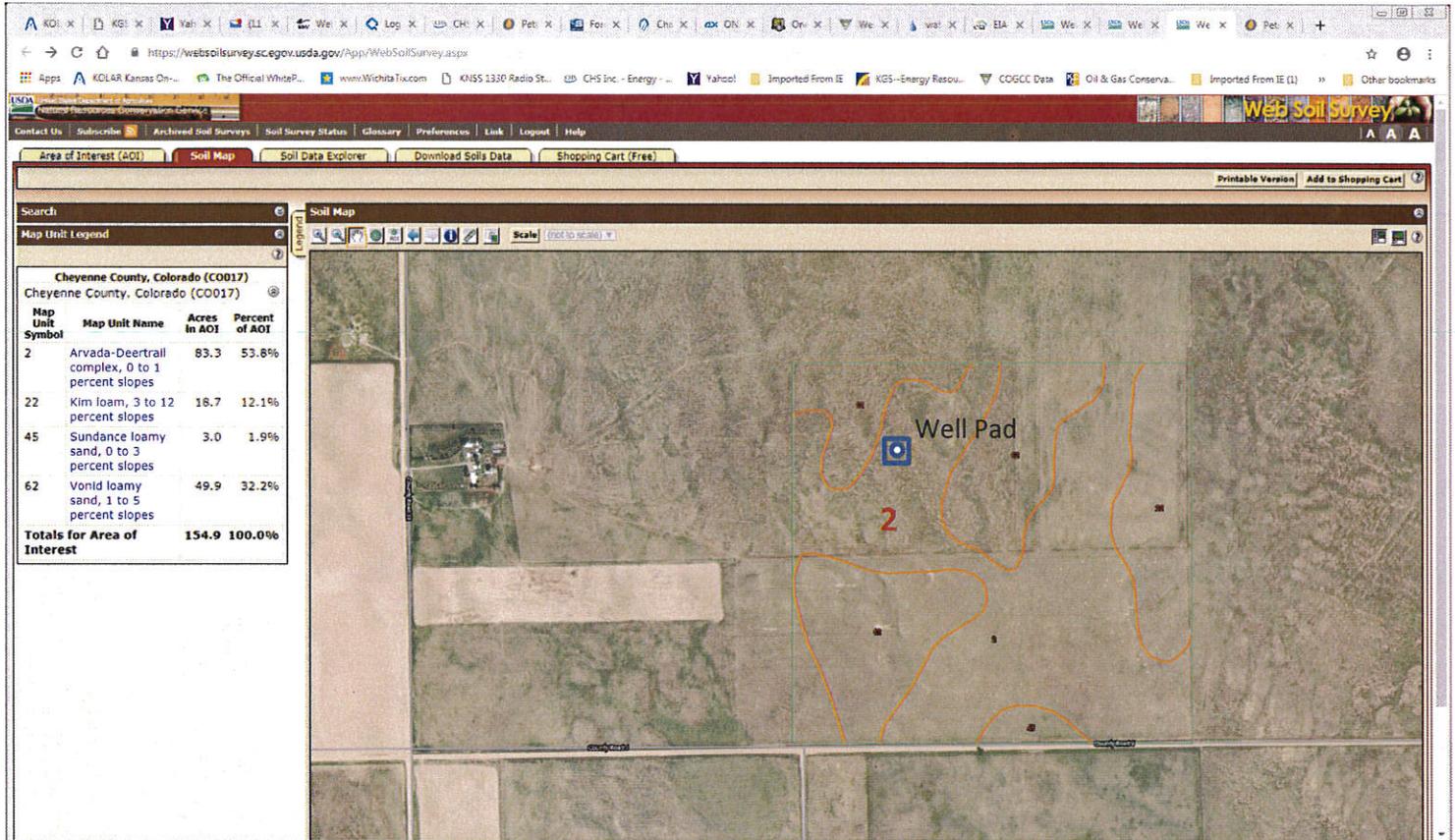


7.
 McCoy Petroleum Corporation
 ALC 1548 #1-23
 NW SE, Sec 23-15s-48w
 Cheyenne County, CO
 (CO-017)

**NRCS Soils in SE/4:
 Map Symbols: #2**



Cheyenne County, Colorado

2—Arvada-Deertrail complex, 0 to 1 percent slopes

Plant Species: Western wheatgrass (15%), Nuttall's alkaligrass (10%), Fourwing saltbrush (5%), Blue grama (-%), Alkali sacaton (-%)

Map Unit Setting

- National map unit symbol: 3545
- Elevation: 3,900 to 5,500 feet
- Mean annual precipitation: 12 to 17 inches
- Mean annual air temperature: 48 to 54 degrees F
- Frost-free period: 100 to 160 days

• Farmland classification: Not prime farmland

Map Unit Composition

- Arvada and similar soils: 40 percent
- Deertrail and similar soils: 35 percent
- Minor components: 25 percent

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

Description of Arvada

Setting

- Landform: Stream terraces, flood plains, alluvial fans
- Down-slope shape: Linear
- Across-slope shape: Linear
- Parent material: Saline clayey alluvium derived from shale

Typical profile

- A - 0 to 2 inches: clay loam
- Btkn - 2 to 15 inches: clay, clay loam, silty clay loam

- *Btkn - 2 to 15 inches: clay, clay loam, silty clay*
- *Btkn - 2 to 15 inches:*
- *Ckny - 15 to 60 inches:*
- *Ckny - 15 to 60 inches:*
- *Ckny - 15 to 60 inches:*

Properties and qualities

- *Slope: 0 to 1 percent*
- *Depth to restrictive feature: More than 80 inches*
- *Natural drainage class: Well drained*
- *Runoff class: Medium*
- *Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*
- *Depth to water table: More than 80 inches*
- *Frequency of flooding: None*
- *Frequency of ponding: None*
- *Calcium carbonate, maximum in profile: 10 percent*
- *Gypsum, maximum in profile: 2 percent*
- *Salinity, maximum in profile: Slightly saline to strongly saline (4.0 to 16.0 mmhos/cm)*
- *Sodium adsorption ratio, maximum in profile: 35.0*
- *Available water storage in profile: Very high (about 17.7 inches)*

Interpretive groups

- *Land capability classification (irrigated): None specified*
- *Land capability classification (nonirrigated): 7s*
- *Hydrologic Soil Group: D*
- *Ecological site: Salt Flat (R067XY033CO)*
- *Hydric soil rating: No*

Description of Deertrail

Setting

- *Landform: Alluvial fans, flood plains, stream terraces*
- *Down-slope shape: Linear*
- *Across-slope shape: Linear*
- *Parent material: Clayey alluvium derived from shale*

Typical profile

- *A - 0 to 2 inches: loam*
- *Bt - 2 to 7 inches: clay, clay loam, silty clay loam*
- *Bt - 2 to 7 inches: clay, clay loam, silty clay loam*
- *Bt - 2 to 7 inches: silt loam, silty clay loam, loam*
- *Btkn - 7 to 25 inches:*
- *Btkn - 7 to 25 inches:*
- *Btkn - 7 to 25 inches:*
- *Cnyz - 25 to 60 inches:*
- *Cnyz - 25 to 60 inches:*
- *Cnyz - 25 to 60 inches:*

Properties and qualities

- *Slope: 0 to 1 percent*
- *Depth to restrictive feature: More than 80 inches*
- *Natural 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 in profile: 15 percent*
- *Gypsum, maximum in profile: 2 percent*
- *Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)*
- *Sodium adsorption ratio, maximum in profile: 18.0*
- *Available water storage in profile: Very high (about 26.4 inches)*

Interpretive groups

- *Land capability classification (irrigated): 4s*
- *Land capability classification (nonirrigated): 6s*
- *Hydrologic Soil Group: C*
- *Ecological site: Alkaline Plains (R067BY047CO)*
- *Hydric soil rating: No*

Minor Components

- **Manzanola**
- *Percent of map unit: 10 percent*
- **Nunn**
- *Percent of map unit: 8 percent*
- **Firstview**
- *Percent of map unit: 7 percent*