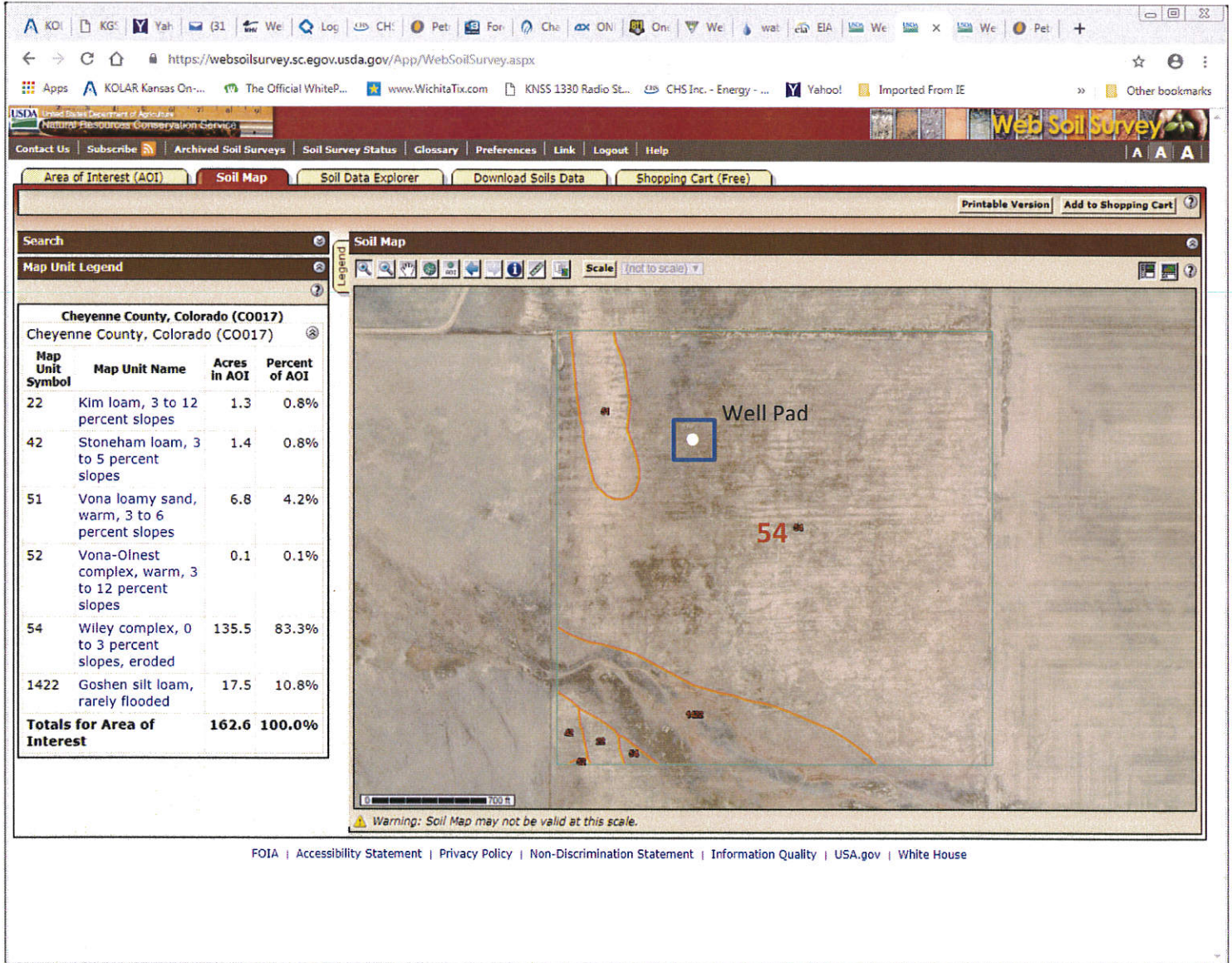


5.
 McCoy Petroleum Corporation
 ALC 1447 #1-23
 NW NE, Sec 23-14s-47w
 Cheyenne County, CO
 (CO-017)

NRCS Soils in NE/4:
Map Symbol: #54



Cheyenne County, Colorado

54—Wiley complex, 0 to 3 percent slopes, eroded

Plant Species: Western wheatgrass (30%), Green needlegrass (10%), Neeleandthread (5%), Blue grama (-%)

Map Unit Setting

- National map unit symbol: 355d
- Elevation: 4,500 to 6,500 feet
- Mean annual precipitation: 12 to 15 inches
- Mean annual air temperature: 48 to 54 degrees F
- Frost-free period: 140 to 170 days
- Farmland classification: Prime farmland if irrigated

Map Unit Composition

- *Wiley, eroded, and similar soils*: 80 percent
- *Minor components*: 20 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Wiley, Eroded

Setting

- *Landform*: Plains
- *Down-slope shape*: Linear
- *Across-slope shape*: Linear
- *Parent material*: Calcareous loess

Typical profile

- *A - 0 to 3 inches*: silt loam
- *Bt - 3 to 23 inches*: silty clay loam, silt loam, clay loam
- *Bt - 3 to 23 inches*: silt loam, silty clay loam, loam
- *Bt - 3 to 23 inches*:
- *Ck - 23 to 60 inches*:
- *Ck - 23 to 60 inches*:
- *Ck - 23 to 60 inches*:

Properties and qualities

- *Slope*: 0 to 3 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 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 in profile*: 15 percent
- *Salinity, maximum in profile*: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Available water storage in profile*: Very high (about 33.5 inches)

Interpretive groups

- *Land capability classification (irrigated)*: 2e
- *Land capability classification (nonirrigated)*: 4e
- *Hydrologic Soil Group*: B
- *Ecological site*: Loamy Plains (R067BY002CO)
- *Hydric soil rating*: No

Minor Components

Colby

- *Percent of map unit*: 10 percent

Baca

- *Percent of map unit*: 6 percent

Stoneham

- *Percent of map unit*: 4 percent
- *Hydric soil rating*: No