### **Preface**

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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### **How Soil Surveys Are Made**

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the fleld-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

### Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

### MAP LEGEND

Area of In	Area of Interest (AOI)	a	Spoil Area
	Area of Interest (AOI)	Q	Stony Spot
Solls		1	6
	Soil Map Unit Polygons	8	Very Stony Spot
}	Soil Map Unit Lines	€≫	Wet Spot
	Soil Map Unit Points	ℴ	Other
Special	Special Point Features	•	Special Line Features
9	Blowout	Water Features	tures
<b>X</b>	Borrow Pit	1	Streams and Canals
1	1000	Transportation	ation
	Clay spor	Ŧ	Rails
<b>\rightarrow</b>	Closed Depression	5	Interstate Highways
፠	Gravel Pit	)	US Routes
•:	Gravelly Spot		Major Roads
0	Landfill	d	Local Roads
4	Lava Flow	Background	ē
#	Marsh or swamp		Aerial Photography

# MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Waming: Soil Map may not be valid at this scale.

contrasting solls that could have been shown at a more detailed Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of

Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator distance and area. A projection that preserves area, such as the projection, which preserves direction and shape but distorts Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Fremont County Area, Colorado Survey Area Data: Version 21, Aug 24, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Severely Eroded Spot

Slide or Slip

Sinkhole

0 A Sodic Spot

Sandy Spot

Saline Spot

Miscellaneous Water

Mine or Quarry

¢ 0 0 >

Perennial Water

Rock Outcrop

Date(s) aerial images were photographed: May 18, 2020—May 21, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



### Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
65	Manvel silt loam, 0 to 2 percent slopes	11.1	81.7%
83	Penrose-Minnequa complex, 1 to 15 percent slopes	2.5	18.3%
Totals for Area of Interest		13.6	100.0%

### **Map Unit Descriptions**

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An undifferentiated group is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

### Fremont County Area, Colorado

### 65—Manvel silt loam, 0 to 2 percent slopes

### **Map Unit Setting**

National map unit symbol: 2rgql Elevation: 3,600 to 6,500 feet

Mean annual precipitation: 12 to 14 inches Mean annual air temperature: 48 to 54 degrees F

Frost-free period: 130 to 170 days

Farmland classification: Prime farmland if irrigated

### **Map Unit Composition**

Manvel and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

### **Description of Manyel**

### Setting

Landform: Fans, terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear, convex

Parent material: Loess

### Typical profile

A - 0 to 5 inches: silt loam

Bk1 - 5 to 32 inches: silt loam

Bk2 - 32 to 48 inches: silt loam

Bky - 48 to 79 inches: silt loam

### **Properties and qualities**

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 45 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 5.0

Available water supply, 0 to 60 inches: Very high (about 12.6 inches)

### Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: B

Ecological site: R069XY006CO - Loamy Plains

Forage suitability group: Loamy, Limy (G069XW022CO)

Other vegetative classification: Loamy, Limy (G069XW022CO), Loamy Plains #6

(069XY006CO\_2) Hydric soil rating: No

### **Minor Components**

### Minnegua

Percent of map unit: 10 percent Landform: Pediments, ridges

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Crest

Down-slope shape: Linear

Across-slope shape: Linear, convex

Ecological site: R069XY006CO - Loamy Plains

Other vegetative classification: Loamy (G069XW017CO)

Hydric soil rating: No

### Manzanola

Percent of map unit: 5 percent Landform: Fans, drainageways Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R069XY006CO - Loamy Plains

Other vegetative classification: Saline Overflow #37 (069XY037CO\_2), Clayey

(G069XW001CO) Hydric soil rating: No

### 83—Penrose-Minnequa complex, 1 to 15 percent slopes

### **Map Unit Setting**

National map unit symbol: 2rgr8 Elevation: 4,500 to 6,500 feet

Mean annual precipitation: 12 to 14 inches Mean annual air temperature: 48 to 54 degrees F

Frost-free period: 125 to 170 days

Farmland classification: Not prime farmland

### **Map Unit Composition**

Penrose and similar soils: 50 percent Minnequa and similar soils: 35 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

### **Description of Penrose**

### Setting

Landform: Scarps, hogbacks, hills

Landform position (two-dimensional): Shoulder, backslope Landform position (three-dimensional): Crest, side slope

Down-slope shape: Linear, convex

Across-slope shape: Linear, convex

Parent material: Slope alluvium over residuum weathered from limestone

### Typical profile

A - 0 to 4 inches: channery loam
C - 4 to 15 inches: channery loam
R - 15 to 79 inches: bedrock

### Properties and qualities

Slope: 1 to 15 percent

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 70 percent Maximum salinity: Nonsaline (0.1 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 Inches: Very low (about 1.8 inches)

### Interpretive groups

Land capability classification (irrigated): 6s Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: R069XY058CO - Limestone Breaks

Other vegetative classification: Limestone Breaks #58 (069XY058CO\_2)

Hydric soil rating: No

### **Description of Minnegua**

### Setting

Landform: Ridges, interfluves

Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Convex, linear

Parent material: Slope alluvium over residuum weathered from limestone and

shale

### Typical profile

A - 0 to 6 inches: silt loam Bw - 6 to 18 inches: silt loam Bky - 18 to 32 inches: loam Cr - 32 to 79 inches: bedrock

### **Properties and qualities**

Slope: 1 to 9 percent

Depth to restrictive feature: 20 to 39 inches to paralithic bedrock

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 45 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Nonsaline to slightly saline (0.1 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 8.0

Available water supply, 0 to 60 inches: Low (about 4.8 inches)

### Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 6e

Hydrologic Soil Group. C

Ecological site: R069XY006CO - Loamy Plains
Forage suitability group: Loamy (G069XW017CO)
Other vegetative classification: Loamy (G069XW017CO)

Hydric soil rating: No

### **Minor Components**

### **Shinale**

Percent of map unit: 5 percent Landform: Hills, scree slopes

Landform position (two-dimensional): Shoulder, backslope Landform position (three-dimensional): Side slope, head slope

Down-slope shape: Convex

Across-slope shape: Linear, convex

Ecological site: R069XY046CO - Shaly Plains

Other vegetative classification: Shaly Plains #46 (069XY046CO\_2), Needs Field

Review (G069XW050CO)

Hydric soil rating: No

### **Rock outcrop**

Percent of map unit: 5 percent

Hydric soil rating: No

### Wilid

Percent of map unit: 5 percent

Landform: Interfluves

Landform position (two-dimensional): Footslope, toeslope

Landform position (three-dimensional): Interfluve

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R069XY006CO - Loamy Plains

Other vegetative classification: Loamy (G069XW017CO), Loamy Plains #6

(069XY006CO\_2) Hydric soil rating: No

### References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\_054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\_053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2\_053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE\_DOCUMENTS/nrcs142p2\_052290.pdf

Lot Name:

Al

Lot Area (Square Feet):

200002.46

Lot Area (Acres):

4.59

Closing Direction:

N57°26'05"W

Closing Distance:

0.0027

### Course Data: (Mapcheck Through Radius Points Method)

Point

Northing

Direction

Distance

Begin

1089.4250

-6191.9712

S00°05'01"E

632.14

-6191.0487

N89°35'20"E

316.29

457.2857 459.5551

-5874.7669

N00°03'22"W

631.95

1091.5048

-5875.3858

Easting

S89°37'24"W

316.59

End

1089.4235

-6191.9689

Error of Closure

1:697956

Departure in Y (Northing): Departure in X (Easting):

0.0015

-0.0023

Lot Name:

BI

Lot Area (Square Feet):

200086.99

Lot Area (Acres):

4.59

Closing Direction:

N81°34T9"E

Closing Distance:

0.0089

### Course Data: (Mapcheck Through Radius Points Method)

Point

Northing

Easting

Direction

Distance

Begin

-5875.3830

N89°37'24"E

316.59

1091.5063

S00°04'H"E

631.76

1093.5876

-5558.7998

S89°35'20"W

316.75

461.8280 459.5553

-5558.0311 -5874.7729

N00°03'22"W

631.95

End

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-5875.3918

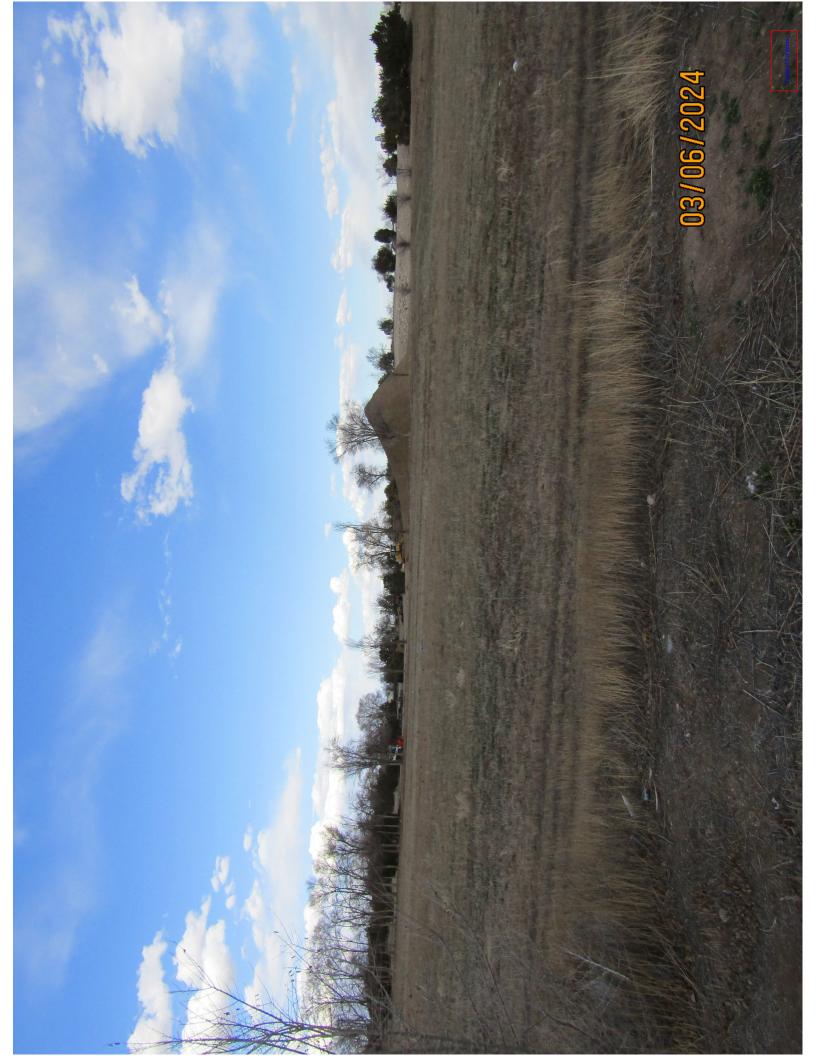
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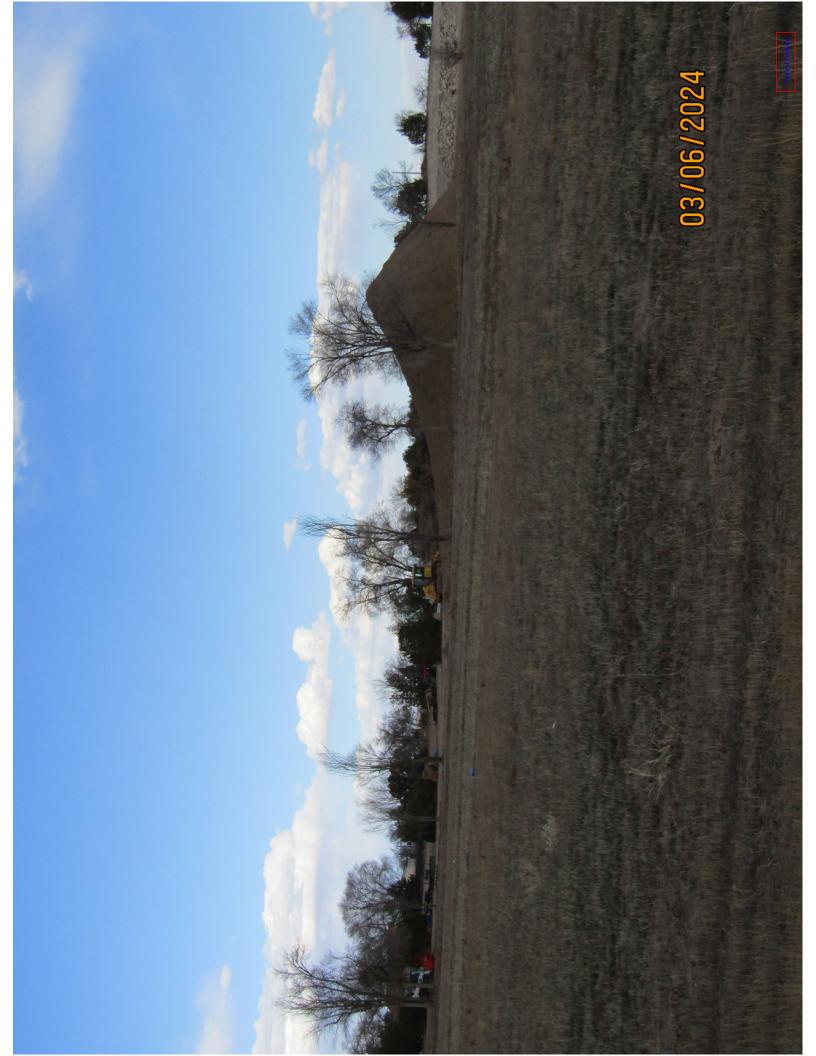
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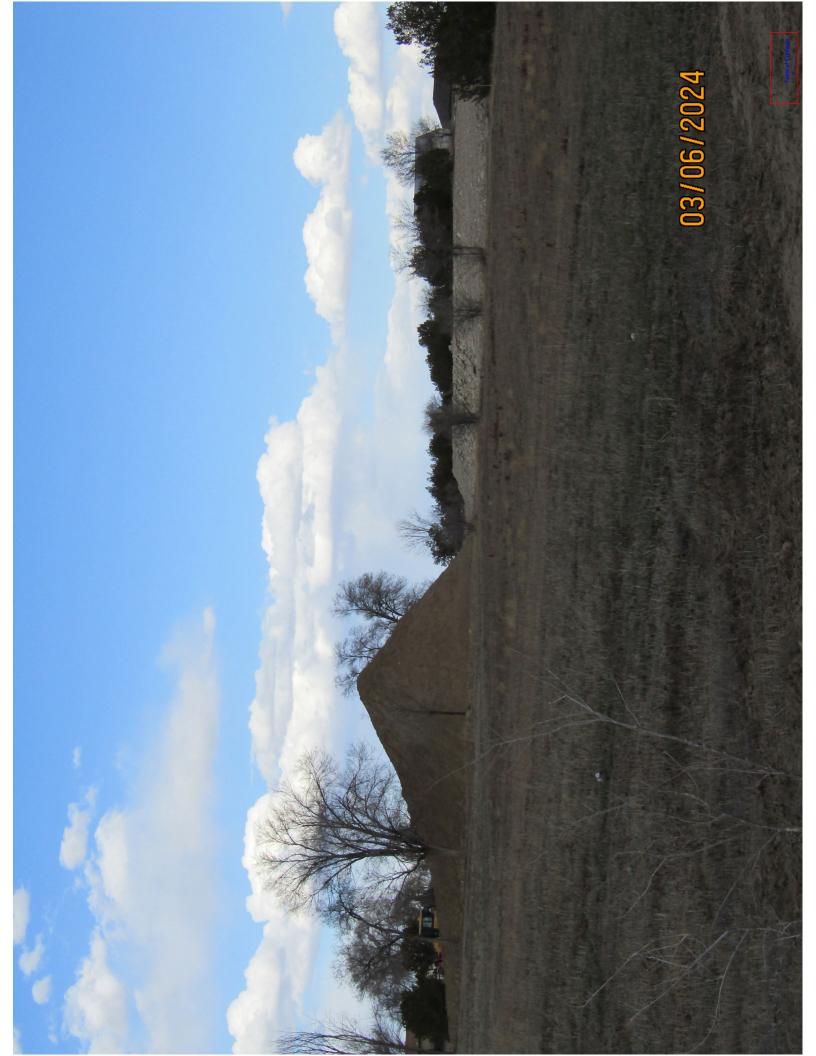
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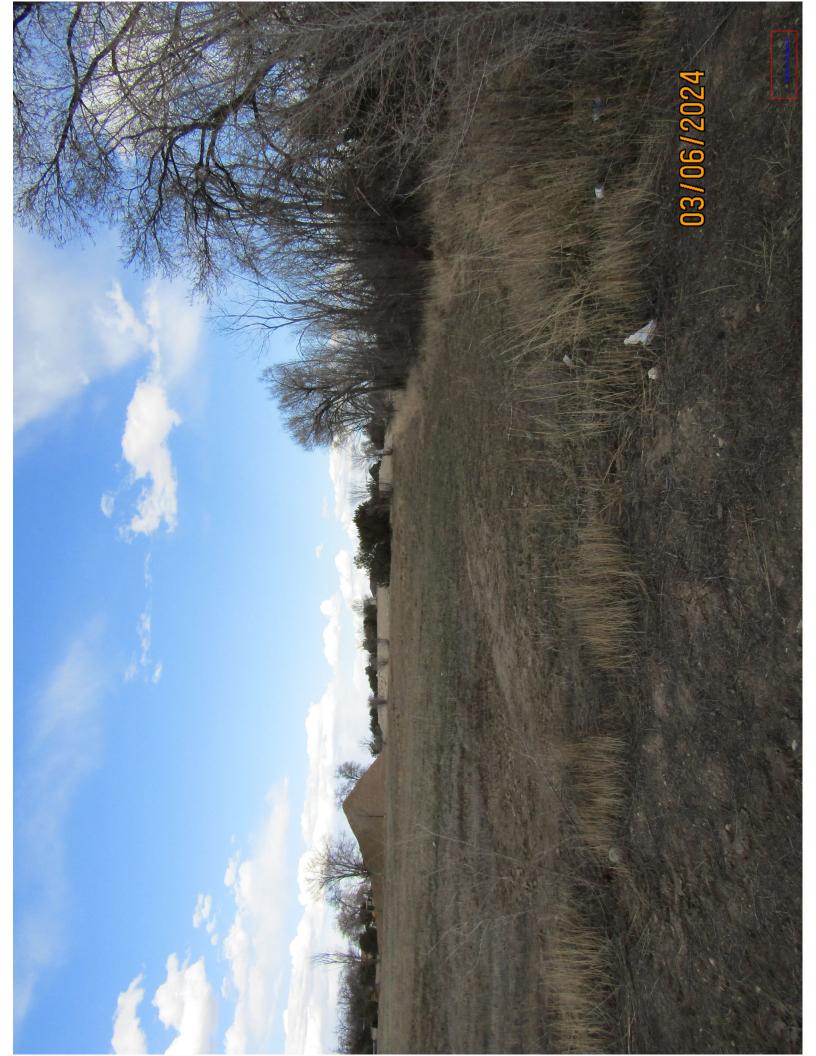
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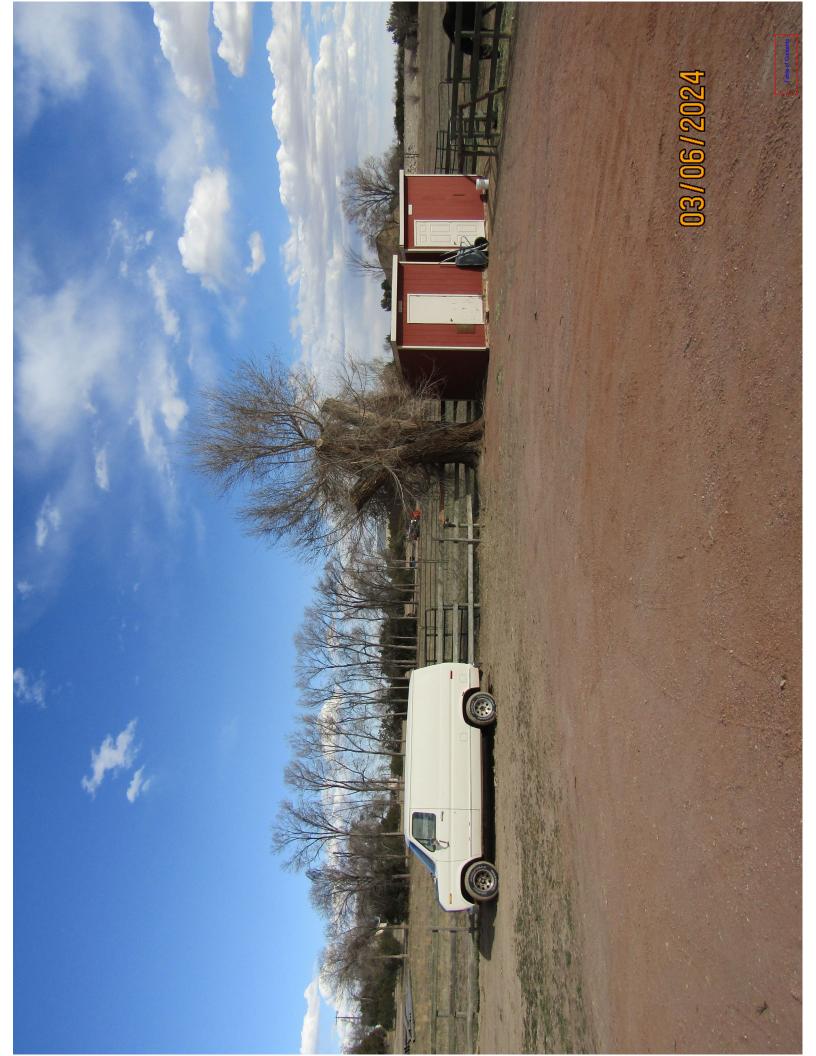


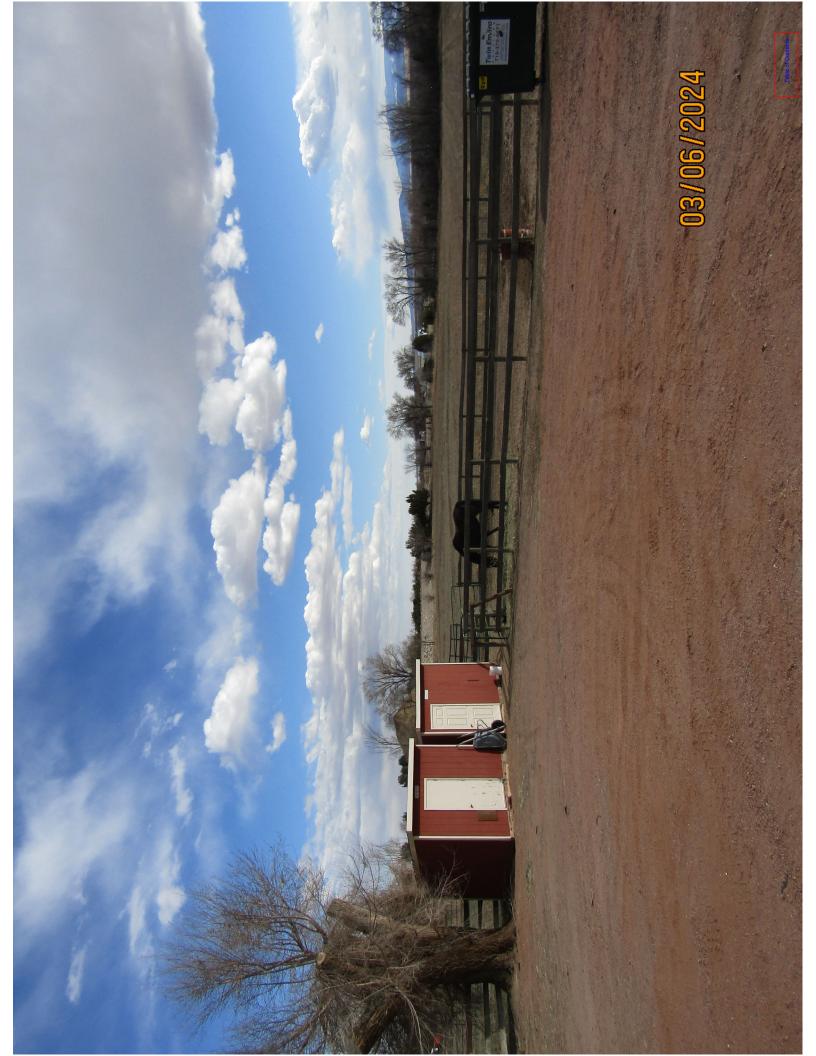


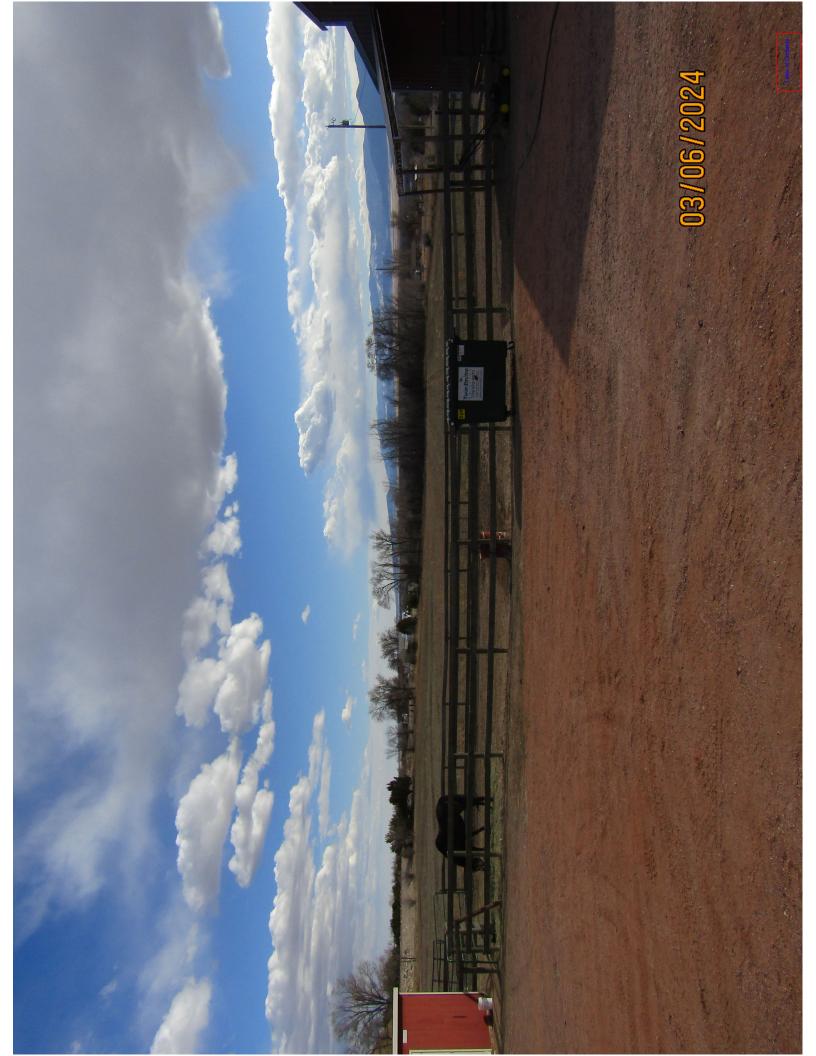


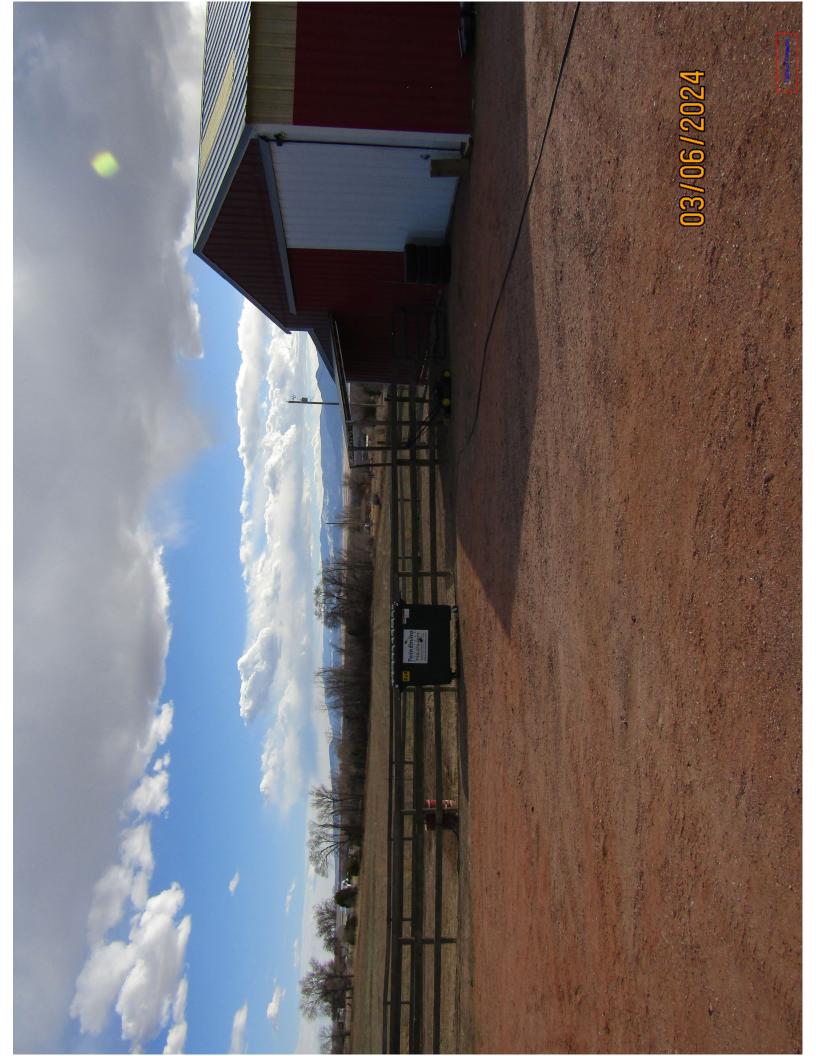


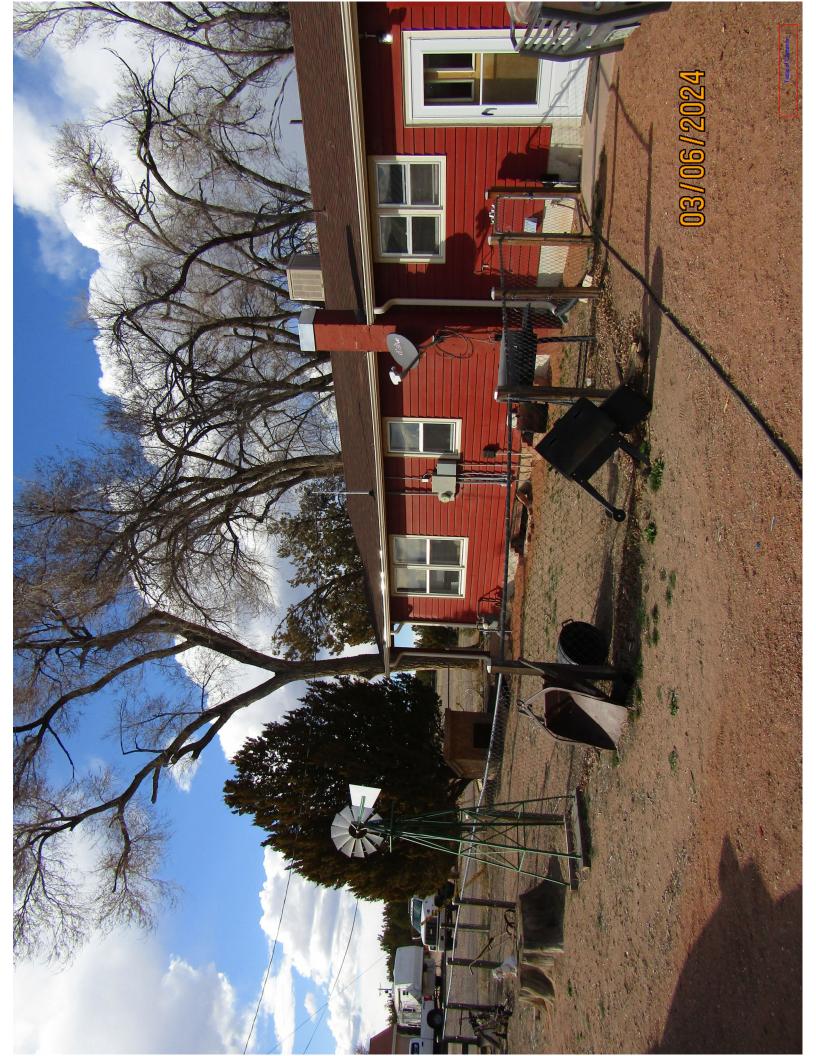










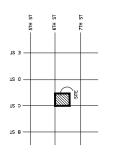






# ANDIAMO SUBDIVISION

A VACATION AND REPLAT OF TRACT 50, BEAVER LAND AND IRRIGATION COMPANY PLAT NO. 1 LOCATED IN SECTION 31, TOWNSHIP 18 SOUTH, RANGE 68 WEST OF THE 6TH P.M., FREMONT COUNTY, COLORADO



# KNOW ALL MEN BY THESE PRESENTS that VOLK CAPITAL, LLC, is owner of the following described land:

VICINITY MAP

the

TO WIT THE TRANSFER SOUTH, RANGE 68 WEST OF THE REAL BENEED AND REGATION COMPANY PLAT NO. 1, FREMONT COUNTY, COLORADO.

Containing 9.18 acres +/-

**DEDICATION**W. VOLK CAPITAL, LLC, being the owner of the above described lands being platted and/or subdivided in Fernant County, Colorado, under the morner of NAIMMA SUBSINISION, have laid out, platted and/or subdivided the same as shown on this plot and do hereby dedicate for the public of urgor the strests, alless, roads and other public areas as shown herean the sex positions of land lately as expensents for the installation and maintenance of public unities as shown herean the sole right to assign use or vacate is vested with the Board of County, Commissioners.

N VOLK III, has subscribed his names day of......A.D. 2024.

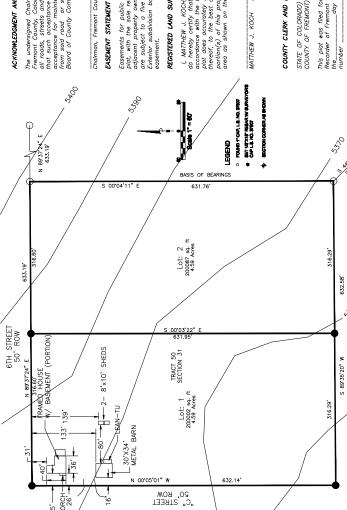
this

JOHN VOLK III - REGISTERED AGEN

instrument was acknowledged before me this NOTARY STATEMENT
The foregoing instrun

NOTES OF STATES ON THE PARTY OF STATES OF STAT

\$ 89.35'20"



# ACKNOWLEDGMENT AND ACCEPTANCE OF PLAT

The undersigned Chairman of the Board of County Commissioners of Fremont County, Choraco, hereby earlifies that the plot was approved an all roads, streets and easements are hereby accepted provided, however, that succeptance had not any way to considered or an acceptance for maintenance shall not any way. Maintenance of a maintenance purposes, Maintenance of considered or maintenance purposes. Maintenance of considered and from add road or streets shall be only upon separate resolution of the Board of County, Commissioners.

# Chairman, Fremont County Board of County Commissioners

Essements for public purposes, including utilities, ore as indicated on the olds with the sole responsibility for national enabled, all interior lot lines or subject to other (i) foot utility essement on both sides of to lines. Exercite subject is or the (i) foot utility essement on both sides of lot lines. Exercite substitution boundary is subject to a ten (ii) foot utility.

## REGISTERED LAND SURVEYOR'S CERTIFICATE

I, MATHEW J. KOCH, o registered land surveyor in the State of Colorado do hereby certify that this pair tows been prepared under my direction in accordance with the Colorado Revised Statutes, as amended, and that this plat does accountly show the described tract of land and the subdivision thereof, to the best of my knowledge and belief. I further certify that any particief, of this property within on le within the designated flood hazard area as shown on the F.E.M.A. F.I.R.M. maps one countlely shown hereon.

DATE MATTHEW J. KOCH L.S. No. 37907

## COUNTY CLERK AND RECORDERS STATEMENT

STATE OF COLORADO)
COUNTY OF FREMONT)

Fremont County Clerk & Recorder

SECTION 31 T

CORNERSTONE
LAND SURVEYING
CANON OTTY, CALOWOO 91212
714-276-4881