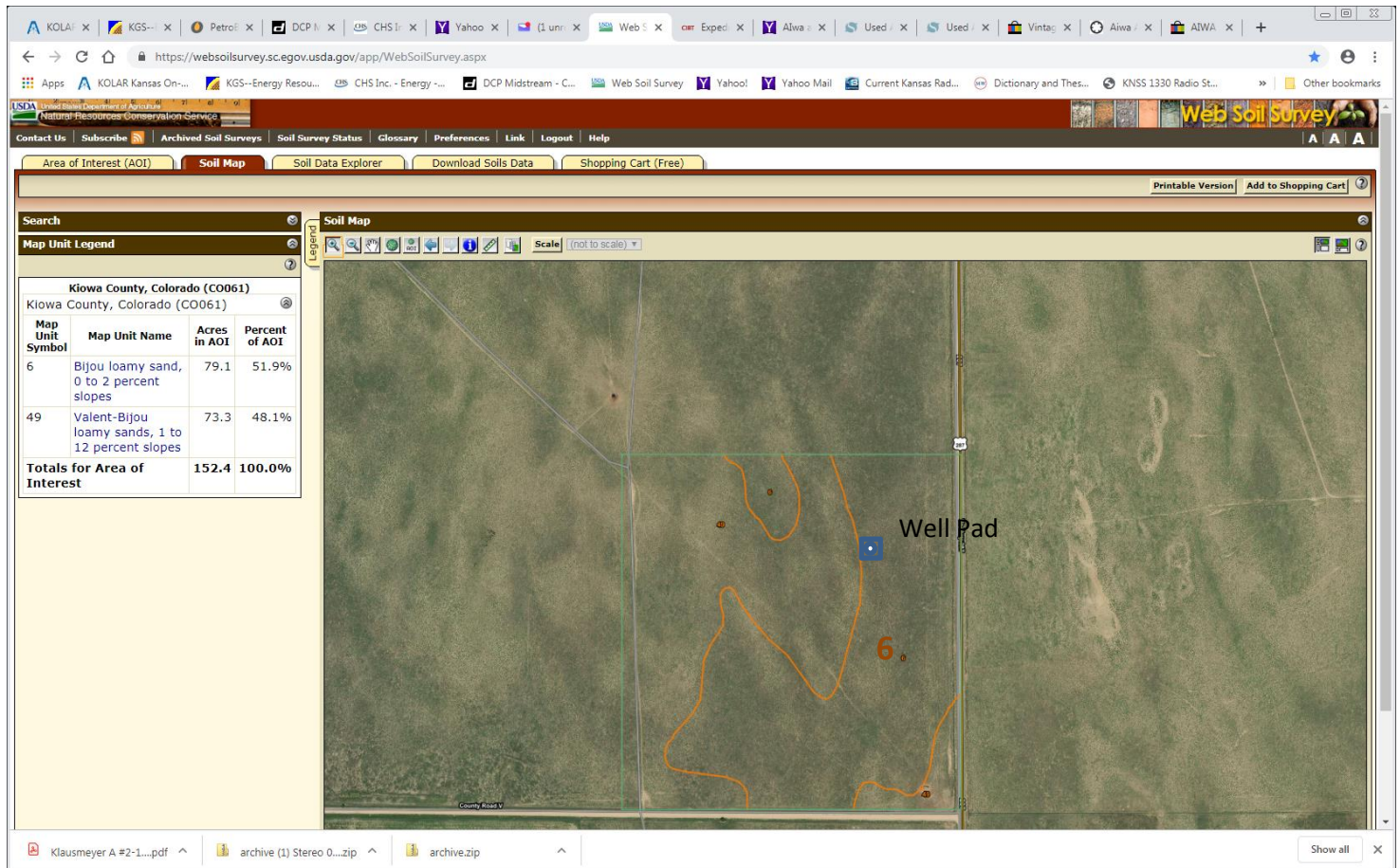


16.

McCoy Petroleum Corporation
ALC 1748 #1-33
NE SE, Sec 33-17s-48w
Kiowa County, CO
(CO-017)

NRCS Soils in SE/4:

Map Symbol: #6



Kiowa County, Colorado

6—Bijou loamy sand, 0 to 2 percent slopes

Plant Species: Sand bluestem (30%), Prairie sandreed (20%), Switchgrass (20%), Little bluestem (5%), Needleandthread (5%), Sand sagebrush (5%), Sideoats grama (5%), Yellow Indiangrass (5%).

Map Unit Setting

- National map unit symbol: 2t50f
- Elevation: 4,000 to 5,500 feet
- Mean annual precipitation: 13 to 16 inches
- Mean annual air temperature: 46 to 54 degrees F
- Frost-free period: 125 to 170 days
- Farmland classification: Not prime farmland

Map Unit Composition

- Valent, warm, and similar soils: 50 percent
- Bijou, warm, and similar soils: 40 percent
- Minor components: 10 percent
- Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Valent, Warm Setting

- Landform: Sand sheets
- Landform position (two-dimensional): Backslope, shoulder

- *Landform position (three-dimensional):* Side slope, crest
- *Down-slope shape:* Convex
- *Across-slope shape:* Convex
- *Parent material:* Eolian sands

Typical profile

- *A - 0 to 7 inches:* loamy sand
- *AC - 7 to 16 inches:* loamy sand
- *C - 16 to 79 inches:* sand

Properties and qualities

- *Slope:* 1 to 15 percent
- *Depth to restrictive feature:* More than 80 inches
- *Natural drainage class:* Excessively drained
- *Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.99 in/hr)
- *Depth to water table:* More than 80 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Salinity, maximum in profile:* Nonsaline (0.1 to 0.2 mmhos/cm)
- *Sodium adsorption ratio, maximum in profile:* 0.1
- *Available water storage in profile:* Low (about 4.1 inches)

Interpretive groups

- *Land capability classification (irrigated):* 6e
- *Land capability classification (nonirrigated):* 6e
- *Hydrologic Soil Group:* A
- *Ecological site:* Deep Sand (R067BY015CO)
- *Forage suitability group:* Not Suited (G067BW000CO)
- *Other vegetative classification:* DEEP SANDS (067XY015CO_2)
- *Hydric soil rating:* No

Description of Bijou, Warm Setting

- *Landform:* Sand sheets
- *Landform position (two-dimensional):* Backslope
- *Landform position (three-dimensional):* Side slope
- *Down-slope shape:* Linear
- *Across-slope shape:* Linear
- *Parent material:* Eolian sands

Typical profile

- *A - 0 to 4 inches:* loamy sand
- *AB - 4 to 9 inches:* loamy sand
- *Bt - 9 to 36 inches:* sandy loam
- *BC - 36 to 50 inches:* loamy sand
- *C - 50 to 79 inches:* loamy sand

Properties and qualities

- *Slope:* 1 to 9 percent
- *Depth to restrictive feature:* More than 80 inches
- *Natural drainage class:* Somewhat excessively drained
- *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
- *Salinity, maximum in profile:* Nonsaline (0.0 to 0.1 mmhos/cm)
- *Available water storage in profile:* Low (about 5.5 inches)

Interpretive groups

- *Land capability classification (irrigated):* 4e
- *Land capability classification (nonirrigated):* 4e
- *Hydrologic Soil Group:* A
- *Ecological site:* Sandy Plains (R067BY024CO)
- *Forage suitability group:* Loamy, Dry (G067BW019CO)
- *Hydric soil rating:* No

Minor Components

Oldest

- *Percent of map unit:* 5 percent
- *Landform:* Interfluves, hillslopes
- *Landform position (two-dimensional):* Summit, backslope

- *Landform position (three-dimensional):* Side slope
- *Down-slope shape:* Linear
- *Across-slope shape:* Linear
- *Ecological site:* Sandy Plains (R067BY024CO)
- *Hydric soil rating:* No

Vona, warm

- *Percent of map unit:* 5 percent
- *Landform:* Sand sheets
- *Landform position (two-dimensional):* Backslope
- *Landform position (three-dimensional):* Side slope
- *Down-slope shape:* Linear
- *Across-slope shape:* Linear
- *Ecological site:* Sandy Plains (R067BY024CO)
- *Hydric soil rating:* No