

C/025/005 Incoming



Alton Coal Development, LLC

463 North 100 West, Suite 1

Cedar City, Utah 84720

Phone (435) 867-5331 / Fax (435) 867-1192

11/30/2017

Daron R. Haddock
Coal Program Manager
Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Subject: **Submission of Pre-blast Surveys at the NPL, Alton Coal Development, LLC, Coal Hollow Mine, Kane County, Utah, C/025/0005**

Dear Mr. Haddock,

Alton Coal Development, LLC (ACD) is submitting pre-blast surveys that were recently completed near the North Private Lease of the Coal Hollow Mine.

Please do not hesitate to contact me if you have any questions 435-691-1551.

Sincerely

B. Kirk Nicholes
Environmental Specialist

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**PRE-BLASTING SURVEY
GARY KALPAKOFF PROPERTY
FOR
ALTON COAL DEVELOPMENT, LLC
COAL HOLLOW MINE**

**BY
DAN W. GUY, P.E.
OCTOBER 25, 2017**

**RECEIVED
DEC 01 2017**

DIV. OF OIL, GAS & MINING

PRE-BLASTING SURVEY

GARY KALPAKOFF PROPERTY

Introduction

A pre-blasting survey was conducted on the structures at the Gary Kalpakoff property on October 25, 2017, for the Alton Coal Development, LLC Coal Hollow Mine. The survey was conducted by Dan W. Guy, a registered professional engineer in the State of Utah, P.E. No. 154168. Alton Coal Development was represented by Mr. Andrew Christensen, P.E., Technical Services Manager. The property owner, Mr. Gary Kalpakoff, was present throughout the survey. This pre-blasting survey was conducted in accordance with, and per the requirements of, State of Utah Coal Mining Rules, R645-301-524.300 through R645-301-524.350.

General

The Gary Kalpakoff home and shed are located approximately 2896' northwest of the northwest corner of the Coal Hollow Mine North Private Lease Permit Area boundary, and the shop is located approximately 2680' northwest of that same corner, as shown on Plate 1 of this report. The shop is just southwest of the Cox property sheds shown on that Plate.

The structures examined were as follows:

- 1-House
- 2-Shed (Near House)
- 3-Shop (Including old shed behind shop)

The structures are shown on Plate 2 of this report. The home and other structures are located in an open, gentle-sloping area, which minimizes the potential for damage from slides or falling objects. The house was estimated to have been built about 1995. The shed near the house was obviously much older, but the owner did not have the actual construction date. The shop

was estimated to have been built around 1989. There is also an older wooden shed behind the barn. No date of construction was given for the shed.

Procedure

Each structure was examined and photographed to document existing conditions prior to initiation of the nearest blasting. A description of each structure, including construction, foundation and present condition is provided in this report, along with numerous photos on Plates 3 through 16. It should be noted that the purpose of this survey is to document pre-blast conditions of the structures and not to try and predict or assess potential for damage from blasting. It should be further noted that all of the structures are greater than one-half mile from the nearest corner of the Alton Coal Hollow Mine North Private Lease Permit Area boundary, and although the regulations do not require pre-blast inspections at this distance, the service has been offered at no cost to the homeowners by the company.

Structure Descriptions

House – The house is basically wood frame construction with vinyl siding, and a metal roof. The foundation is concrete footers and walls. There is also a raised deck with a wood floor and metal roof along the front and east side of the house. The deck is supported with 6"x6" wooden posts on concrete pillars. The house exterior is shown on Plate 3 of this report.

The house has three levels, a main ground floor, full finished basement and an upstairs living area. The house is constructed to modern standards, and there were no problems with stability noted during this inspection.

The main level entry, living room and kitchen area all have a wood laminate floor and textured and painted sheetrock walls and ceilings. There is an area of ceramic tile behind the stove in the kitchen. There is also a wood burning stove in the living room, with an area of tile beneath the stove and on the walls up to the window level in that area. The main floor also has

a utility room and bathroom with wood floors and painted sheetrock walls and ceilings. No issues were noted on the main floor.

The basement is finished, with painted sheetrock walls and ceiling and a painted concrete floor. The area is used as a photography and framing studio. There were some minor cracks in the concrete floor. These were noted and photographed. No other issues were noted in the basement area.

The upstairs area is also completely finished. It is a large open area with large windows. There is also a bathroom and shower. The stairs and floor are covered with a solid oak flooring. The walls and ceiling are painted sheetrock. The only issues noted here were minor cracks above the large window. These were photographed.

As indicated above, the house is constructed to modern standards, and appears to be in excellent condition. The only issues noted were the small cracks in the sheetrock by the upstairs window, and some minor cracking in the basement concrete as shown in the photos. The house interior is shown on Plates 4 through 12.

Shed (Near the House) – The shed located just southeast of the house is an older, wooden structure. It has a galvanized steel sheet roof, and there is some evidence of concrete beneath, although this isn't certain. It was constructed prior to Mr. Kalpakoff's ownership of the property, and the actual construction date is not known. The shed is used for storage. Although the structure appears to be quite old, there were no stability issues noted with the structure. The shed photos are shown on Plate 13.

Shop – The shop is a large wood frame structure with steel siding and roof. The metal roof is supported by wood trusses. It is constructed with a concrete floor and concrete footer foundation. The approximate date of construction is 1989. The shop is located about 575' southeast of the house, on a separate street. The structure appears to be stable and in good condition. The only issues noted in the shop were minor tension cracks in the concrete floor, as shown in the attached photos.

There is also an old shed located just behind the shop. This is a wooden shed that sits on a concrete footer, and it has a galvanized sheet metal roof.

The shed doesn't appear to be used; however, it was photographed and included as part of the shop area since it is owned by Mr. Kalpakoff. While most of the shed appears stable, it does have some buckling on the east end, as shown in the photos. The shop and adjacent wood shed photos are shown on Plates 14 through 16 of this report.

PLATE INDEX

Plate 1 – General Location Map of Property and Mine Permit Area

Plate 2 – Aerial View of Kalpakoff Property Structures

Plate 3 – House Exterior

Plate 4 – House Interior (Main Floor)

Plate 5 – House Interior (Main Floor)

Plate 6 – House Interior (Main Floor)

Plate 7 – House Interior (Main Floor)

Plate 8 – House Interior (Basement)

Plate 9 – House Interior (Basement)

Plate 10- House Interior (Basement)

Plate 11- House Interior (Upstairs)

Plate 12- House Interior (Upstairs)

Plate 13- Shed (Near the House)

Plate 14-Shop / Shed

Plate 15-Shop / Shed

Plate 16-Shop / Shed

CERTIFICATION

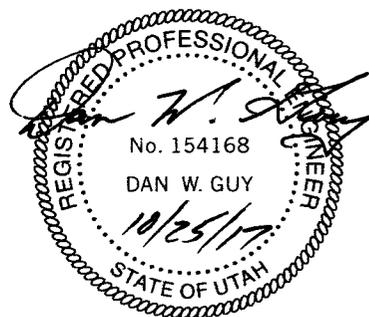
I, Dan W. Guy, a Registered Professional Engineer, State of Utah No. 154168, do hereby certify that I have conducted the pre-blasting survey on the Gary Kalpakoff structures herein described. This survey was conducted in accordance with the State of Utah Coal Mining Rules, R645-301-524.300 through R645-301-524.350. The information contained herein is true and accurate to the best of my knowledge.

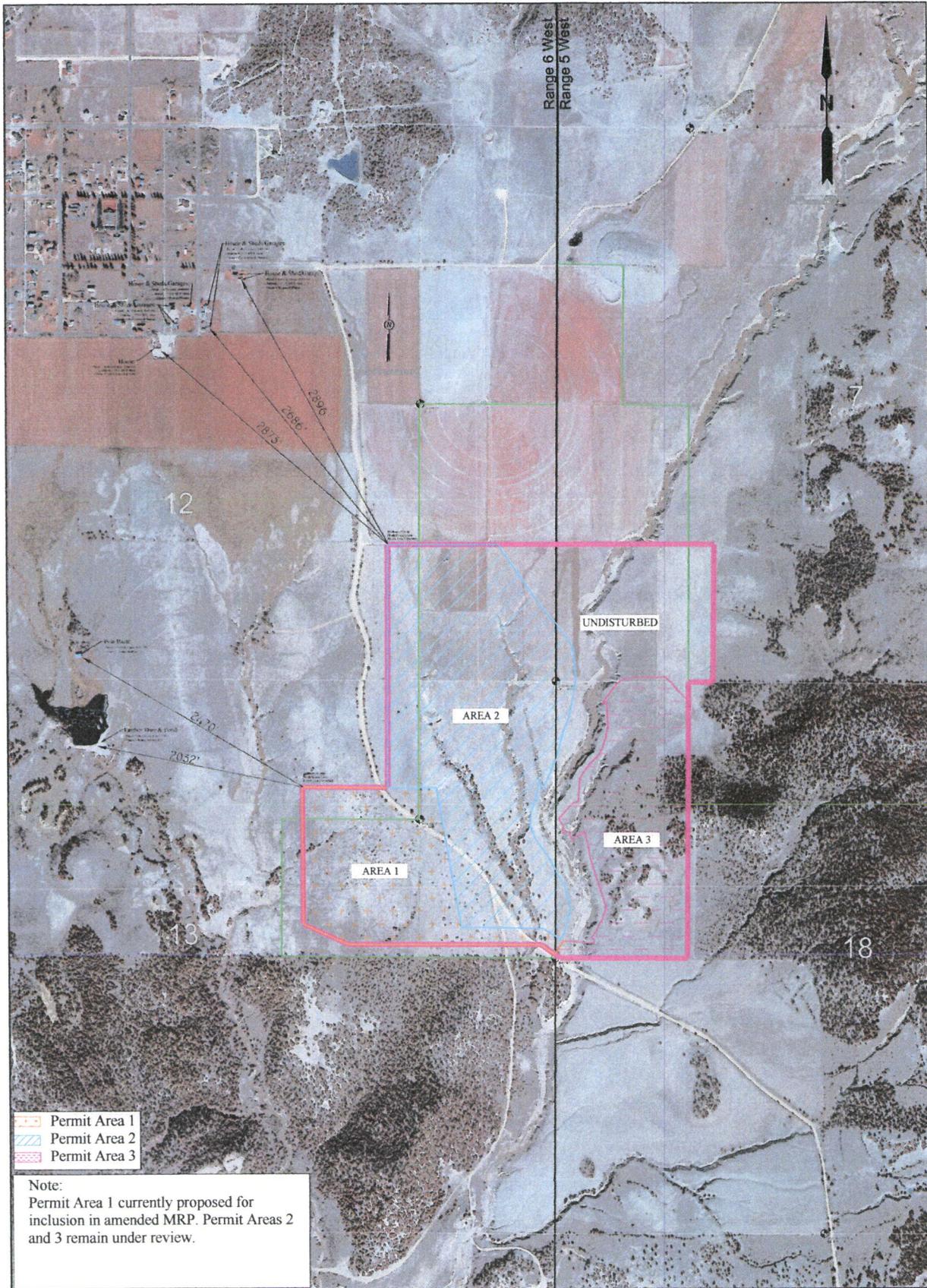
Dan W. Guy

Dan W. Guy

10/25/17

Date





- Permit Area 1
- Permit Area 2
- Permit Area 3

Note:
Permit Area 1 currently proposed for inclusion in amended MRP. Permit Areas 2 and 3 remain under review.

LEGEND:	
	LEASE BOUNDARY
	PRIVATE COAL OWNERSHIP
	SECTION LINE
	FOUND SECTION CORNER
	FOUND PROPERTY CORNER

DRAWN BY: K. NICHOLS	CHECKED BY: DWG
DRAWING: 1-7	DATE: 12/10/15
JOB NUMBER: 0001	SCALE: 1" = 400'
	SHEET

REVISIONS	
DATE:	BY:
12/17/15	KN
1/8/16	AC

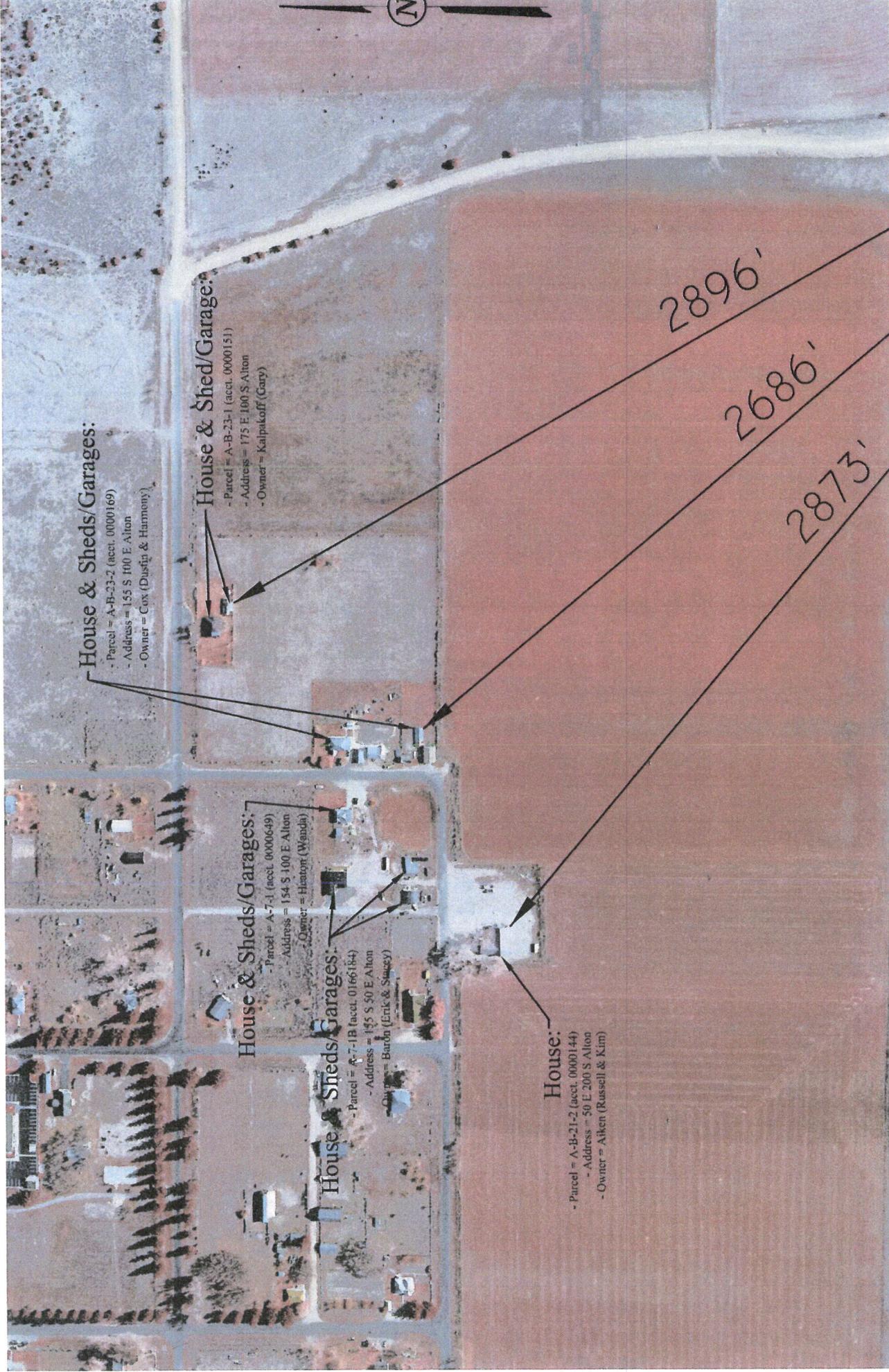
Permit Boundary and Nearest Alton Town Buildings

NORTH COAL HOLLOW PROJECT
ALTON, UTAH

DRAWING: 1-7



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Cedar City, Utah 84721
Phone: 435/567-5331
Fax: 435/567-1192



House & Sheds/Garages:

- Parcel = A-B-23-2 (acct. 0000169)
- Address = 155 S 100 E Alton
- Owner = Cox (Dustin & Harmony)

House & Shed/Garage:

- Parcel = A-B-23-1 (acct. 0000151)
- Address = 175 E 100 S Alton
- Owner = Kalptkoff (Gary)

House & Sheds/Garages:

- Parcel = A-7-1 (acct. 0000649)
- Address = 154 S 100 E Alton
- Owner = Heston (Wanda)

House & Sheds/Garages:

- Parcel = A-7-1B (acct. 0166184)
- Address = 155 S 50 E Alton
- Owner = Baron (Eric & Stacey)

House:

- Parcel = A-B-21-2 (acct. 0000144)
- Address = 50 E 200 S Alton
- Owner = Aiken (Russell & Kim)

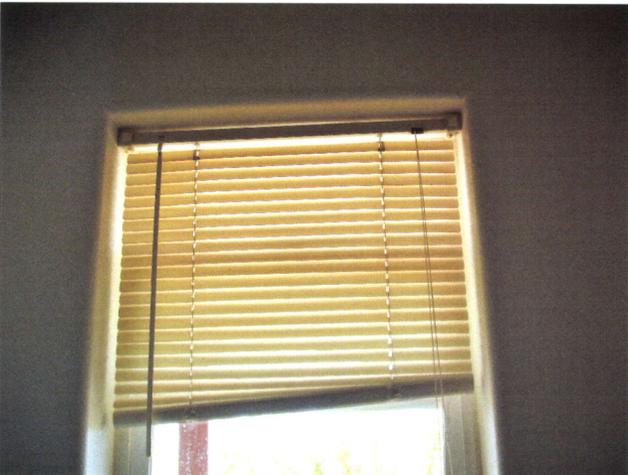
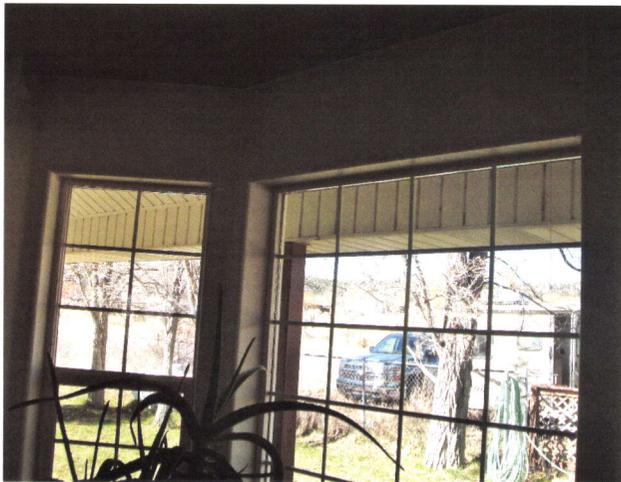
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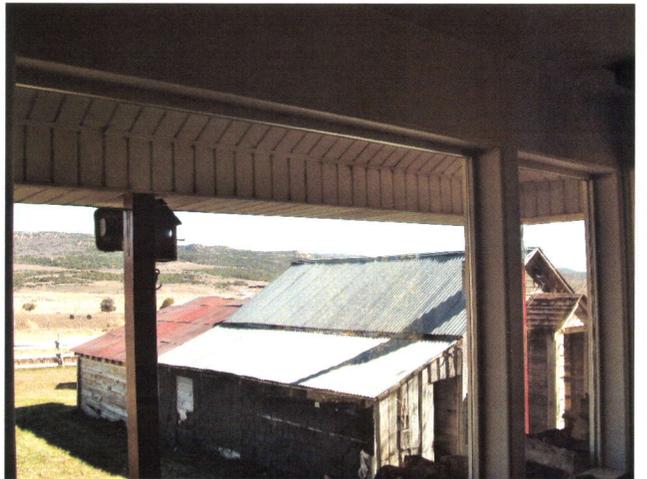
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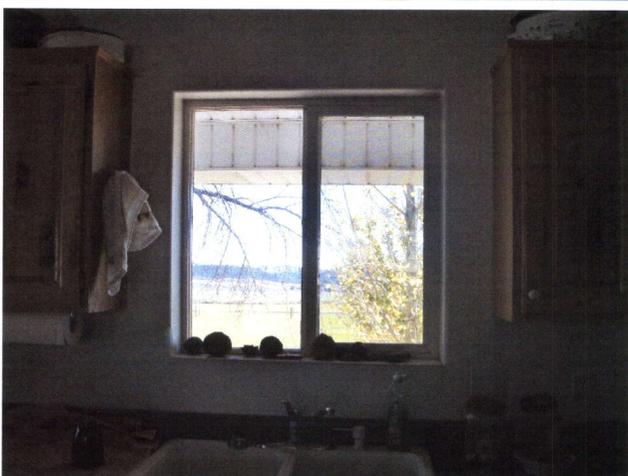
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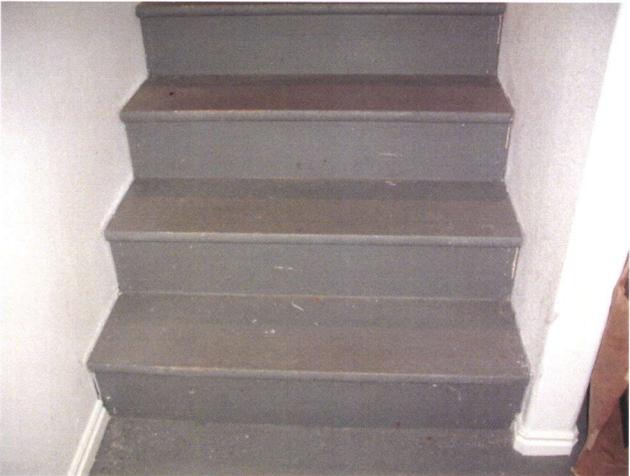
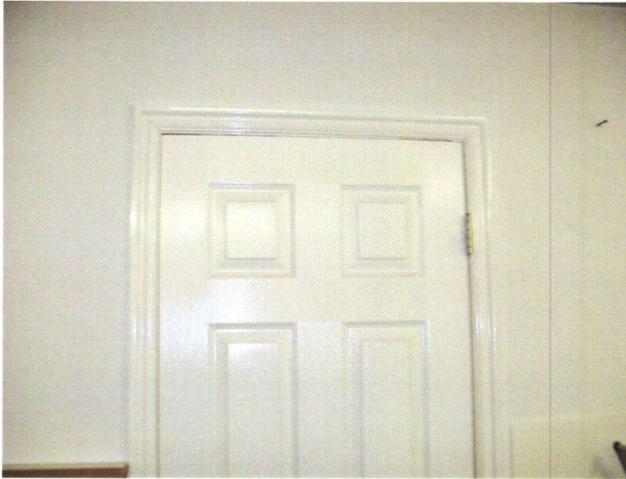




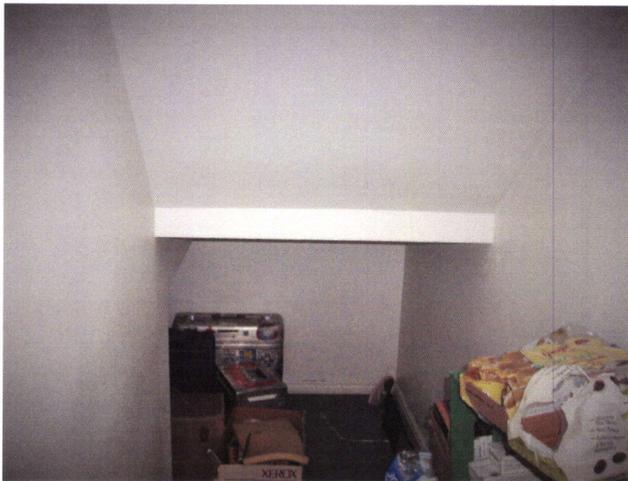
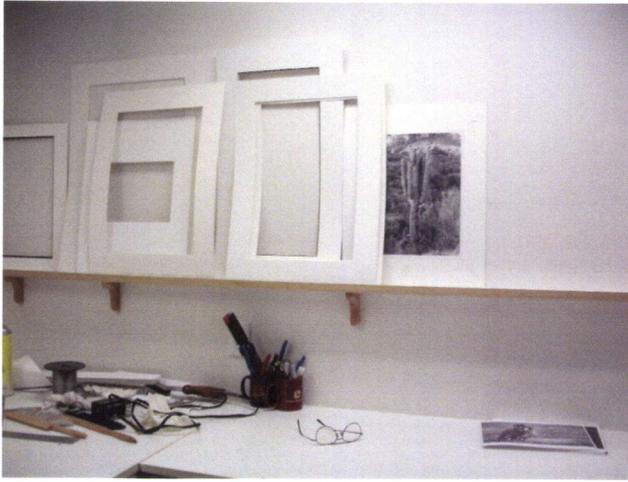






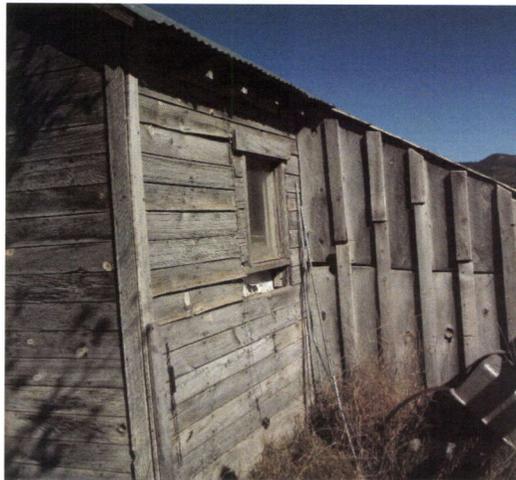




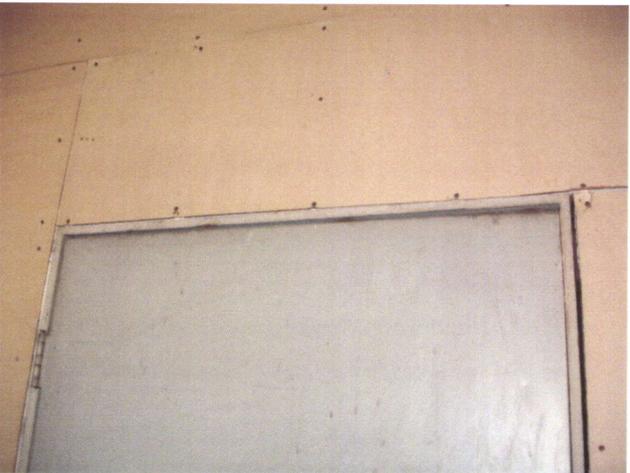
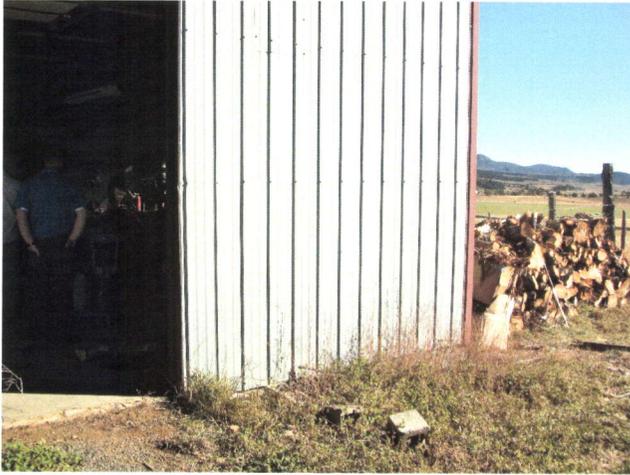


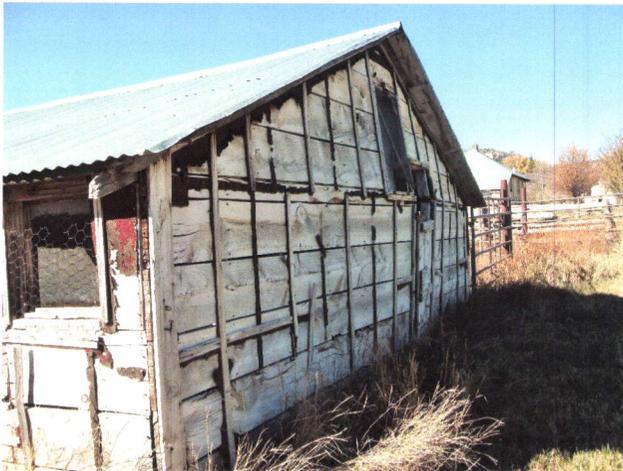
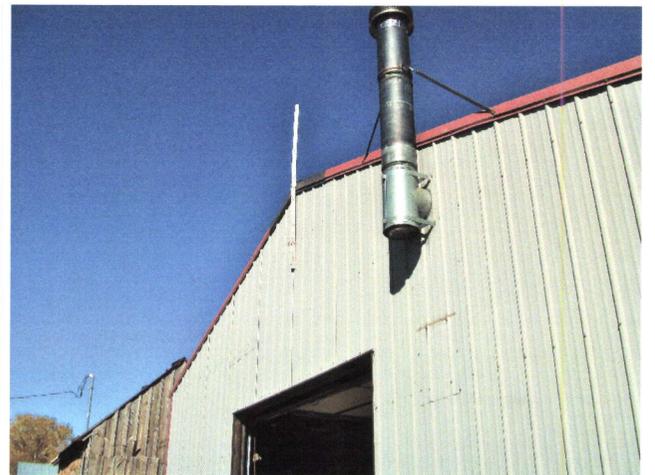
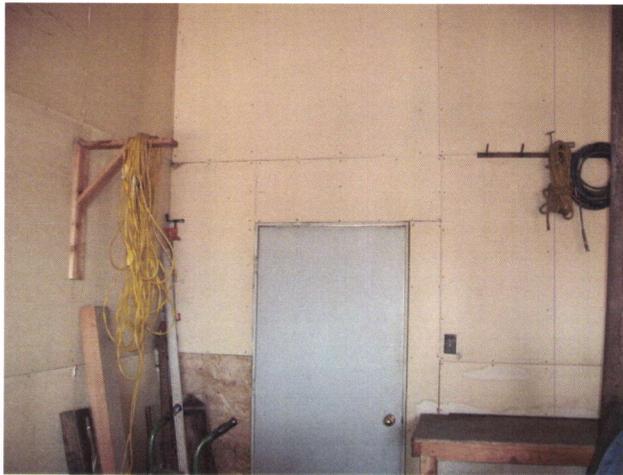












PRE-BLASTING SURVEY
WANDA AND CLAREN HEATON PROPERTY
FOR
ALTON COAL DEVELOPMENT, LLC
COAL HOLLOW MINE

BY
DAN W. GUY, P.E.
OCTOBER 25, 2017

RECEIVED
DEC 01 2017
DIV. OF OIL, GAS & MINING

PRE-BLASTING SURVEY

WANDA AND CLAREN HEATON PROPERTY

Introduction

A pre-blasting survey was conducted on the structures at the Wanda and Claren Heaton property on October 25, 2017, for the Alton Coal Development, LLC Coal Hollow Mine. The survey was conducted by Dan W. Guy, a registered professional engineer in the State of Utah, P.E. No. 154168. Alton Coal Development was represented by Mr. Andrew Christensen, P.E., Technical Services Manager. The property owner is listed as Wanda Heaton; however, both Wanda and Claren Heaton were present throughout the survey. This pre-blasting survey was conducted in accordance with, and per the requirements of, State of Utah Coal Mining Rules, R645-301-524.300 through R645-301-524.350.

General

The Heaton family structures are located approximately 3000' northwest of the northwest corner of the Coal Hollow Mine North Private Lease Permit Area boundary, as shown on Plate 1 of this report.

The structures examined were as follows:

- 1-House
- 2- Shed
- 3- Barn (Partially owned by Wanda Heaton)

The structures are shown on Plate 2 of this report. The home and other structures are located in an open, gentle-sloping area, which minimizes the potential for damage from slides or falling objects. The house was estimated to have been built around 1908-1913. The shed was estimated to have been built around 1913, and the barn was constructed in early 2017. The barn ownership is shared with the adjacent property owners, Erik & Stacey Baron. Wanda and Claren Heaton are Stacey Baron's parents.

Procedure

Each structure was examined and photographed to document existing conditions prior to initiation of the nearest blasting. A description of each structure, including construction, foundation and present condition is provided in this report, along with numerous photos on Plates 3 through 18. It should be noted that the purpose of this survey is to document pre-blast conditions of the structures and not to try and predict or assess potential for damage from blasting. It should be further noted that all of the structures are greater than one-half mile from the nearest corner of the Alton Coal Hollow Mine North Private Lease Permit Area boundary, and although the regulations do not require pre-blast inspections at this distance, the service has been offered at no cost to the homeowners by the company.

Structure Descriptions

House – The house is basically wood frame construction with masonry siding and a galvanized metal roof. The foundation is rock with concrete poured around it. A covered porch has been added on the east side of the house. The original porch has been enclosed. There is also an addition on the south side of the house. This area has a concrete floor with some wood laminate and is enclosed. The house has no basement, but does have an upstairs area with 3 small bedrooms.

The exterior of the house is covered with a masonry siding and a galvanized, corrugated metal roof. There was no obvious weather damage or evidence of instability noted on the home exterior during this inspection. The house exterior is shown on Plates 3 through 5 of this report.

The kitchen area has a wood floor and textured and painted sheetrock walls and ceiling. The living room also has a wooden floor and sheetrock ceiling which is taped and ready to paint. The walls are mostly covered with paneling; however, a portion of the original wood wall is exposed near the doorway. Some of the original wallpaper covering the wood walls is also evident at this location. There is also a wood burning stove in the living room. The area beneath and around the stove is tiled. A large bay window has been added on the north side of the living room. A remodeled stairway leads from the living room to the upstairs attic area. There are 3 small

bedrooms in the upstairs area. The bedrooms are covered with painted sheetrock with sloping ceilings and each is carpeted. The smaller bedroom does have one small area with water damage on the ceiling. The addition on the south side of the house has a concrete floor with some wood laminate covering. The walls and ceiling are sheetrock. There is also a garage door on the north end. The area is primarily used as a utility room. As mentioned earlier, the original porch on the east side of the house has now been enclosed, with a small covered porch added to the north.

The house has been modernized over the years, and overall, appears to be in good condition, considering its age. There were no stability issues noted, and no obvious problems other than the small water damage area in the upstairs bedroom mentioned above, and some cracking in the concrete as shown in the photos. The house interior is shown on Plates 6 through 12.

Shed – The shed is constructed of wood, and was estimated to have been originally built around 1913. There have been some additions to the original structure, but they are also wood and quite dated. The entire structure has an earthen floor and is covered with galvanized sheet metal roof. The gabled section of the shed has a rock foundation with a small root cellar (not examined). The sloped area of the shed is supported with posts. There were no stability issues noted with the structure. The shed photos are shown on Plates 13 through 15.

Barn – The barn is a large structure with steel siding and roof, and has a connected steel shipping container on one end. The steel roof is underlain with 2"x6" wood trusses on 2' centers. The main supports for the building are telephone poles on approximate 10' centers along both sides with a 20' center spacing in the middle. The entire barn has a gravel floor. It was constructed in the early part of 2017. The structure appears to be quite stable, and the only issue noted was one support post toward the east end that was attached slightly off vertical. The structure was inspected and photographed during the inspection of the adjacent Erik and Stacey Baron property. They indicated that a portion of the barn on the east side was actually owned by the Heatons, who live next door, and are the parents of Stacey Baron. Since there is a shared ownership on the structure, the barn photos and description are also included with this report. The barn photos are shown on Plates 16 through 18 of this report.

PLATE INDEX

Plate 1 – General Location Map of Heaton Property and Mine Permit Area

Plate 2 – Aerial View of Heaton Property Structures

Plate 3 – House Exterior

Plate 4 – House Exterior

Plate 5 – House Exterior

Plate 6 – House Interior

Plate 7 – House Interior

Plate 8 – House Interior

Plate 9 – House Interior

Plate 10- House Interior

Plate 11- House Interior (Upstairs)

Plate 12- House Interior (Upstairs)

Plate 13-Shed

Plate 14 -Shed

Plate 15-Shed

Plate 16-Barn

Plate 17-Barn

Plate 18-Barn

CERTIFICATION

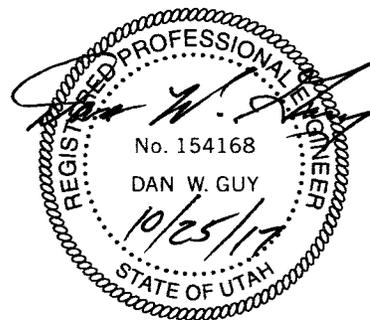
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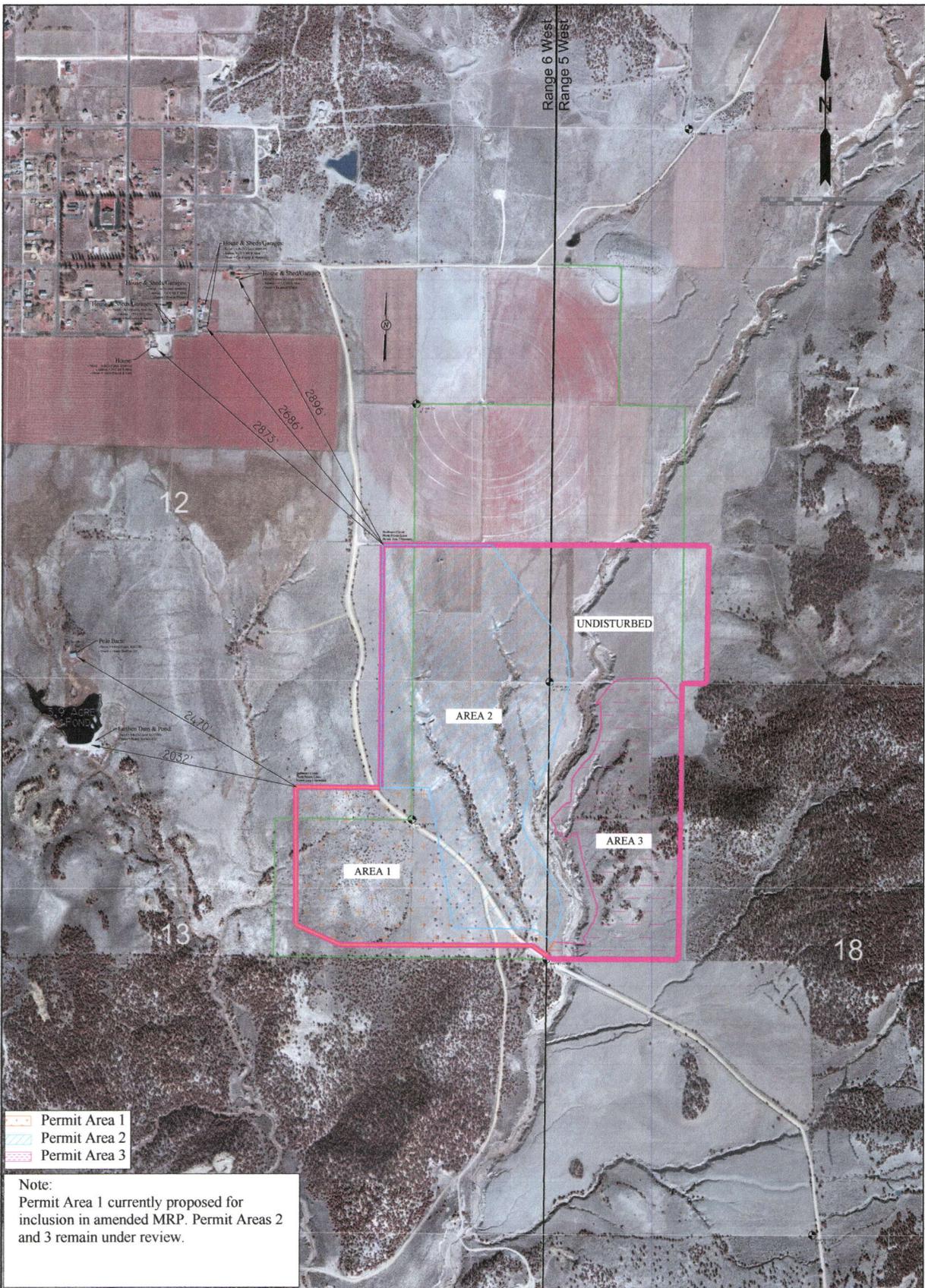
Dan W. Guy

Dan W. Guy

10/25/17

Date





- Permit Area 1
- Permit Area 2
- Permit Area 3

Note:
 Permit Area 1 currently proposed for inclusion in amended MRP. Permit Areas 2 and 3 remain under review.

LEGEND:	
	LEASE BOUNDARY
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	SECTION LINE
	FOUND SECTION CORNER
	FOUND PROPERTY CORNER

DRAWN BY: K. NICHOLS	CHECKED BY: DWG
DRAWING: 1-7	DATE: 12/10/15
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SHEET	

REVISIONS	
DATE:	BY:
12/17/15	KN
1/8/16	AC

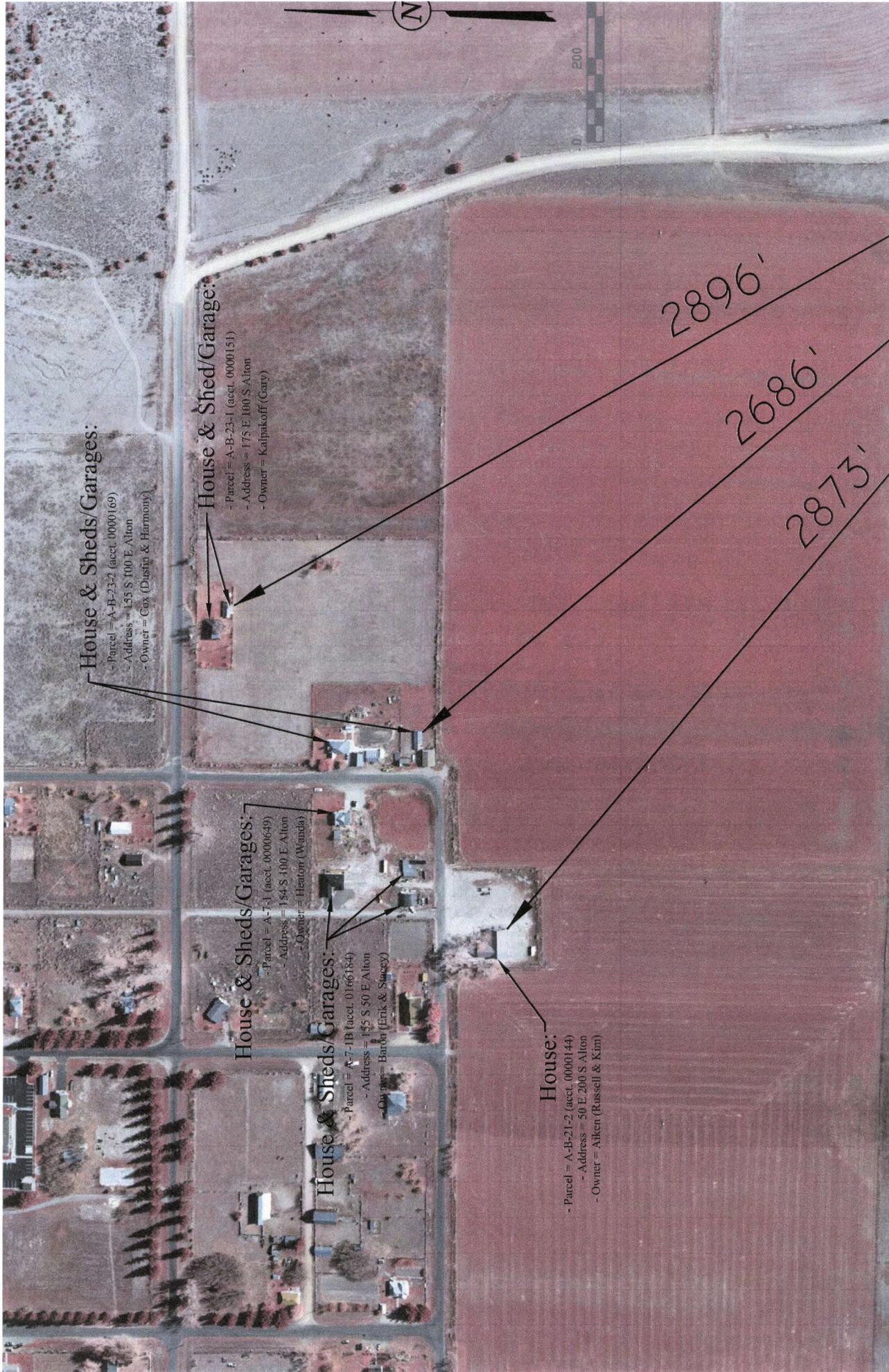
Permit Boundary and Nearest Alton Town Buildings

NORTH COAL HOLLOW PROJECT
 ALTON, UTAH

DRAWING: 1-7




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 Phone: (435) 867-5331
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 - Address = 155 S 100 E Alton
 - Owner = Cox (Dustin & Harmony)

House & Shed/Garage:
 - Parcel = A-B-23-1 (acct. 0000151)
 - Address = 175 E 100 S Alton
 - Owner = Kalpakoff (Gary)

House & Sheds/Garages:
 - Parcel = A-7-1 (acct. 0000649)
 - Address = 154 S 100 E Alton
 - Owner = Heaton (Wanda)

House & Sheds/Garages:
 - Parcel = A-7-1B (acct. 0166184)
 - Address = 155 S 50 E Alton
 - Owner = Borch (Erik & Stacey)

House:
 - Parcel = A-B-21-2 (acct. 0000144)
 - Address = 50 E 200 S Alton
 - Owner = Alken (Russell & Kim)

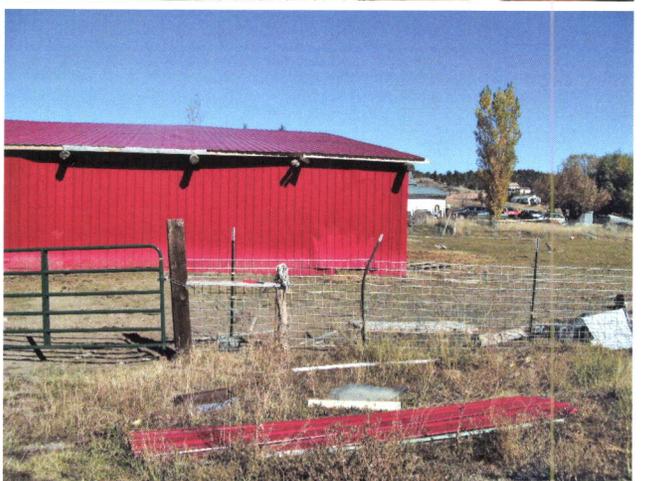
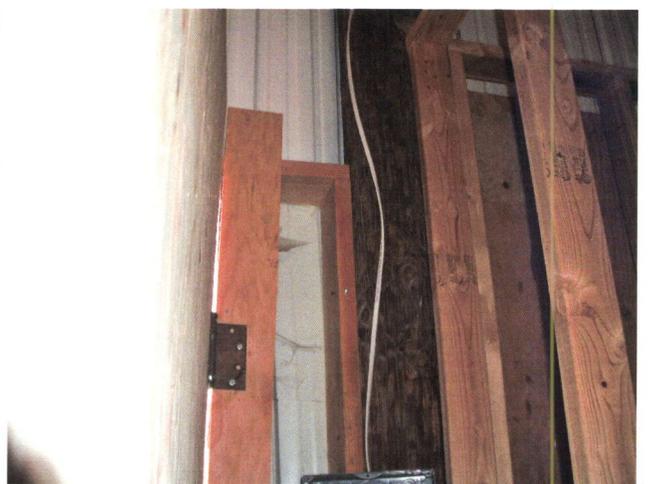
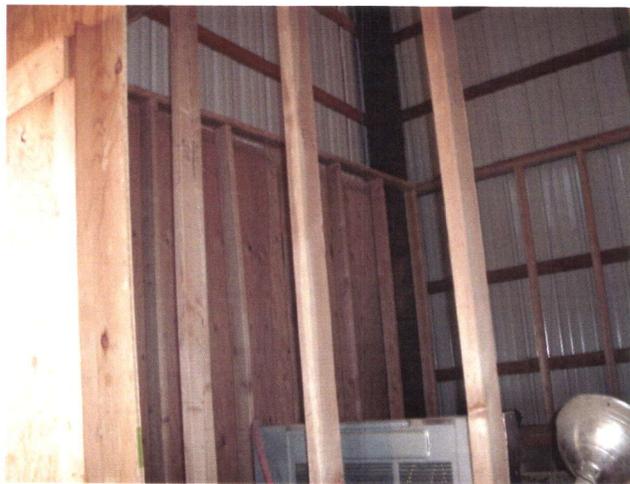
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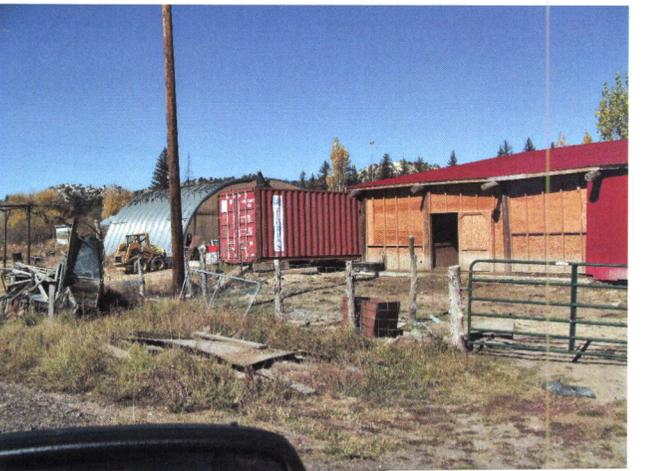
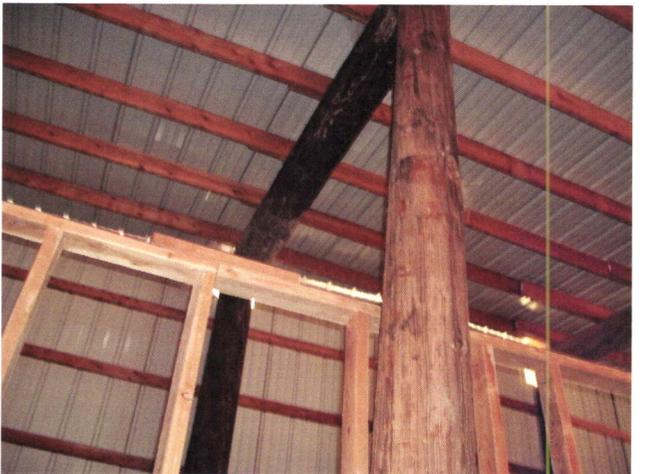
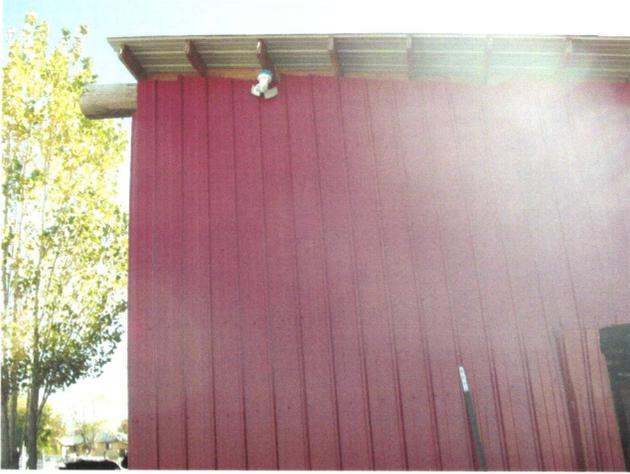
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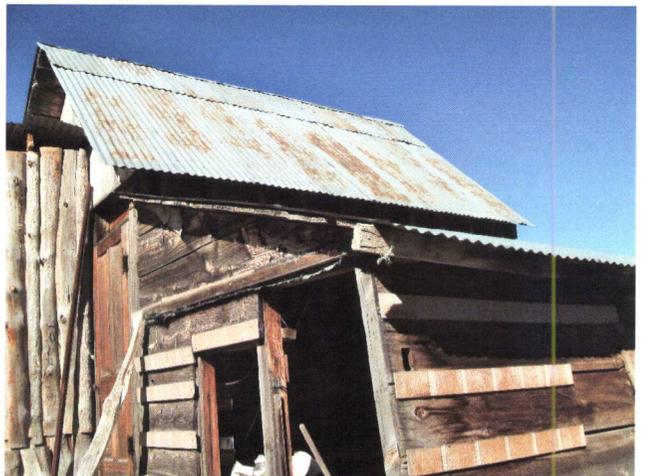
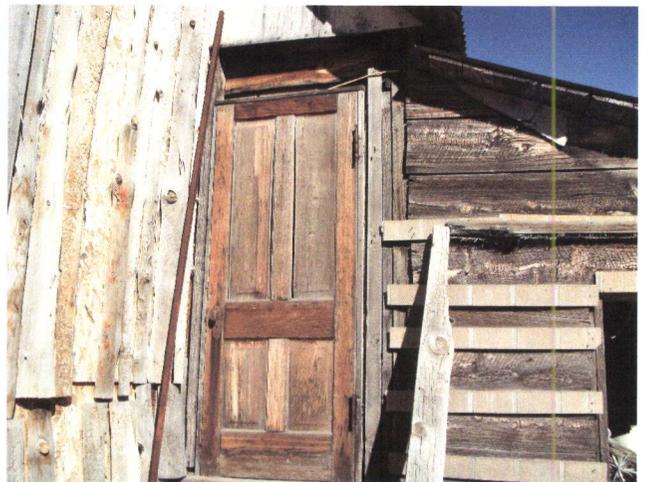
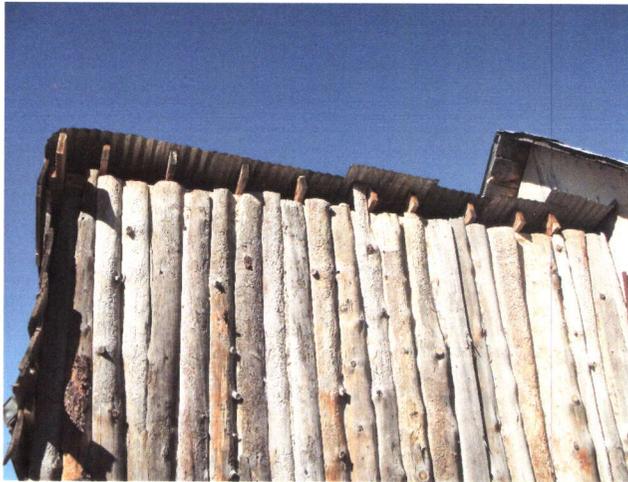
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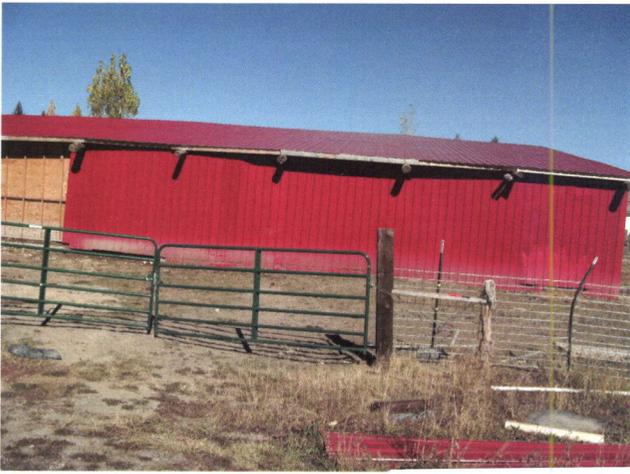
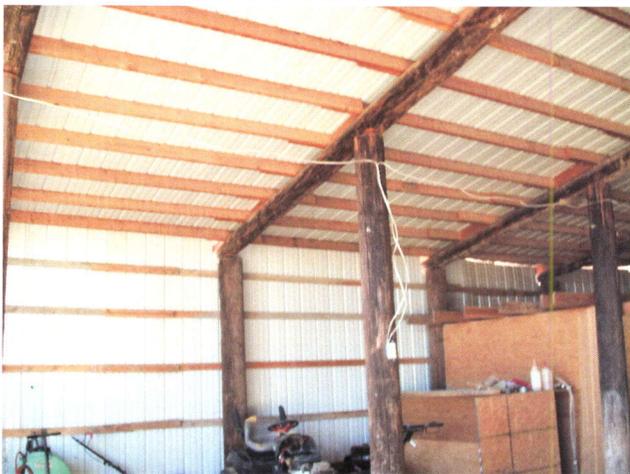
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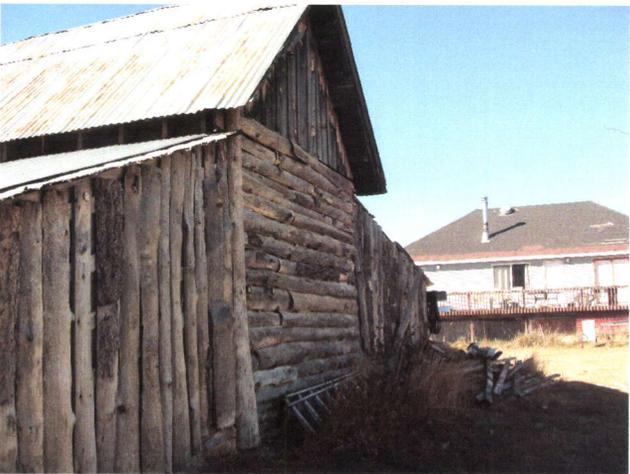
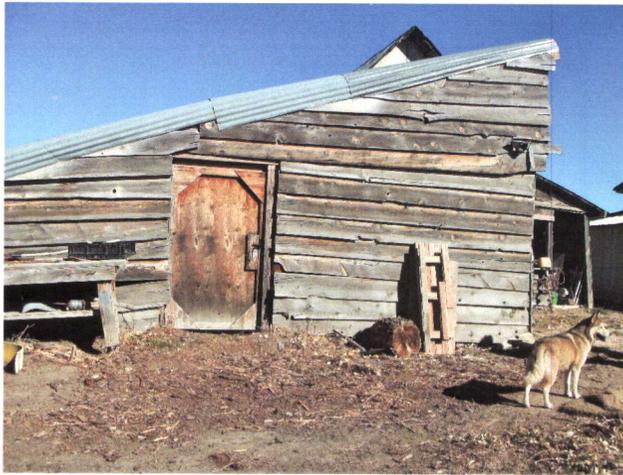
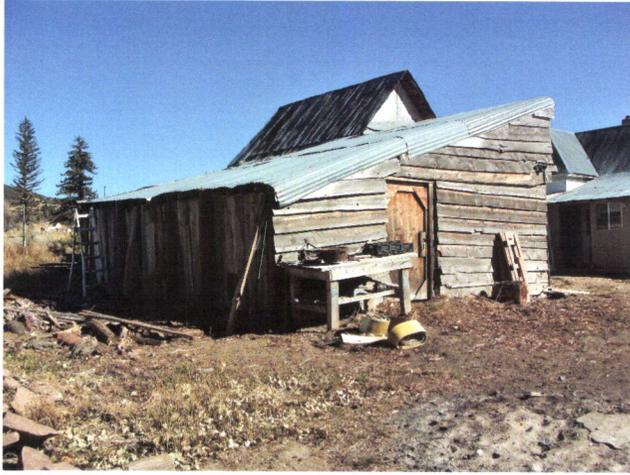
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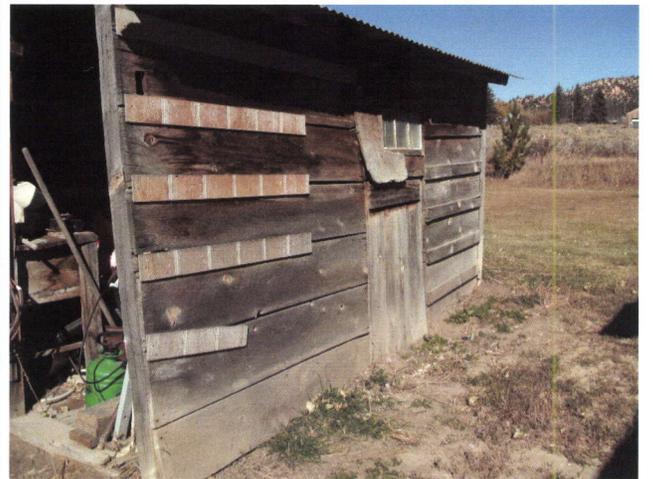
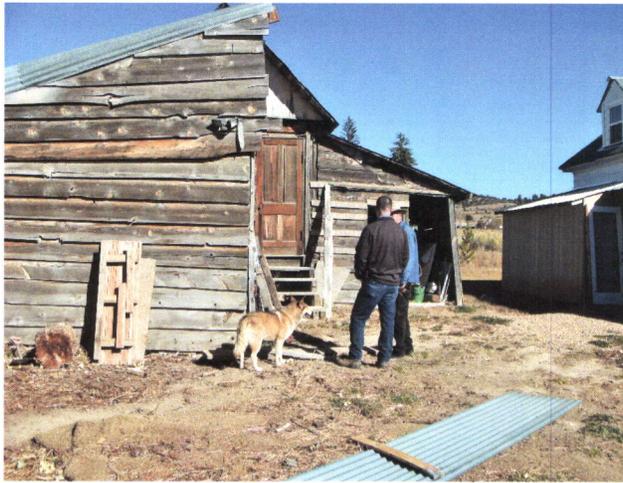


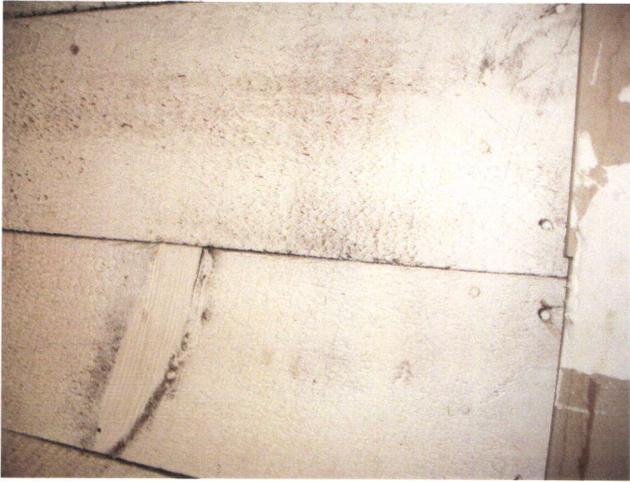


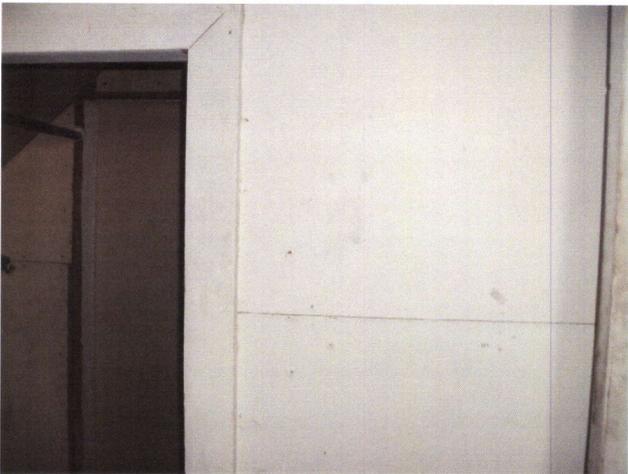
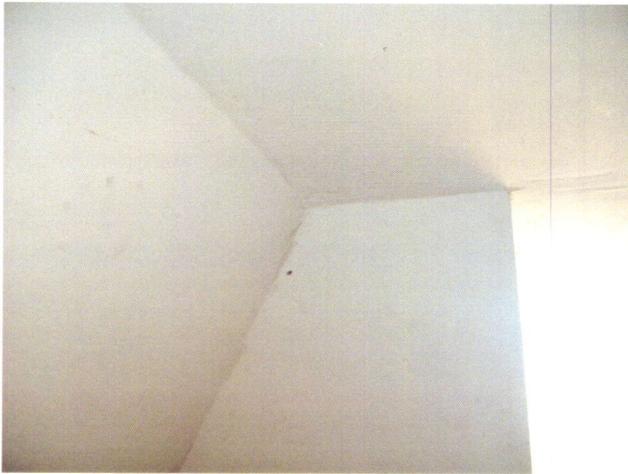


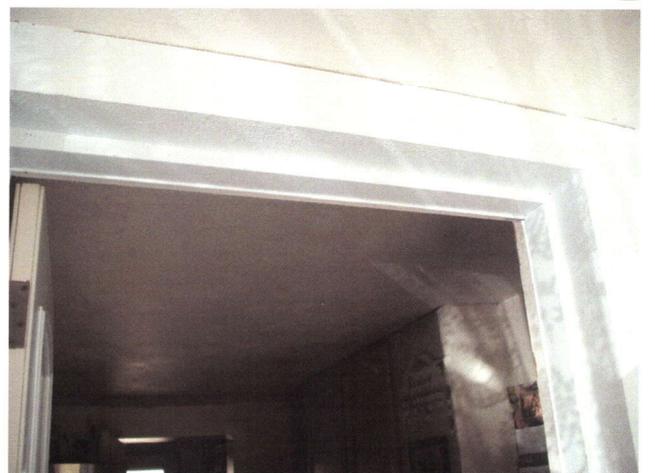
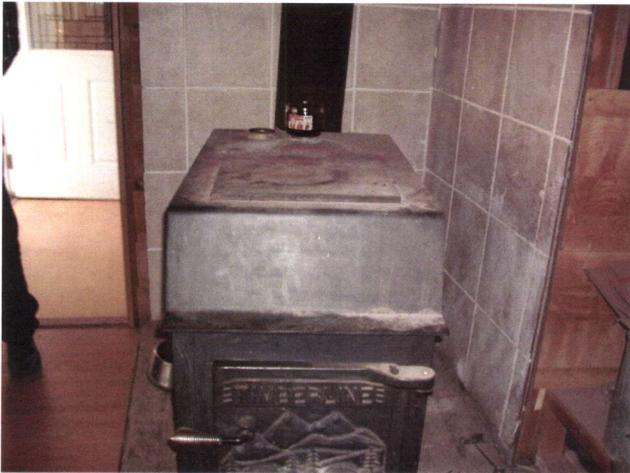




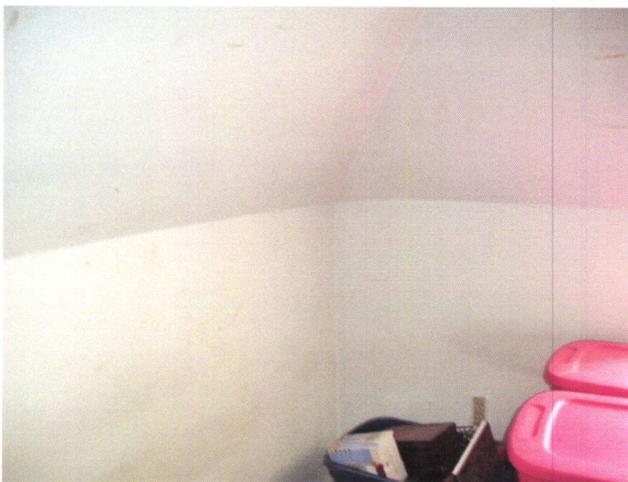


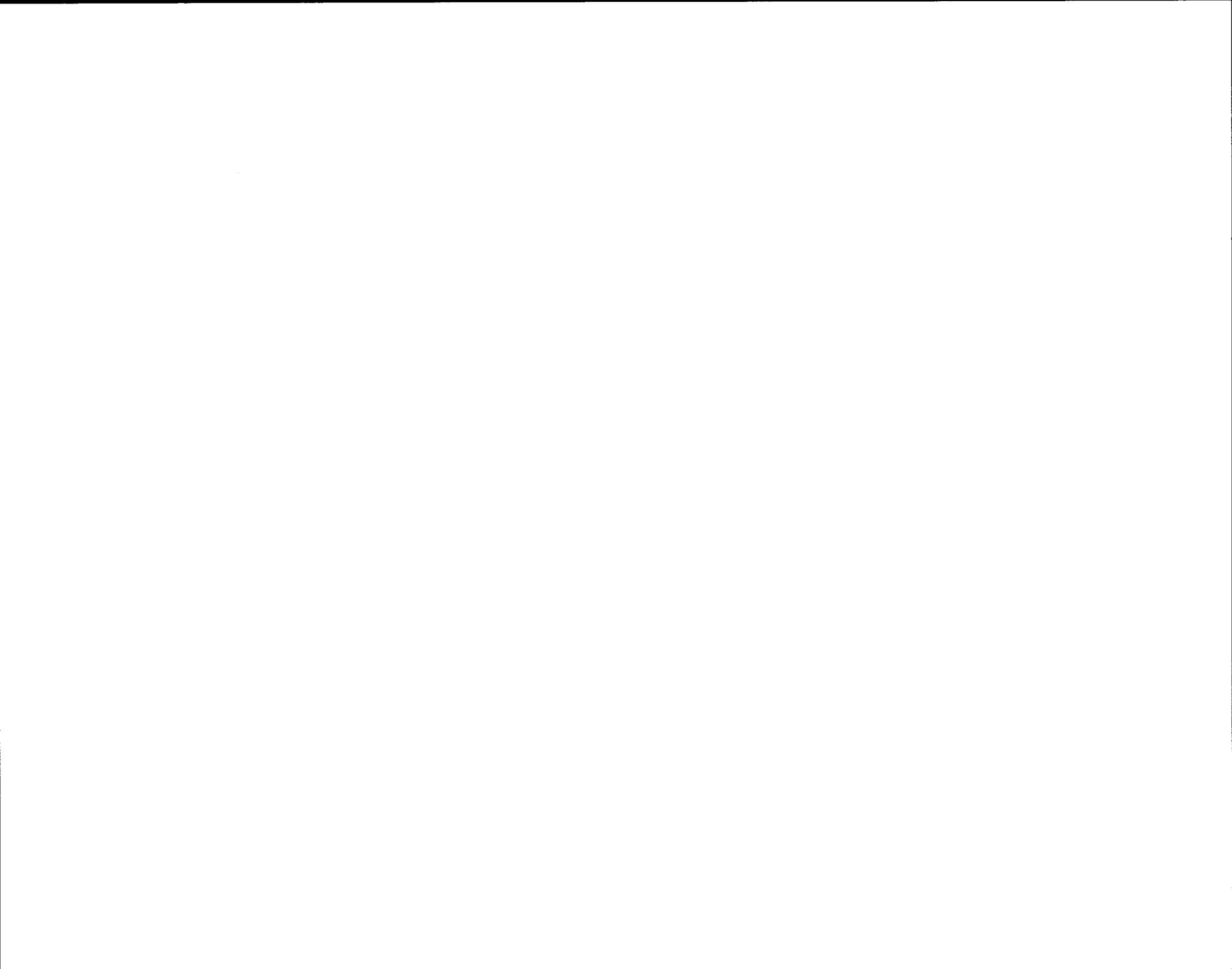


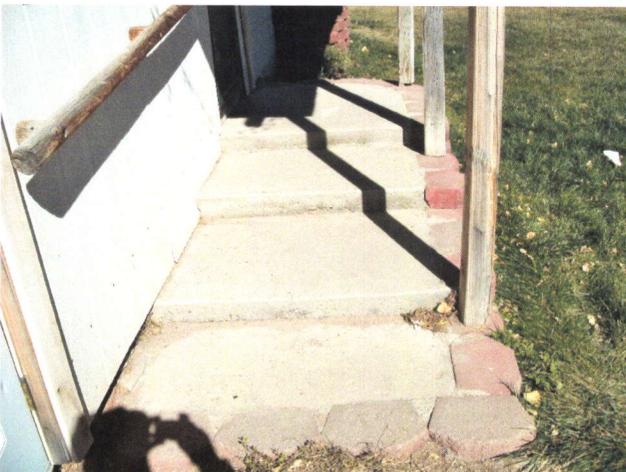


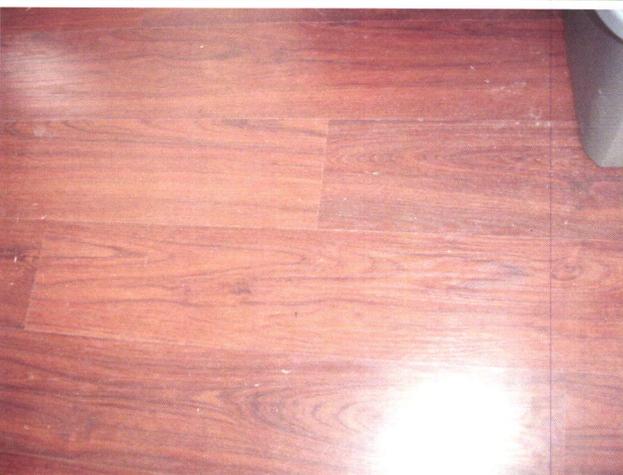
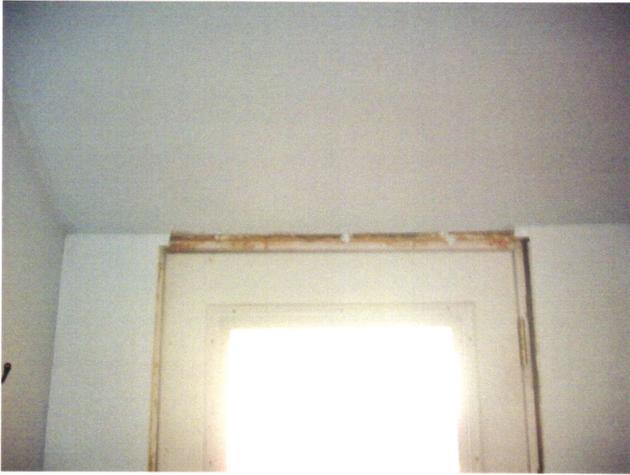


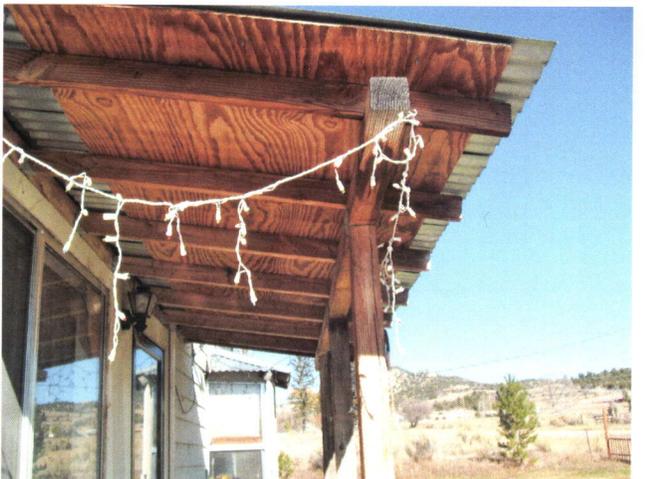
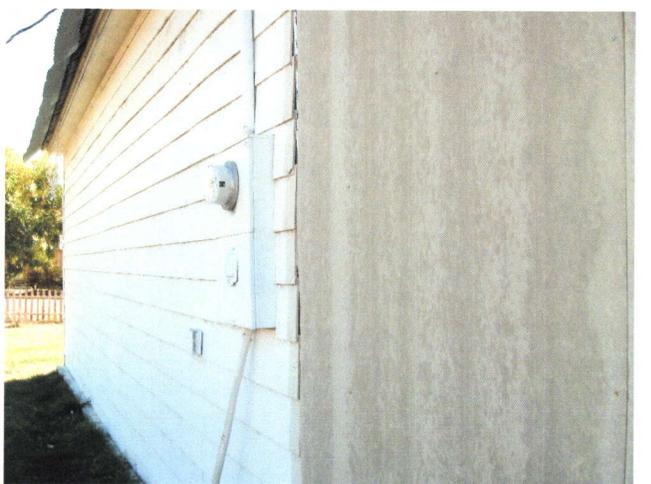
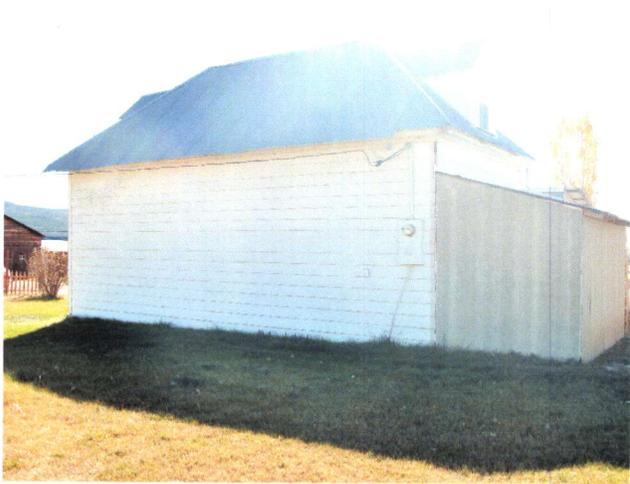


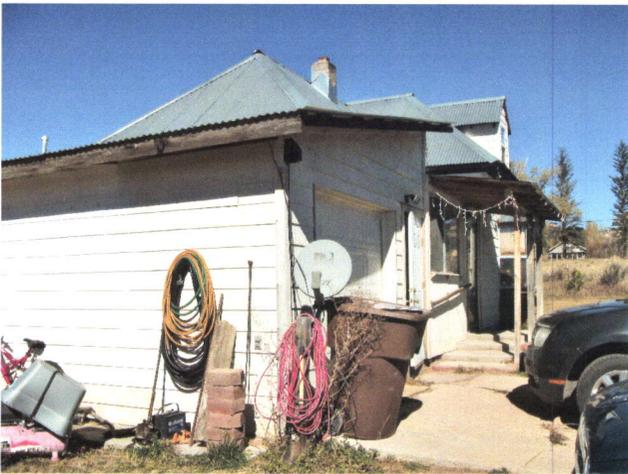
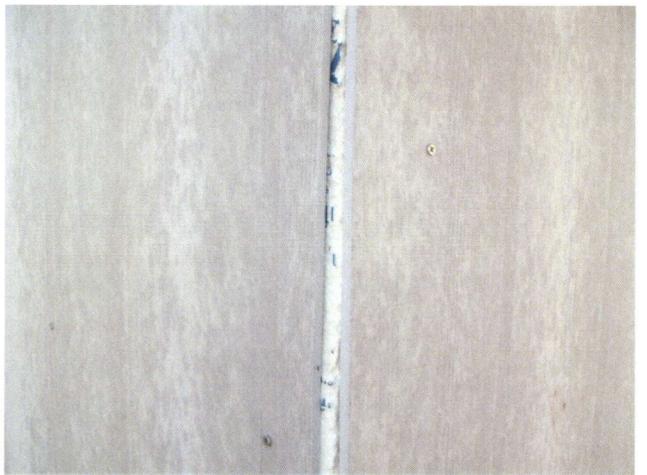
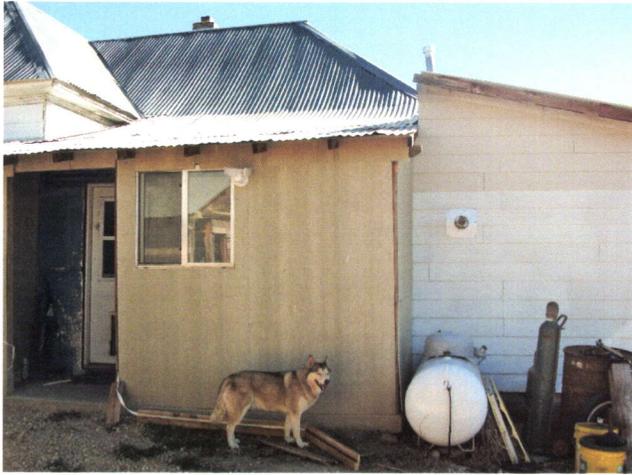












**PRE-BLASTING SURVEY
OF THE
ERIK AND STACEY BARON PROPERTY
FOR
ALTON COAL DEVELOPMENT, LLC
COAL HOLLOW MINE**

**BY
DAN W. GUY, P.E.
OCTOBER 25, 2017**

**RECEIVED
DEC 01 2017
DIV. OF OIL, GAS & MINING**

PRE-BLASTING SURVEY

ERIK AND STACEY BARON PROPERTY

Introduction

A pre-blasting survey was conducted on the structures at the Erik and Stacey Baron property on October 25, 2017, for the Alton Coal Development, LLC Coal Hollow Mine. The survey was conducted by Dan W. Guy, a registered professional engineer in the State of Utah, P.E. No. 154168. Alton Coal Development was represented by Mr. Andrew Christensen, P.E., Technical Services Manager. The property owners, Erik and Stacey Baron were present throughout the survey. This pre-blasting survey was conducted in accordance with, and per the requirements of, State of Utah Coal Mining Rules, R645-301-524.300 through R645-301-524.350.

General

The Baron family structures are located approximately 2900' northwest of the northwest corner of the Coal Hollow Mine North Private Lease Permit Area boundary, as shown on Plate 1 of this report.

The structures examined were as follows:

1-House

2-Shop

3-Barn

The structures are shown on Plate 2 of this report. The home and other structures are located in an open, gentle-sloping area, which minimizes the potential for damage from slides or falling objects. The house was constructed in 2007. The shop was estimated to have been built around 1999, and the barn was constructed in early 2017. The barn is partially owned by the adjacent property owner, Wanda Heaton, Stacey Baron's mother.

Procedure

Each structure was examined and photographed to document existing conditions prior to initiation of the nearest blasting. A description of each structure, including construction, foundation and present condition is provided in this report, along with numerous photos on Plates 3 through 19. It should be noted that the purpose of this survey is to document pre-blast conditions of the structures and not to try and predict or assess potential for damage from blasting. It should be further noted that all of the structures are greater than one-half mile from the nearest corner of the Alton Coal Hollow Mine North Private Lease Permit Area boundary, and although the regulations do not require pre-blast inspections at this distance, the service has been offered at no cost to the homeowners by the company.

Structure Descriptions

House – The house is basically wood construction with vinyl siding. It has a full finished basement. The foundation is insulated foam block, approximately 14" thick, with concrete footers. The house was constructed in 2007. There is also an attached garage which is built on slab.

The exterior of the house is covered with a vinyl siding and an asphalt shingled roof. There are some pits in the siding on the south side of the house apparently from hail, and there are some damaged or missing shingles on the roof resulting from wind and storms. There is also a raised wooden deck along the east side of the house. The deck is supported with 4"x4" wooden posts on concrete. The house exterior is shown on Plates 3 through 6 of this report.

The basement has a concrete floor with finished sheetrock ceiling and walls. There is an open room with a wood burning fireplace, 2 bedrooms and a bathroom. There were some cracks in the painted concrete floor noted and photographed along with one small crack in the sheetrock near the door. The upstairs living area has a tiled entry and a large kitchen and living room with wood floors. The master bedroom has a laminate floor and an adjacent bathroom with a tile floor and tile around the shower. There are 2 smaller bedrooms with carpeted floors, and an additional bathroom with a tile floor.

There is also an attached garage and a covered entry which are built on slab with concrete floors. No cracks or other issues were noted in the main living area. There were some cracks noted and photographed in the floor and one wall of the garage. The covered entry is still being constructed, and no issues were noted there. The interior of the house is shown on Plates 7 through 14.

Shop – The shop is a large Quonset hut structure consisting of heavy, corrugated galvanized metal sheeting. The owners estimate it was constructed about 1999. It has a 2"x6" wooden frame on the front and back, covered with a wood-looking fiber board on the exterior. The structure has a concrete floor and a triple 2"x6" center beam with a center, timber post support. There is also an interior deck on the west end supported with 4"x4" post supports and 2"x6" trusses on 2' centers. The structure appears to be stable and no obvious issues were noted. The shop photos are shown on Plates 15 and 16.

Barn – The barn is a large structure with steel siding and roof, and has a connected steel shipping container on one end. The steel roof is underlain with 2"x6" wood trusses on 2' centers. The main supports for the building are telephone poles on approximate 10' centers along both sides with a 20' center spacing in the middle. The entire barn has a gravel floor. It was constructed in the early part of 2017. The structure appears to be quite stable, and the only issue noted was one support post toward the east end that was attached slightly off vertical. The owners indicated that a portion of the barn on the east side was actually owned by the Heatons, who live next door, and are the parents of Stacey Baron. Since a pre-blast inspection was also performed for the adjacent Wanda Heaton property, the barn photos and description are also included with their report. It should be noted that there is a small wooden structure just north of the barn that was once used as a goat shed and pen. This was photographed and is shown with the barn photos on Plates 17 through 19 of this report.

PLATE INDEX

Plate 1 – General Location Map of Baron Property and Mine Permit Area

Plate 2 – Aerial View of Baron Property Structures

Plate 3 – House Exterior

Plate 4 – House Exterior

Plate 5 – House Exterior

Plate 6 – House Exterior

Plate 7 – House Interior

Plate 8 – House Interior

Plate 9 – House Interior

Plate 10- House Interior

Plate 11- House Interior

Plate 12- House Interior

Plate 13- House Interior (Basement)

Plate 14- House Interior (Basement)

Plate 15-Shop

Plate 16-Shop

Plate 17-Barn

Plate 18-Barn

Plate 19-Barn

CERTIFICATION

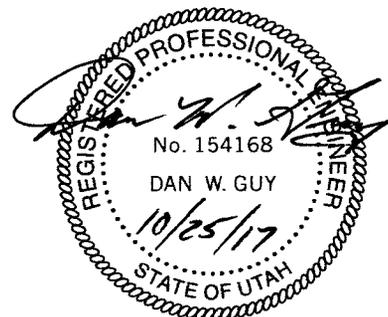
I, Dan W. Guy, a Registered Professional Engineer, State of Utah No. 154168, do hereby certify that I have conducted the pre-blasting survey on the Erik and Stacey Baron structures herein described. This survey was conducted in accordance with the State of Utah Coal Mining Rules, R645-301-524.300 through R645-301-524.350. The information contained herein is true and accurate to the best of my knowledge.



Dan W. Guy



Date





Note:
 Permit Area 1 currently proposed for inclusion in amended MRP. Permit Areas 2 and 3 remain under review.

	LEASE BOUNDARY
	PRIVATE COAL OWNERSHIP
	SECTION LINE FOUND SECTION CORNER
	FOUND PROPERTY CORNER

DRAWN BY: K. NICHOLAS	CHECKED BY: DWG
DRAWING: 1-7	DATE: 12/10/15
JOB NUMBER: 0001	SCALE: 1" = 400'
	SHEET

REVISIONS	
DATE:	BY:
12/17/15	KN
1/8/16	AC

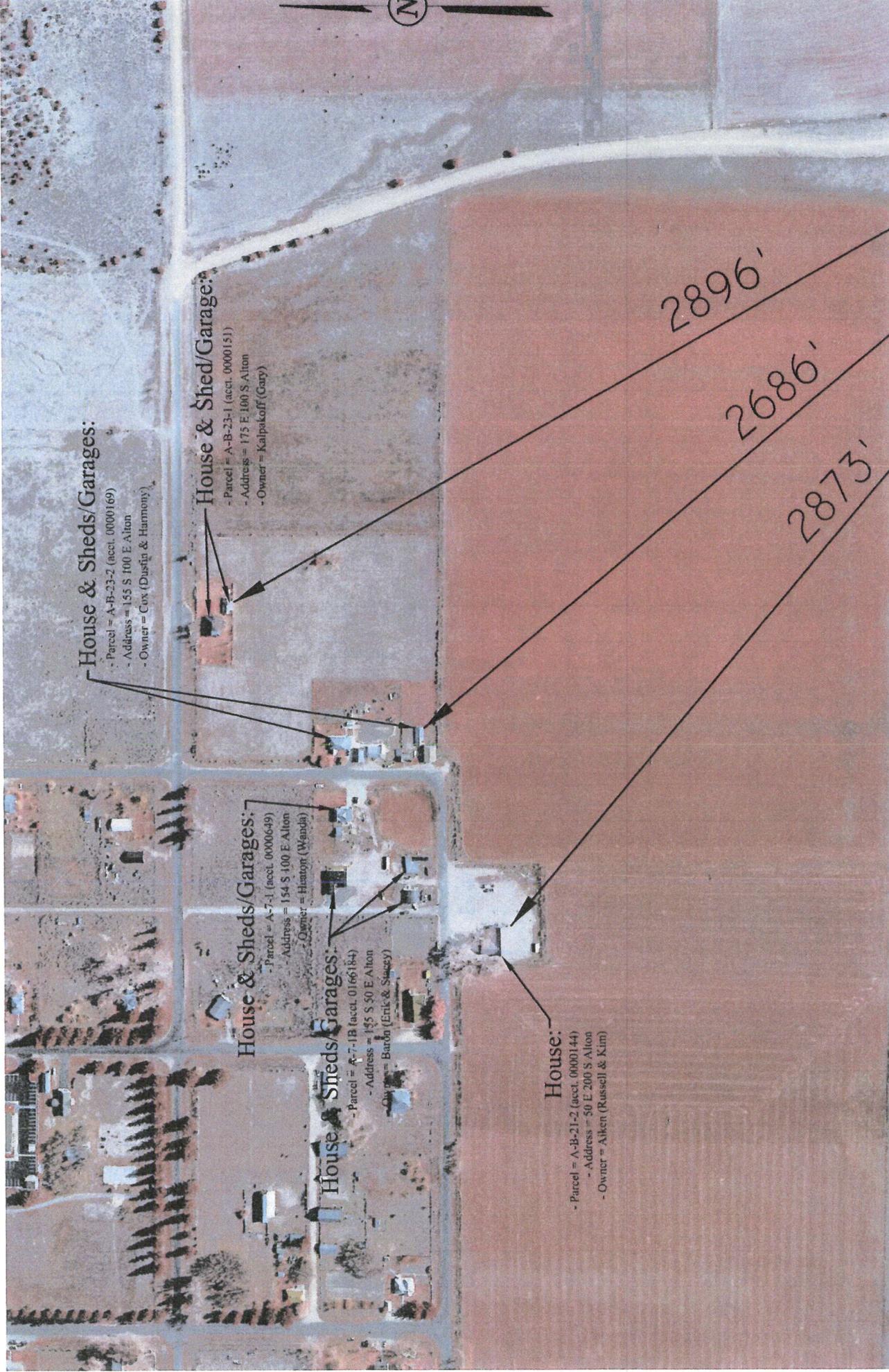
Permit Boundary and Nearest Alton Town Buildings

NORTH COAL HOLLOW PROJECT
 ALTON, UTAH

DRAWING: 1-7



463 North 100 West, Suite 1
 Cedar City, Utah 84721
 Phone: 435-867-5331
 Fax: 435-867-1192



House & Sheds/Garages:

- Parcel = A-B-23-2 (acct. 0000169)
- Address = 135 S 100 E Alton
- Owner = Cox (Dustin & Harmony)

House & Shed/Garage:

- Parcel = A-B-23-1 (acct. 0000151)
- Address = 175 E 100 S Alton
- Owner = Kalpakoff (Gary)

House & Sheds/Garages:

- Parcel = A-7-1 (acct. 0000649)
- Address = 154 S 100 E Alton
- Owner = Henson (Wanda)

House & Sheds/Garages:

- Parcel = A-7-1B (acct. 0166184)
- Address = 135 S 50 E Alton
- Owner = Burdett (Eric & Stacey)

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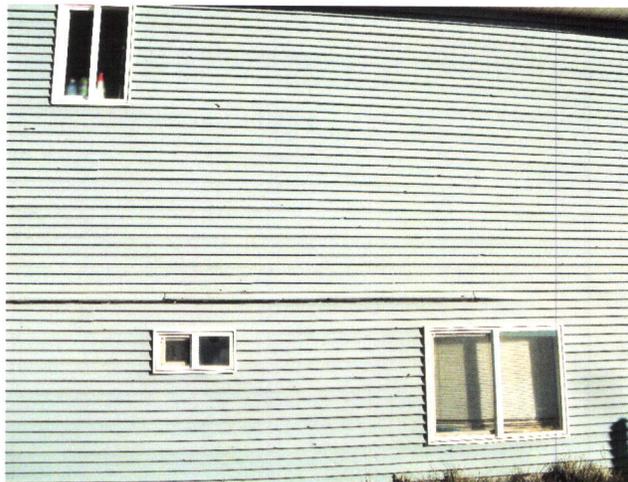
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- Owner = Aiken (Russell & Kim)

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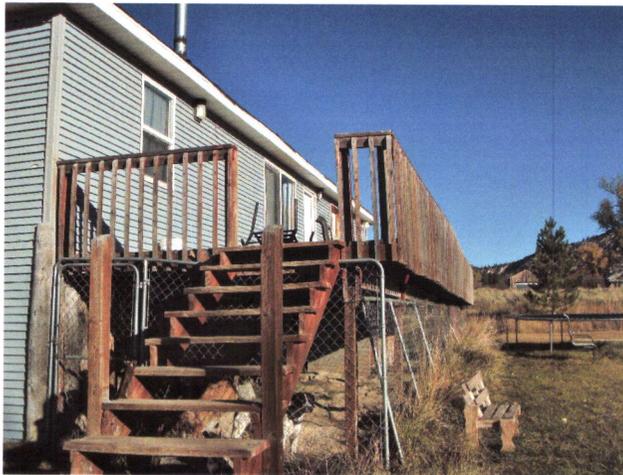
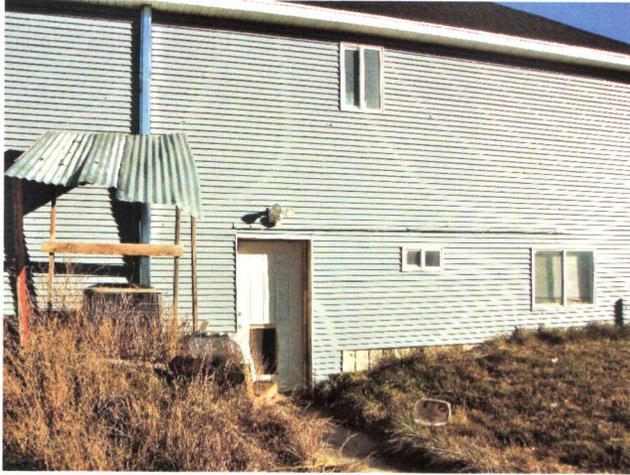
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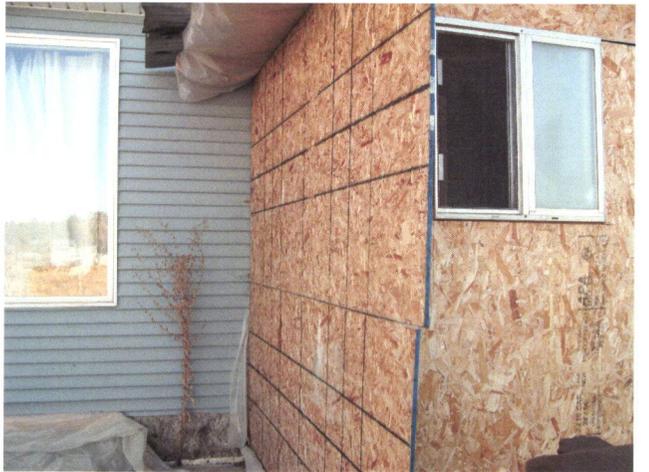
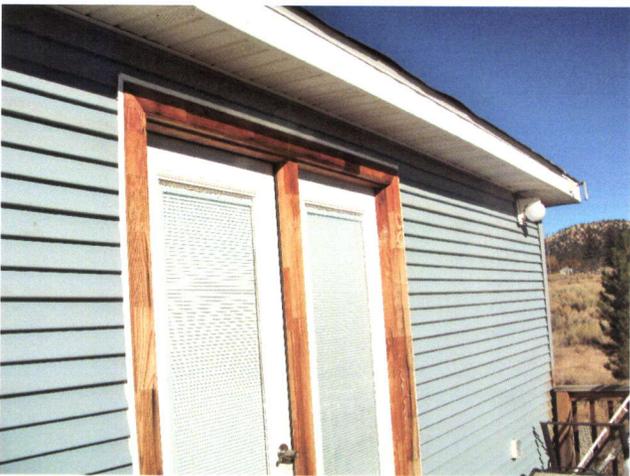
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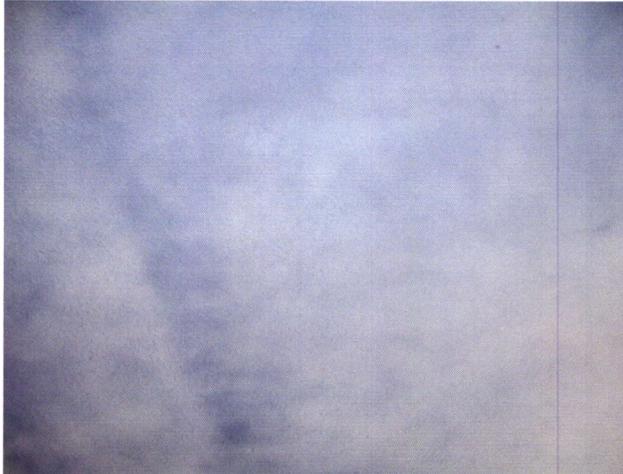
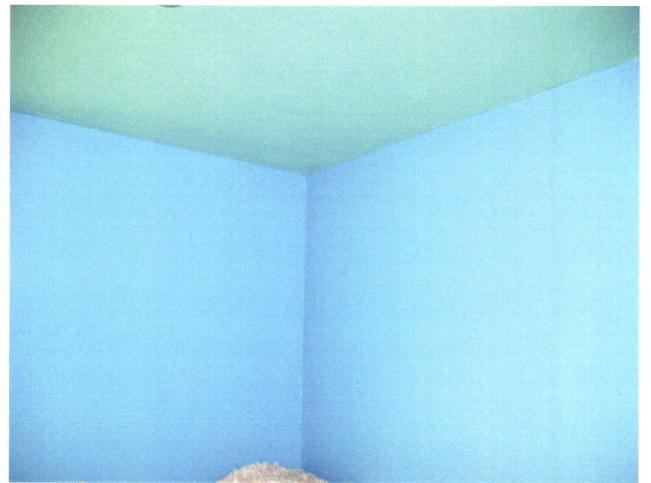




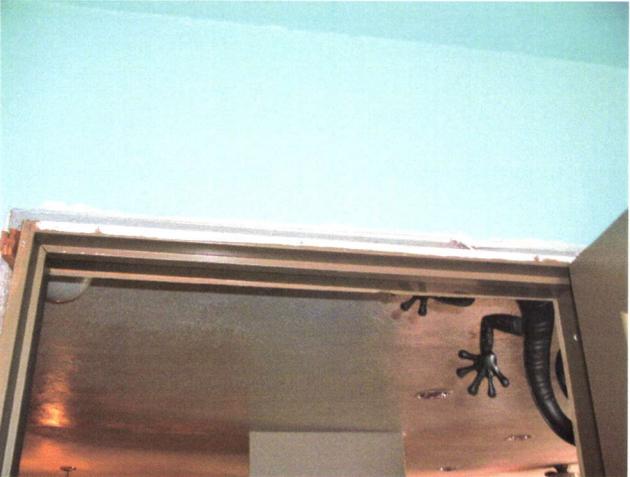


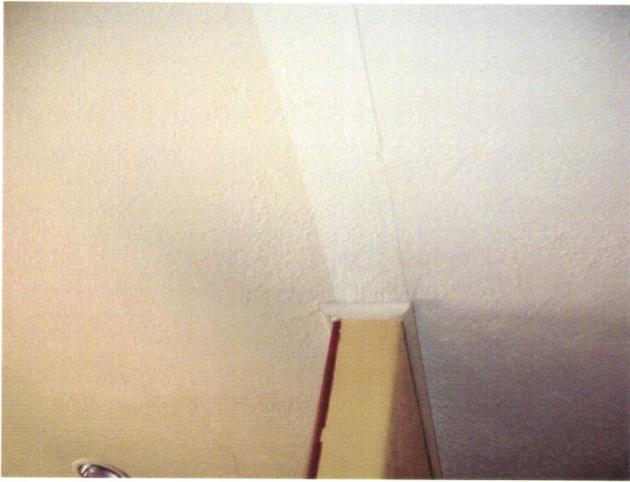


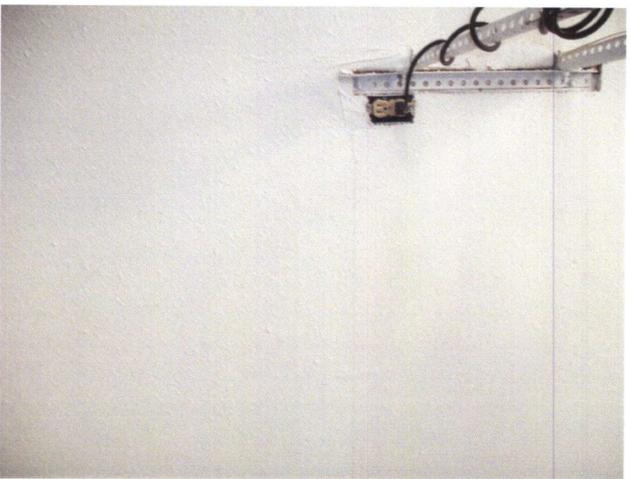


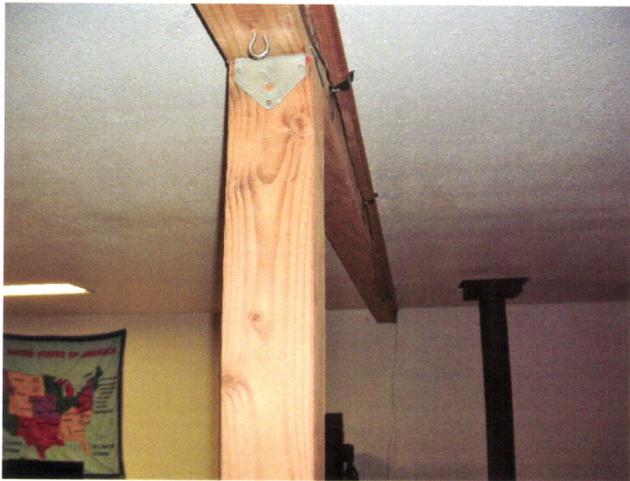


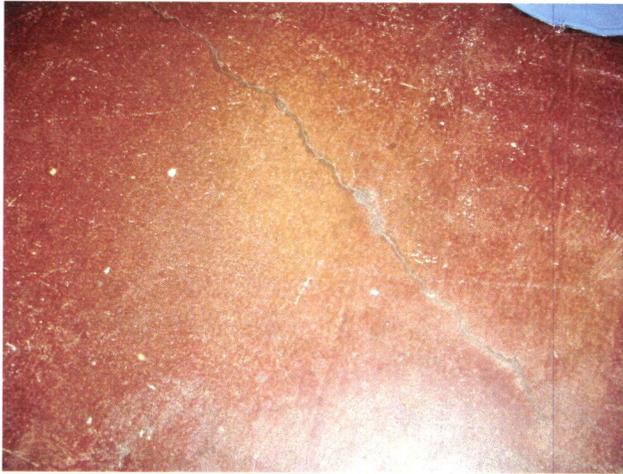


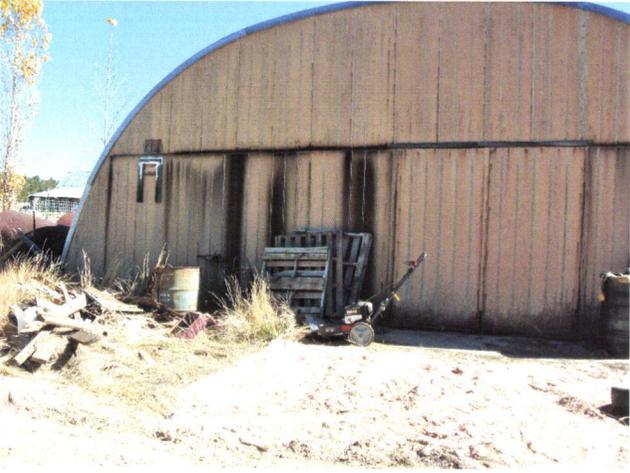
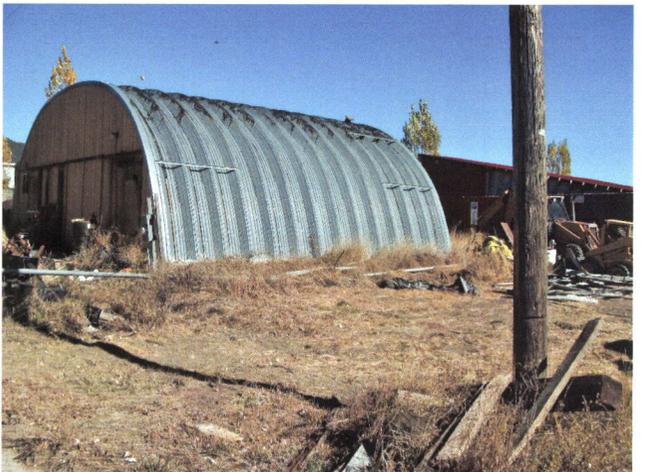
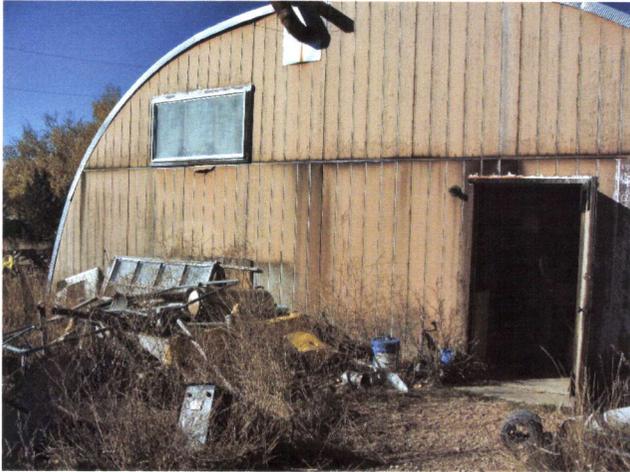


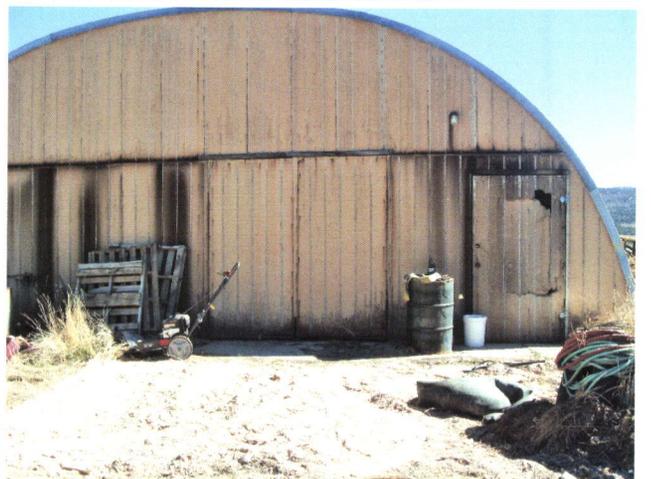
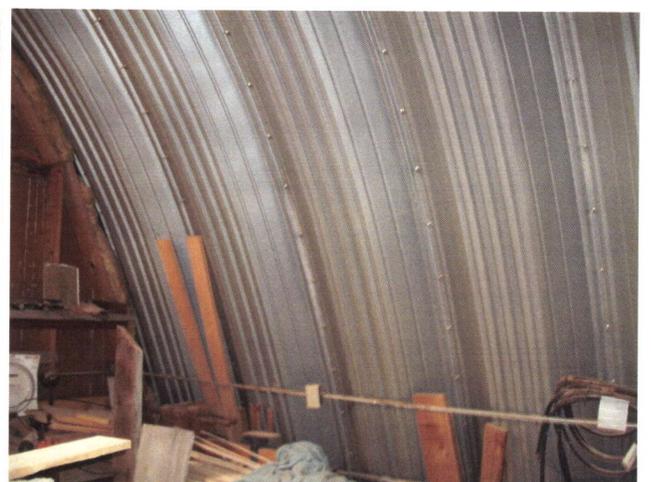
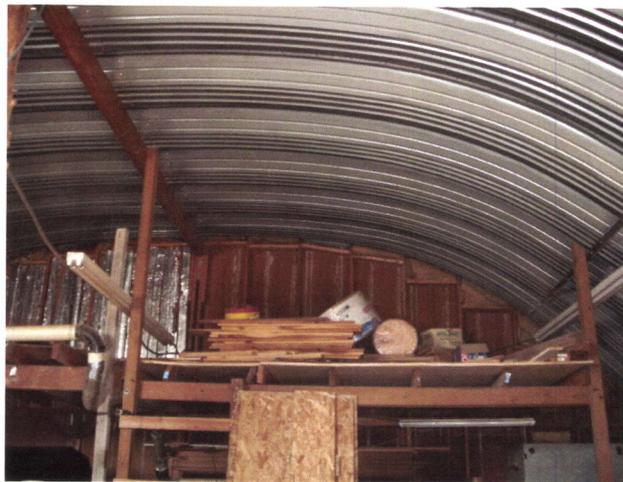
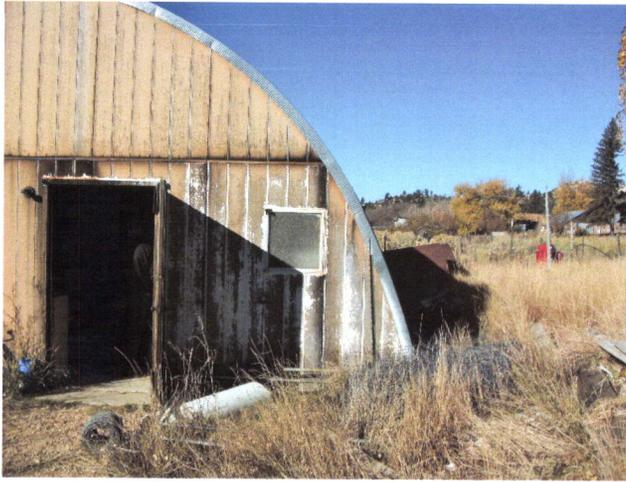


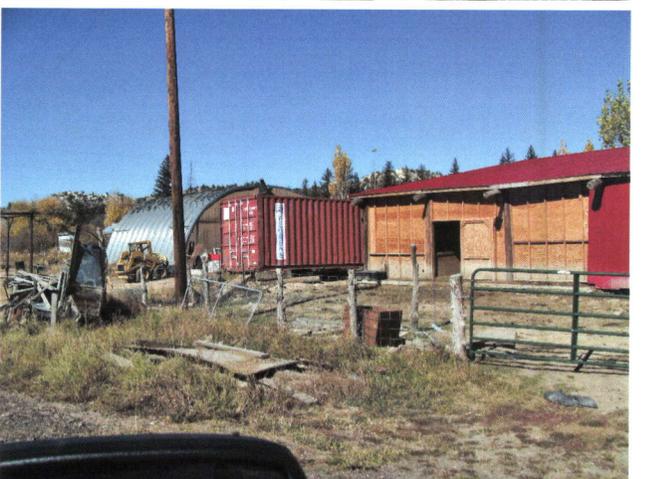
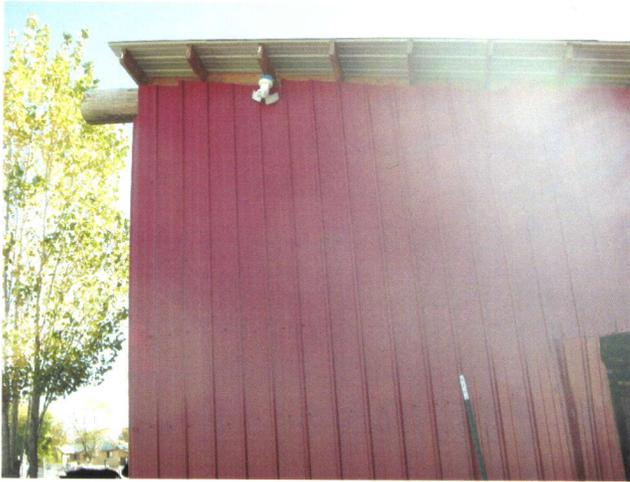


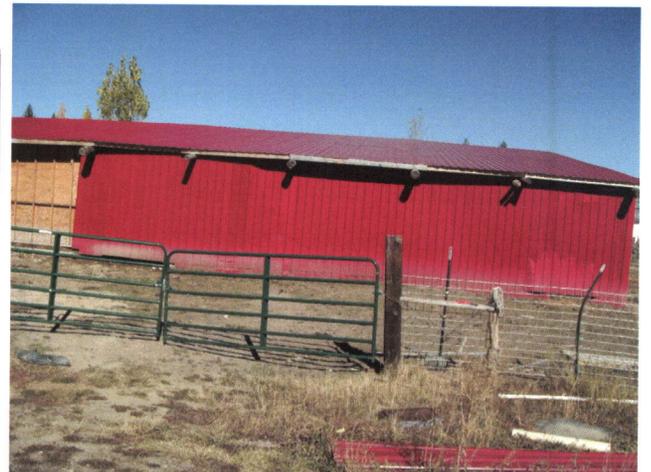
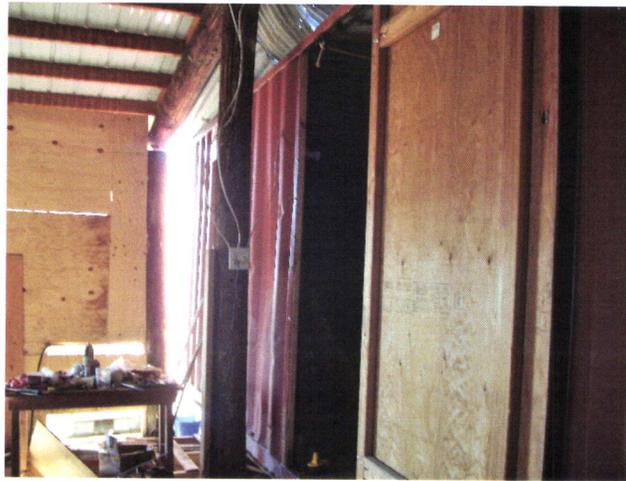
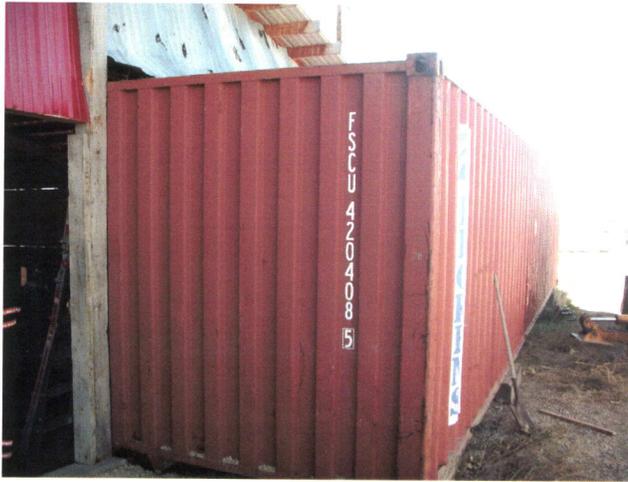


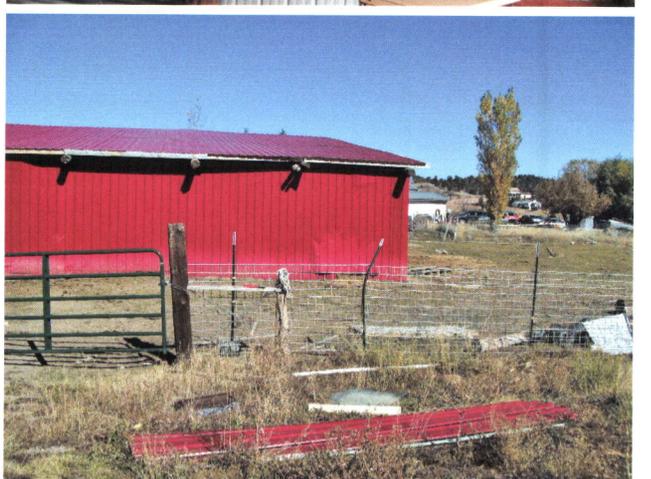
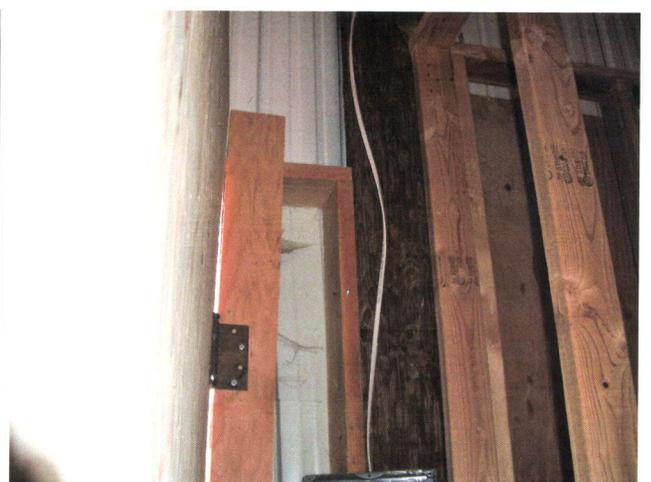
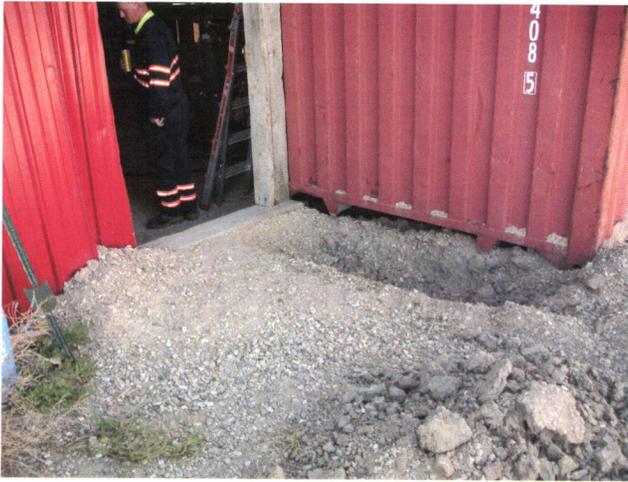












PRE-BLASTING SURVEY
DUSTIN AND HARMONY COX PROPERTY
FOR
ALTON COAL DEVELOPMENT, LLC
COAL HOLLOW MINE

BY
DAN W. GUY, P.E.
NOVEMBER 6, 2017

RECEIVED
DEC 01 2017
DIV. OF OIL, GAS & MINING

PRE-BLASTING SURVEY

DUSTIN COX PROPERTY

Introduction

A pre-blasting survey was conducted on the structures at the Dustin and Harmony Cox property on November 6, 2017, for the Alton Coal Development, LLC Coal Hollow Mine. The survey was conducted by Dan W. Guy, a registered professional engineer in the State of Utah, P.E. No. 154168. Alton Coal Development was represented by Mr. Andrew Christensen, P.E., Technical Services Manager. The property owners are listed as Dustin and Harmony Cox. Dustin Cox, was present throughout the survey. This pre-blasting survey was conducted in accordance with, and per the requirements of, State of Utah Coal Mining Rules, R645-301-524.300 through R645-301-524.350.

General

The Cox family structures are located approximately 2800' northwest of the northwest corner of the Coal Hollow Mine North Private Lease Permit Area boundary, as shown on Plate 1 of this report.

The structures examined were as follows:

- 1-House
- 2-Wooden Shed
- 3- Lean-To / Carport
- 4-Wooden Chicken Coop

The structures are shown on Plate 2 of this report. The home and other structures are located in an open, gentle-sloping area, which minimizes the potential for damage from slides or falling objects. The house was built in 1933, with additions in 1947. A basement was added in 1957, and the house

reached its present configuration in the early 1960's. The adjacent wooden shed was moved in, but there was no date known for its placement. The lean-to or carport structure was constructed in the early 1970's. The old wooden chicken coop is located at the southern end of the property, adjacent to, but not attached to, a larger, wooden shed. The date of these structures was also not known.

Procedure

Each structure was examined and photographed to document existing conditions prior to initiation of the nearest blasting. A description of each structure, including construction, foundation and present condition is provided in this report, along with numerous photos on Plates 3 through 26. It should be noted that the purpose of this survey is to document pre-blast conditions of the structures and not to try and predict or assess potential for damage from blasting. It should be further noted that all of the structures are greater than one-half mile from the nearest corner of the Alton Coal Hollow Mine North Private Lease Permit Area boundary, and although the regulations do not require pre-blast inspections at this distance, the service has been offered at no cost to the homeowners by the company.

Structure Descriptions

House – The house is basically wood frame construction with stucco on the exterior and a galvanized metal roof. A basement was added to the house, and the present foundation is cinder block wall on concrete. The basement is finished and has a concrete floor. A covered patio with cinder block walls and a sloping, galvanized metal roof has also been added on the south side of the house. This area also has a concrete floor.

The exterior of the house has a stucco finish and a galvanized, corrugated metal roof. The lower portion of the outside walls has a rock and concrete veneer added. The rock and concrete veneer has a considerable amount of cracking, as shown in the photos; however, as a veneer, the cracking doesn't necessarily represent any structural instability. The home has an external, fireplace chimney and an internal block chimney. No problems were noted

with either. The covered patio area on the south side of the house has a cinder block support wall, and is open on the front and back.

A considerable amount of concrete has been placed around the house, patio and shed area. Although there is some obvious cracking in the concrete, there were no obvious signs of settling or other instability. A covered, enclosed shed with a metal roof and a free-standing rock fireplace are in the yard behind the house. These structures were only photographed during this inspection. The house exterior is shown on Plates 3 through 7 of this report.

The kitchen area has a vinyl floor covering and textured and painted sheetrock walls and ceiling. The cupboards are wood with glass fronts. The living room area has carpet on the floor and wood panel walls with a tile ceiling. There is also a rock fireplace with a stove in the living room area. The front entry/porch is enclosed and carpeted. The laundry room is carpeted and has some wall area with sheetrock. The remainder of the walls and the ceiling are covered with painted wood. The main floor bathroom has a vinyl tile floor, wallpapered walls and a sheetrock ceiling. The main bedroom has a carpeted floor, with wallpaper on the walls and a sheetrock ceiling.

The stairway to the basement has painted cinder block walls. The basement area has a concrete floor throughout. This area has 3 small bedrooms, a bathroom, utility room and a main room with the furnace and a wood stove. Two of the bedrooms have carpet on the floors and walls, with sheetrock ceilings. The back bedroom has carpet, painted block walls and a sheetrock ceiling. There are some cracks evident in the block in this bedroom, as shown in the photos. The bathroom has block walls, a vinyl tile floor and sheetrock ceiling. There are also some cracks evident along an area of the cinder block joints in this area. These are also shown in the photos. The utility room has a concrete floor, cinder block walls and a fiberboard ceiling. There were some water stains evident in the ceiling, as shown in the photos of this area. The main room in the basement has a concrete floor and painted cinder block walls. This area also has the main furnace for the house along with a wood stove and a sitting area. The house interior is shown on Plates 8 through 17.

Wooden Shed – The large wooden shed sits just south of the house. The home owner said the shed was moved into its present location, but the date was not known. The shed has a concrete footer, weathered wood exterior with some wood paneling on the sides and a galvanized, metal roof. The shed interior has a concrete floor with wood walls and ceiling area. There are 2 smaller rooms in addition to the main area. These rooms are raised and both have wood floors and sheetrock walls and ceilings. There is also a small, unused attic area in the shed that was not examined during this inspection. Although the shed appears to be quite old, it also appears to be quite stable, with no major damage or stability issues noted. Some water stains were evident in the ceiling tiles and were photographed. The shed photos are shown on Plates 18 through 22.

Lean-To / Carport – This is a structure with 3 stalls, open on the front, with a sloping, galvanized metal roof. The primary structure is wood frame walls and trusses, covered with the galvanized metal sheeting. There are concrete footers visible under some of the walls. There are some areas where the walls appear to be sitting on wood planks. The internal support is provided by steel posts set in concrete. There is also a small room and a concrete pad inside the structure. No stability issues were noted at this location. The photos of this area are shown on Plates 23 through 25.

Wooden Chicken Coop – This is a small wooden structure located at the southern end of the property. It sits next to a large, old wooden shed and was apparently used as a chicken coop in the past. It is constructed of wood planks with a sloping galvanized, metal roof. There were no stability issues noted with this structure; however, the larger adjacent shed to the south does show some buckling on the north side. Failure of that structure could conceivably damage the chicken coop. This area is shown on Plate 26.

PLATE INDEX

Plate 1 – General Location Map of the Cox Property and Mine Permit Area

Plate 2 – Aerial View of the Cox Property Structures

Plates 3 through 7 – House Exterior

Plates 8 through 12– House Interior (Upstairs)

Plates 13 through 17 – House Interior (Basement)

Plates 18 through 22 – Shed

Plates 23 through 25 – Lean-to / Carport

Plate 26 – Chicken Coop

CERTIFICATION

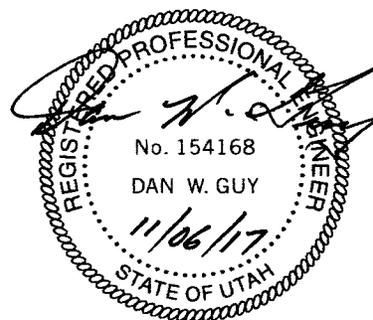
I, Dan W. Guy, a Registered Professional Engineer, State of Utah No. 154168, do hereby certify that I have conducted the pre-blasting survey on the Dustin and Harmony Cox property structures herein described. This survey was conducted in accordance with the State of Utah Coal Mining Rules, R645-301-524.300 through R645-301-524.350. The information contained herein is true and accurate to the best of my knowledge.

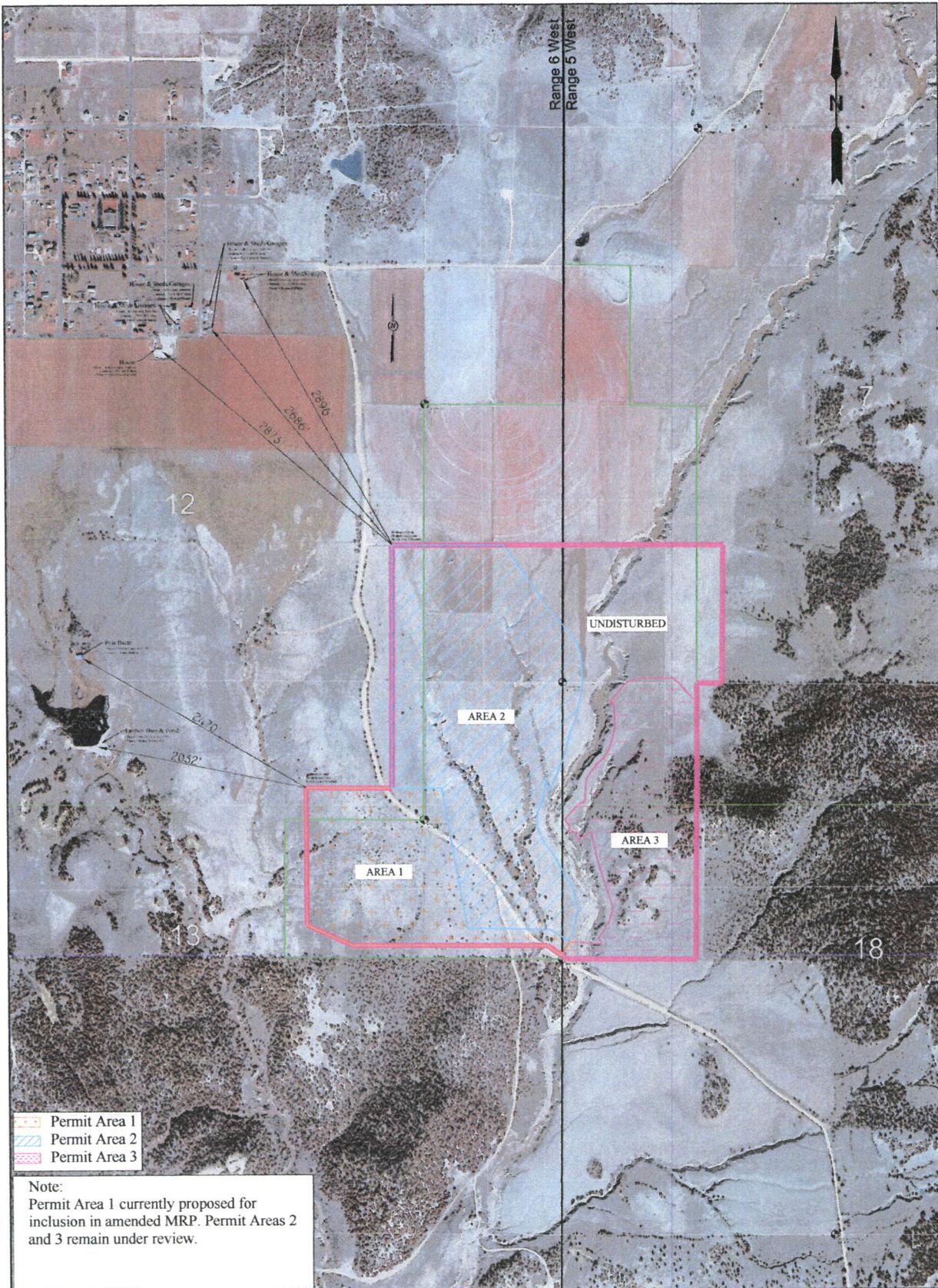
Dan W. Guy

Dan W. Guy

11/06/17

Date





- Permit Area 1
- Permit Area 2
- Permit Area 3

Note:
 Permit Area 1 currently proposed for inclusion in amended MRP. Permit Areas 2 and 3 remain under review.

LEGEND:

- LEASE BOUNDARY
- PRIVATE COAL OWNERSHIP
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER

DRAWN BY:	CHECKED BY:
K. NICHOLES	DWG
DRAWING:	DATE:
1-7	12/10/15
JOB NUMBER:	SCALE:
0001	1" = 400'
	SHEET

REVISIONS	
DATE:	BY:
12/17/15	KN
1/8/16	AC

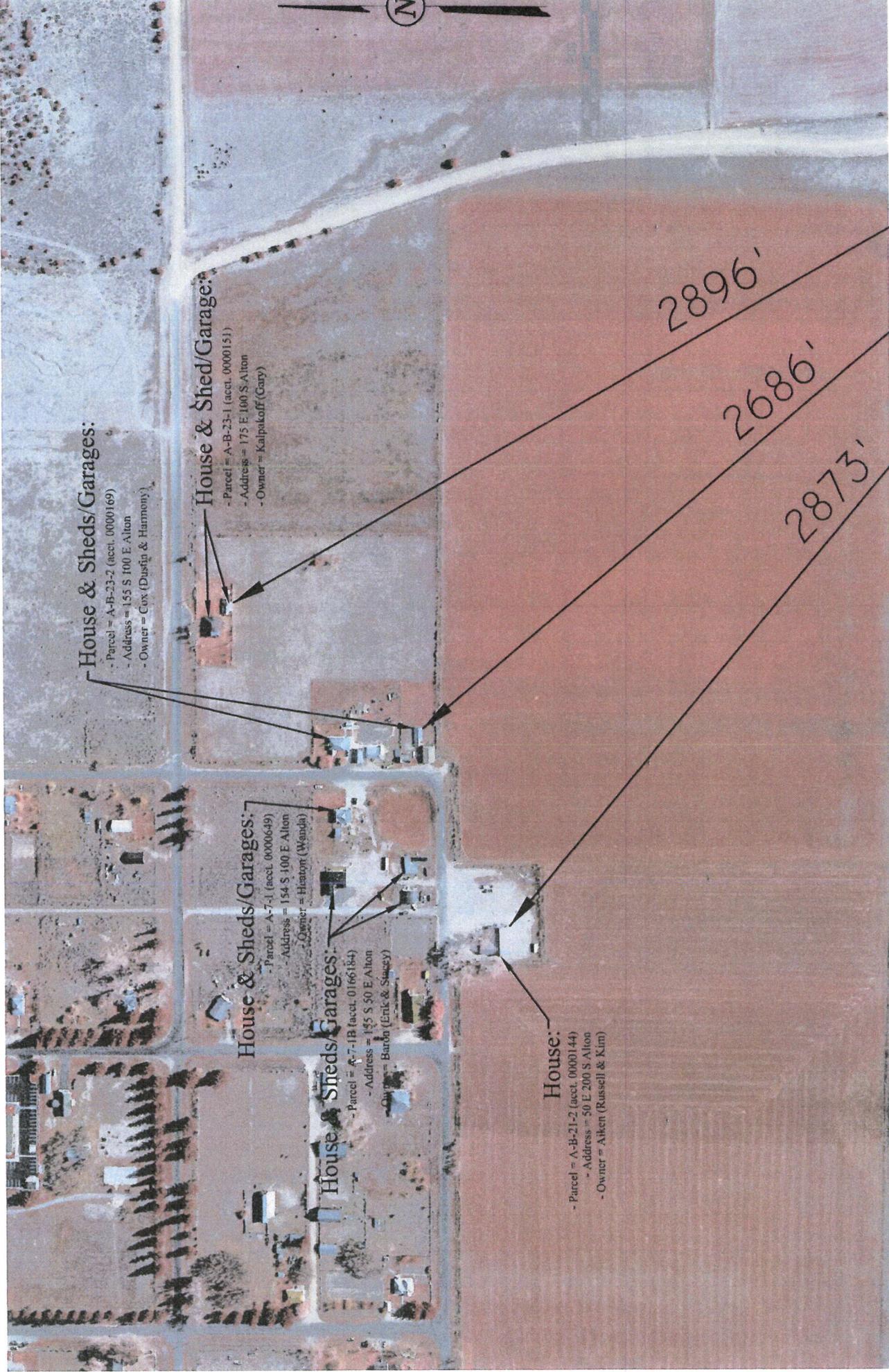
Permit Boundary and Nearest Alton Town Buildings

NORTH COAL HOLLOW PROJECT
 ALTON, UTAH

DRAWING: 1-7



463 North 100 West, Suite 1
 Cedar City, Utah 84721
 Phone: (435) 567-5331
 Fax: (435) 567-1192



House & Sheds/Garages:

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- Owner = Cox (Dustin & Harmony)

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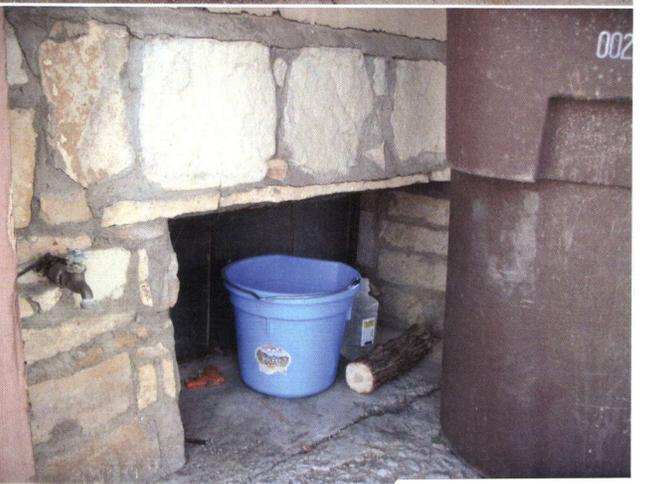
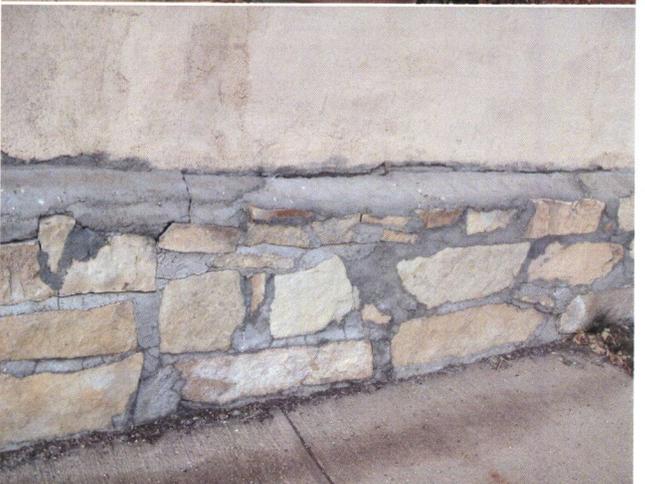
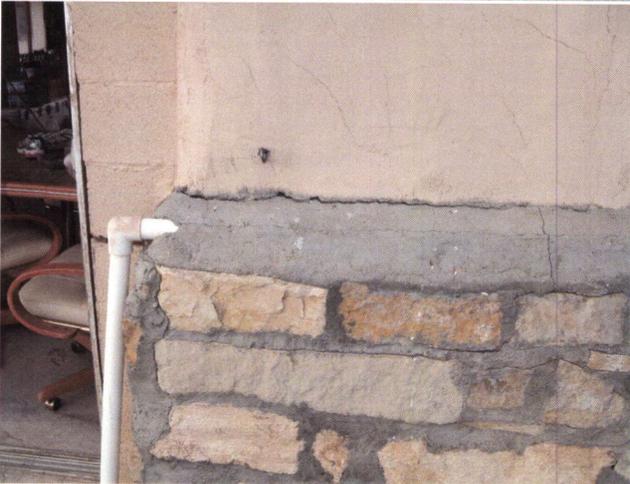
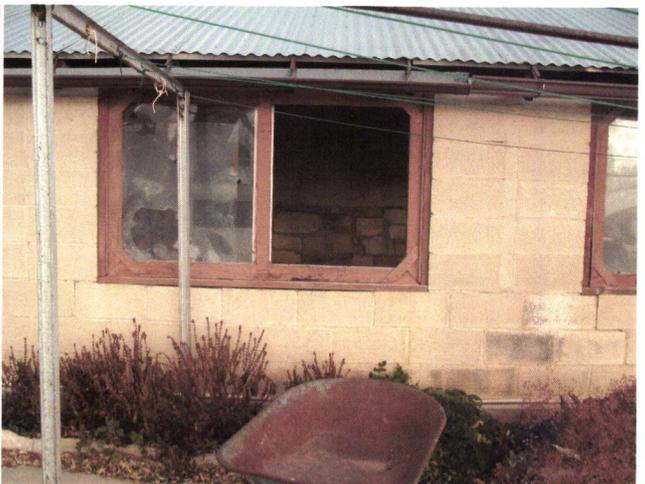
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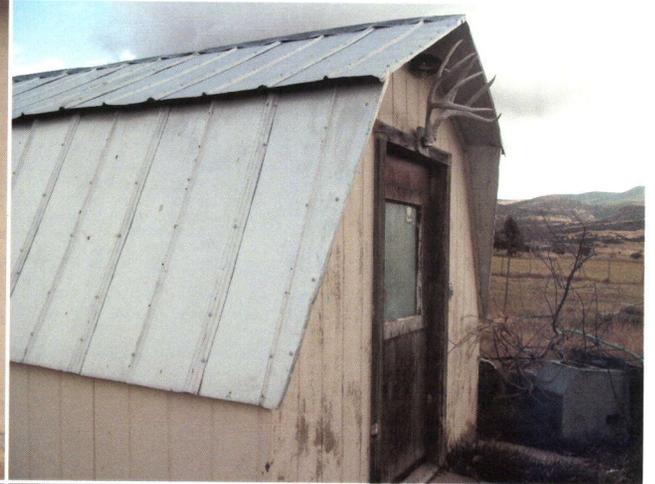
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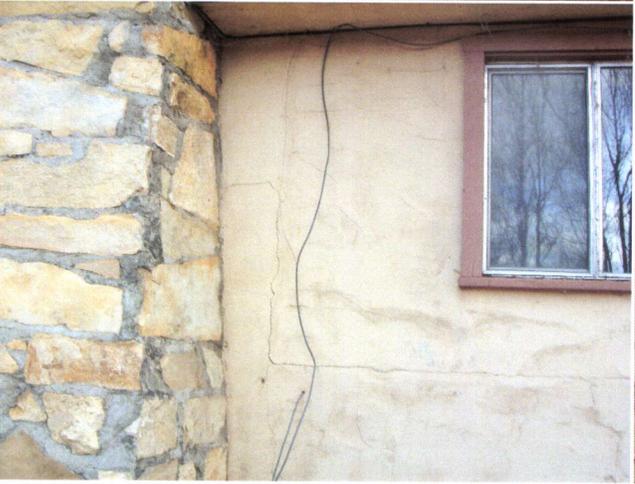
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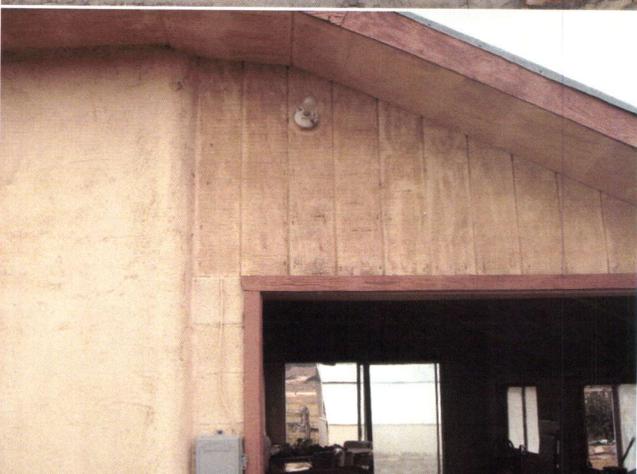
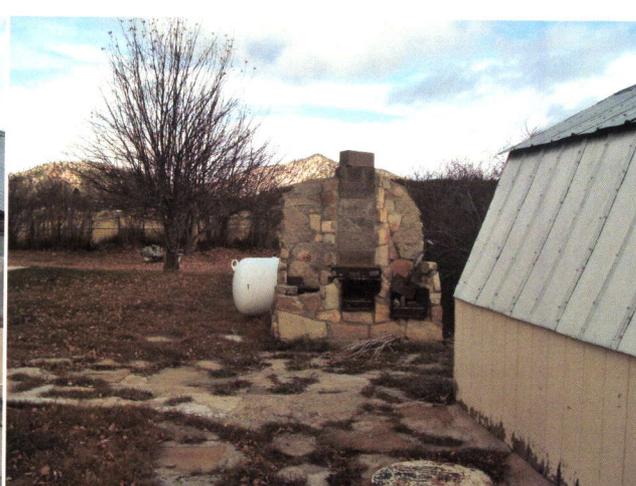
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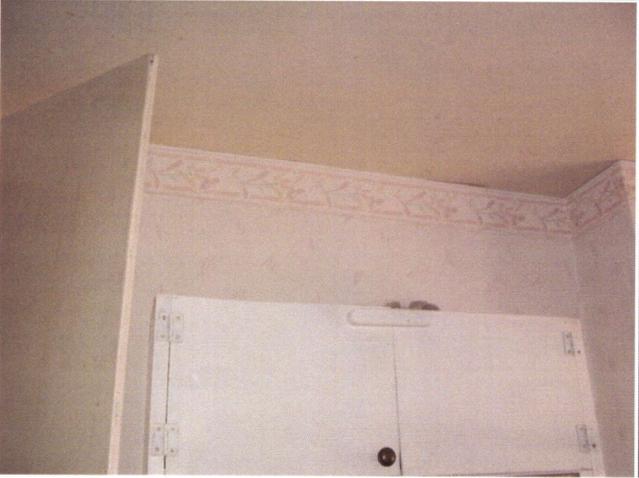


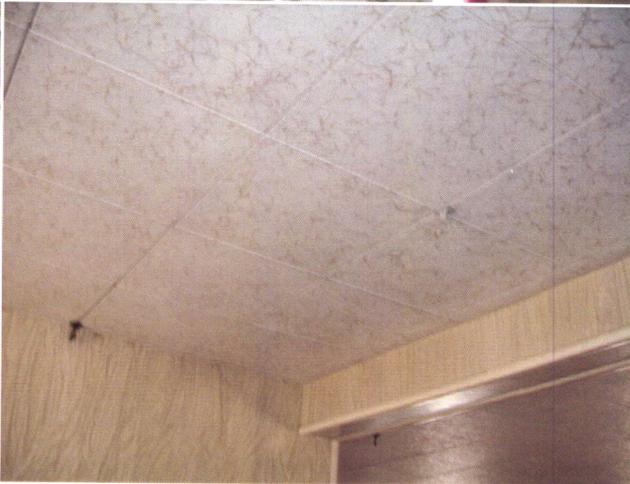
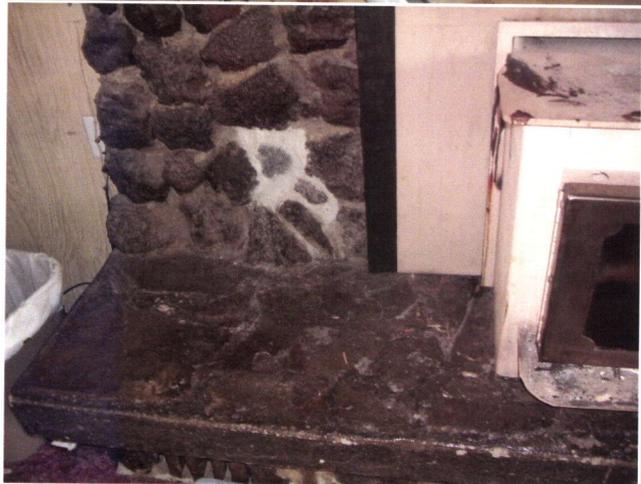


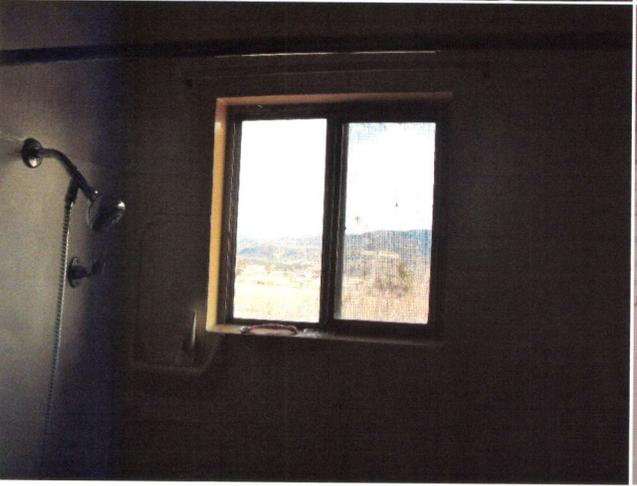






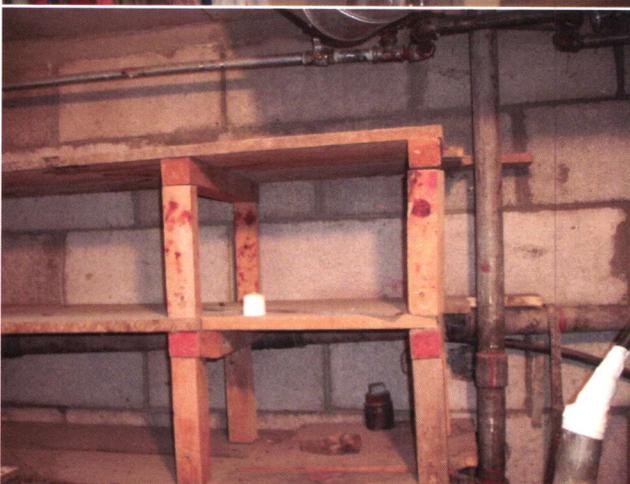
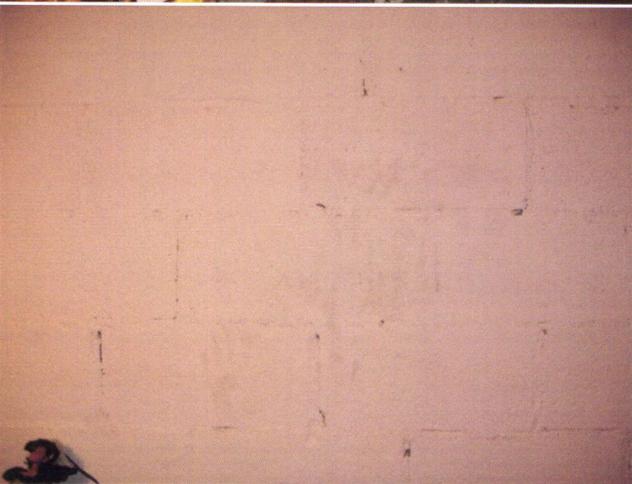
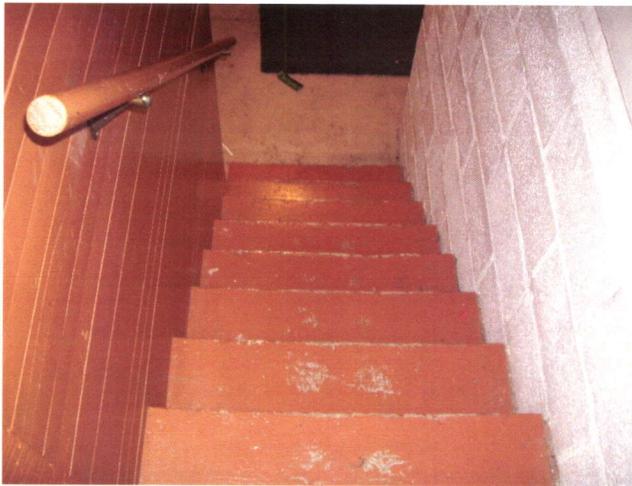


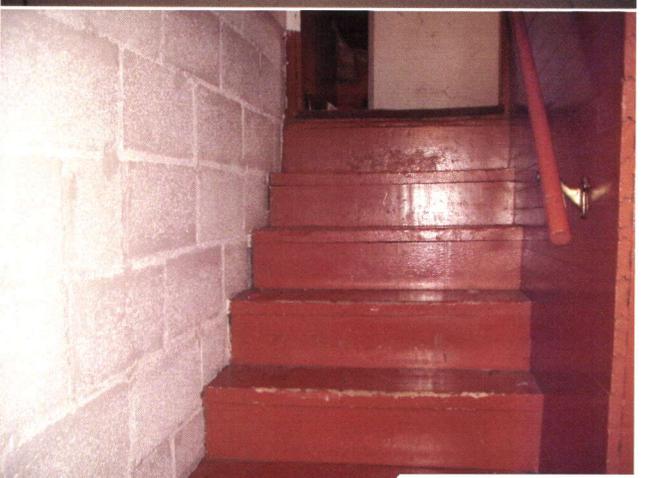
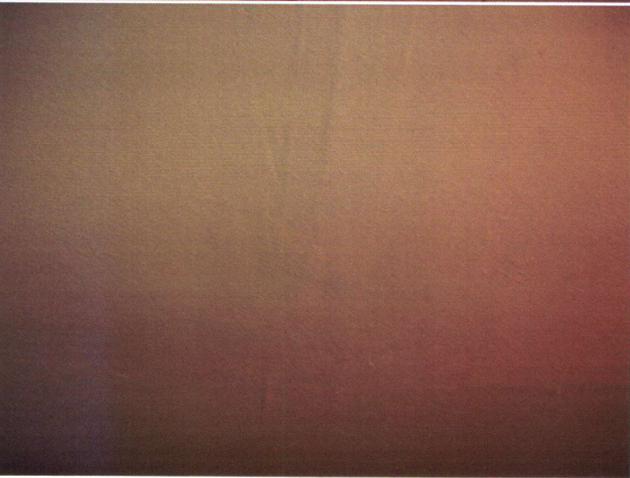
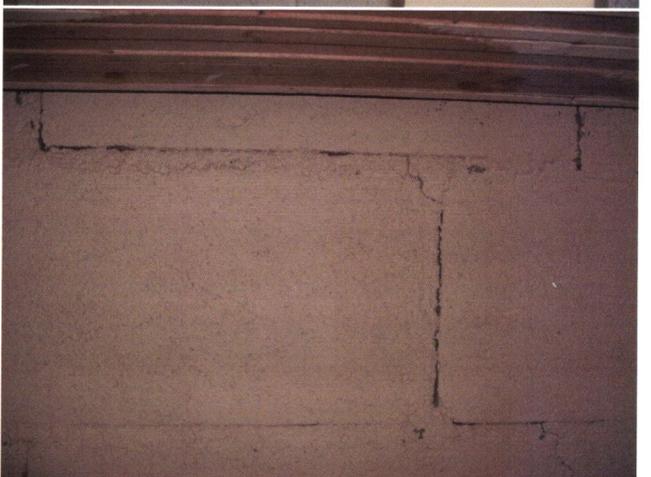
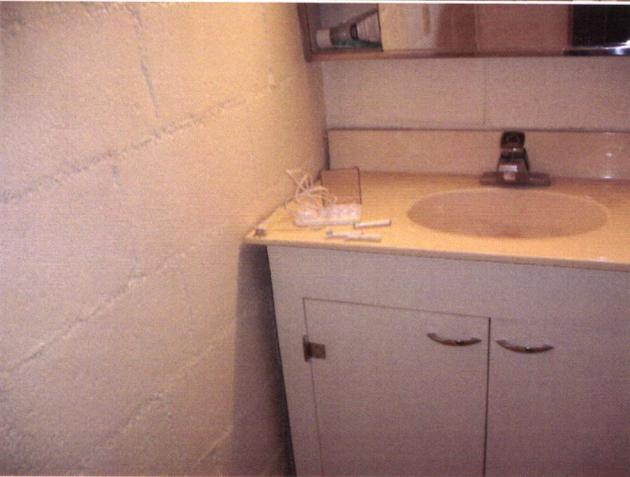
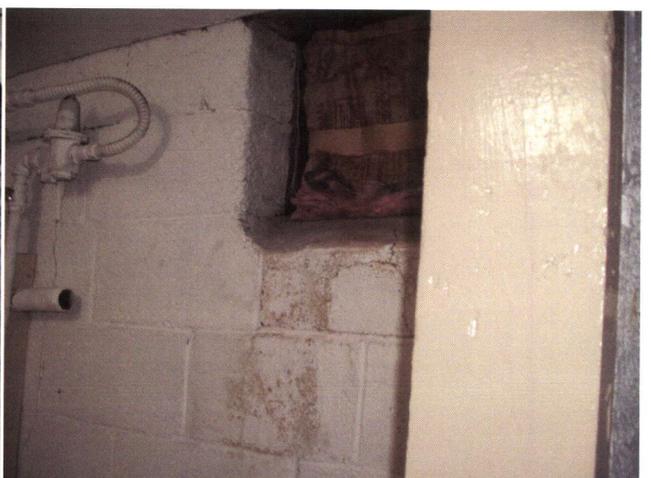
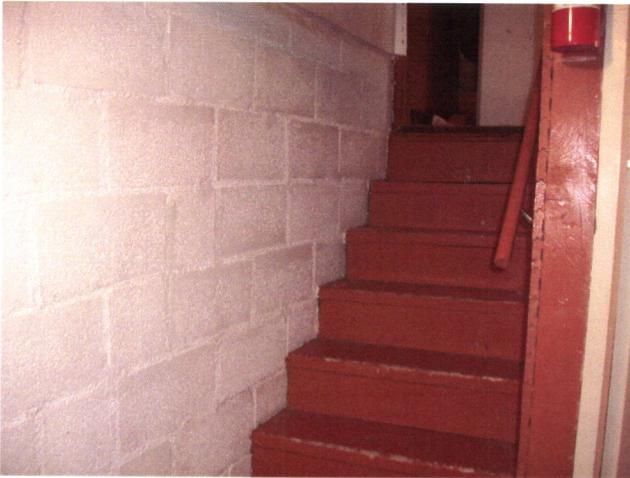


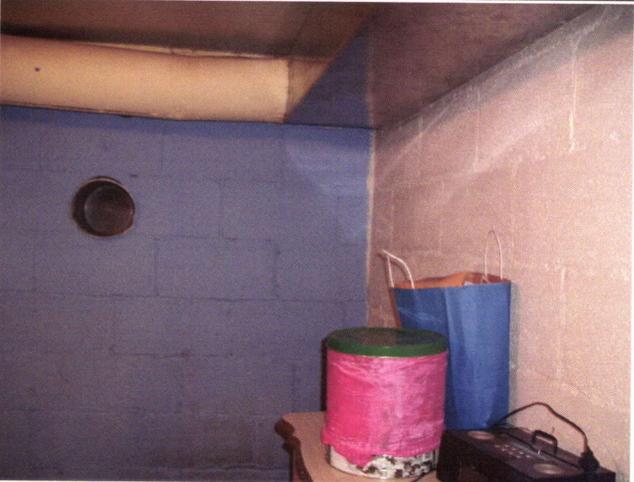
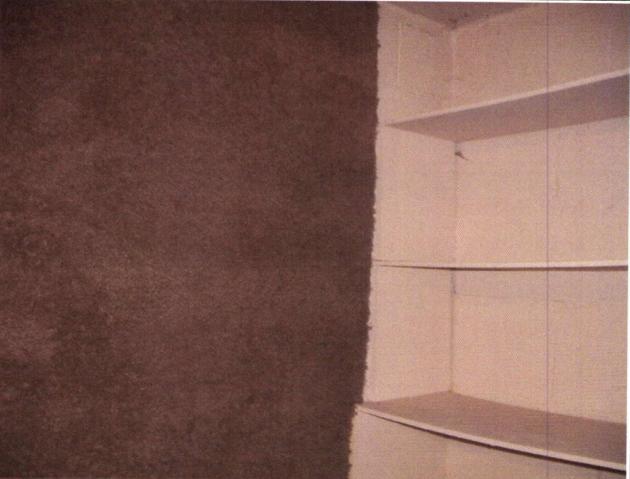


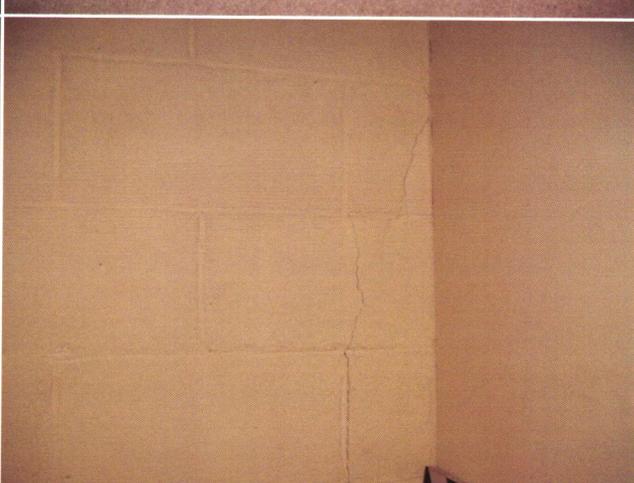
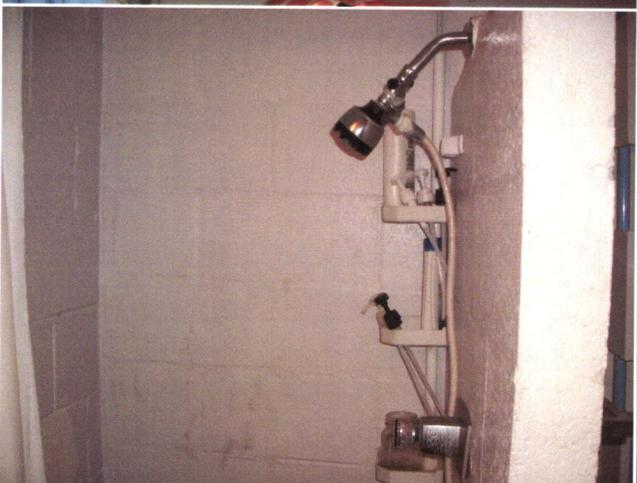


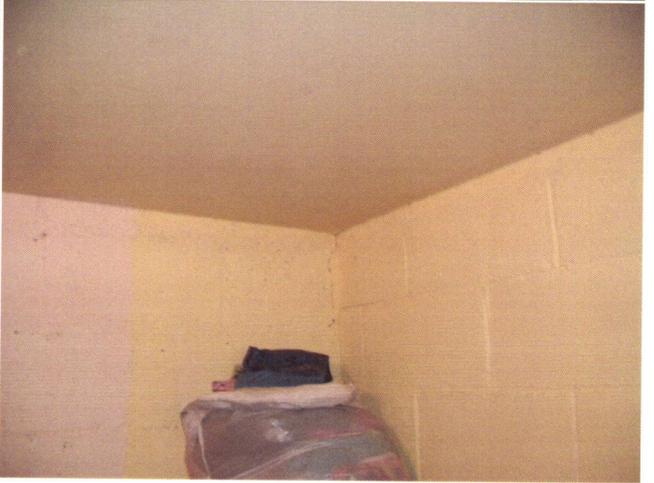
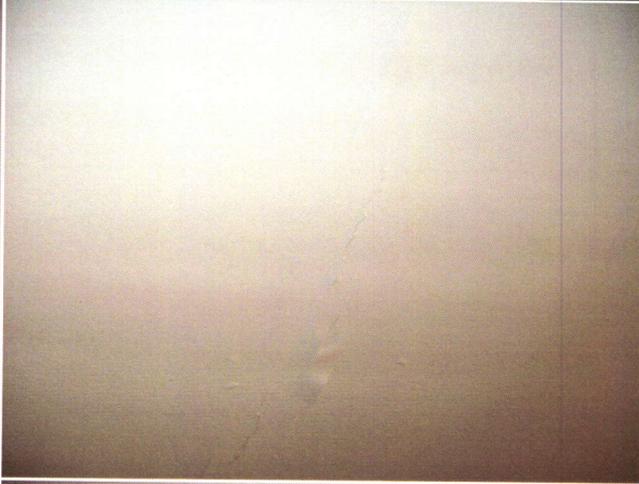
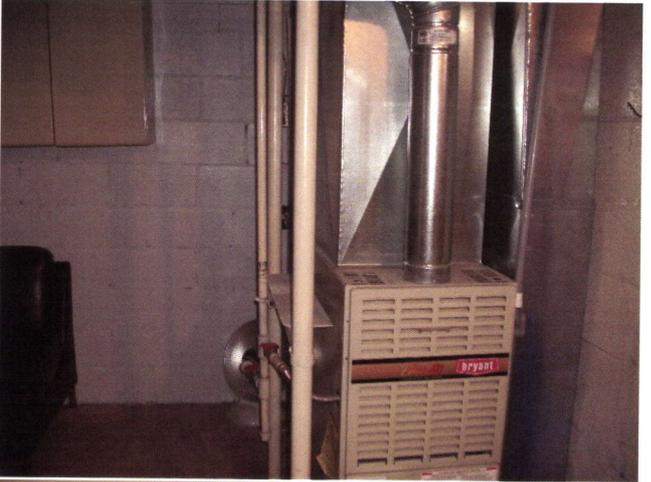


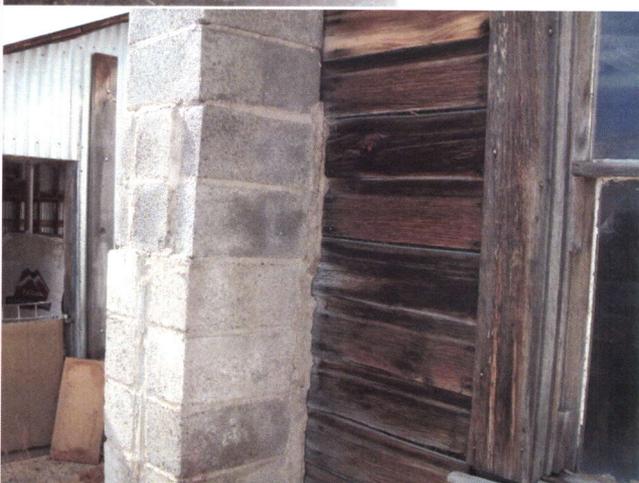


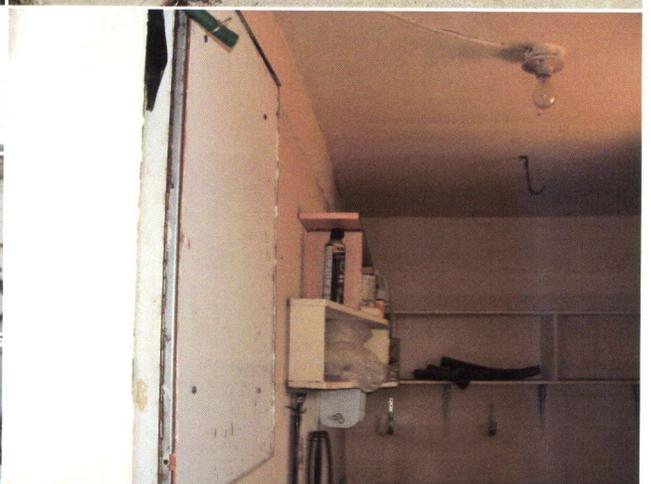
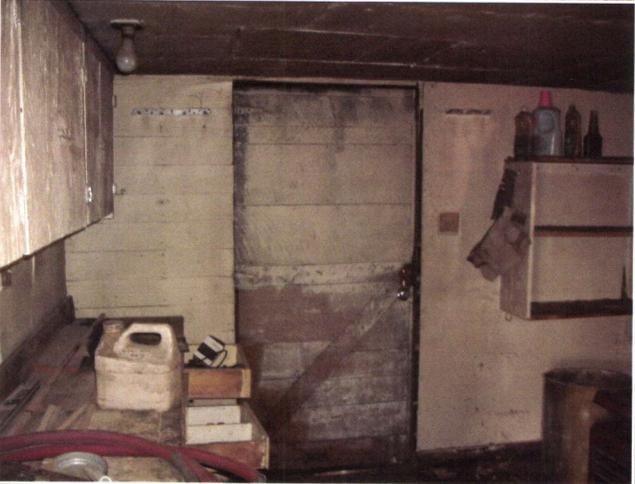
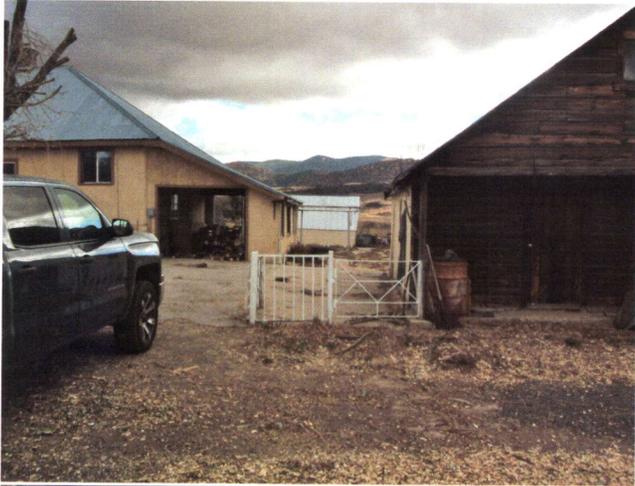


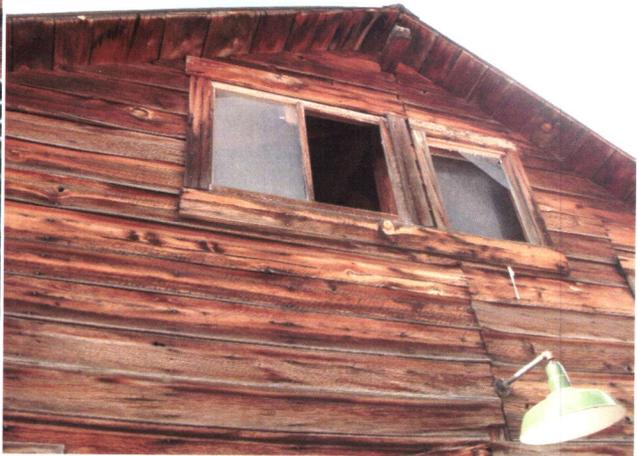
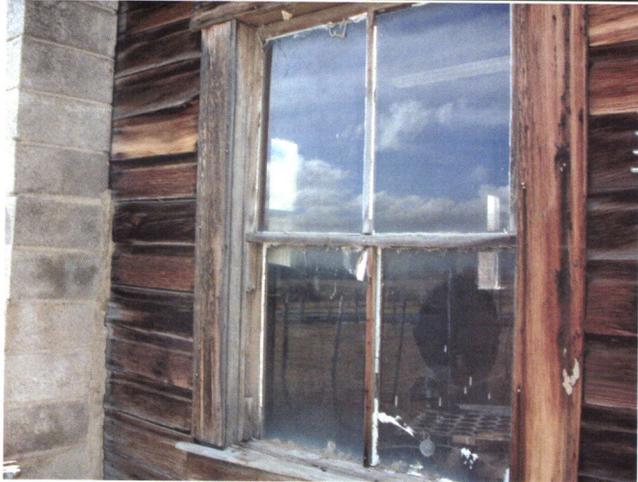
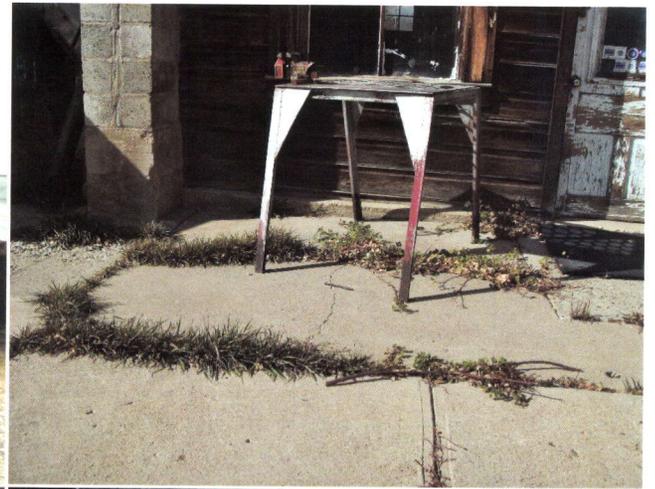
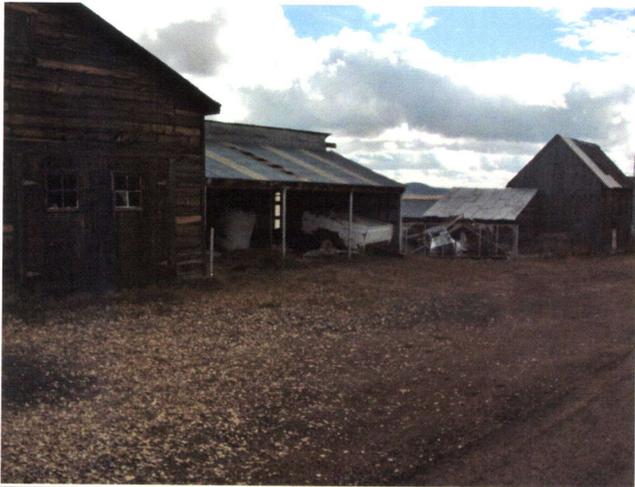


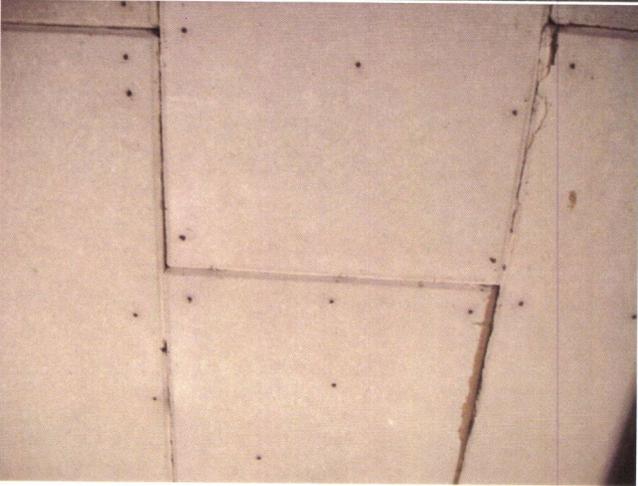
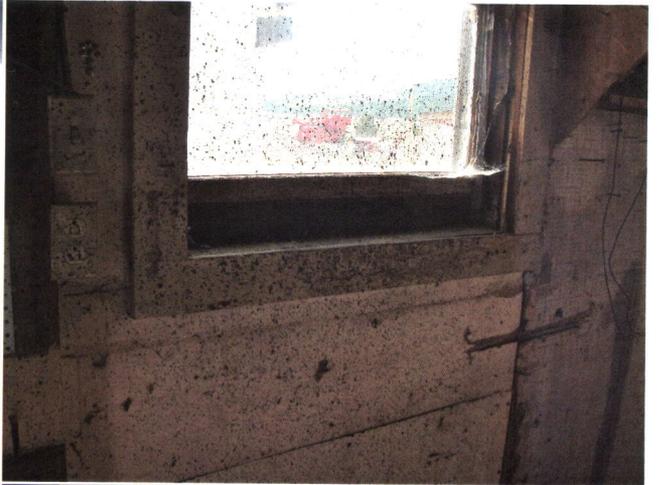
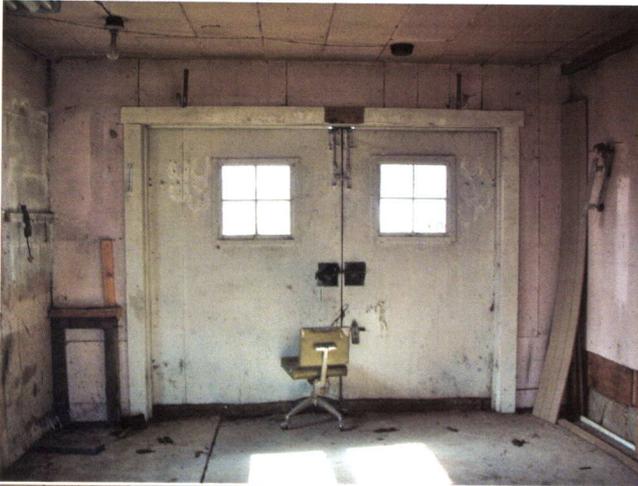


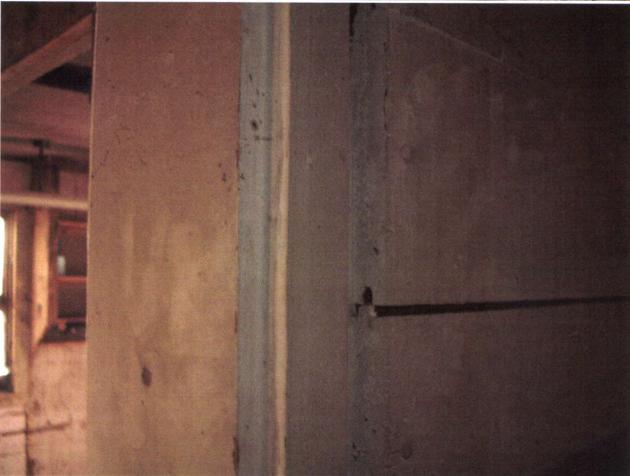
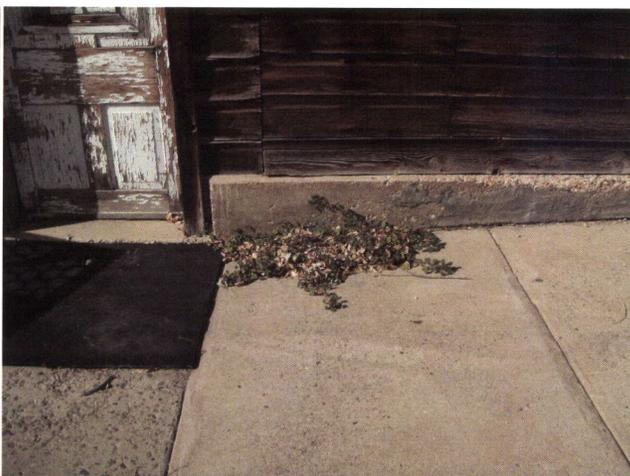
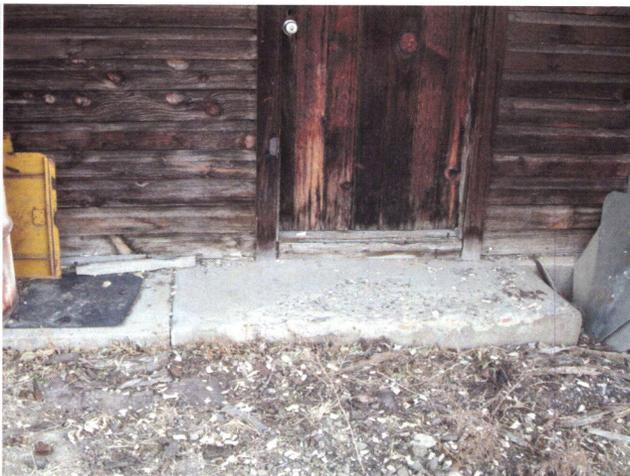


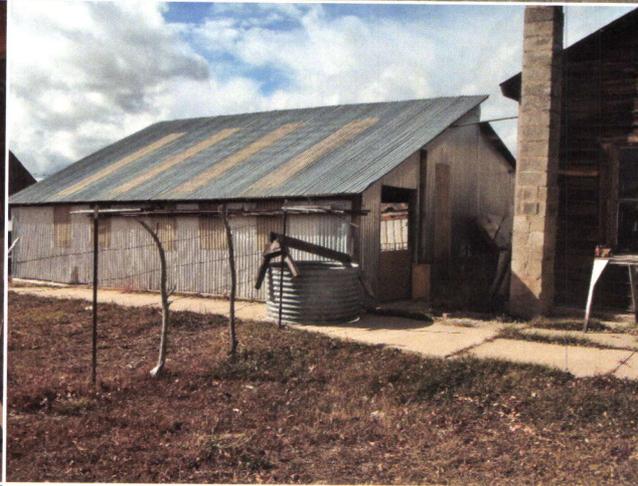
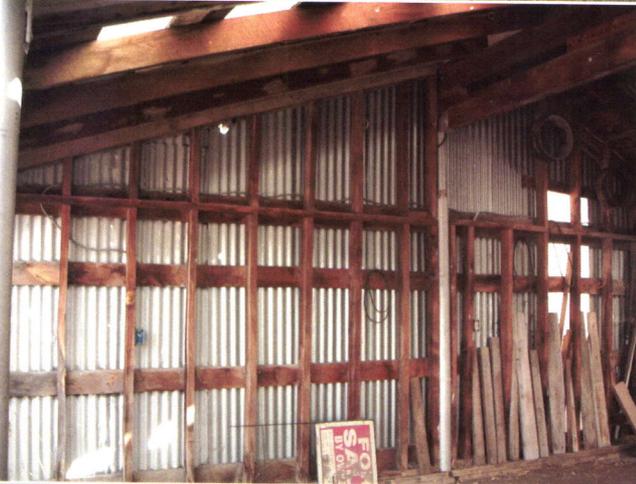
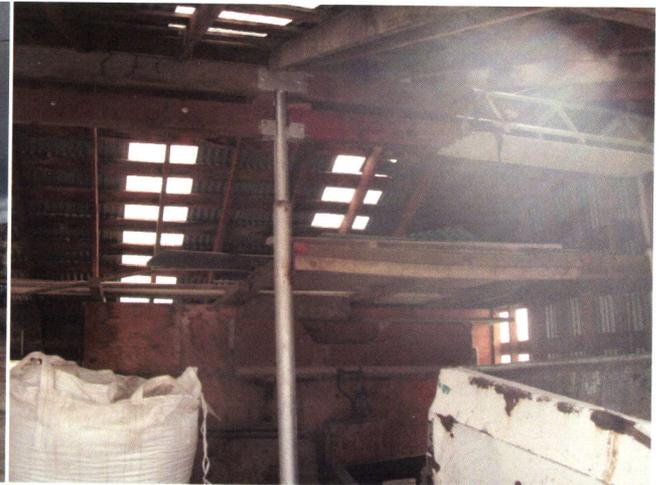
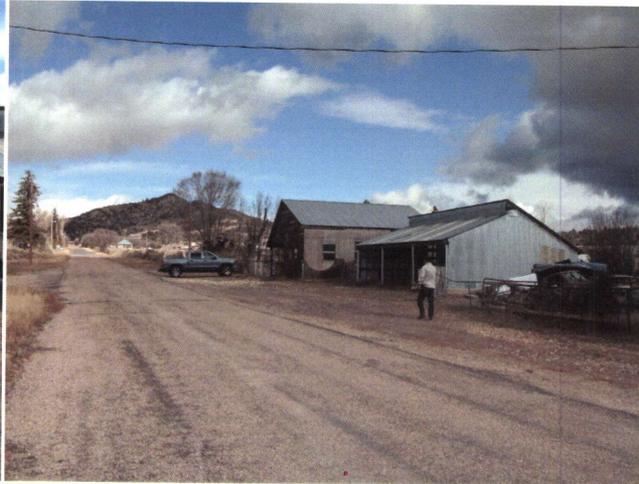
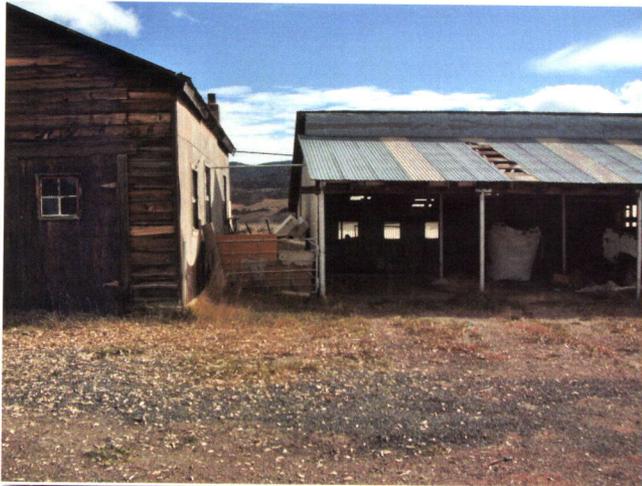


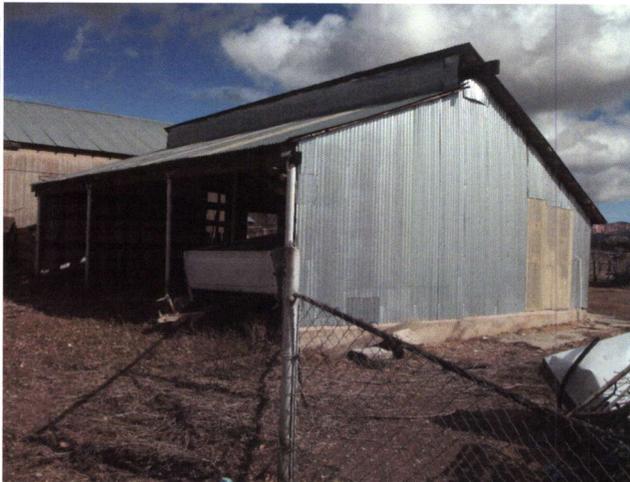


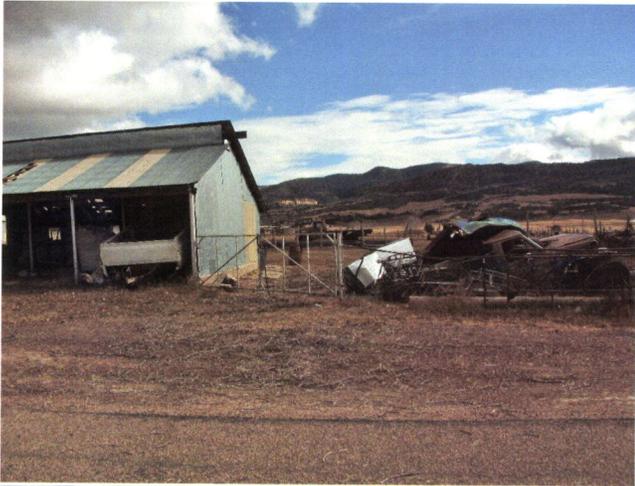


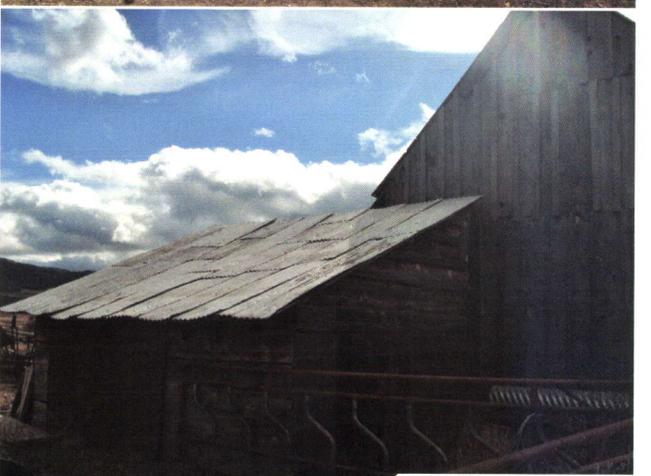
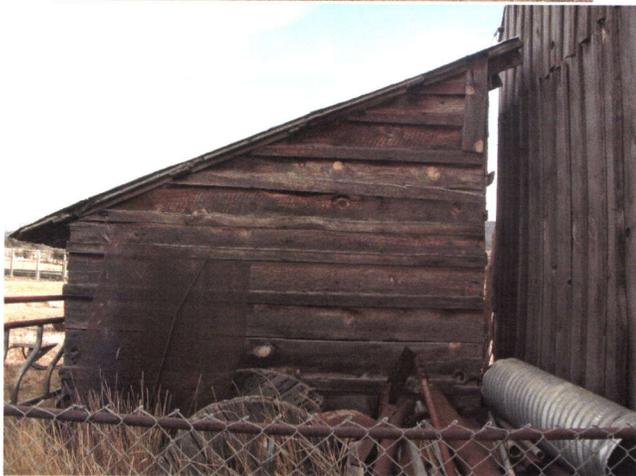
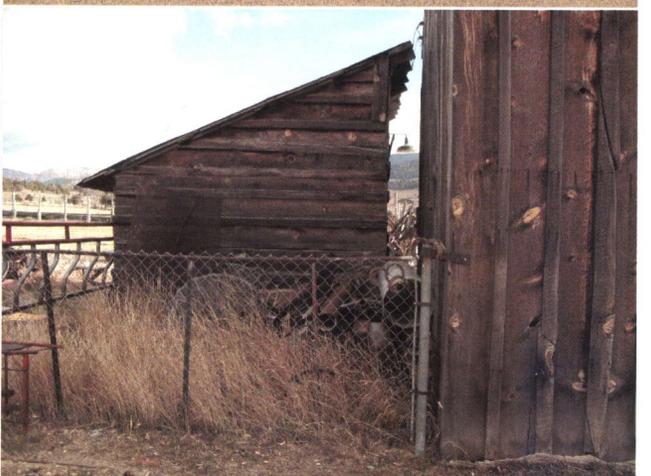
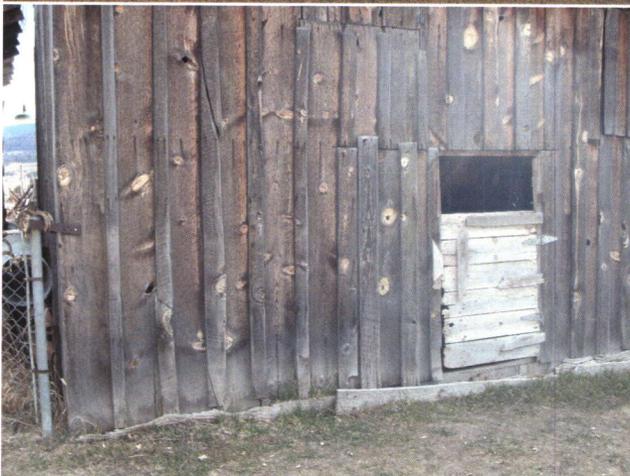
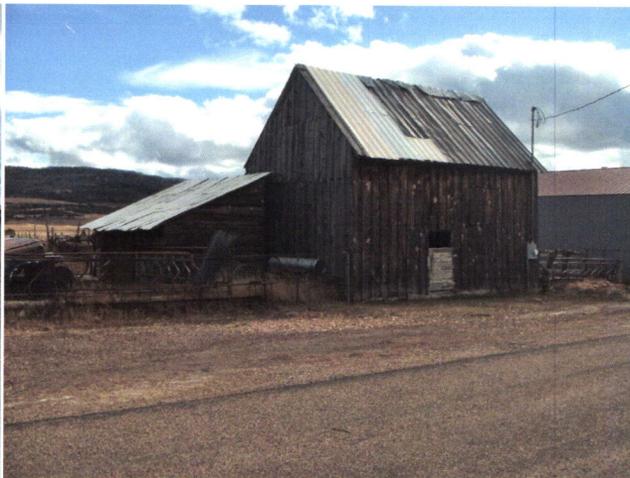












**PRE-BLASTING SURVEY
RUSTY AND KIM AIKEN PROPERTY
FOR
ALTON COAL DEVELOPMENT, LLC
COAL HOLLOW MINE**

**BY
DAN W. GUY, P.E.
NOVEMBER 6, 2017**

**RECEIVED
DEC 01 2017
DIV. OF OIL, GAS & MINING**

PRE-BLASTING SURVEY

RUSTY AND KIM AIKEN PROPERTY

Introduction

A pre-blasting survey was conducted on the structures at the Rusty and Kim Aiken property on November 6, 2017, for the Alton Coal Development, LLC Coal Hollow Mine. The survey was conducted by Dan W. Guy, a registered professional engineer in the State of Utah, P.E. No. 154168. Alton Coal Development was represented by Mr. Andrew Christensen, P.E., Technical Services Manager. The property owners are listed as Russell & Kim Aiken. Mr. Russel Aiken (aka Rusty), was present throughout the survey. This pre-blasting survey was conducted in accordance with, and per the requirements of, State of Utah Coal Mining Rules, R645-301-524.300 through R645-301-524.350.

General

The Aiken home is located approximately 2873' northwest of the northwest corner of the Coal Hollow Mine North Private Lease Permit Area boundary, as shown on Plate 1 of this report. The house is the only structure on this property.

The structure is shown on Plate 2 of this report. The home is located in an open, gentle-sloping area, which minimizes the potential for damage from slides or falling objects. The foundation was poured in 2006 and the house was constructed in 2007.

Procedure

The structure was examined and photographed to document existing conditions prior to initiation of the nearest blasting. A description of the structure, including construction, foundation and present condition is provided in this report, along with numerous photos on Plates 3 through 15.

It should be noted that the purpose of this survey is to document pre-blast conditions of the structure and not to try and predict or assess potential for damage from blasting. It should be further noted that this structure is greater than one-half mile from the nearest corner of the Alton Coal Hollow Mine North Private Lease Permit Area boundary, and although the regulations do not require pre-blast inspections at this distance, the service has been offered at no cost to the homeowners by the company.

Structure Descriptions

House – The house is basically wood frame construction with concrete footers over a compacted base and concrete stem walls with a crawlspace. The house exterior is finished with stucco all around and a rock facia on the front. The roof is metal with overhangs and aluminum soffit all around. There is a raised, covered concrete front porch with timber post supports. There is also a covered, raised deck in the rear of the house with composite decking and timber post supports. The only issues noted with the house exterior were 2 transverse cracks in the concrete on the front porch. There were no obvious offsets of the concrete, and these were likely just stress cracks since there were no joints on the porch. There is a small chunk of concrete out of the stem wall near the rear of the house, but it doesn't appear to have affected the integrity of the wall. There is also a small, open hole near the end of the driveway and garage. It appears to be an animal burrow, and hasn't caused any damage or stability issues as yet. Each of the above mentioned areas were photographed and are included with this report. The house exterior is shown on Plates 3 through 7 of this report.

The house is all on one level, sitting above the surrounding ground level on the concrete stem wall. This allows for a crawl space beneath the home as well as providing some drainage protection. The garage is built on slab near ground level. Mr. Aiken said the house was constructed with 2" x 6" outer walls. The house is constructed to modern standards, and there were no significant problems with stability noted during this inspection.

The main entry opens into a large combination great room and kitchen area. The kitchen and entry have a tile floor, while the great room is carpeted. The great room also has a large wood burning fireplace with a rock facing. The walls and sloped ceilings in this area are all textured, painted sheetrock. There are 2 bedrooms and a bathroom along the hallway from the kitchen area. Each of the bedrooms have carpet with painted, sheetrock walls and textured ceilings. The bathroom has a tile floor and ceramic tile around the tub/shower area. The walls and ceilings are also painted and textured sheetrock. The master bedroom is at the end of the hall. This area has carpet on the floor with painted, textured ceiling and walls. This bedroom adjoins the master bath, which has a tile floor and a walk-in shower with tile. The bathroom walls and ceilings are also painted and textured sheetrock.

There is a utility or mud room located to the right at the end of the hallway. This area contains the washer and dryer and water heater. It has a tile floor and painted, textured walls and ceiling. A doorway leads from the utility room to the garage. The garage sits at a slightly lower level from the house, and is accessed by concrete steps from the utility room. The garage has a concrete floor, with painted, textured sheetrock walls and ceiling.

As indicated above, the house is constructed to modern standards, and appears to be in excellent condition. There were no issues noted with the interior of the house. The house interior is shown on Plates 8 through 15.

PLATE INDEX

Plate 1 – General Location Map of Aiken Property and Mine Permit Area

Plate 2 – Aerial View of the Aiken Property Structures

Plate 3 – House Exterior

Plate 4 – House Exterior

Plate 5 – House Exterior

Plate 6 – House Interior

Plate 7 – House Exterior

Plate 8 – House Interior

Plate 9 – House Interior

Plate 10- House Interior

Plate 11- House Interior

Plate 12- House Interior

Plate 13- House Interior

Plate 14- House Interior

Plate 15- House Interior

CERTIFICATION

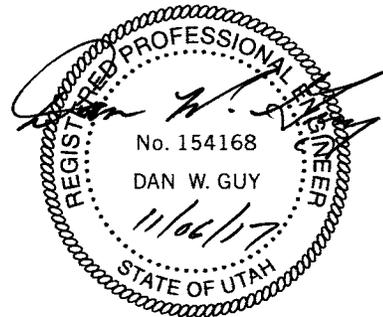
I, Dan W. Guy, a Registered Professional Engineer, State of Utah No. 154168, do hereby certify that I have conducted the pre-blasting survey on the Rusty and Kim Aiken property structures herein described. This survey was conducted in accordance with the State of Utah Coal Mining Rules, R645-301-524.300 through R645-301-524.350. The information contained herein is true and accurate to the best of my knowledge.

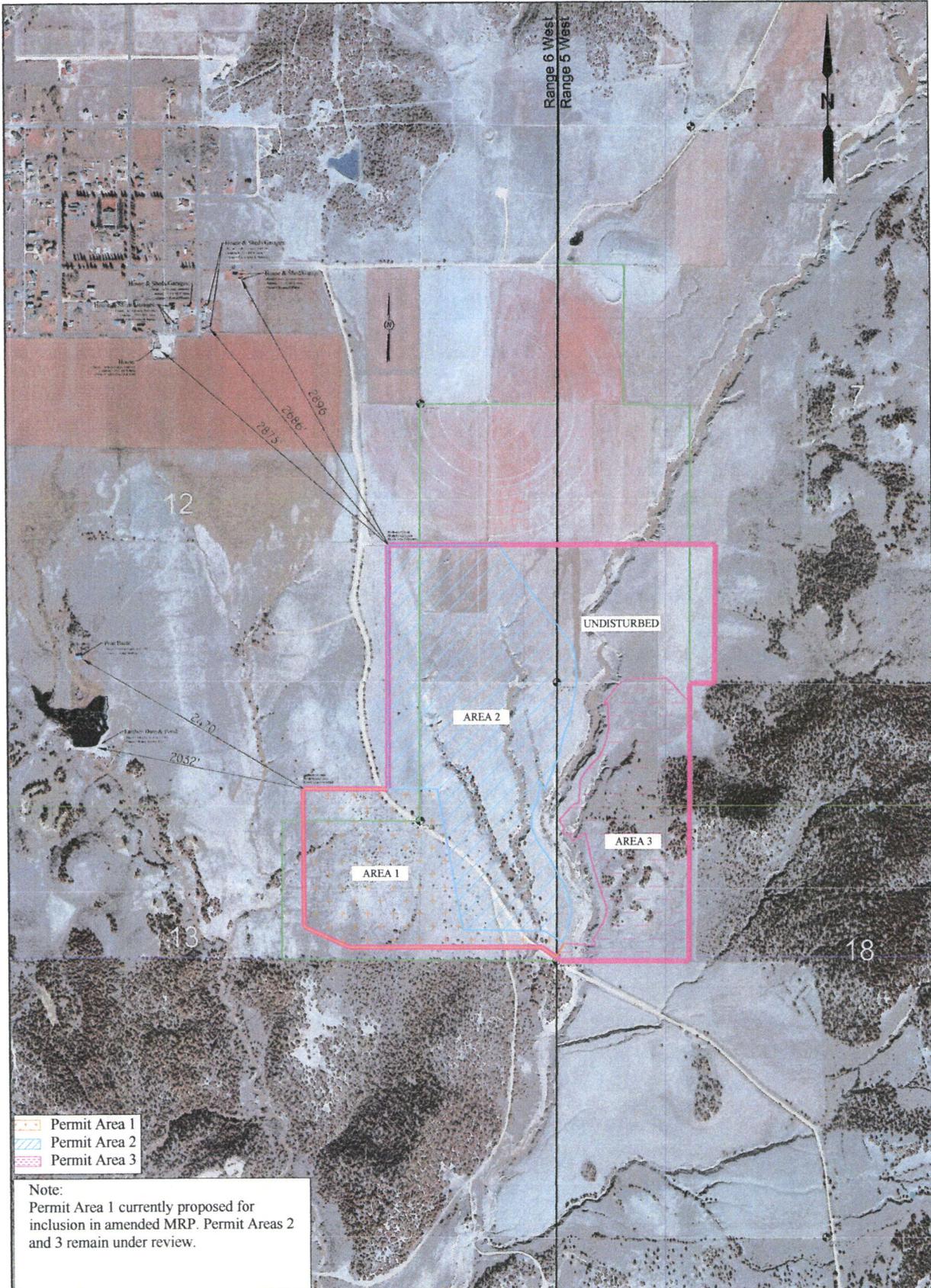
Dan W. Guy

Dan W. Guy

11/06/17

Date





Note:
Permit Area 1 currently proposed for inclusion in amended MRP. Permit Areas 2 and 3 remain under review.

	LEASE BOUNDARY
	PRIVATE COAL OWNERSHIP
	SECTION LINE FOUND SECTION CORNER
	FOUND PROPERTY CORNER

DRAWN BY:	K. NICHOLAS
CHECKED BY:	DWG
DRAWING:	1-7
JOB NUMBER:	0001
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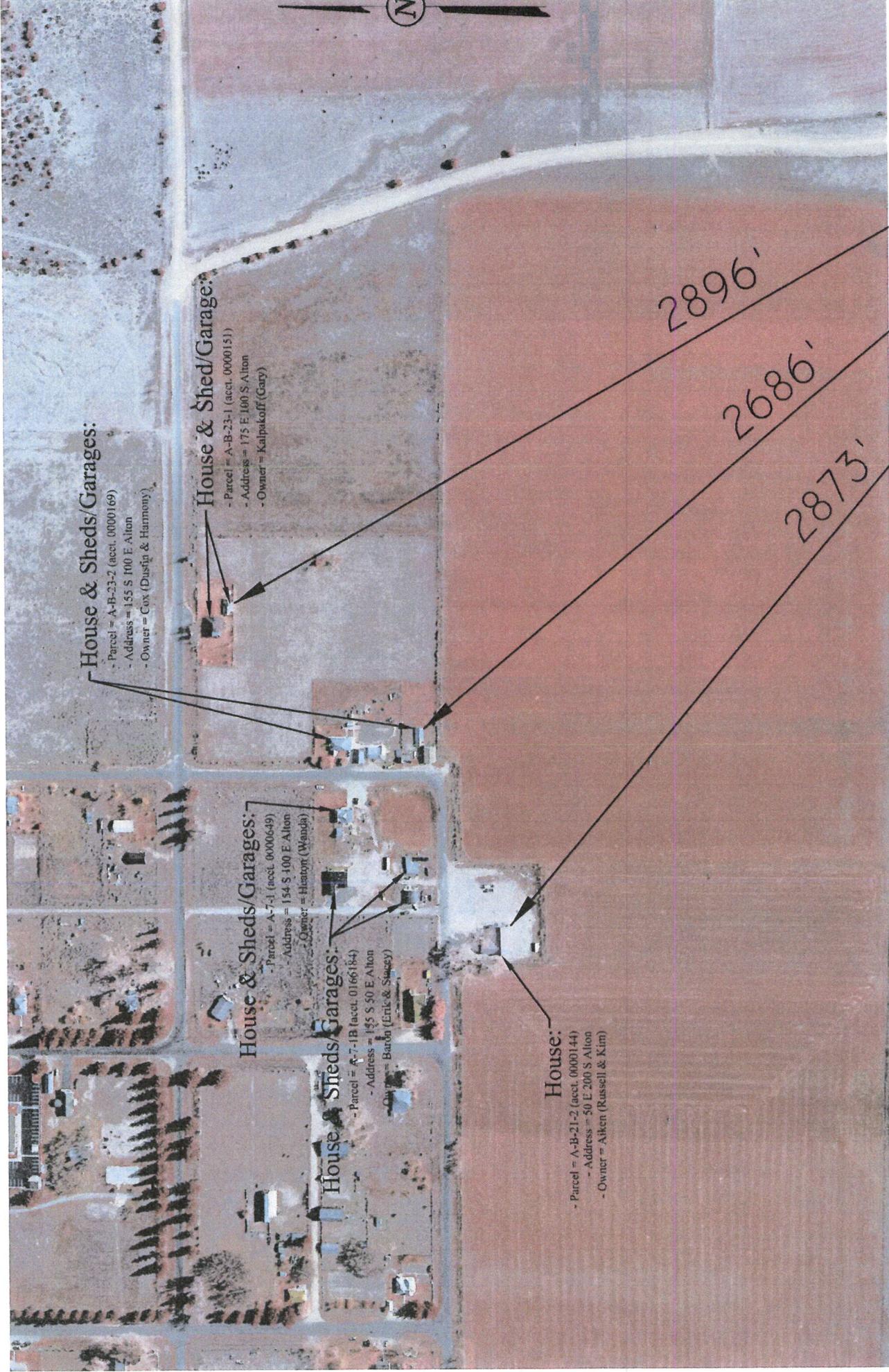
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N









