

UNITED STATES

**DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
LITTLE SNAKE FIELD OFFICE**

SOILS TABLE

**Focus Ranch Unit Geographic Area Plan
DOI-BLM-CON010-2013-0016EA
Attachment D**

	Soil Analysis Summary				
Soil Property	FRU Federal Well #4-14	FRU Federal Well #11-14	FRU Federal Well #33-13	FRU Stull Well #28-2	Focus Ranch Middle Bypass Road
Total acres disturbed for all proposed infrastructure	7.8 acres	6.5 acres	4.7 acres	12.5 acres	11.4 acres
Deep Mechanical Site Preparation	Pad = Poorly suited Road = well to poorly suited	Poorly suited	Poorly suited	Pad = well suited Road = poorly suited	Well suited to poorly suited
Erosion Hazard (road, trail)	Moderate	Severe	Moderate	Pad = moderate Road = severe	Moderate to severe
Construction Limitations for Haul Roads	Pad = Severe Road = Moderate to severe	Severe	Severe	Moderate	Moderate to severe
Soil Rutting Hazard	Severe (low soil strength)	Severe	Severe	Severe	Severe
Percent Clay	Pad = 40-54% (high) Road = 22-54%	40-54%	40-54%	Pad = 30-40% Road = 30-54%	40-54%
Plasticity Index (when depth = 0-120")	Pad = 20-28 (moderate) Road = 14-28	28-36 (high)	20-28	20-36	20-36
Hydrologic Soil Group	Pad = C Road = B/C	D (high runoff potential)	B/C	Pad = C Road = D	C/D
<i>Representative Slope</i>	0-25%	0-25%	0-25%	0-25%	0-25%
<i>Wind Erodibility Group</i>	Pad = 8 (low) Road = 5-8	4 (moderate)	6-8 (low)	Pad = 5 Road = 4 - 6	4
<i>Depth to Any Soil Restrictive Layer</i>	>200cm	>200cm	>200cm	>200cm	>200cm
<i>Surface Texture</i>	silty clay loam; stony loam; loam	Pad = clay and silty loam Road = silty clay loam	stony loam; loam, clay loam	Pad – silty clay loam Road = clay; loam	Clay; silty clay loam; loam; stony loam

<i>K Factor, whole soil (0-120")</i>	Pad = 0.15 Road = 0.10 – 0.32	0.24 – 0.32 (moderately to highly susceptible to sheet and rill erosion)	Pad = 0.15 Road = 0.15-0.32	Pad = 0.32 Road = 0.24 – 0.28	0.24 - 0.37
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Data taken from USDA NRCS Web Soil Survey: <http://websoilsurvey.nrcs.usda.gov> *Soil properties in italics are used in determining where fragile soils may occur.*