



**ENTECH**  
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**WASTEWATER STUDY  
RETREAT AT PRAIRIE RIDGE FILING NO. 3  
POCO ROAD AND VOLLMER ROAD  
EL PASO COUNTY, COLORADO**

Prepared for:  
**Classic SRJ Land  
2138 Flying Horse Club Drive  
Colorado Springs, CO 80921**

Attn: Loren Moreland

February 28, 2025

Respectfully Submitted,

ENTECH ENGINEERING, INC.

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Reviewed by:



Joseph C. Goode Jr., P.E.  
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LLL

PCD No.

## **Table of Contents**

<b>1</b>	<b>SUMMARY.....</b>	<b>1</b>
<b>2</b>	<b>GENERAL SITE CONDITIONS AND PROJECT DESCRIPTION .....</b>	<b>2</b>
<b>3</b>	<b>SCOPE OF THE REPORT .....</b>	<b>2</b>
<b>4</b>	<b>FIELD INVESTIGATION .....</b>	<b>2</b>
<b>5</b>	<b>SOIL, GEOLOGY, AND ENGINEERING GEOLOGY.....</b>	<b>3</b>
5.1	General Geology .....	3
5.2	Soil Conservation Survey .....	3
5.3	Site Stratigraphy .....	4
5.4	Soil Conditions .....	4
5.5	Groundwater .....	5
<b>6</b>	<b>ON-SITE WASTEWATER TREATMENT .....</b>	<b>6</b>
<b>7</b>	<b>CLOSURE.....</b>	<b>8</b>
<b>8</b>	<b>REFERENCES.....</b>	<b>9</b>

## **FIGURES**

*Figure 1: Vicinity Map*

*Figure 2: USGS Topography Map*

*Figure 3: Site and Exploration Plan*

*Figure 4: Soil Survey Map*

*Figure 5: Geologic Map of the Falcon NW Quadrangle*

*Figure 6: Geology Map/Engineering Geology*

*Figure 7: Floodplain Map*

*Figure 8: USFWS Wetlands Map*

*Figure 9: OWTS Suitability Map*

**APPENDIX A: Site Photographs**

**APPENDIX B: Test Pit Logs**

**APPENDIX C: Laboratory Test Results**

**APPENDIX D: Soil Survey Descriptions**

**APPENDIX E: El Paso County Health Department Septic Records**

## 1 SUMMARY

### ***Project Location***

The project lies in portions of the S½ of Section 28, Township 12 South, Range 65 West of the 6<sup>th</sup> Principal Meridian in El Paso County, Colorado. The site is located approximately three miles northeast of Colorado Springs, Colorado.

### ***Project Description***

The Retreat at PrairieRidge Filing No. 3 is approximately 17 acres. Development is to consist of 6 rural residential lots that will be accessed from the north along Poco Road. The lots will utilize individual water wells and on-site wastewater treatment systems (OWTS).

### ***Scope of Report***

This report presents the results of our geologic evaluation and treatment of engineering geologic hazard study.

### ***Land Use and Engineering Geology***

This site was found to be suitable for the proposed development. Areas were encountered where the geologic conditions will impose some constraints on development and land use. These include areas of potentially expansive soils, shallow bedrock, shallow groundwater, seasonal shallow groundwater and potentially seasonally shallow groundwater areas, and the potential for elevated radon levels. Based on the proposed development plan, it appears that these areas will have some impact on the development. These conditions will be discussed in greater detail in the report.

In general, it is our opinion that the development can be achieved if the observed geologic conditions on site are either avoided or properly mitigated. All recommendations are subject to the limitations discussed in the report.

## **2 GENERAL SITE CONDITIONS AND PROJECT DESCRIPTION**

The site is located in portions of the S½ of Section 28, Township 12 South, Range 65 West of the 6<sup>th</sup> Principal Meridian in El Paso County, Colorado. The site is located approximately three miles northeast of Colorado Springs, Colorado, west of Poco Road and Vollmer Road along the southern side of Poco Road. The location of the site is as shown on the Vicinity Map, Figure 1.

Generally, the topography of Filing No. 3 is gradually sloping to the south with drainages that flow in southerly and southeasterly directions through the lots. Water was not observed in the drainages at the time of our site investigation. Areas of seasonally shallow and potentially seasonally shallow groundwater have been observed within the drainages. The site boundaries are indicated on the USGS Topography Map, Figure 2. Previous land uses have included rural residential, grazing and pasture land. The site contains primarily field grasses, weeds, cacti, and yuccas, with areas of scattered ponderosa pine trees located across the site. Site photographs, taken November 18, 2024, are included in Appendix A and locations are shown on Figure 3.

The Retreat at PrairieRidge Filing No. 3 is approximately 17 acres. Development is to consist of 6 rural residential lots. An existing residence is located on Lot 6 and will remain. The lots will utilize individual water wells and OWTS. Development and grading plans indicate minimal grading associated with the existing drainages along the southern boundary of the Filing No. 3. The lots will be access from Poco Road, and no significant roadway improvements are planned.

## **3 SCOPE OF THE REPORT**

The scope of the report includes a general geologic analysis utilizing published geologic data. Detailed site-specific mapping will be conducted to obtain general information in respect to major geographic and geologic features, geologic descriptions and their effects on the development of the property.

## **4 FIELD INVESTIGATION**

Our field investigation consisted of the preparation of a geologic map of any bedrock features and significant surficial deposits. The Natural Resource Conservation Service (NRCS), previously the Soil Conservation Service (SCS) survey was also reviewed to evaluate the site. The position of mappable units within the subject property are shown on the Geologic Map. Our mapping procedures involved both field reconnaissance and measurements and air photo reconnaissance

and interpretation. The same mapping procedures have also been utilized to produce the Engineering Geology Map which identified pertinent geologic conditions affecting development. The initial field mapping was performed by personnel of Entech Engineering, Inc. on October 19, 2021. The site was revisited on November 18, 2024 to verify previous mapping and observe current site conditions.

Two test pits were excavated within Filing No. 3 where the 5 new rural residential lots are proposed. The test pits were placed in possible OWTS location to determine soil and bedrock conditions and general suitability for OWTS locations. The Test Pit Logs are included in Appendix B and Laboratory Testing results are included in Appendix C.

## **5 SOIL, GEOLOGY, AND ENGINEERING GEOLOGY**

### **5.1 General Geology**

The site lies in the western portion of the Great Plains Physiographic Province. Approximately 12 miles to the west is a major structural feature known as the Rampart Range Fault. This fault marks the boundary between the Great Plains Physiographic Province and the Southern Rocky Mountain Province. The site exists within the southeastern edge of a large structural feature known as the Denver Basin. Bedrock in the area tends to be very gently dipping in a northeasterly direction (Reference 3). The rocks in the area of the site are sedimentary in nature and typically Upper Cretaceous in age. The bedrock underlying the site consists of the Dawson Formation. Overlying this formation is a variable layer of residual and/or colluvial soils. The site's stratigraphy will be discussed in more detail in Section 5.3.

### **5.2 Soil Conservation Survey**

The Natural Resource Conservation Service (Reference 4), previously the Soil Conservation Service (Reference 5) has mapped one soil type on the site (Figure 4). In general, the soils classify as coarse sandy loam. The soils are described as follows:

**Exhibit 1: Soil Survey Description**

Type	Description
71	Pring coarse sandy loam, 3 – 8% slopes

Complete descriptions of each soil type are presented in Appendix E. The soils have generally been described to have moderate to moderately rapid permeabilities. Possible hazards with soil

erosion are present on the site. The erosion potential can be controlled with vegetation. The majority of the soils have been described to have moderate erosion hazards.

### 5.3 Site Stratigraphy

The Geologic Map of the Falcon NW Quadrangle showing the site is presented in Figure 5 (Reference 6). The Geology Map prepared for the site is presented in Figure 8. Two mappable units were identified on this site which are described as follows:

**Qaf Artificial Fill of Quaternary Age:** These recent man-made deposits associated with a fill berm located in the southern portion of the site. The berm is currently located in the propose pond area and will likely be removed during site grading. Fill was not observed on the proposed new lots within Filing No. 3.

**Tkd Dawson Formation of Tertiary to Cretaceous Age:** The Dawson formation typically consists of arkosic sandstone with interbedded fine-grained sandstone, siltstone and claystone. Overlying this formation is a variable layer of residual and/or colluvial soils. The residual soils were derived from the in-situ weathering of the bedrock materials on-site. The colluvial soils have been transported by the action of sheetwash and gravity. These soils consisted of silty to clayey sands and sandy clays.

The soils listed above were mapped from site-specific mapping, the *Geologic Map of the Falcon NW Quadrangle* distributed by the Colorado Geological Survey in 2003 (Reference 6), the *Geologic Map of the Colorado Springs-Castle Rock Area*, distributed by the US Geological Survey in 1979 (Reference 7), and the *Geologic Map of the Denver 1° x 2° Quadrangle*, distributed by the US Geological Survey in 1981 (Reference 8). The EEI Test Pits used in evaluating the site and are included in Appendix B. The Geology/Engineering Geology Map prepared for the site is presented in Figure 6.

### 5.4 Soil Conditions

The soils encountered in the Test Pits can be grouped into three general soil types. The soils were classified using the USDA tactile analysis. The soils encountered consisted of gravelly sandy loam, sandy clay loam, and highly weathered clayey to silty sandstone bedrock. Bedrock was encountered at 3 and 5 feet in the test pits.

## 5.5 Groundwater

Signs of seasonally occurring groundwater was encountered in the test pits at depths of 4 and 6 feet. Shallow water conditions have been encountered across the Retreat at PrairieRidge site along existing drainages and low-lying areas. These areas have been identified as seasonal shallow groundwater water, and potential seasonal shallow groundwater as indicated on the Geology/Engineering Geology Map (Figure 6). These areas are discussed in the following section. Fluctuation in groundwater conditions may occur due to variations in rainfall and other factors not readily apparent at this time.

It should be noted that in the sandy materials on-site, some groundwater conditions might be encountered due to the variability in the soil profile. Isolated sand and gravel layers within the soils, sometimes only a few feet in thickness and width, can carry water in the subsurface. Groundwater may also flow on top of the underlying bedrock. Builders and planners should be cognizant of the potential for the occurrence of such subsurface water features during construction on-site and deal with each individual issue as necessary at the time of construction. Builders and planners should be cognizant of the potential for the occurrence of such subsurface water features during construction on-site and deal with each individual issue as necessary at the time of construction. The shallow water areas will typically be avoided by the individual wastewater treatment systems.

### Groundwater and Floodplain Areas – Constraint

A few drainages are located across the filing which has been identified as areas of seasonally shallow or potentially seasonally shallow groundwater areas. Water was not observed in the drainages at the time of our site investigation. The site is not mapped within floodplain zones according to the FEMA Map No. 08041CO535G, (Figure 9, Reference 9). Portions of the drainages have been included in the National Wetland Inventory as Freshwater Emergent Wetland habitats classified as **R4SBC** (Riverine – R, Intermittent – 4, Stream Bed – SB, Seasonally Flooded – C) (Figure 10, Reference 10). These areas are discussed as follows:

### Seasonal Shallow Groundwater Area – Constraint

In these areas, we would anticipate periodic high subsurface moisture conditions and frost heave potential on a seasonal basis. Additional, highly organic soils could be encountered in these areas. Due to the larger lot sizes in Filing 3 these areas can be avoided. Building and OWTS areas on Lot 2 will be impacted by the drainages. Any structures in or adjacent to these areas should follow the mitigation discussed below.

### Potentially Seasonal Shallow Groundwater Area – Constraint

In these areas, we would anticipate the potential for periodically high subsurface moisture conditions, frost heave potential and highly organic soils. The majority of these areas lie within defined drainages which can likely be avoided by the proposed development or regraded. The same mitigation recommendations for the seasonal shallow groundwater areas apply to the potentially seasonal shallow groundwater areas

## **6 ON-SITE WASTEWATER TREATMENT**

The site was evaluated for individual on-site wastewater treatment systems in accordance with the El Paso Land Development Code. Two (2) tactile test pits were excavated on the site. The test pits were placed in potential locations of future systems. The approximate locations of the Test Pits are indicated in Figure 3, and on the Septic Suitability Map, Figure 9. Test Pit Logs and Laboratory Test Results in Appendix D. Existing El Paso County Health Department records for the system located on proposed Lot 8455 Poco Road are included in Appendix E.

The Natural Resource Conservation Service (Reference 5), previously the Soil Conservation Service (Reference 6) has been mapped with two soil descriptions. The Soil Survey Map (Reference 5) is presented in Figure 4, and the Soil Survey Descriptions are presented in Appendix D. The soils are described as having slow to rapid percolation rates. The majority of the soils have been described to have moderate permeabilities.

Drainage areas mapped with potential seasonally shallow groundwater are located on the proposed lots. In these areas a 25-foot setback for the soil treatment area will be required. This will limit the potential buildable areas on the lots depending on the final size of the anticipated OWTS. Signs of seasonally occurring groundwater were observed in the test pits at 4 to 6 feet. Weathered bedrock was encountered at approximately 3 to 5 feet in the test pits.

Soils encountered in the tactile test pits consisted of gravelly sandy loam, and sandy clay loam overlying highly weathered to weathered clayey to silty sandstone. The limiting layers encountered in the test pits are gravelly sandy loam (2A – R-1), sandy clay loam (Soil Type 3A), and sandstone (gravelly sandy clay when classified as a soil, Soil Type 4A). The soil types correspond to LTAR values ranging from 0.80 to 0.15 gallons per day per square foot. Additional investigation may identify areas where suitable conventional systems could be used on the lots, however, engineered system are anticipated for the lots.

On-site Wastewater Systems are to be designed on a per lot basis at the time of building permit. The systems are to meet El Paso County Chapter 8 OWTS criteria and State CDPHE criteria including any required mitigation to accommodate respective leach fields and infrastructure including, but not limited to earthwork grading, berming and diversion swale implementation, installation of secondary sand filters or any other higher treatment levels and dosing as required on a per lot basis and determined by test pit results and site topography. There are no identified geologic hazards on the site that are prohibitive to future OWTS design at this time.

In summary, it is our opinion the site is suitable for individual on-site wastewater treatment systems (OWTS) and that contamination of surface and subsurface water resources should not occur provided the OWTS sites are evaluated and installed according to El Paso County and State Guidelines and properly maintained. Based on the testing performed as part of this investigation designed systems should be anticipated for new the lots. A Septic Suitability Map is presented in Figure 10. OWTS sites should not be located within defined drainages. Individual soil testing is required on the lots prior to construction. Absorption fields must be located a minimum of 100 feet from any well, including those on adjacent properties. Absorption fields must also be located a minimum of 50 feet from any drainages, floodplains or ponded areas and 25 feet from dry gulches.

## **7 CLOSURE**

It is our opinion that the existing geologic engineering and geologic conditions will impose some constraints on development and construction of the site. Most of these conditions can be mitigated through proper engineering design and construction practices. The proposed development and use are consistent with anticipated geologic and engineering geologic conditions.

It should be pointed out that because of the nature of data obtained by random sampling of such variable and non-homogeneous materials as soil and rock, it is important that we be informed of any differences observed between surface and subsurface conditions encountered in construction and those assumed in the body of this report. Individual investigations for building sites will be required prior to construction. Construction and design personnel should be made familiar with the contents of this report. Reporting such discrepancies to Entech Engineering, Inc. soon after they are discovered would be greatly appreciated and could possibly help avoid construction and development problems.

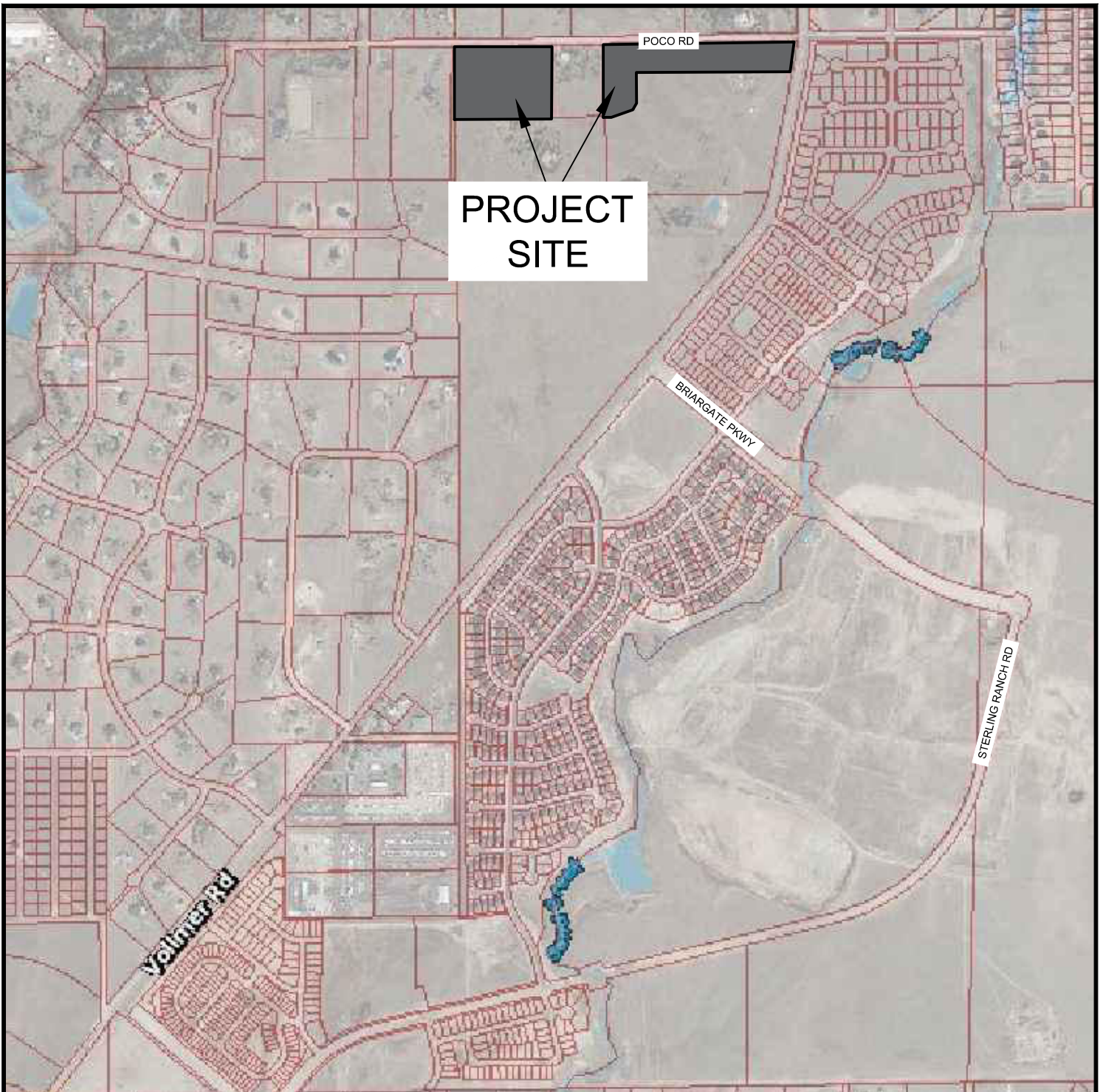
This report has been prepared for Classic SRJ Land for application to the proposed project in accordance with generally accepted geologic soil and engineering practices. No other warranty expressed or implied is made.

We trust that this report has provided you with all the information that you required. Should you require additional information, please do not hesitate to contact Entech Engineering, Inc.

## 8 REFERENCES

1. Entech Engineering, Inc., revised date June 5, 2024. *Wastewater Study, Retreat at PrairieRidge, Filing No. 3 – Preliminary Plan, Poco Road and Vollmer Road, El Paso County, Colorado*. Entech Job No. 212381.
2. Bryant, Bruce; McGrew, Laura W, and Wobus, Reinhard A. 1981. *Geologic Structure Map of the Denver 1° x 2° Quadrangle, North-Central Colorado*. Sheet 2. U.S. Geologic Survey. Map I-1163.
3. Natural Resource Conservation Service, September 22, 2015. *Web Soil Survey*. United States Department Agriculture, <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>.
4. United States Department of Agriculture Soil Conservation Service. June 1981. *Soil Survey of El Paso County Area, Colorado*.
5. Madole, Richard F., 2003. *Geologic Map of the Falcon NW Quadrangle, El Paso County, Colorado*. Colorado Geological Survey. Open-File Report 03-8.
6. Trimble, Donald E. and Machette, Michael N. 1979. *Geologic Map of the Colorado Springs-Castle Rock Area, Front Range Urban Corridor, Colorado*. USGS, Map I-857-F.
7. Bryant, Bruce; McGrew, Laura W. and Wobus, Reinhard A. 1981. *Geologic Map of the Denver 1° x 2° Quadrangle, North-Central Colorado*. U.S. Geologic Survey. Map 1-1163.
8. Federal Emergency Management Agency. December 7, 2018. *Flood Insurance Rate Maps for El Paso County, Colorado and Incorporated Areas*. Map Number 08041CO535G.
9. U.S. Fish & Wildlife Service. *National Wetlands Inventory*. Department of the Interior, [fws.gov/wetlands/data/Mapper.html](https://fws.gov/wetlands/data/Mapper.html).

## FIGURES

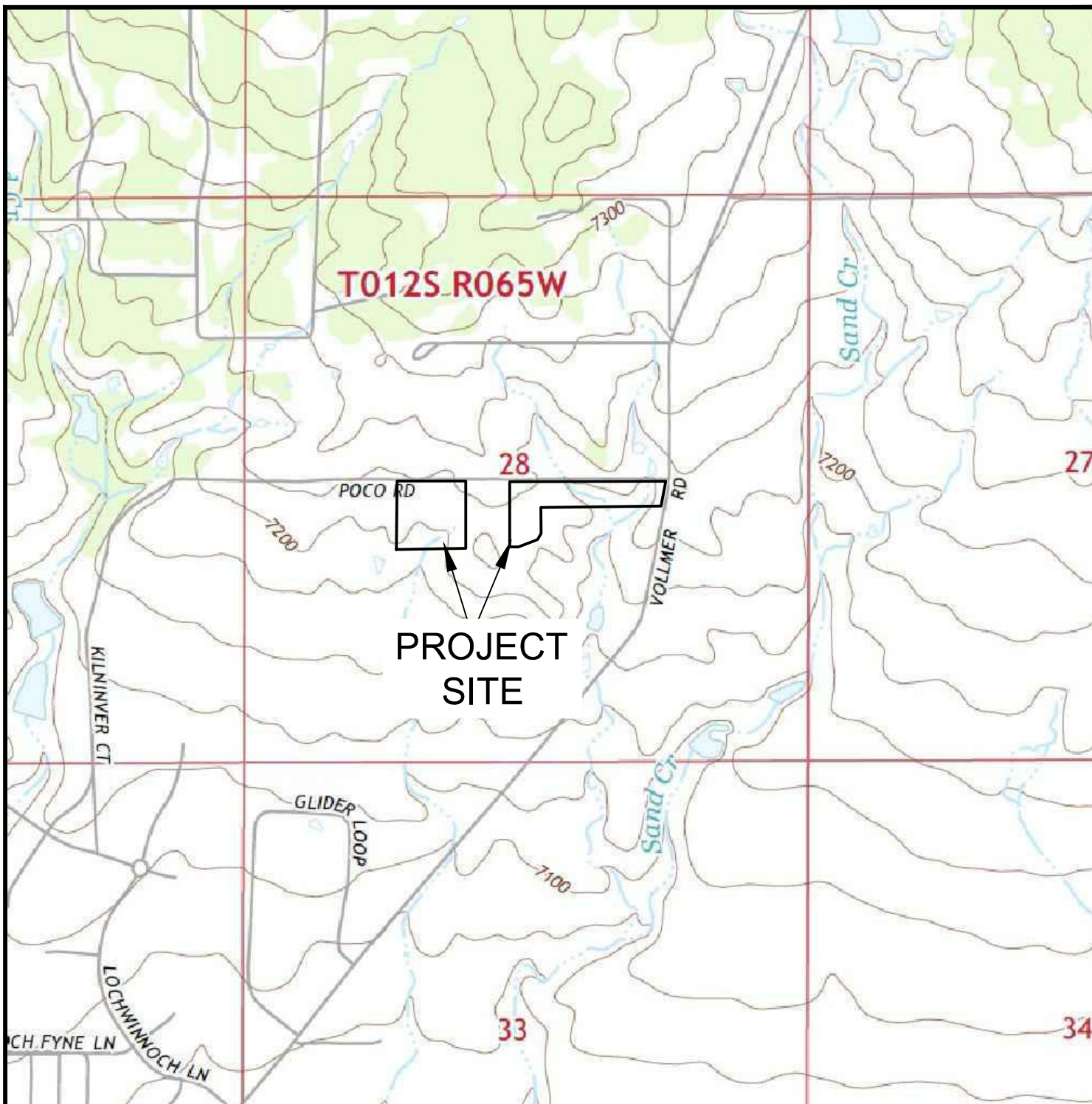


### VICINITY MAP

RETREAT AT PRAIRIERIDGE FILING NO. 3  
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241933

**FIG. 1**

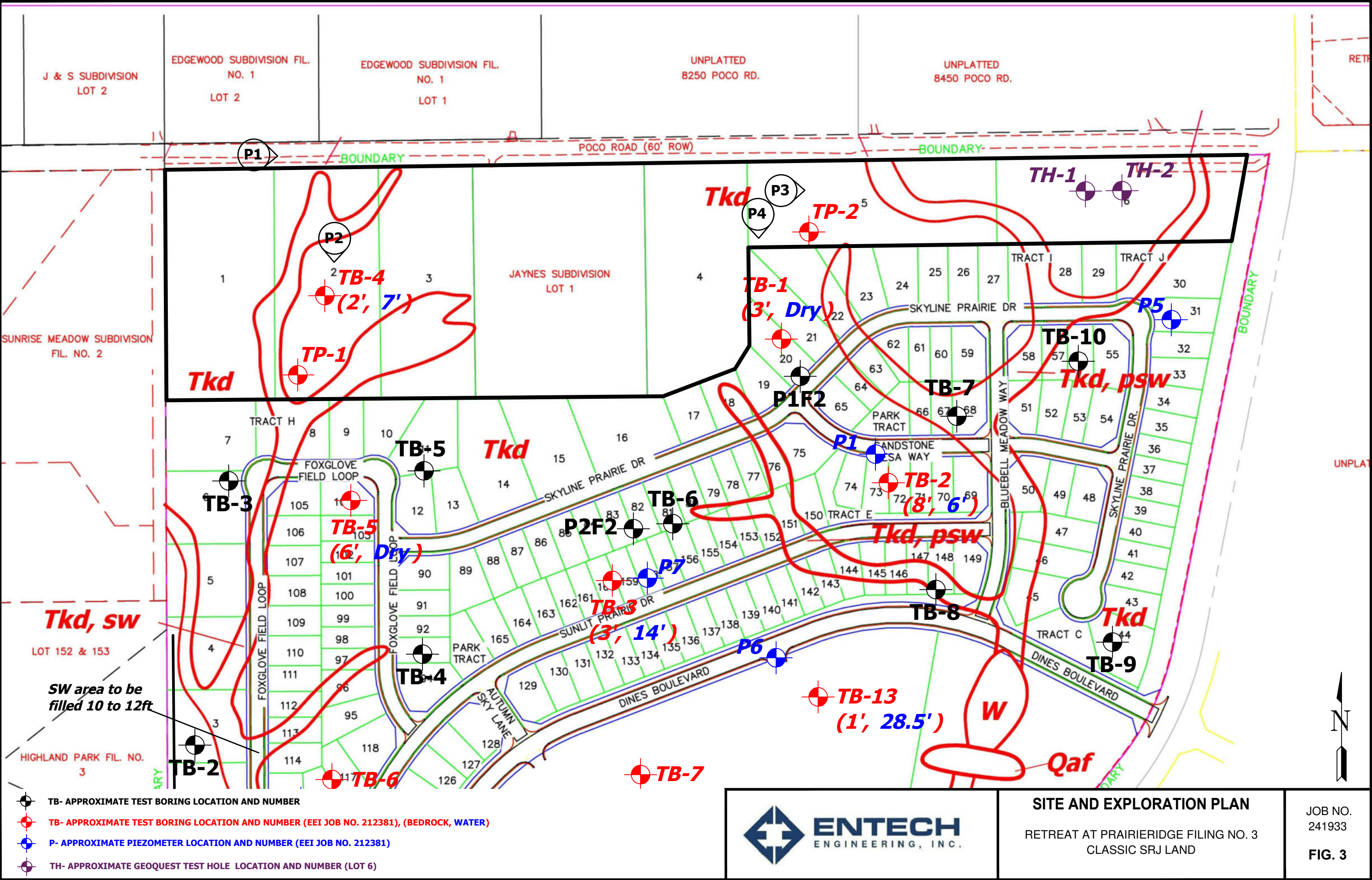


## USGS TOPOGRAPHY MAP

RETREAT AT PRAIRIERIDGE FILING NO. 3  
CLASSIC SRJ LAND

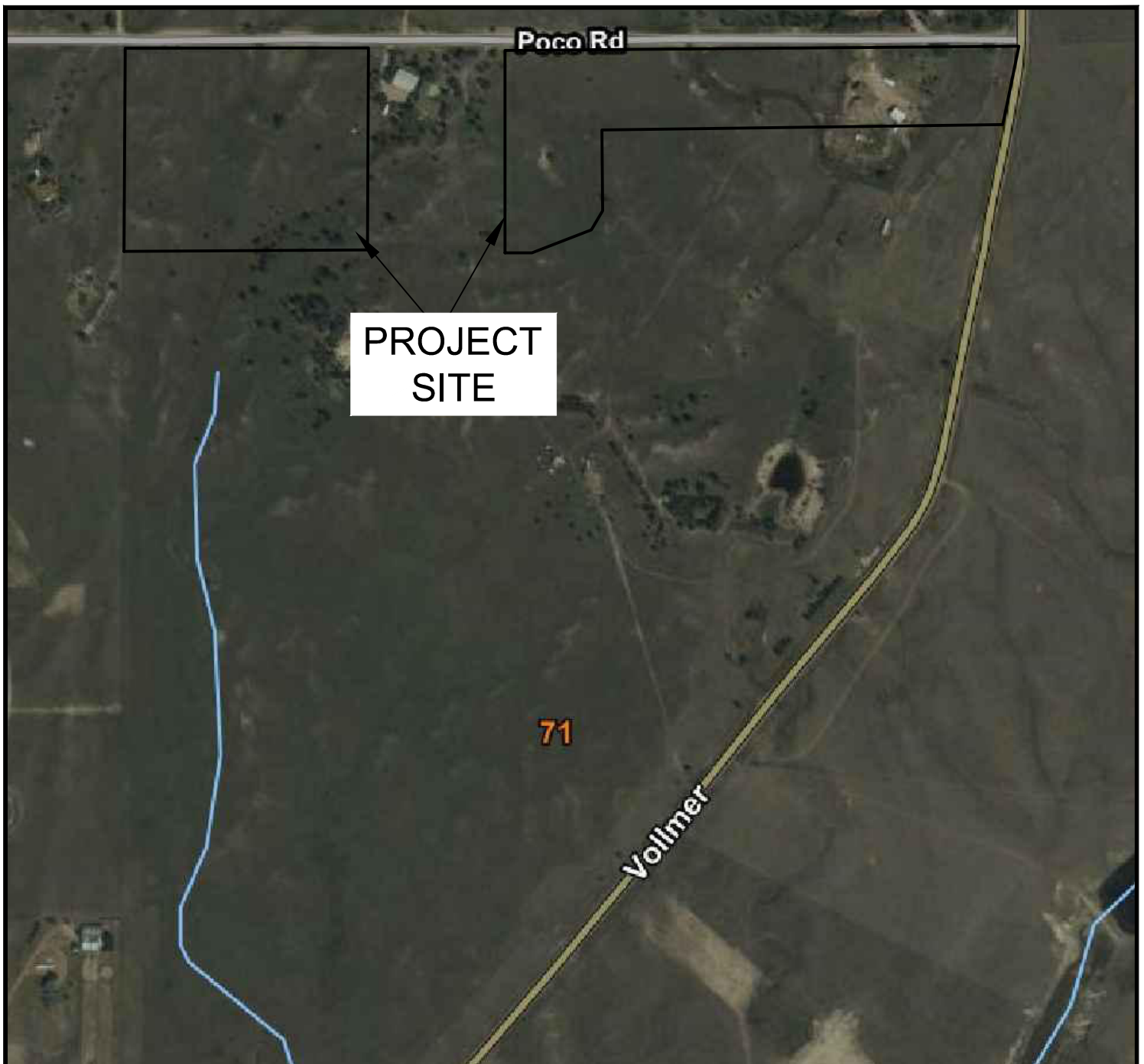
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241933

**FIG. 2**



**SITE AND EXPLORATION PLAN**  
RETREAT AT PRAIRIERIDGE FILING NO. 3  
CLASSIC SRJ LAND

JOB NO.  
241933  
**FIG. 3**

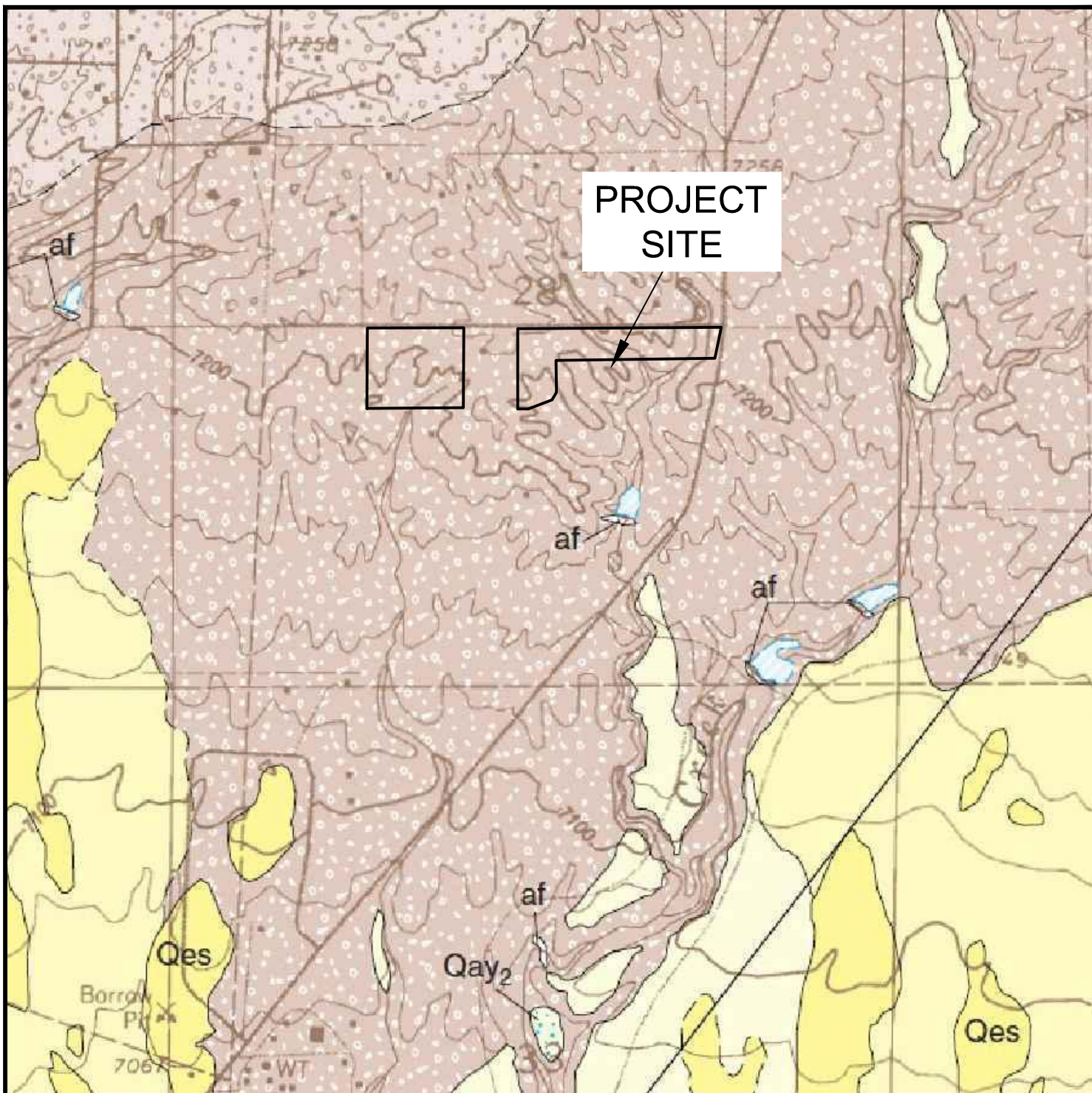


### USDA SOIL MAP

RETREAT AT PRAIRIERIDGE FILING NO. 3  
CLASSIC SRJ LAND

JOB NO.  
241933

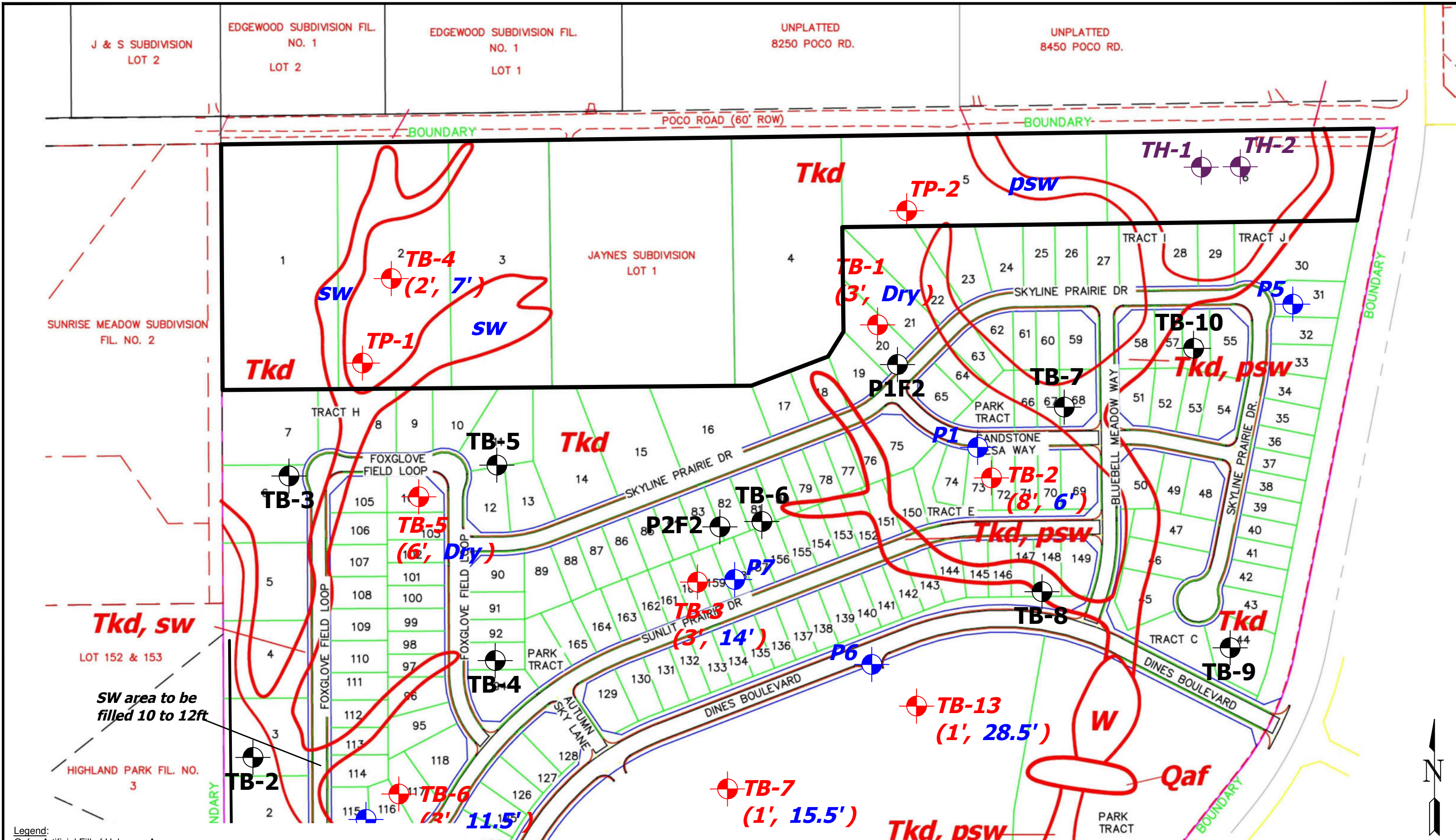
**FIG. 4**



**GEOLOGIC MAP OF THE  
FALCON NW QUADRANGLE**  
RETREAT AT PRAIRIERIGE FILING NO. 3  
CLASSIC SRJ LAND

JOB NO.  
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**FIG. 5**




Legend:

Qaf - Artificial Fill of Holocene Age:  
man=placed fill deposits associated with existing earthen dam

Tkd - Dawson Formation of Tertiary to Cretaceous Age:  
variable layer of sheetwash and residual soils overlying aroskic sandstone with interbedded siltstone and claystone

psw - potential seasonally shallow groundwater area  
sw - seasonally shallow groundwater area



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**GEOLOGY / ENGINEERING MAP**

RETREAT AT PRAIRIERIDGE FILING NO. 3  
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**FIG. 6**



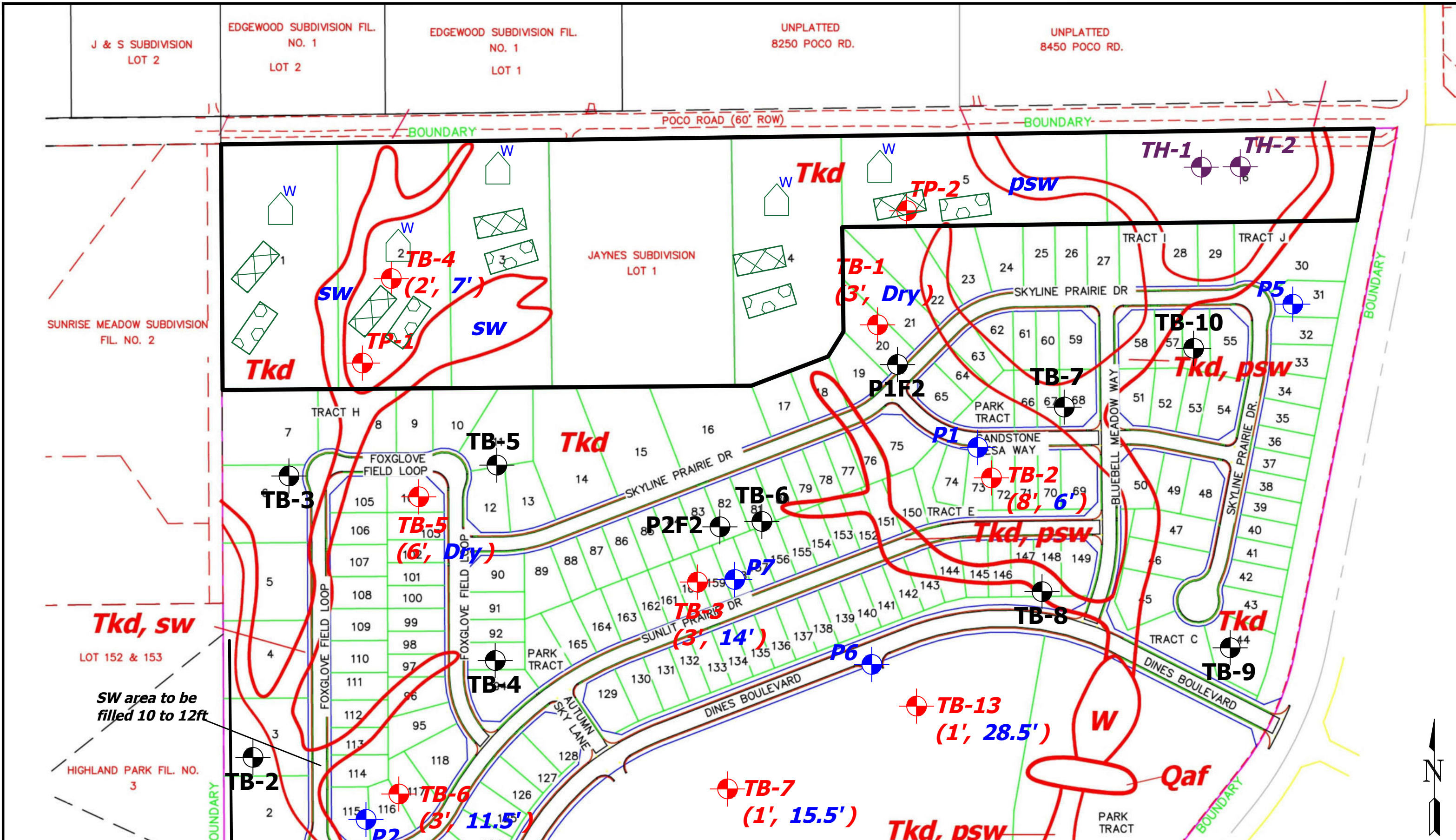


## USFWS WETLANDS MAP

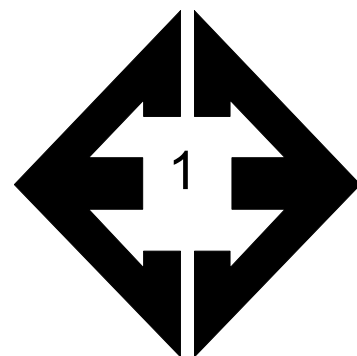
RETREAT AT PRAIRIERIDGE FILING NO. 3  
CLASSIC SRJ LAND

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241933

**FIG. 8**

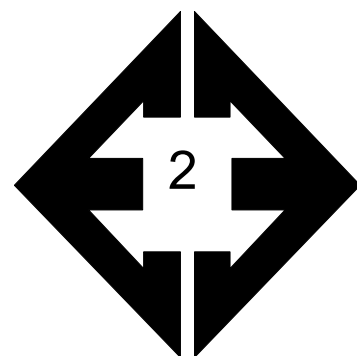


## **APPENDIX A: Site Photographs**



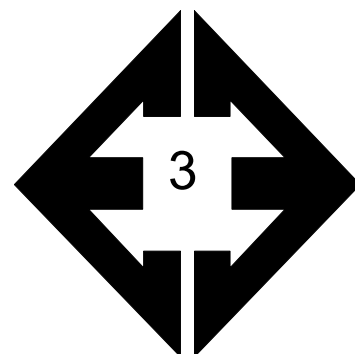
**Looking east from the  
northwestern side of  
Filing No. 3.**

November 18, 2024



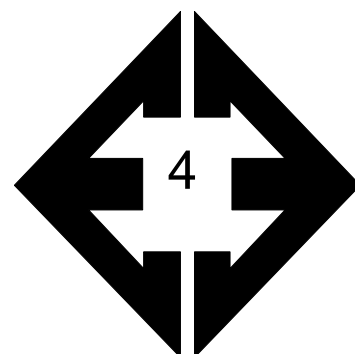
**Looking south from  
the central portion of  
Lot 2.**

November 18, 2024



**Looking east from the  
central portion of Lot  
5.**

November 18, 2024



**Looking southeast  
from proposed Lot 5.**

November 18, 2024

## **APPENDIX B: Test Pit Logs**

TEST PIT 1  
DATE EXCAVATED 9/8/2023  
REMARKS

TEST PIT 2  
DATE EXCAVATED 9/8/2023  
REMARKS

REMARKS	Depth (ft)	Symbol	Samples	Soil Structure Shape	Soil Structure Grade	Soil Type	REMARKS	Depth (ft)	Symbol	Samples	Soil Structure Shape	Soil Structure Grade	Soil Type
TOPSOIL 0-12", SANDY CLAY LOAM, DARK BROWN	1						TOPSOIL 0-12", SANDY CLAY LOAM, DARK BROWN	1					
GRAVELLY SANDY LOAM, FINE TO COARSE GRAINED, BROWN, MOIST	2			gr	S	2A	SANDY CLAY LOAM, FINE TO COARSE GRAINED, BROWN, MOIST	2			gr	W	3A
	3							3					
	4						WEATHERED SILTY TO CLAYEY SANDSTONE, FINE TO COARSE GRAINED, GRAY BROWN, VERY MOIST	4			ma		4A
HIGHLY WEATHERED CLAYEY SANDSTONE, FINE TO COARSE GRAINED, GRAY BROWN, MOIST	5			ma		4A		5					
	6							6					
	7							7					
*REDOXIMORPHIC FEATURES OBSERVED AT 6'	8						*REDOXIMORPHIC FEATURES OBSERVED AT 4'	8					
	9							9					
	10							10					

Soil Structure Shape

granular - gr  
platy - pl  
blocky - bl  
prismatic - pr  
single grain - sg  
massive - ma

Soil Structure Grade

weak - w  
moderate - m  
strong - s  
loose - l



**TEST PIT LOGS**

RETREAT AT PRAIRIERIDGE FIL. NO. 3  
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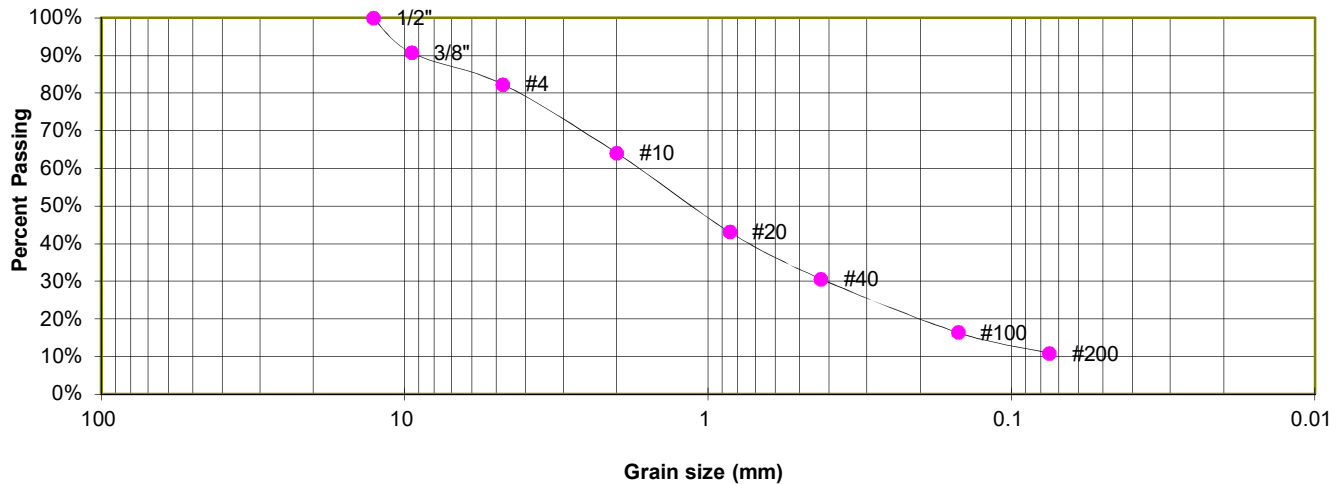
JOB NO.  
241933

**FIG. B-1**

## **APPENDIX C: Laboratory Testing Results**

TEST PIT	TP-1	SOIL DESCRIPTION	SAND, WITH SILT
DEPTH (FT)	3		

### Sieve Analysis Grain Size Distribution



#### GRAIN SIZE ANALYSIS

U.S. Sieve #	Percent Finer
3"	
1 1/2"	
3/4"	
1/2"	100.0%
3/8"	90.7%
4	82.4%
10	64.1%
20	43.1%
40	30.7%
100	16.4%
200	10.8%

#### SOIL CLASSIFICATION

USCS CLASSIFICATION: SW-SM



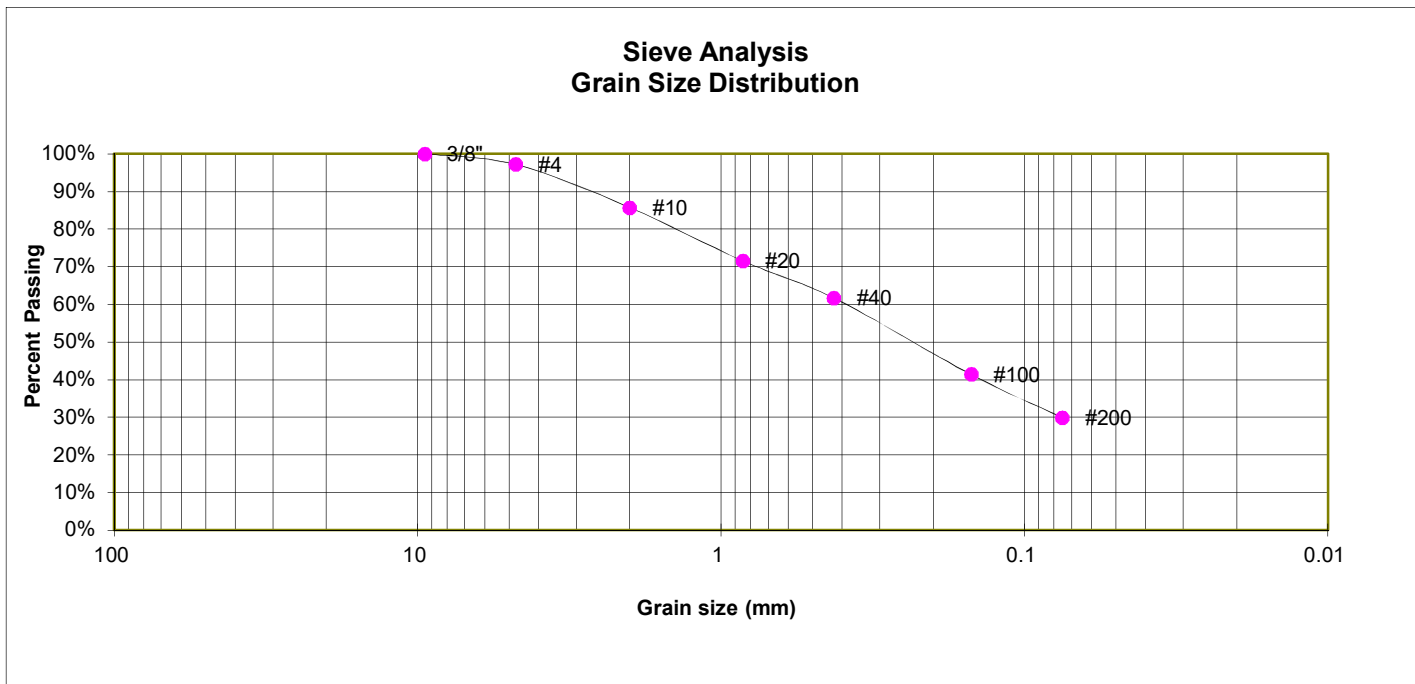
### LABORATORY TEST RESULTS

RETREAT AT PRAIRIERIDGE FIL. NO. 3  
CLASSIC SRJ LAND

JOB NO.  
241933

C-1

TEST PIT	TP-2	SOIL DESCRIPTION	SAND, CLAYEY
DEPTH (FT)	4		



#### **GRAIN SIZE ANALYSIS**

U.S. Sieve #	Percent Finer
3"	
1 1/2"	
3/4"	
1/2"	
3/8"	100.0%
4	97.2%
10	85.8%
20	71.6%
40	61.7%
100	41.4%
200	29.9%

#### **SOIL CLASSIFICATION**

USCS CLASSIFICATION: SC



#### **LABORATORY TEST RESULTS**

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**C-2**

## **APPENDIX D: USDA Soil Survey Descriptions**

## El Paso County Area, Colorado

### 71—Pring coarse sandy loam, 3 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* 369k

*Elevation:* 6,800 to 7,600 feet

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pring and similar soils:* 85 percent

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

#### Description of Pring

##### Setting

*Landform:* Hills

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Arkosic alluvium derived from sedimentary rock

##### Typical profile

*A - 0 to 14 inches:* coarse sandy loam

*C - 14 to 60 inches:* gravelly sandy loam

##### Properties and qualities

*Slope:* 3 to 8 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water (Ksat):* High  
(2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water supply, 0 to 60 inches:* Low (about 6.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3e

*Hydrologic Soil Group:* B

*Ecological site:* R048AY222CO - Loamy Park

*Hydric soil rating:* No

#### Minor Components

##### Pleasant

*Percent of map unit:*

*Landform:* Depressions

*Hydric soil rating:* Yes



**Other soils**

*Percent of map unit:*

*Hydric soil rating:* No

**Data Source Information**

Soil Survey Area: El Paso County Area, Colorado

Survey Area Data: Version 19, Aug 31, 2021



**APPENDIX E: El Paso County Health Department  
Septic Records, 8455 Poco Road**

ON-SITE WASTEWATER SYSTEM INSPECTION FORM

PERMIT # 30644

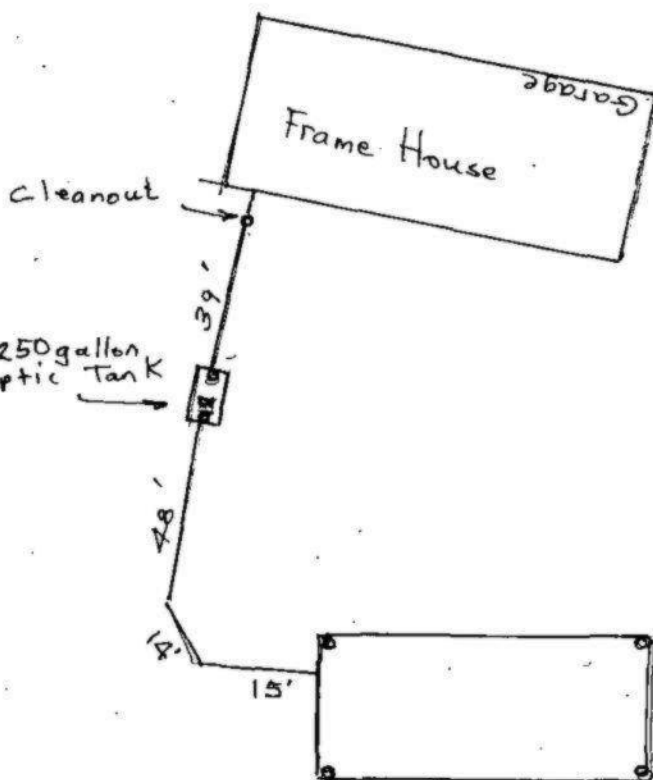
DATE Aug 24, 2012

APPROVED YES ☒ NO ☐ Environmental Health Specialist: J. Christensen  
Address: 8455 Poco Rd. 80908 Owner John Jaynes  
Legal Description: S2 SEC 28-12-65  
Residence ☒ #Bedrooms 2 Commercial ☐ System Installer Owner  
SEPTIC TANK: Construction Material Concrete \* Capacity Gallon 1250  
DISPOSAL FIELD:  
Trench: Depth (Range) \_\_\_\_\_ Width \_\_\_\_\_ Total Length \_\_\_\_\_ Sq. Ft. \_\_\_\_\_  
Bed: Depth (Range) \_\_\_\_\_ Width 26 Total Length 40 Sq. Ft. 1040  
Depth of Rock \_\_\_\_\_ Under PVC \_\_\_\_\_ Type of cover on Rock "To be installed"  
DRYWELLS: # of Pits \_\_\_\_\_ Rings(Pit 1) \_\_\_\_\_ Rings(Pit 2) \_\_\_\_\_ Working Depth #1 \_\_\_\_\_ #2 \_\_\_\_\_  
Size (L x W) #1 \_\_\_\_\_ #2 \_\_\_\_\_ Total Sq. Ft. \_\_\_\_\_  
ROCKLESS SYSTEMS:  
Standard Chamber: Type \_\_\_\_\_ #Chambers \_\_\_\_\_ Sq. Ft./Chamber \_\_\_\_\_ Bed \_\_\_\_\_ Trench \_\_\_\_\_  
High Profile Units: Type \_\_\_\_\_ #Chambers \_\_\_\_\_ Sq. Ft./Chamber \_\_\_\_\_ Bed \_\_\_\_\_ Trench \_\_\_\_\_  
Reduction Allowed \_\_\_\_\_ % Sq. Ft. Required 1007 Depth (Range) \_\_\_\_\_  
Sq. Ft. Installed \_\_\_\_\_ Equivalent Sq. Ft. Installed with Reduction \_\_\_\_\_  
Engineer Design: Y ☒ N ☐ Engineering Firm Gequest Approval Letter Provided: Y ☒ N ☐  
Well installed at time of septic inspection: Y ☒ N ☐ Public Water: Y ☐ N ☐

\* Approval will be revoked if in the future the well is found to be within 50 feet of the septic tank and/or 100 feet of the disposal field.

Notes: \* Septic tank capacity sufficient for 3 bedroom.  
4 feet of sand fill bottom of absorption bed.  
All pipe is 4" SDR35

Well •



Absorption Bed  
Rock + pipe  
26' x 40'  
Inspection ports  
at corners

Poco Rd.

1250  
Signed off

EL PASO COUNTY  
DEPARTMENT OF HEALTH AND ENVIRONMENT  
301 S Union Blvd, Colorado Springs, Colorado 719-575-8635  
**ONSITE WASTE WATER SYSTEM PERMIT**

OWNER NAME: JOHN JAYNES PERMIT NUMBER: 0030644  
ADDRESS: 8455 POCO RD  
CITY, STATE, ZIP: COLORADO SPRINGS, CO 80908 DATE PERMITTED: 02/15/2011  
PHONE NUMBER: (719) 649-8584 (Home Phone)

This permit is issued in accordance with 25-10-207 Colorado Revised Statutes. PERMIT EXPIRES upon completion-installation of sewage-disposal system or at the end of twelve (12) months from date of issue - whichever occurs first -(unless work is in progress). If both a building and an ISDS permit are issued for the same property and revokable if all stated requirements are not met. Sewage disposal system to be installed by an El Paso County Licensed System Contractor or the property owner.

**THIS PERMIT DOES NOT DENOTE APPROVAL OF ZONING AND ACREAGE REQUIREMENTS.**

PERMIT EXPIRATION DATE: 02/15/2012

Expires twelve months from date of issue

*Janet Christensen*  
578-3141

WATER SOURCE: Well or Spring

MINIMUM SEPTIC TANK SIZE: 1000 GALLONS MINIMUM ABSORPTION AREA REQUIRED 1007 SQ FT

PLANNING DEPARTMENT ☒ ENUMERATION ☒ FLOOD PLAIN ☒ WASTEWATER ☒

**COMMENTS:**

\* FOR INSPECTIONS CALL 719-575-8699 BEFORE 8:30 A.M. OF THE DAY TO BE INSPECTED.  
(WEEKENDS & HOLIDAYS EXCLUDED)  
LEAVE THE ENTIRE SEWAGE DISPOSAL SYSTEM UNCOVERED FOR FINAL INSPECTION

DUE TO ENCOUNTERING BEDROCK AT 3 FEET AN ENGINEER DESIGN SYSTEM SHALL BE INSTALLED AT THIS SITE. INSTALL SYSTEM PER ATTACHED P.E. DESIGN (ROCK AND PIPE BED) IN AREA OF THE SOIL PERCOLATION TEST. HEALTH DEPT MUST INSPECT SYSTEM PRIOR TO BACKFILL. AN ENGINEER'S LETTER OF APPROVAL MUST BE RECEIVED BY THIS OFFICE BEFORE FINAL APPROVAL MAY BE GRANTED

The Health Office shall assume no responsibility in case of failure or inadequacy of a sewage-disposal system, beyond consulting in good faith with the property owner or representative. Free access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with requirements of this law.

FOR ADMINISTRATOR USE ONLY

Permit Ready: Called *495-4914* Mailed

Final Inspection Requested:

BY: *JB*  
Phone # *3/2/11*

Date Called In:

Septic Site will be ready:

March 14, 2012 Left Message @ cell phone for owner to call.

March 15, 2012 John returned call. Wants to renew permit.

8/23/12 - 3:28 PM House is not finished - built. Ran out of money. Septic not started.  
*John Jaynes - Final Requested 649-8584.*



# EL PASO COUNTY DEPARTMENT OF HEALTH & ENVIRONMENT

301 South Union Boulevard • Colorado Springs, CO • 80910-3123 •

(719) 578-3199 • Fax: (719) 578-3188

Record I.D.

30644

**\*ALL PAYMENTS ARE DUE AT TIME OF SUBMITTAL IN CASH, CHECK, or MAJOR CREDIT CARD**

## APPLICATION FOR AN ONSITE WASTEWATER SYSTEM PERMIT

☒ NEW PERMIT

☐ MINOR REPAIR PERMIT

☐ MAJOR REPAIR PERMIT

Owner John Jaynes

Daytime Phone (719) 649-8584 (C)

Address of Property 8455 Poco Rd

City & Zip Colo Spgs. 80908

Legal Description 20-12-65

Owner's MAILING Address 8225 Poco Rd

City, State & Zip Colo Spgs. Co. 80908

Lot Size 35.12 acres

Tax Schedule # 52280-00-025

Type of Building: ☒ Frame ☐ Modular ☐ Mobile ☐ Commercial ☐ Manufactured ☐ Other

Water Supply: ☒ Well or Spring ☐ Cistern ☐ Public Inside City Limits: ☒ No ☐ Yes-City

☐ MAIL PERMIT - OR - ☒ PICK UP PERMIT ☐ FAX - FAX TO AND # disconnected 495-4914-H

### MAXIMUM POTENTIAL NUMBER OF BEDROOMS 2

Percolation Test Attached ☒ N

Basement ☒ N

Garbage Disposal ☒ N

Clothes Washer ☒ N

I have supplied a plot plan as described on the back of this form. I acknowledge the completeness of the application is conditional upon such further mandatory and additional tests and reports as may be required by the Department to be made and furnished by an applicant for purposes of evaluating the application, and issuance of the permit is subject to such terms and conditions as deemed necessary to ensure compliance with rules and regulations adopted pursuant to C.R.S. 25-10-107 et. seq. I hereby certify all represented to be true and correct to the best of my knowledge and belief, and are designed to be relied on by the El Paso County Department of Health and Environment in evaluating the same for purposes of issuing the permit applied for herein. I further understand any falsification or misrepresentation may result in the denial of the application or revocation of any permit granted based upon said application and in legal action for perjury as provided by law.

OWNER'S/OWNER'S AGENT SIGNATURE

John Jaynes

Date 2/15/11

You will be notified by telephone when your permit is ready for pick up. Please allow a minimum of 10 days for new septs.

### DEPARTMENT OF HEALTH USE ONLY

1000 gallons

Minimum Tank Capacity

1007 ft<sup>2</sup>

Minimum Absorption Area

1 March 2011

Date of Site Inspection

REMARKS Due to encountering bedrock at 3 feet an engineer design shall be system shall be installed at this site. Install system per attached P.E. design (rock + pipe bed) in area of the soil percolation test. Health dept. must inspect system prior to backfill. An engineer's letter of approval must be received by this office before final approval may be granted.

EHS INSPECTOR

Janet Christensen

DATE 03/01/11

APPROVED ☒

DENIED ☐

### CURRENT FEES AS APPROVED BY EL PASO COUNTY BOARD OF HEALTH

New Permit: \$306.00 EPCDHE Charge + \$23.00 CDPHE Surcharge + \$147.00 EPC Planning Surcharge = \$476.00

Major repair permit: \$344.00 EPCDHE Charge + \$23.00 CDPHE Surcharge = \$367.00

Minor repair permit: \$141.00 EPCDHE Charge + \$23.00 CDPHE Surcharge = \$164.00

DATE TO LAND DEVELOPMENT/WASTEWATER: 2-15-11 PR

DATE TO FLOODPLAIN/ENUMERATIONS: 2-15-11 PR

PLEASE COMPLETE THE BACK OF THIS FORM

1) We require an original of your **PERCOLATION (PERC) TEST** with an original licensed engineer's (PE) stamp and signature as well as a plot of the percolation test hole locations with measurements from a fixed reference point. (A faxed copy directly from the engineering firm to this office is acceptable.)

2) **PROPERTY ADDRESS OR LOT NUMBER MUST BE POSTED AND PERC HOLES MUST BE CLEARLY MARKED OR AN ADDITIONAL CHARGE FOR A RETURN TRIP TO THE SITE MAY BE ASSESSED.**

3) A **PLOT PLAN** must be drawn (not to scale) on an 8 1/2 x 11 inch sheet. The plot plan must include:

- |                               |                                 |                              |
|-------------------------------|---------------------------------|------------------------------|
| 1) a north bearing            | 5) proposed septic system site  | distance of percolation test |
| 2) property lines             | 6) alternate septic system site | 1.5 mi property lines.       |
| 3) property dimensions        | 7) driveway (proposed or        |                              |
| 4) all buildings (proposed or | existing and name of adjoining  |                              |
| existing)                     | street)                         |                              |

4) Initial any of the following features that apply to your property and **INCLUDE** on your **PLOT PLAN**.

- |                                  |  |  |
|----------------------------------|--|--|
| <input type="checkbox"/> Well(s) | <input type="checkbox"/> Adjacent property well(s) | <input type="checkbox"/> Subsoil drain |
| <input type="checkbox"/> Cistern | <input type="checkbox"/> Water line                |  |

5) Initial any of the following that are within 100 feet of your proposed septic system and **INCLUDE** on your **PLOT PLAN**.

- |  |  |
|--|--|
| <input type="checkbox"/> Spring(s)     | <input type="checkbox"/> Lake(s)                     |
| <input type="checkbox"/> Pond(s)       | <input type="checkbox"/> Stream(s)                   |
| <input type="checkbox"/> Dry Gulch(es) | <input checked="" type="checkbox"/> Natural drainage |

6) **GIVE COMPLETE DIRECTIONS TO THE PROPERTY FROM A MAIN HIGHWAY**

Woodman Rd. Turn North on Black Forest Rd.  
Right (East) on Vollmer Rd about 3 miles  
Turn Left on Poco Rd. about 500'  
Driveway on Left.