

## MANAGEMENT SYSTEM TEMPLATE

### A. BENCHMARK SYSTEM WORKSHEET

1.	<b>STATE</b>	Oklahoma	
2.	<b>FIELD OFFICE</b>	Shattuck - Ellis County	
3.	<b>MLRA</b>	78C	
4.	<b>COMMON RESOURCE AREA (CRA)</b>	078C.40.001	
5.	<b>RESOURCE INTERPRETATIONS</b>		
5.1	<b>SOIL</b>	Soil Legends, Technical/Non-Technical Soils Interpretations	
5.2	<b>WATER</b>	Water Quantity and Quality Interpretations	
5.3	<b>AIR</b>		
5.4	<b>PLANT</b>	Pastureland and Hayland Interpretations	
5.5	<b>ANIMAL</b>	Threatened and Endangered Species List	
5.6	<b>HUMAN</b>		
6.	<b>HYDROLOGIC UNIT</b>	11090201-015, 020, 030; 11100203-020; 11100301-020	
7.	<b>SYSTEM TEMPLATE LABEL</b>	FAJZA	
8.	<b>SYSTEM NAME</b>	Sandy Uplands	
9.	<b>PLANNING PHASE</b>	Benchmark	
10.	<b>PLANNING LEVEL</b>	N/A	
11.	<b>NRCS LANDUSE</b>	Pasture	
12.	<b>EXISTING CONSERVATION PRACTICES</b>		
		<ol style="list-style-type: none"> <li>1. Pasture Planting (512)</li> <li>2. Trough or Tank (614)</li> <li>3. Wells (642)</li> <li>4.</li> <li>5.</li> </ol>	
13.	<b>SYSTEM NARRATIVE</b>		
	<p>This system consists of introduced pasture grasses, Old world bluestem and Weeping lovegrass, that are used for livestock production. The landscape consists of gently rolling to moderately sloping sandy textured soils. Poor economic conditions have restricted the use of pasture management practices such as rotational grazing, installation of adequate livestock watering facilities and nutrient management. Lack of good grazing practices has lowered plant health and vigor and reduced overall plant growth and harvest. Heavy rainfall events can create erosive gullies and promote soil erosion on oil field drilling sites. The sandy texture of the soil has the potential to leach contaminants into the groundwater supply.</p>		
14.	<b>RESOURCE CONCERNS</b>		<b>MAGNITUDE/EFFECTS</b>
	<ol style="list-style-type: none"> <li>1. Soil - Erosion - Gullies</li> <li>2. Soil - Erosion - Drilling Sites</li> <li>3. Water - Quality - Groundwater</li> <li>4. Plant - Condition - Health &amp; Vigor</li> <li>5. Plant - Mngmt. - Est./Growth/Harvest</li> <li>6. Plant - Mngmt. - Nutrient</li> <li>7. Animals - Mngmt. - Pop. &amp; Res. Bal.</li> <li>8.</li> <li>9.</li> <li>10.</li> </ol>		<ol style="list-style-type: none"> <li>1. 60 tons/year</li> <li>2. 20 tons/year</li> <li>3. Contaminated groundwater</li> <li>4. Poor forage production</li> <li>5. Poor grazing distribution</li> <li>6. Improper fertilization rates</li> <li>7. Decrease forage production</li> <li>8.</li> <li>9.</li> <li>10.</li> </ol>

Conservation Management Systems

Certification of Quality Criteria

Shattuck F.D.  
28C.1 Sandy Uplands & Dunes  
Pasture

RESOURCE CONSIDERATION/PROBLEM	Term Effects		Meets Quality Criteria			
	Short	Long	Benchmark		Planned	
			Yes	No	Yes	No
<b>SOIL</b>						
Erosion						
Sheet and rill				✓		
Wind				✓		
Irrigation induced				✓		
<b>Concentrated flow</b>						
Cropland ephemeral gully				✓		
Classic gully		✓			✓	
Soil mass movement				✓		
Roadbank and construction sites <i>Drilling Sites</i>		✓			✓	
Streambank erosion				✓		
<b>Condition</b>						
Tilth				✓		
Compaction				✓		
Soil contaminants				✓		
<b>Deposition (Onsite &amp; Offsite)</b>						
Damage				✓		
Safety				✓		
<b>WATER</b>						
<b>Quantity</b>						
Seeps				✓		
Flooding				✓		
Subsurface water				✓		
Restricted capacity				✓		
Conveyance				✓		
Inadequate outlets				✓		
Restricted capacity, water bodies				✓		
Water management--irrigated				✓		
Water management--non-irrigated				✓		
<b>Quality</b>						
Contaminants		✓			✓	
Aquatic habitat suitability				✓		
<b>AIR</b>						
<b>Quality</b>						
Sediment				✓		
Smoke				✓		
Chemical drift				✓		
Odors				✓		
Fungi				✓		
Molds				✓		
Pollen				✓		
<b>Condition</b>						
Temperature				✓		
Air movement				✓		
Humidity				✓		

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**Certification of Quality Criteria**

RESOURCE CONSIDERATION/PROBLEM	Term Effects		Meets Quality Criteria			
	Short	Long	Benchmark		Planned	
			Yes	No	Yes	No
<b>PLANTS</b>						
Suitability						
Adapted to site			✓			
Intended use			✓			
<b>Condition</b>						
Productivity			✓			
Health and vigor		✓		✓		
<b>Management</b>						
Establishment		✓		✓		
Growth		✓		✓		
Harvest				✓		
Nutrient management		✓		✓		
Pests			✓			
Threatened and endangered species			✓			
<b>ANIMALS</b>						
Habitat						
Food			✓			
Cover/Shelter			✓			
Water			✓			
<b>Management</b>						
Population and Resource Balance		✓		✓		
Animal Health			✓			

References:  
 NPPH Pages 75-78  
 FOTG Section III - Quality Criteria  
 GM -450 Part 401 Paragraph 401.03