

**U.S. ENERCORP, Ltd.**  
**Almagne Arroyo 30 #2**  
**New Mexico OCD Hearing**

**Zone Separation Illustration**

6190

**Well Log Section**

US Enercorp, Ltd. Almagne Arroyo 30 #1

Showing the Stratigraphic Zones within  
the Gallup Member of the Mancos  
Formation

Porosity Log - Showing Higher Porosity  
in Shale Zones and Lower Resistivity in  
Sand Zones - due to High Cementation  
in Sands Reducing Porosity to near Zero

Image Log - Showing Sand (Yellow) and  
Shale (Black) Zones and the Gamma Ray  
Curve

Resistivity Log - Showing Higher  
Resistivity in Sand Zones and Lower  
Resistivity in Shale Zones

Objective Zone of the AA 30 #1  
Gallup "B1" Sand Member  
(Shown in Red)

Sand Zones  
(Fractures within these Zones hold Oil)

Shale Zones  
(Seal Between Sand Zones)  
(Shown in Brown)

Neutron Last Reading  
Density Last Reading

Oil Conservation Division  
Case No. **6**  
Exhibit No. **6**

North Marker Curve

Objective Zone of the AA 30 #2

Gallup "C" Sand Member  
(Shown in Green)

Linear scaling

MD  
1 : 240  
ft

VD TVD@A  
(ft)

RPM.spl R

13Q c/min 30