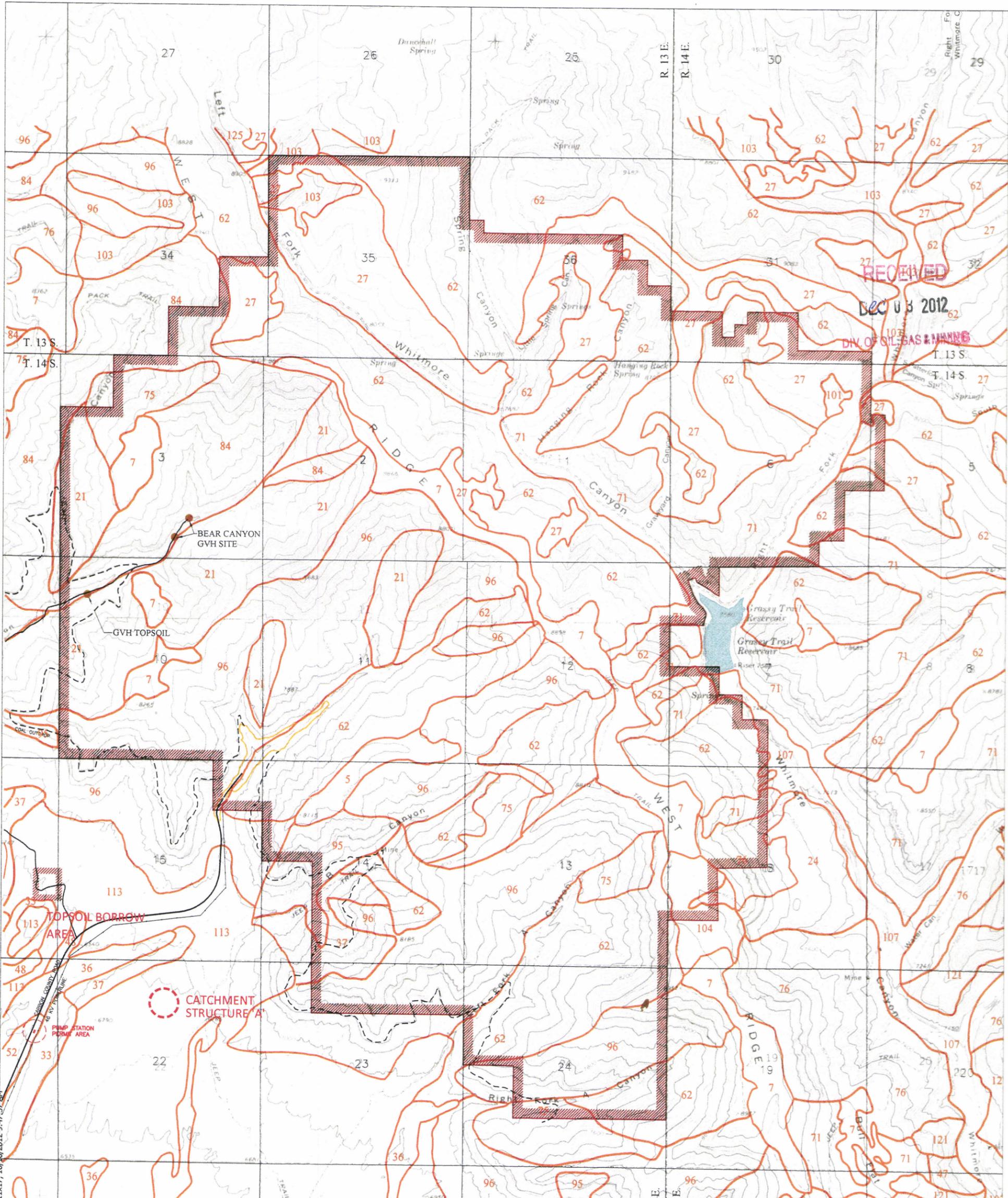


I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



WEST RIDGE
RESOURCES, INC.

SCALE: 1"=5000'

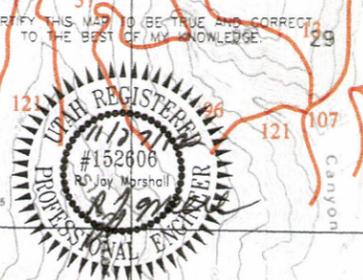


SOIL MAP UNITS

5	Beje complex	75	Perma family, 15 to 40 percent slopes
7	Beje-Trag complex	76	Perma family-Datino complex
21	Croydon loam, 8 to 30 percent slopes	84	Podol-Rock outcrop complex
24	Datino Variant very stony loam, 50 to 80 percent slopes	95	Rock outcrop
27	Doney-Toze families complex	96	Rock outcrop-Rubbleland-Travessilla complex
33	Gerst-Badland-Rubbleland complex, 15 to 50 percent slopes	101	Senchert loam, 3 to 15 percent slopes
36	Gerst-Strych-Badland complex, 3 to 50 percent slopes	103	Senchert-Toze family complex
37	Gerst-Strych-Badland complex, 50 to 70 percent slopes	104	Senchert family, 3 to 15 percent slopes
48	Haverdud loam, 1 to 8 percent slopes	107	Shupert-Winetti complex
49	Haverdud loam, alkali, 0 to 3 percent slopes	113	Strych very stony loam, 3 to 15 percent slopes
52	Hernandez family, 3 to 8 percent slopes	125	Unita-Toze families complex
62	Midfork family-Commodore complex		
71	Pathead extremely bouldery fine sandy loam, 40 to 70 percent slopes		

Catchment Structures C and E (Permit Areas)

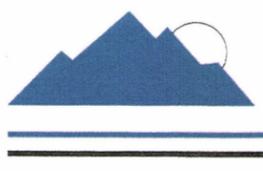
Catchment Structure C: Soil Unit 36
 Catchment Structure E: Soil Unit 49
 See Appendix 5-15; Attachment 11
 See Map 1-1 for Catchment Locations
 Source: Carbon County Soil Survey,
 U.S.D.A., Soil Conservation Service



WEST RIDGE MINE
Map 2-1
Regional Soil Map

LEGEND:

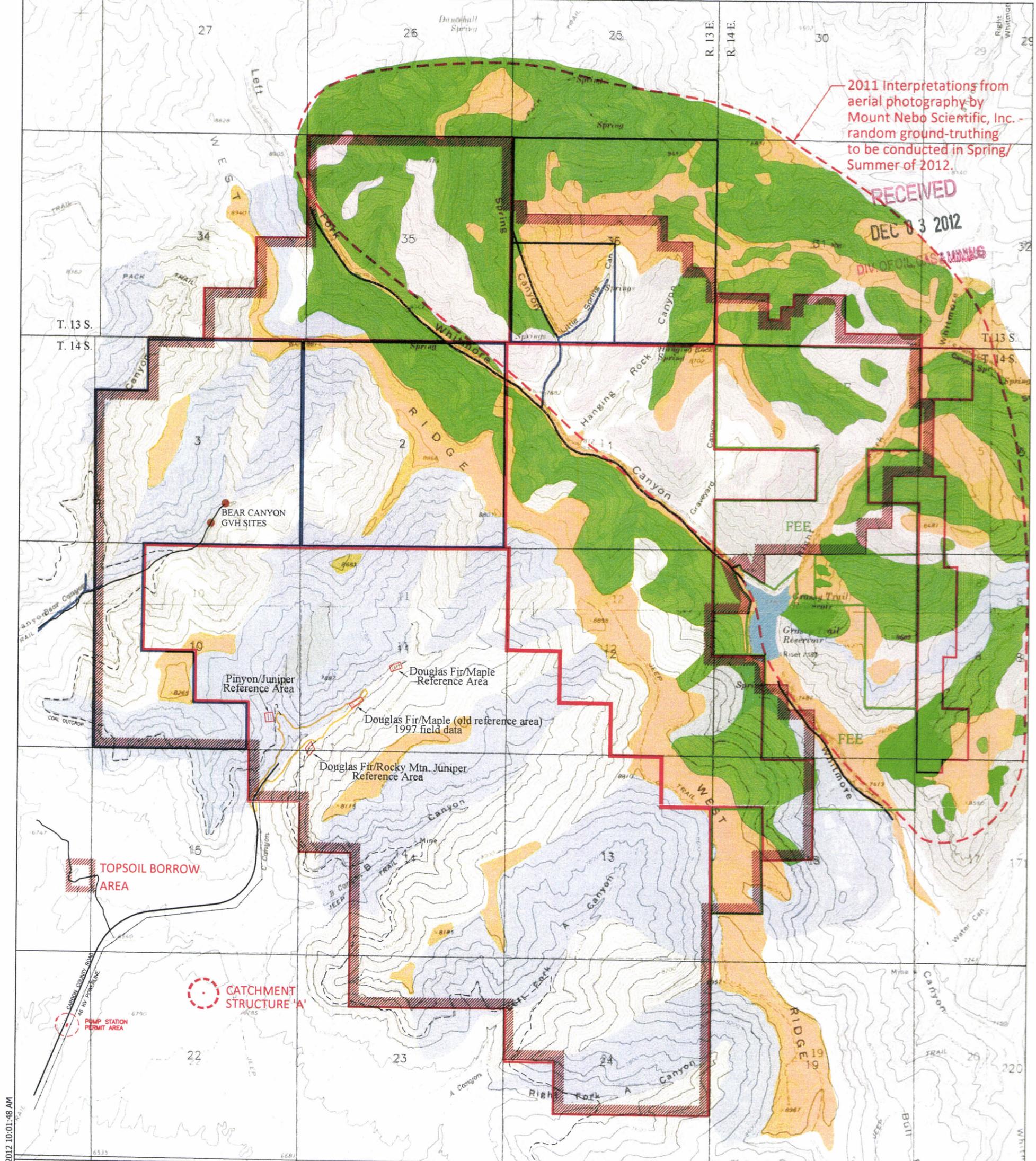
Permit Boundary	
Federal Lease	
State Lease	
Penta Creek Fee	
Surface Facility Area	
GVH Site	
Soil Mapping Boundary	
Soil Map Number	



WEST RIDGE
 RESOURCES, INC.

SCALE: 1"=2500'

C:\current-drawings\mhu-Maps\West-Ridge-Mine\Current-10-2012\Map2-1-REGSOIL-REV24.dwg - 5500-11x17-10/10/2012 9:47:37 AM



VEGETATION COMMUNITIES

Douglas Fir	
Pinyon/Juniper	
Sagebrush/Grass/Herbland	
Aspen	
Mountain Brush/Sagebrush	
Mixed Conifer	
Open Water	
Riparian	

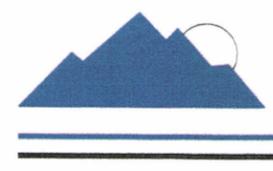
Note: Vegetation communities based on interpretations from aerial photography (8/20/97) with some ground-checking in 2003 by Mount Nebo Scientific, Inc.
 Note: See Appendix 3-12 for description of Whitmore Canyon riparian areas.

Catchment Structures C and E (Permit Areas)
 Catchment Structure C: Pinyon/Juniper
 Catchment Structure E: Sagebrush
 See Appendix 5-15; Attachment 11



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

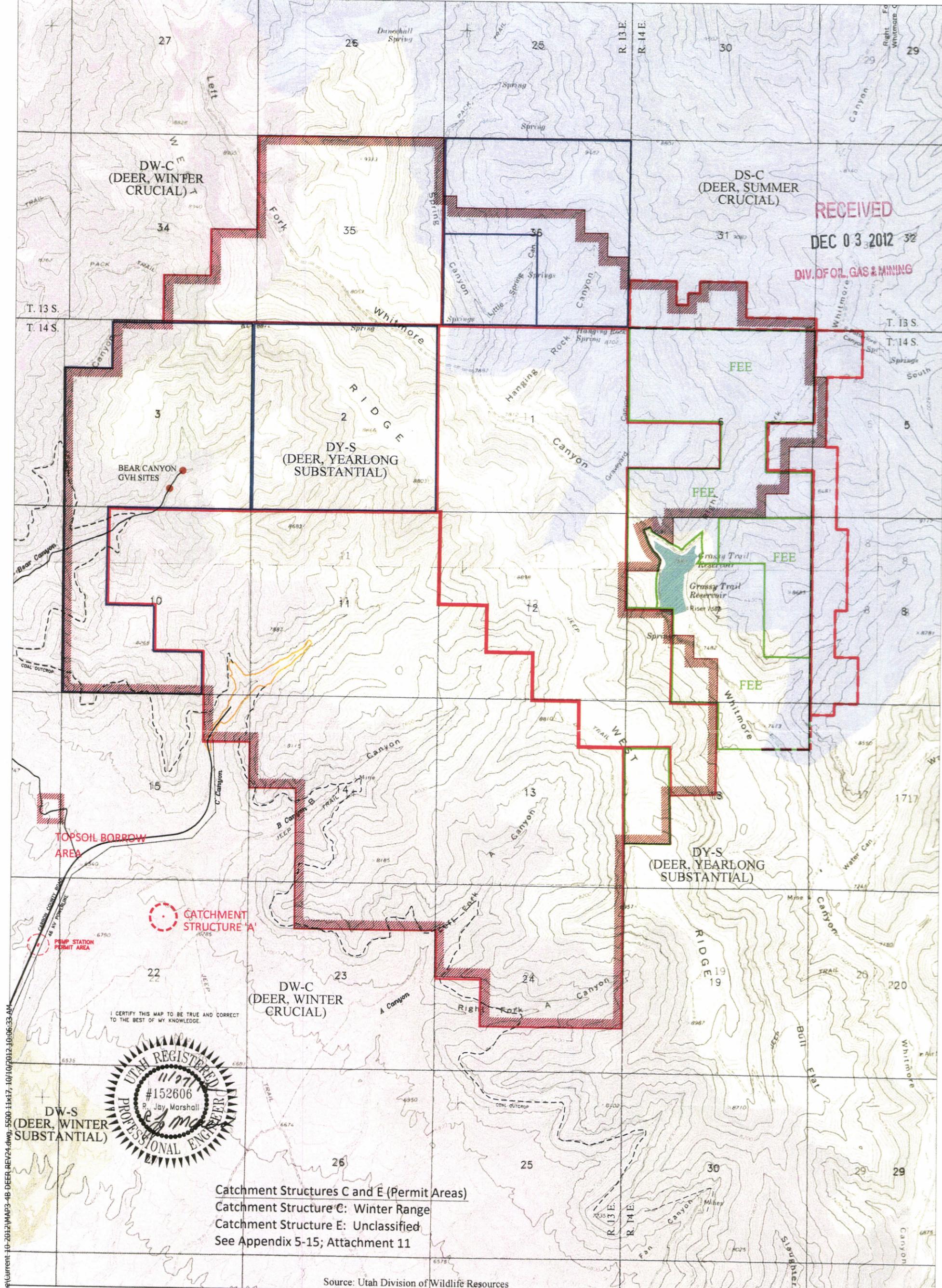


WEST RIDGE
 RESOURCES, INC.



SCALE: 1"=2500'

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



Catchment Structures C and E (Permit Areas)
 Catchment Structure C: Winter Range
 Catchment Structure E: Unclassified
 See Appendix 5-15; Attachment 11

Source: Utah Division of Wildlife Resources

WEST RIDGE MINE

Map 3-4B

Wildlife Map - Deer Range

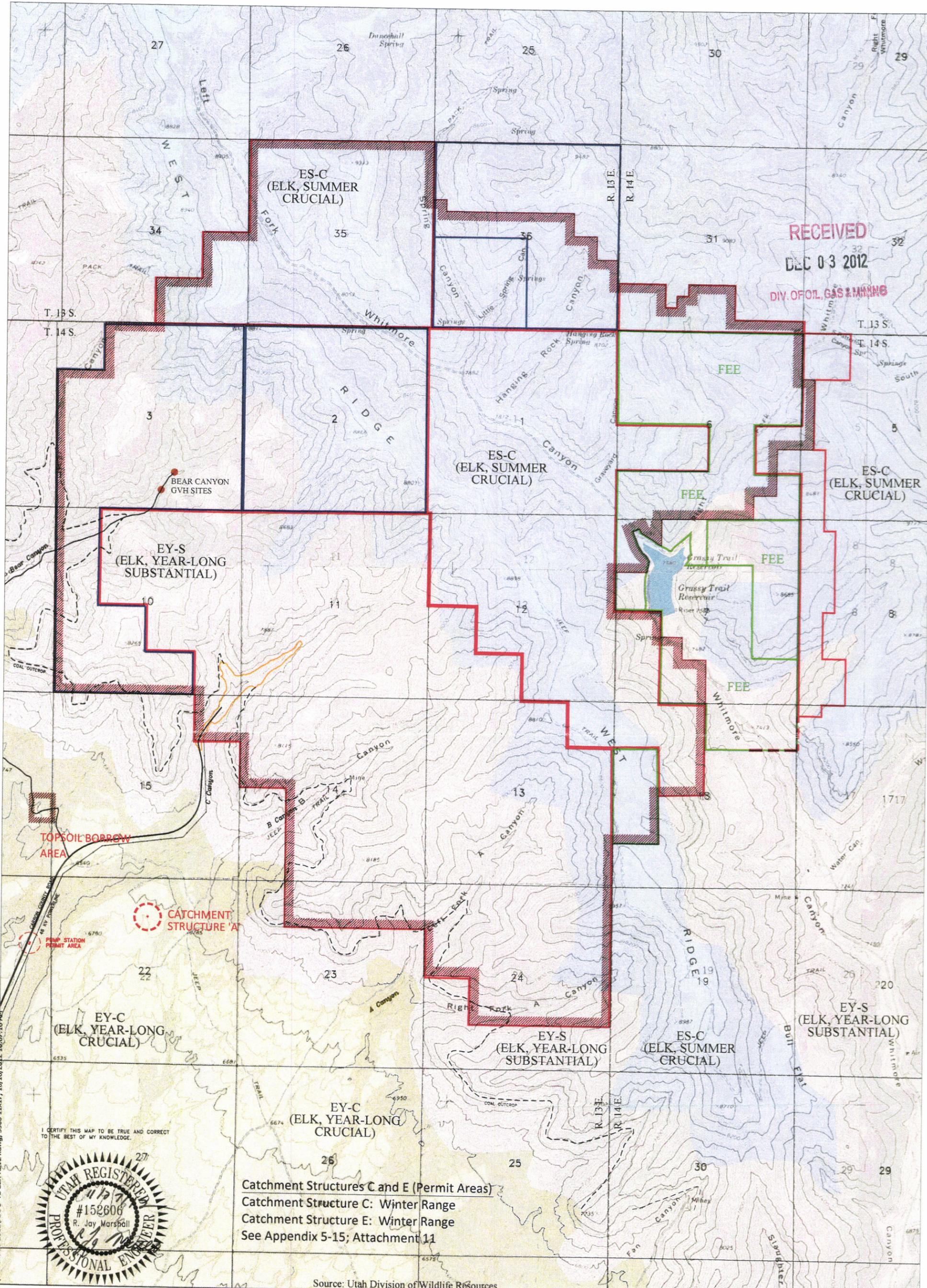
DATE: 10-09-12 REV: 24 ACAD REF: MAP3-4B DEER REV24

LEGEND:	
Permit Boundary	
Federal Lease	
State Lease	
Private Fee	
Surface Facility Area	
GVH Site	
DW-S	
DW-C	
DS-C	
DY-S	

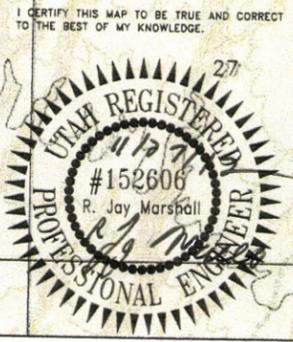
WEST RIDGE
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SCALE: 1"=2500'

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Catchment Structures C and E (Permit Areas)
 Catchment Structure C: Winter Range
 Catchment Structure E: Winter Range
 See Appendix 5-15; Attachment 11

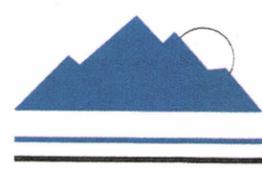
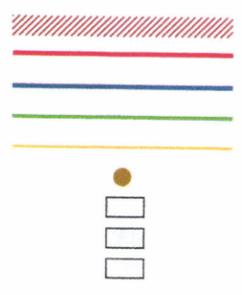
Source: Utah Division of Wildlife Resources

WEST RIDGE MINE

Map 3-4C

Wildlife Map - Elk Range

- Permit Boundary
- Federal Lease
- State Lease
- Private Fee
- Surface Facility Area
- GVH Site
- EY-C
- ES-C
- EY-S



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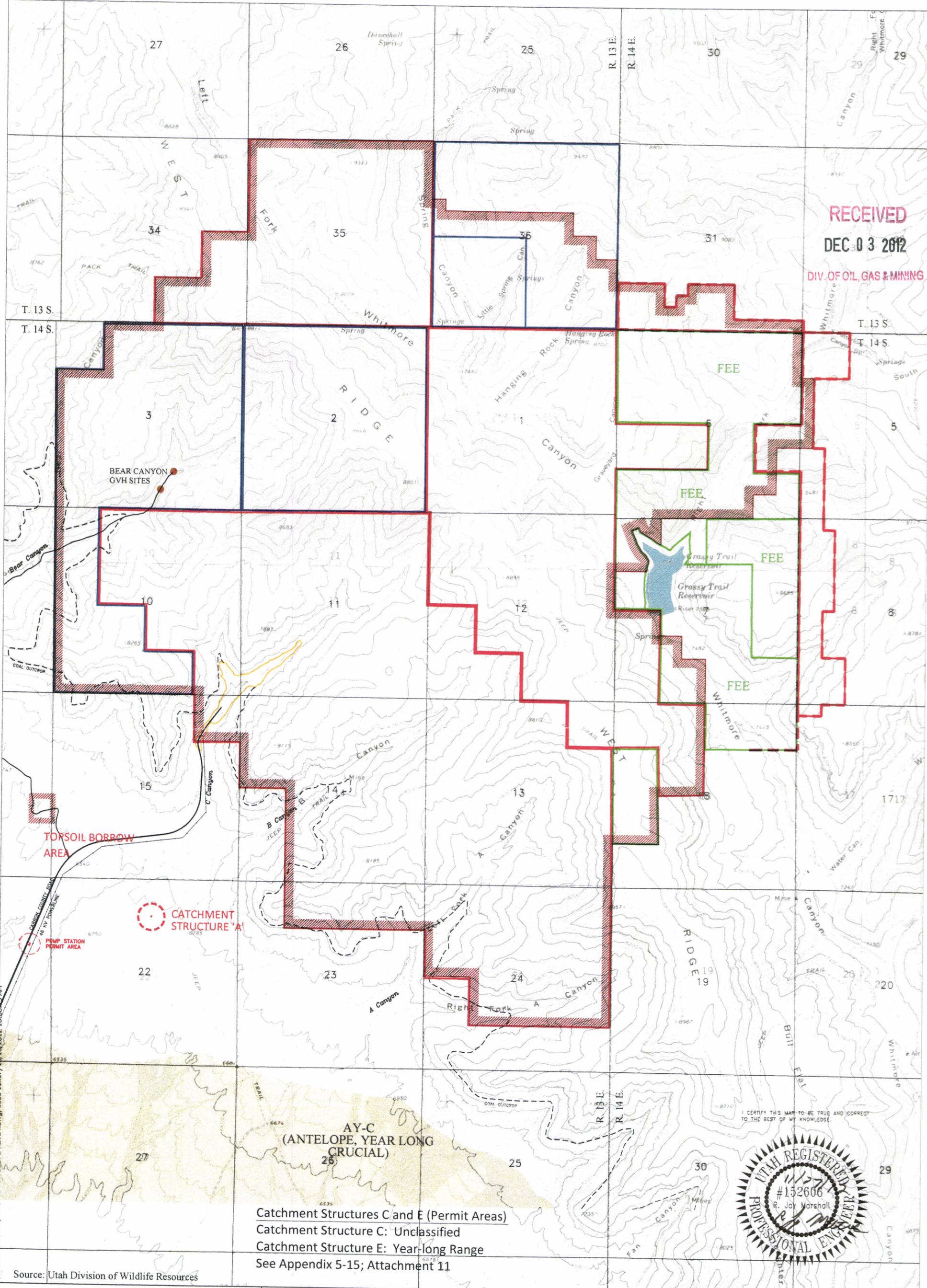


SCALE: 1"=2500'

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Catchment Structures C and E (Permit Areas)
 Catchment Structure C: Unclassified
 Catchment Structure E: Year-long Range
 See Appendix 5-15; Attachment 11

Source: Utah Division of Wildlife Resources

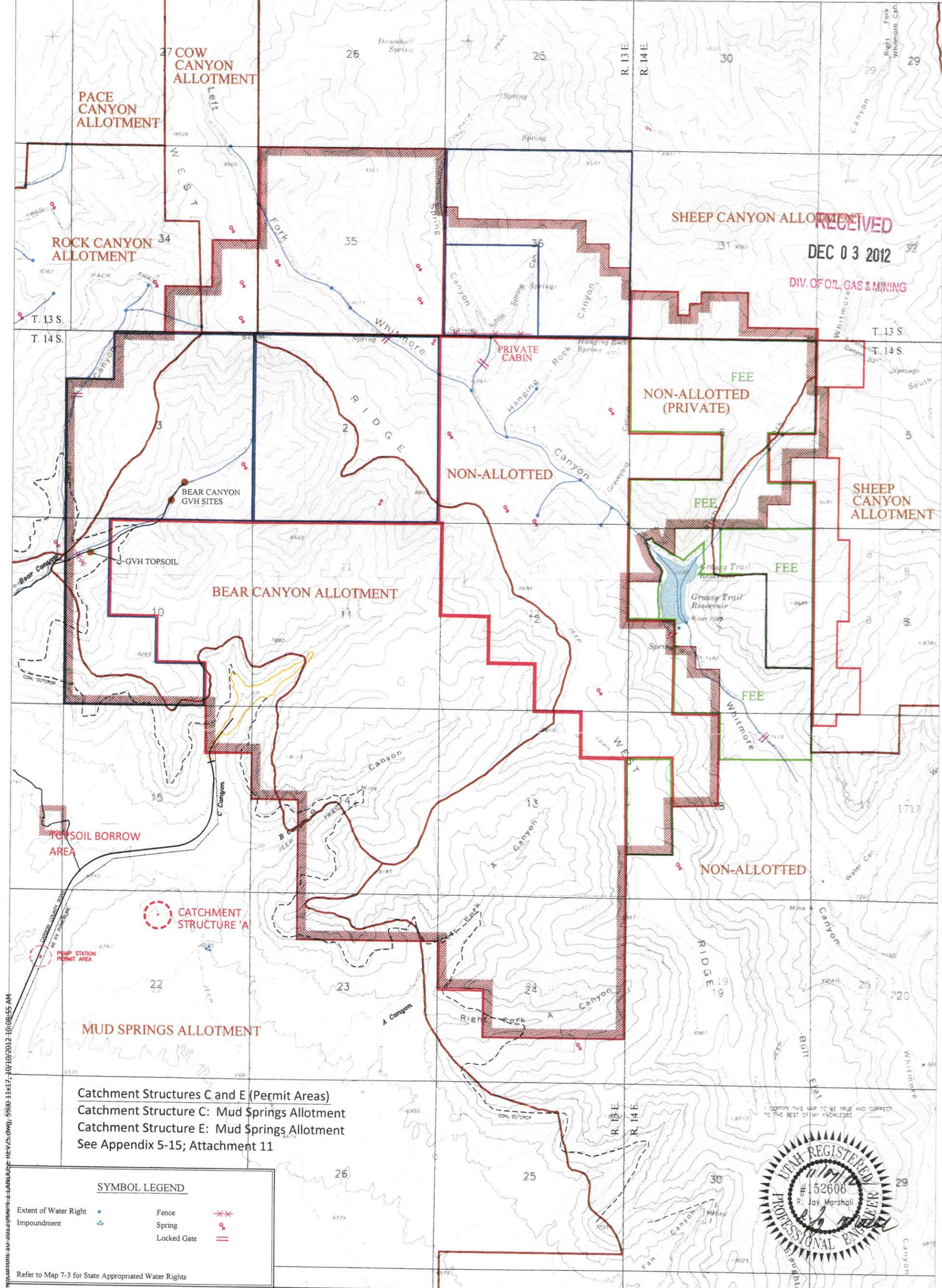
WEST RIDGE MINE
 Map 3-4D
Wildlife Map - Antelope Range

LEGEND:

- Permit Boundary
- Federal Lease
- State Lease
- Private Fee
- Surface Facility Area
- GVH Site
- AY-H

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SCALE: 1"=2500'



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 REV 25 DWG
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 10/10/2012 10:08:55 AM
 5800 11x17_10/10/2012 10:08:55 AM
 REV 25 DWG
 H:\PROJECTS\2012\10-10-2012\10-10-2012.dwg
 10/10/2012 10:08:55 AM

Catchment Structures C and E (Permit Areas)
 Catchment Structure C: Mud Springs Allotment
 Catchment Structure E: Mud Springs Allotment
 See Appendix 5-15; Attachment 11

SYMBOL LEGEND

- | | | | |
|-----------------------|---|-------------|-------|
| Extent of Water Right | ● | Fence | —x—x— |
| Impoundment | ⊙ | Spring | ⊙ |
| | | Locked Gate | == |

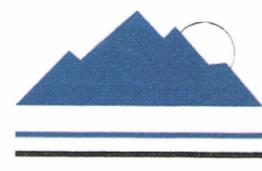
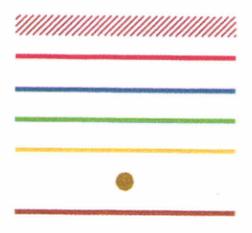
Refer to Map 7-3 for State Appropriated Water Rights

WEST RIDGE MINE

Map 4-1

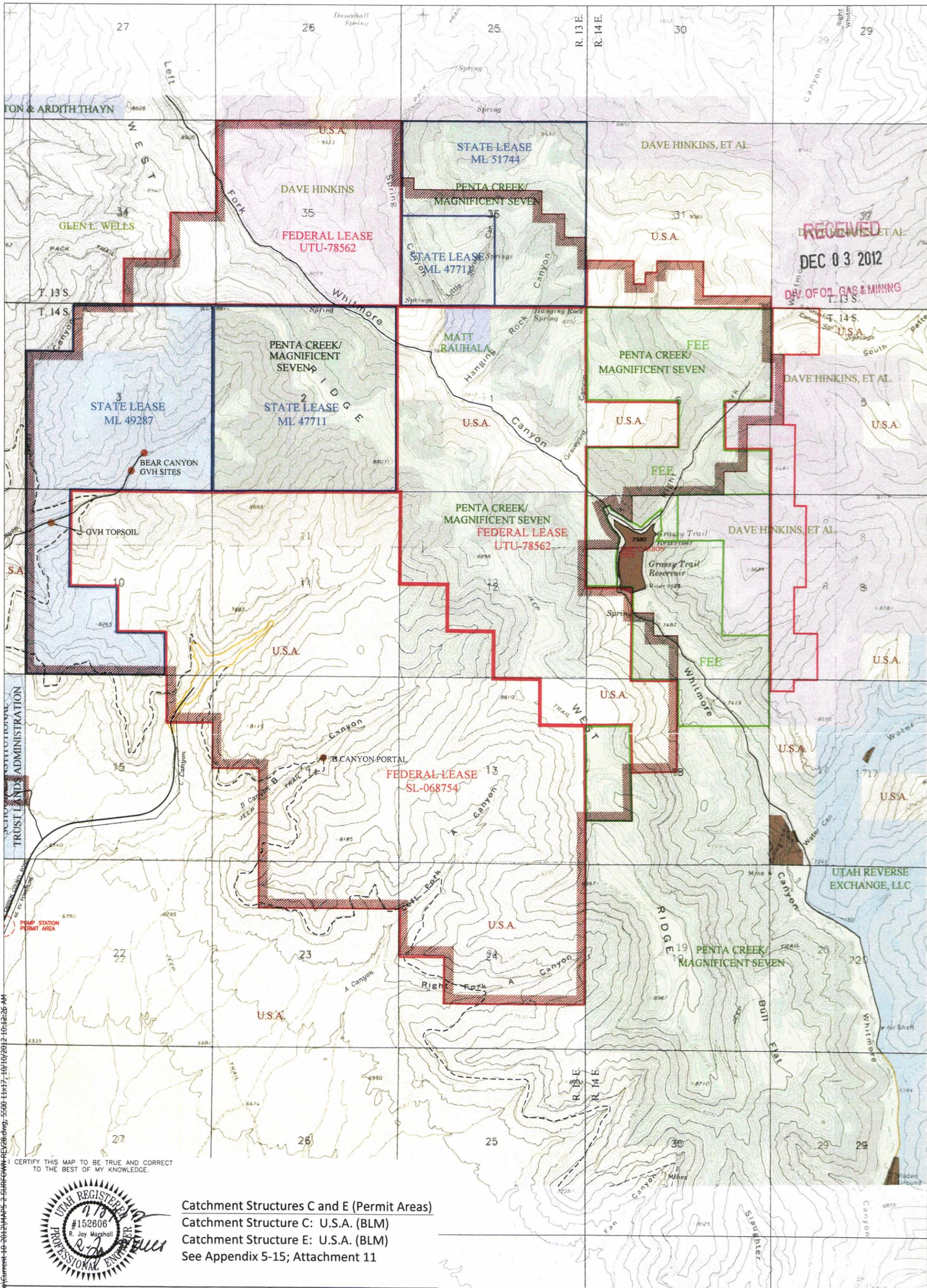
Existing Land Use

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



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SCALE: 1"=2500'



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Catchment Structures C and E (Permit Areas)
 Catchment Structure C: U.S.A. (BLM)
 Catchment Structure E: U.S.A. (BLM)
 See Appendix 5-15; Attachment 11

LEGEND:

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

WEST RIDGE MINE

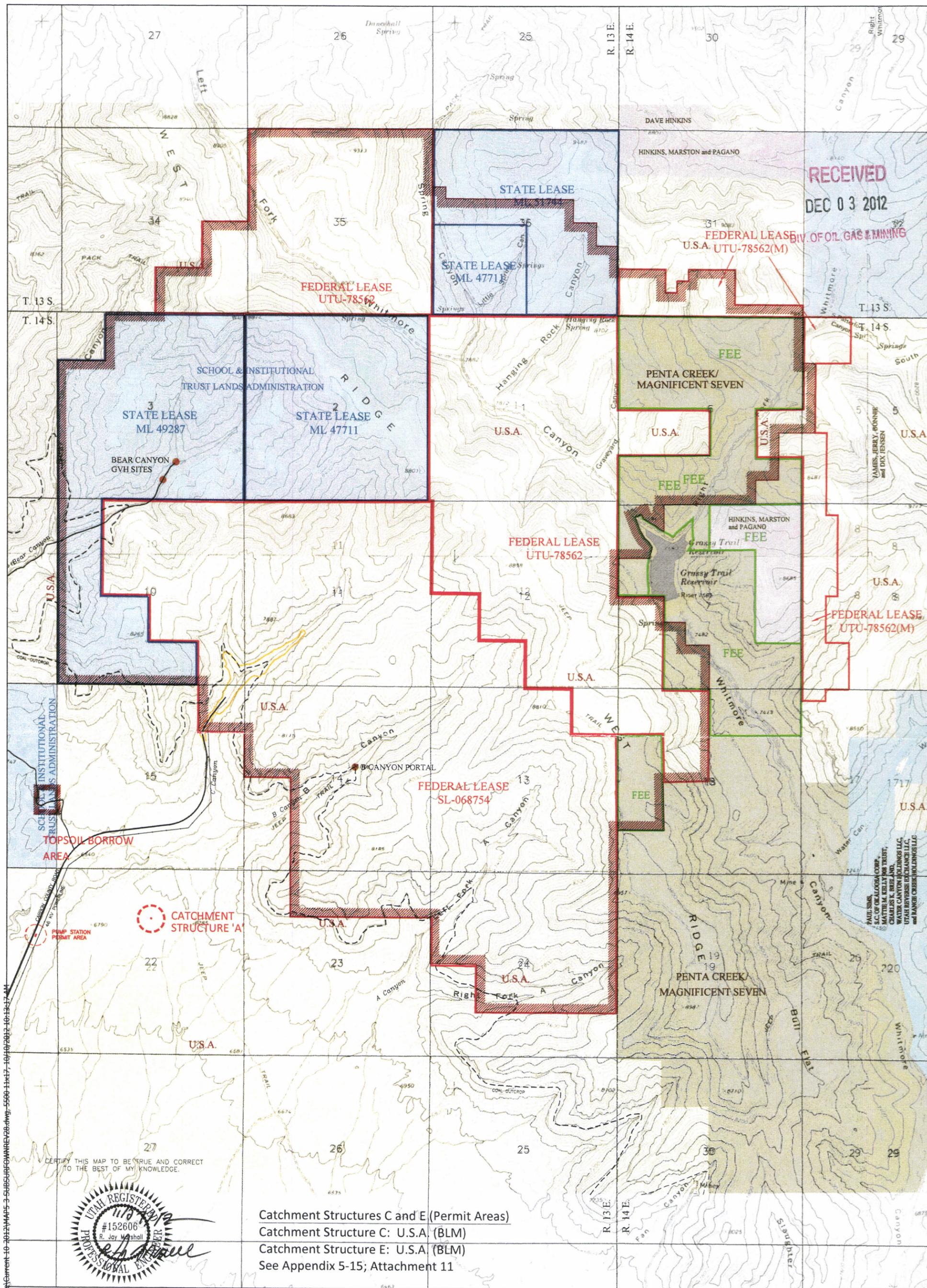
Map 5-2

Surface Ownership Map



SCALE: 1"=2500'

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Catchment Structures C and E (Permit Areas)
 Catchment Structure C: U.S.A. (BLM)
 Catchment Structure E: U.S.A. (BLM)
 See Appendix 5-15; Attachment 11

WEST RIDGE MINE

Map 5-3

Sub-surface Ownership Map

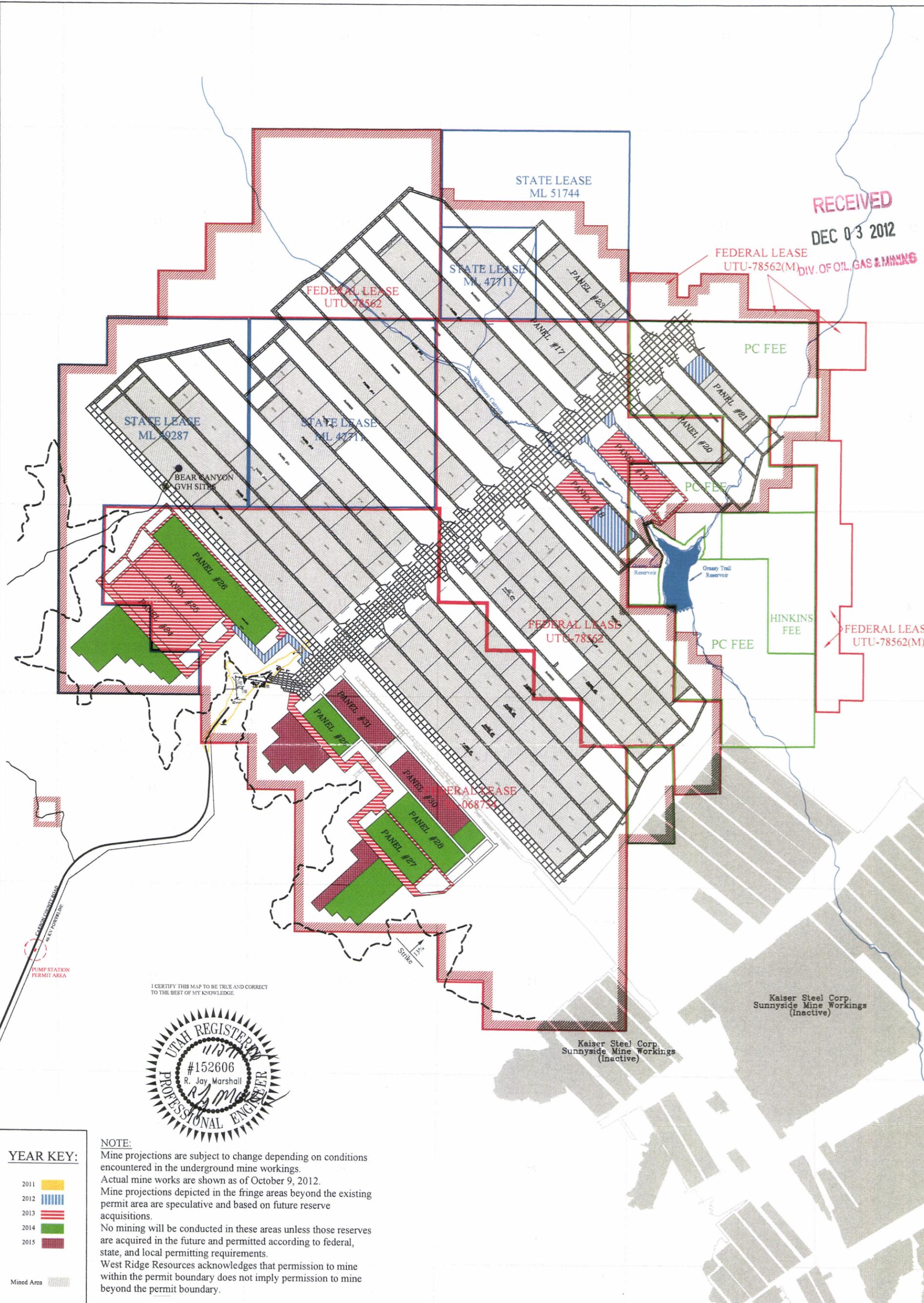
LEGEND:	
Permit Boundary	School Trust Lands (SITL)
Federal Lease	Penta Creek/Magnificent Seven
State Lease	U.S.A. (BLM)
Penta Creek Fee	Dave Hinkins, et al.
Surface Facility Area	East Carbon City
GVH Site	James T. Jensen, et al.
Outcrop	Paul Sims, et al.

WEST RIDGE
RESOURCES, INC.

SCALE: 1"=2500'

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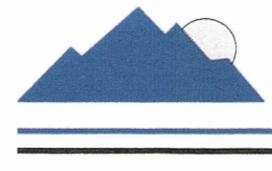
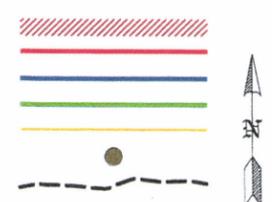
YEAR KEY:

2011	
2012	
2013	
2014	
2015	
Mined Area	

NOTE:
Mine projections are subject to change depending on conditions encountered in the underground mine workings. Actual mine works are shown as of October 9, 2012. 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.

WEST RIDGE MINE
Map 5-4A
Mining Projections

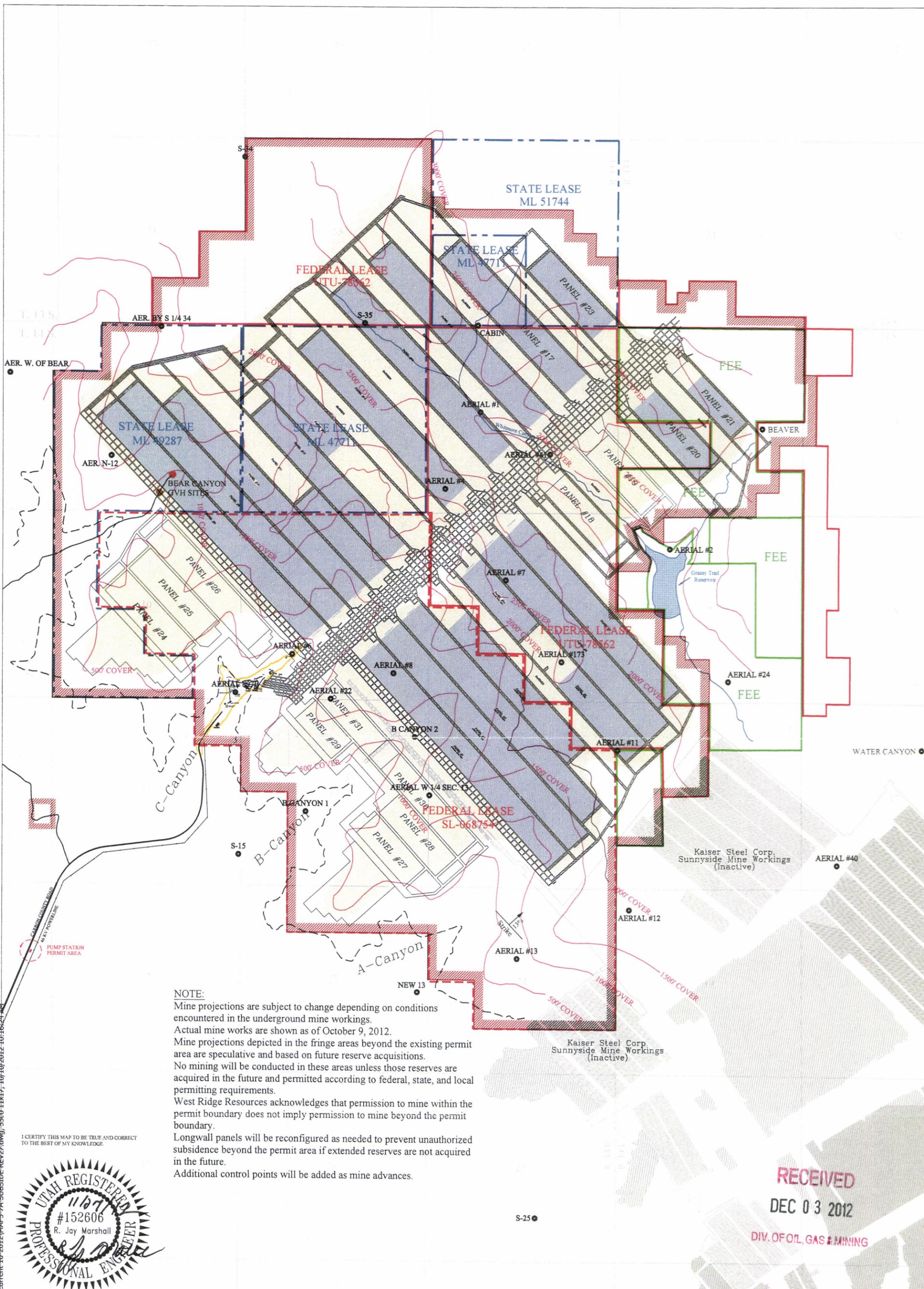
LEGEND:
Permit Boundary
Federal Lease
State Lease
Private Fee
Surface Facility Area
GVH Site
Outcrop



WEST RIDGE
RESOURCES, INC.

SCALE: 1"=2500'

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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 October 9, 2012. 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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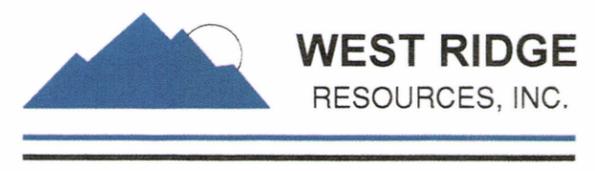
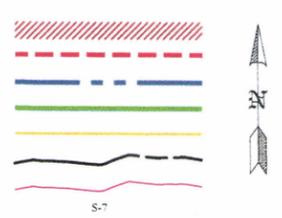
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WEST RIDGE MINE

Map 5-7

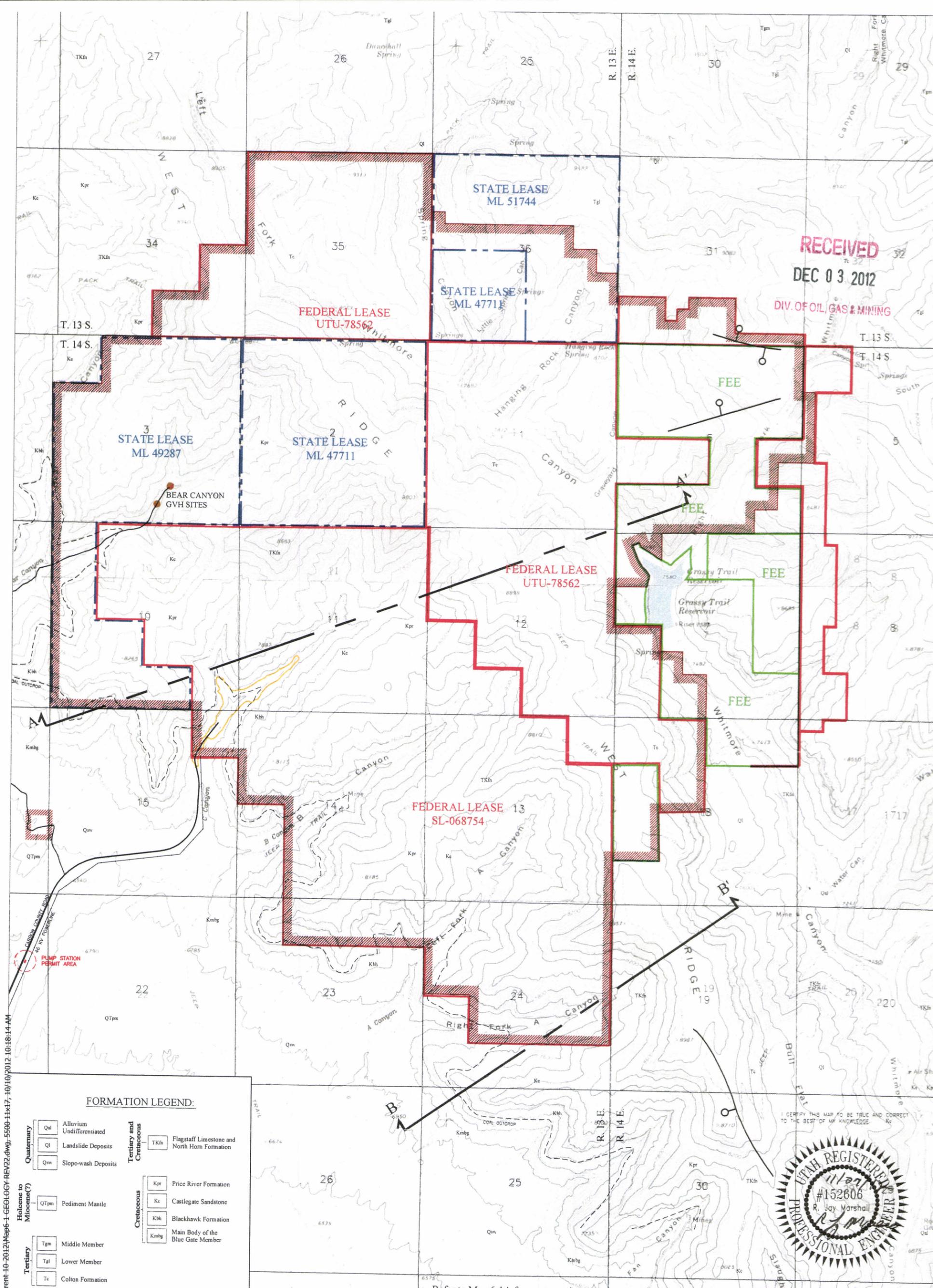
Subsidence Map

- LEGEND:**
- Permit Boundary
 - Federal Lease
 - State Lease
 - Private Fee
 - Surface Facility Area
 - Outcrop
 - Cover
 - Drill Hole
 - Possible Subsidence Area
 - Existing Photogrammetric Control Points



SCALE: 1"=2500'

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FORMATION LEGEND:

Quaternary	Qul Alluvium Undifferentiated	Tertiary and Cretaceous	TKln Flagstaff Limestone and North Horn Formation
	Ql Landslide Deposits		
	Qsw Slope-wash Deposits		
Holocene to Miocene(?)	QTpm Pediment Mantle	Cretaceous	Kpr Price River Formation
Tertiary	Tgm Middle Member		Kc Castlegate Sandstone
	Tgl Lower Member		Khh Blackhawk Formation
	Tc Colton Formation		Kmbg Main Body of the Blue Gate Member

LEGEND:

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



Refer to Map 6-1A for cross-section.

WEST RIDGE MINE
Map 6-1
Regional Geology Map

DATE: 10-09-12 REV: 22 ACAD REF: MAP6-1 GEOLOGY REV22

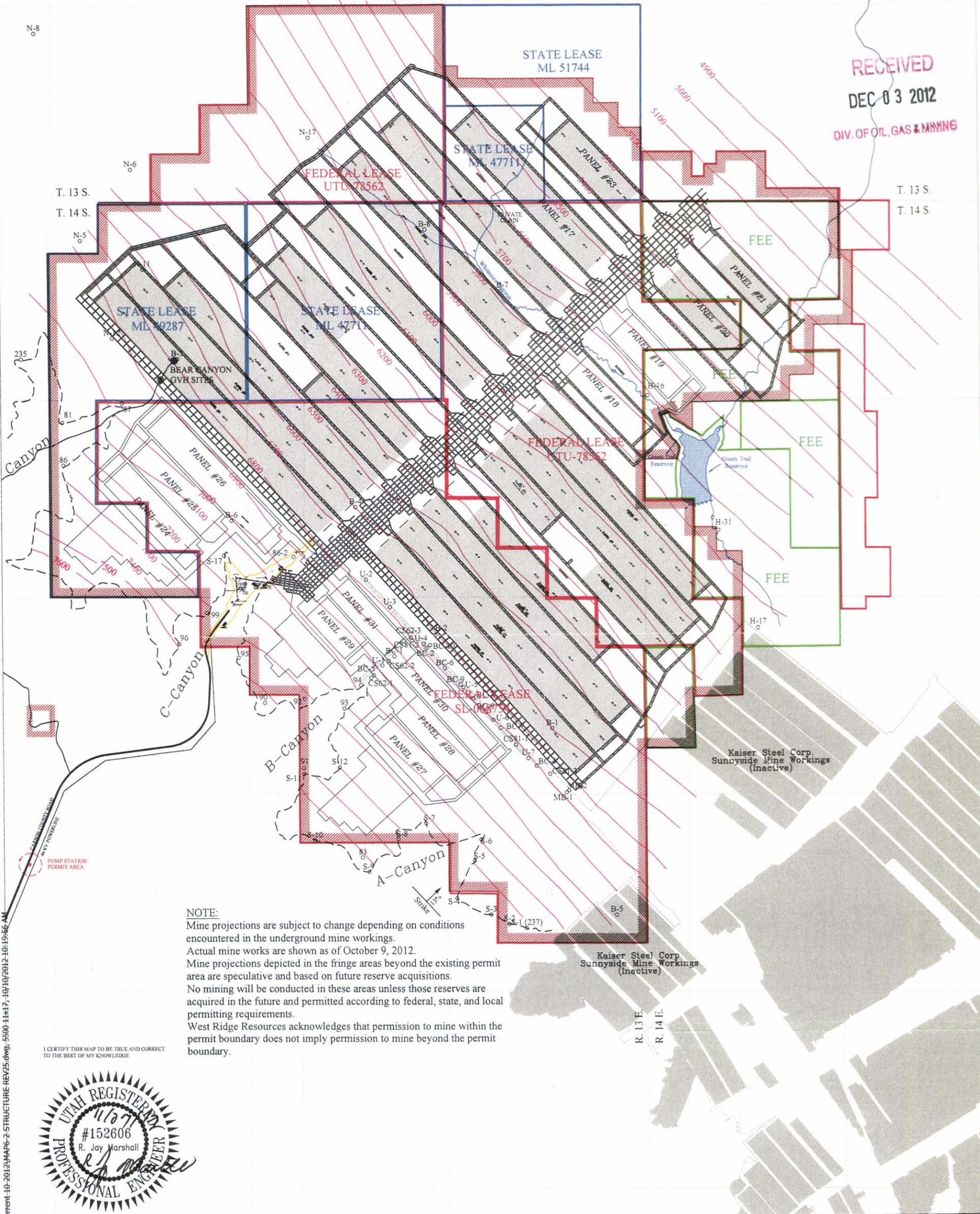


SCALE: 1"=2500'

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R. 13 E.
R. 14 E.

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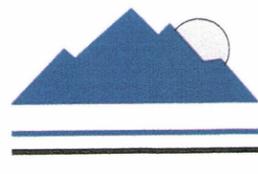
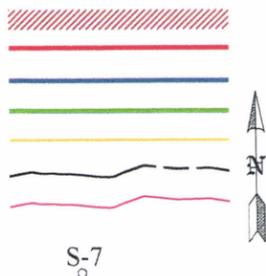
NOTE:
 Mine projections are subject to change depending on conditions encountered in the underground mine workings.
 Actual mine works are shown as of October 9, 2012.
 Mine projections depicted in the fringe areas beyond the existing permit area are speculative and based on future reserve acquisitions.
 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.

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



WEST RIDGE MINE
Map 6-2
Coal Seam Structure Map

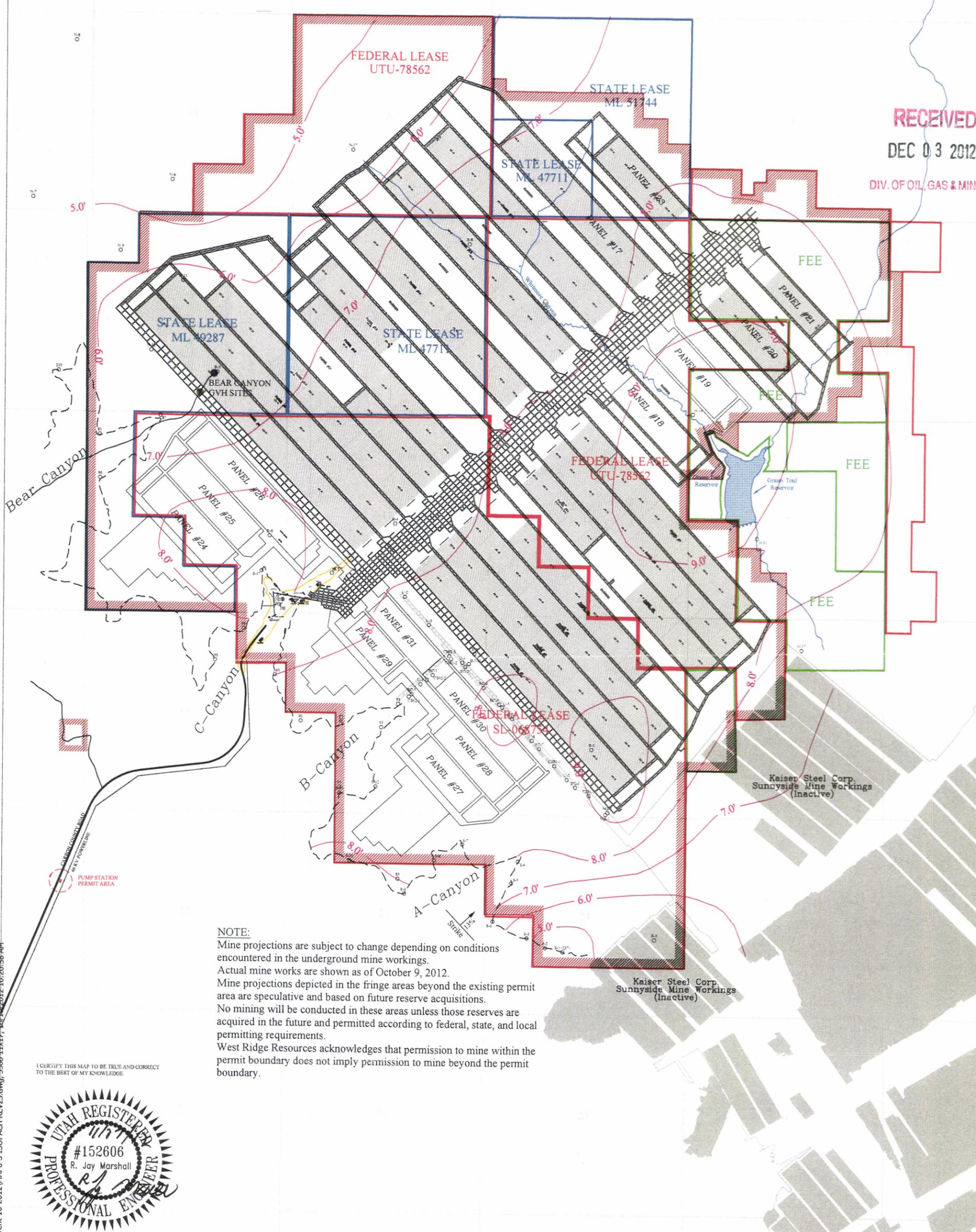
- LEGEND:**
- Permit Boundary
 - Federal Lease
 - State Lease
 - Pentacreek Fee
 - Surface Facility Area
 - Outcrop
 - Structure Contour (Base of Lower Sunnyside Seam)
 - Drill Hole/Channel Samples



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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 October 9, 2012.
 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.

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



WEST RIDGE MINE
Map 6-3
Lower Sunnyside Coal Seam
Isopach Map

DATE: 10-09-12 REV: 25 ACAD REF: MAP6-3 ISOPACH REV25

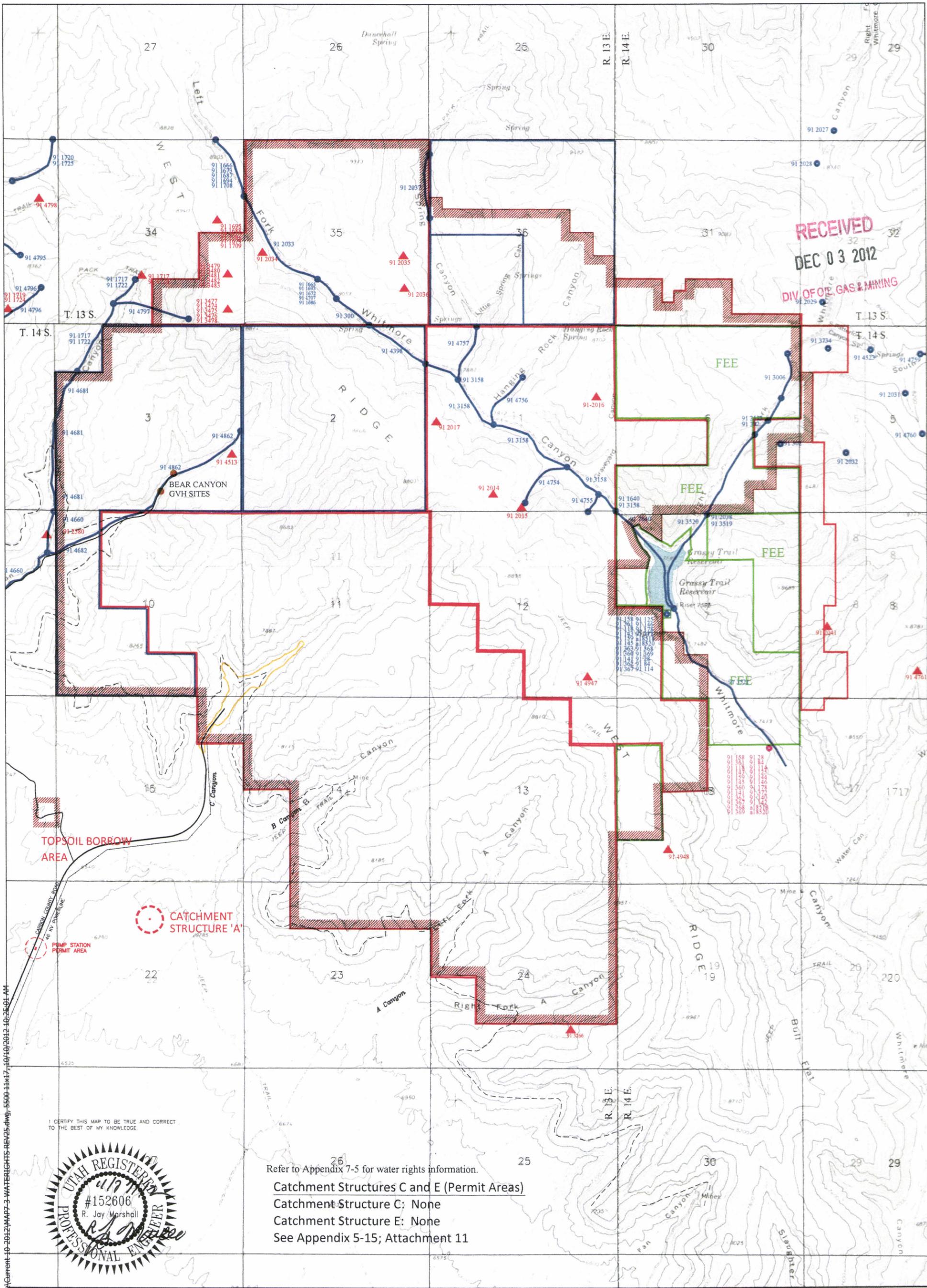
LEGEND:

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



SCALE: 1"=2500'

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FEE

FEE

FEE

FEE

TOPSOIL BORROW
AREA

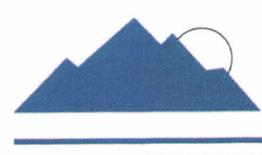
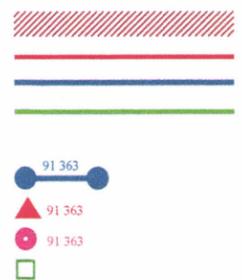
CATCHMENT
STRUCTURE 'A'



Refer to Appendix 7-5 for water rights information.
 Catchment Structures C and E (Permit Areas)
 Catchment Structure C: None
 Catchment Structure E: None
 See Appendix 5-15; Attachment 11

WEST RIDGE MINE
 Map 7-3
 Water Rights

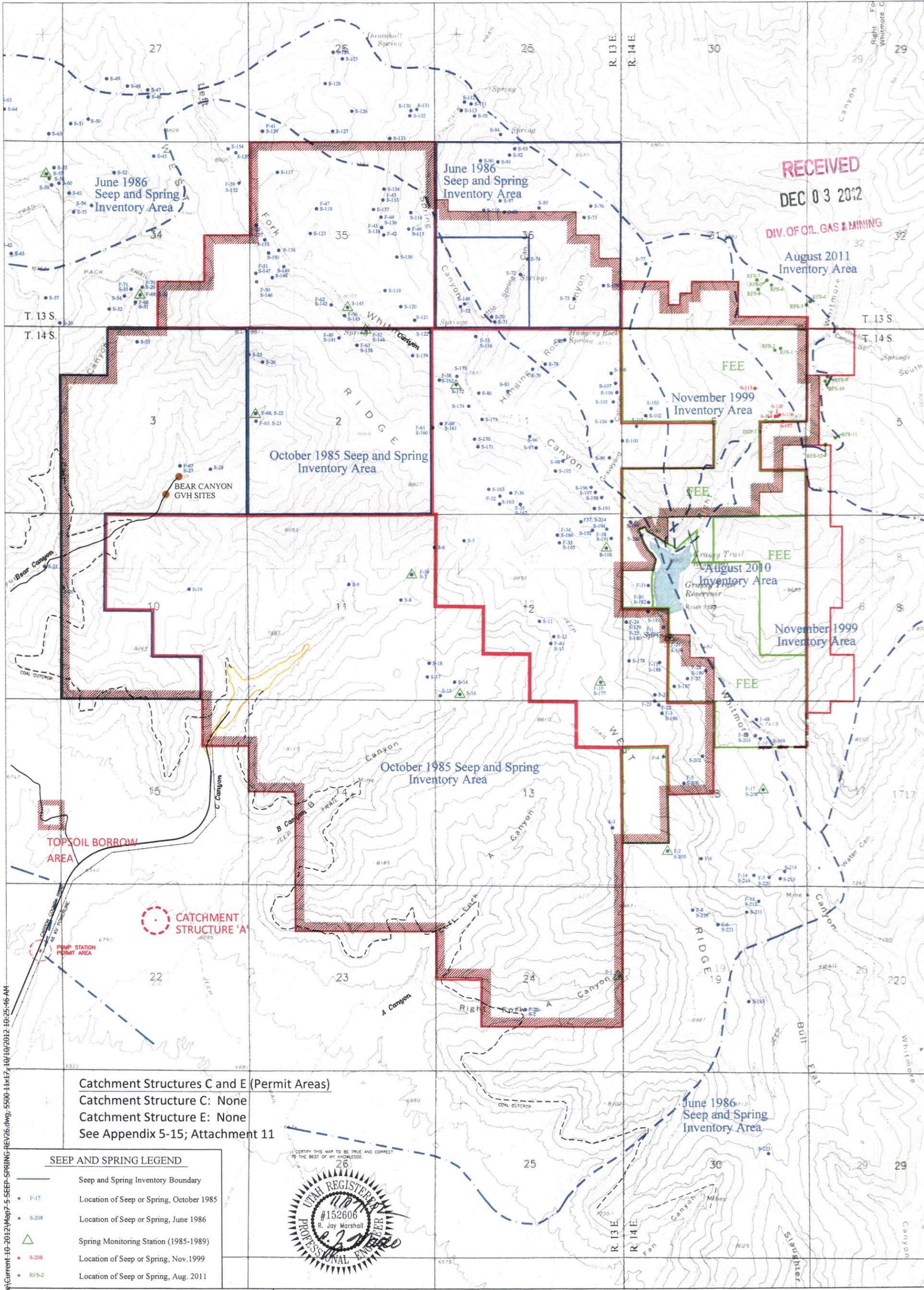
- LEGEND:**
 Permit Boundary
 Federal Lease
 State Lease
 Penta Creek Fee
 Surface Water Right:
 Point to Point
 Spring
 Ground Water Right
 Municipal Water System Intake



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SCALE: 1"=2500'

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Catchment Structures C and E (Permit Areas)
 Catchment Structure C: None
 Catchment Structure E: None
 See Appendix 5-15; Attachment 11

SEEP AND SPRING LEGEND

	Seep and Spring Inventory Boundary
	Location of Seep or Spring, October 1985
	Location of Seep or Spring, June 1986
	Spring Monitoring Station (1985-1989)
	Location of Seep or Spring, Nov. 1999
	Location of Seep or Spring, Aug. 2011

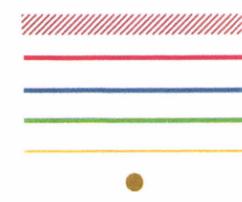


WEST RIDGE MINE

Map 7-5

Seep/Spring Survey Map

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



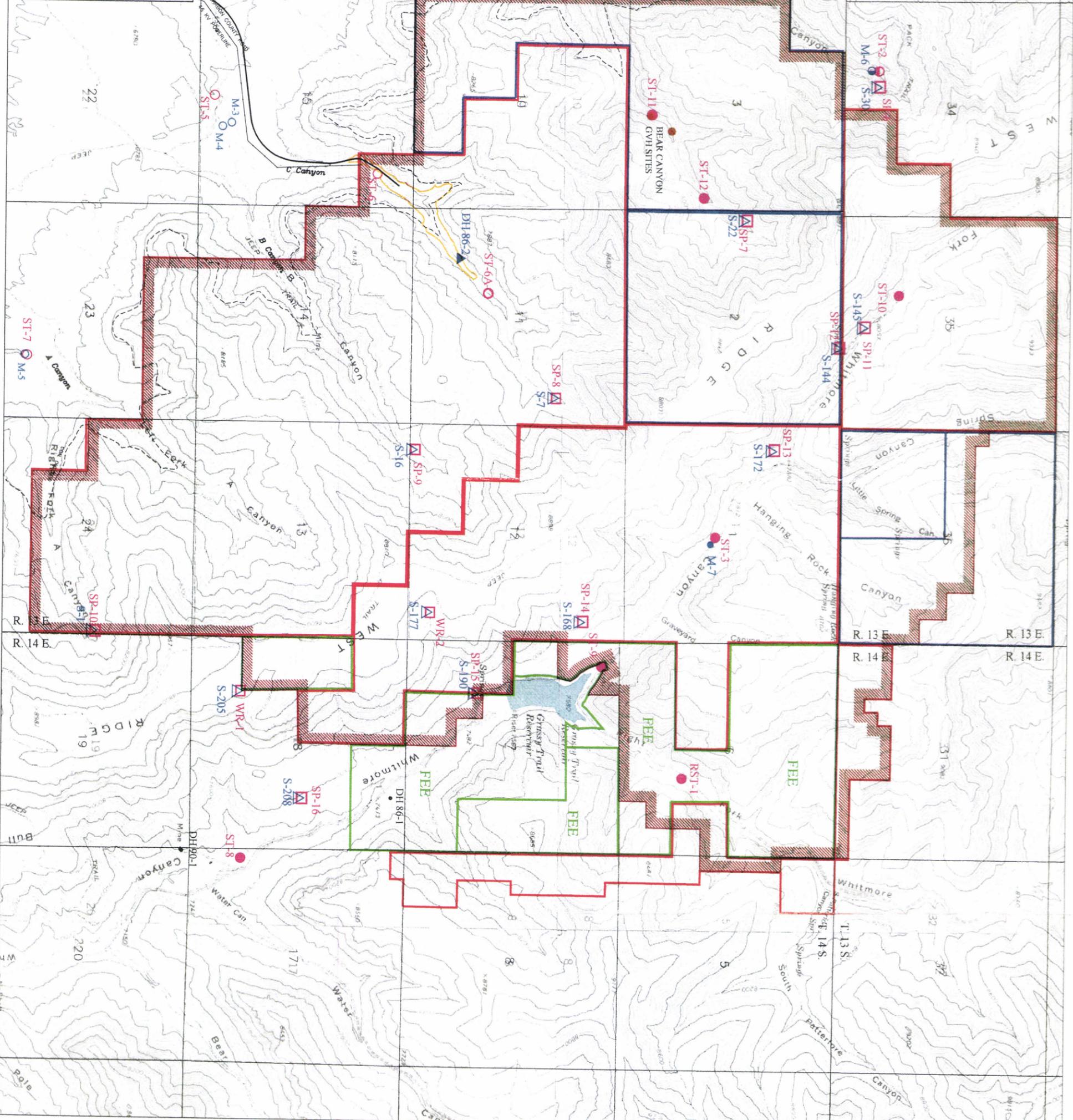
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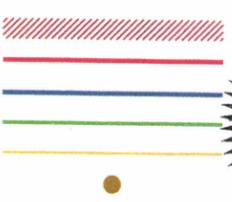
LEGEND

1985/1986		1987 and later	
Spring Monitoring Station	▽ S-177	Perennial Stream Flow Monitoring Station	◻ WR-2
Drill Hole Water Monitoring Location	▲	Ephemeral Stream Flow Monitoring Station	○ ST-7
Ephemeral Stream Flow Monitoring Station	○ M-5	Intermittent Stream Flow Monitoring Station	○ ST-2
Intermittent Stream Flow Monitoring Station	○ M-6	Perennial Stream Flow Monitoring Station	● ST-3
Perennial Stream Flow Monitoring Station	● M-7		

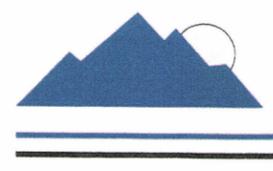


WEST RIDGE MINE
 Map 7-6
 Hydrologic Monitoring Map
 (Historical Monitoring Locations)

- LEGEND:**
- Permit Boundary (hatched lines)
 - Federal Lease (red line)
 - State Lease (blue line)
 - Penta Creek Fee (green line)
 - Surface Facility Area (yellow line)
 - GVH Site (brown dot)



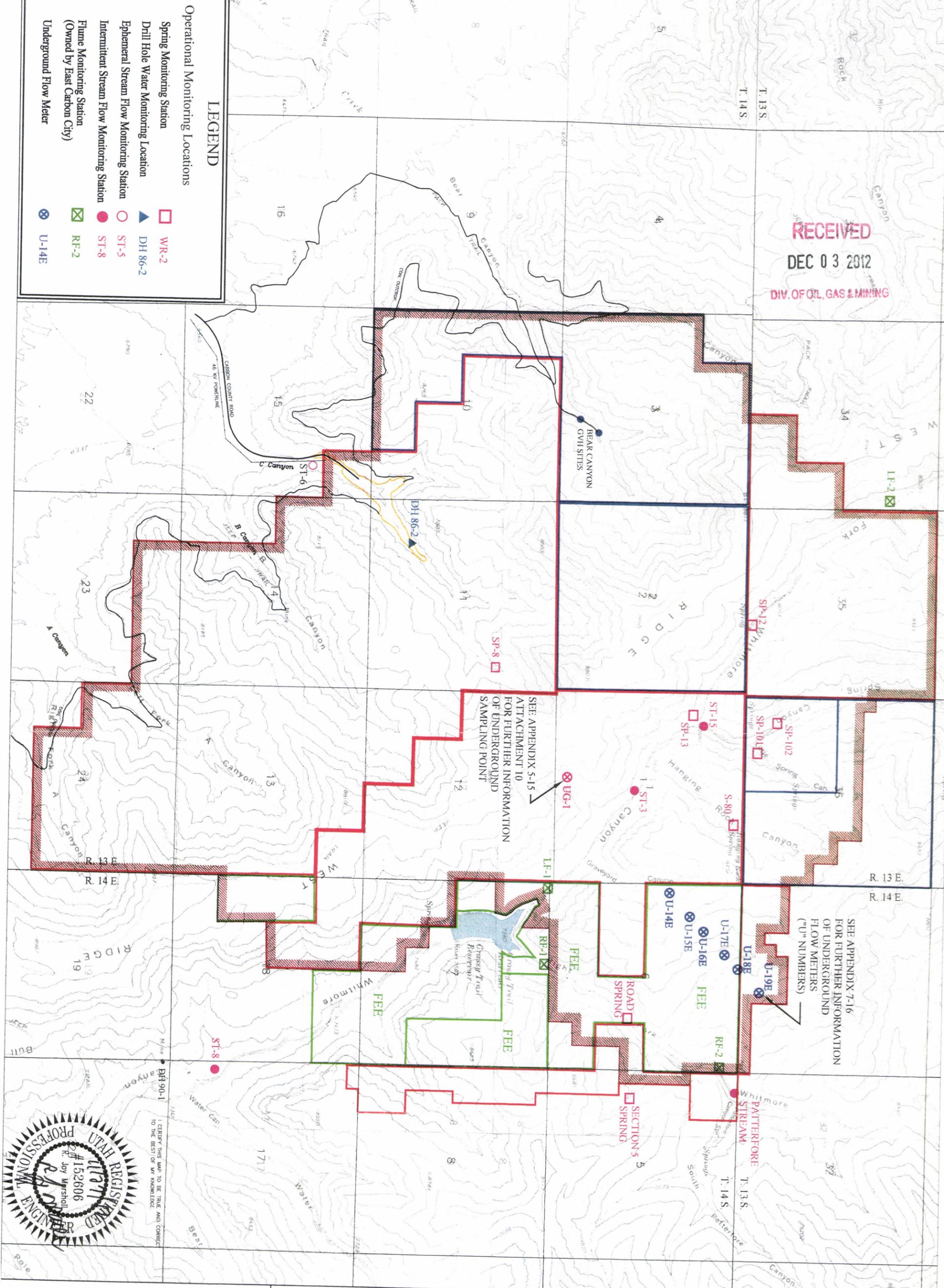
1. CERTIFY THAT YOU ARE THE ENGINEER AND CONDUCT TO THE BEST OF YOUR KNOWLEDGE.



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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
- Flume Monitoring Station (Owned by East Carbon City): ⊠ RF-2
- Underground Flow Meter: ⊗ U-14E

SEE APPENDIX 5-15
 ATTACHMENT 10
 FOR FURTHER INFORMATION
 OF UNDERGROUND
 SAMPLING POINT

SEE APPENDIX 7-16
 FOR FURTHER INFORMATION
 OF UNDERGROUND
 FLOW METERS
 ("U" NUMBERS)

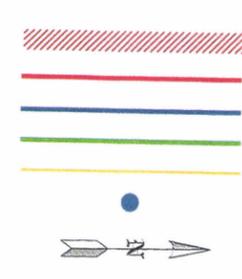


I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

WEST RIDGE MINE
 Map 7-7
 Operational Monitoring Locations

LEGEND:

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



SCALE: 1" = 2500'

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LEFT FORK
 WATERSHED

RIGHT FORK
 WATERSHED

STATE LEASE
 ML 51744

FEDERAL LEASE
 UTU-28562

STATE LEASE
 ML 47715

STATE LEASE
 ML 49287

STATE LEASE
 ML 47715

FEDERAL LEASE
 UTU-28562

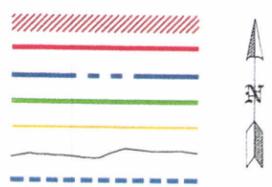
FEDERAL LEASE
 SL-06875



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

WEST RIDGE MINE
 Map 7-8
 Whitmore Canyon
 Watershed Map

- LEGEND:**
- Permit Boundary
 - Federal Lease
 - State Lease
 - Private Fee
 - Surface Facility Area
 - Outcrop
 - Watershed Boundary



10/10/2012 10:28:51 AM
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 WATERSHED