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KSA 82a-1212

Kansas Corporation Commission

Well Log

MW-8

Drill Date: April 5, 2010 (9.5") & April 9, 2010 (4.5")

Site: Yeoman (KCC# 20060021-00)

Field Screening

Equipment: ITX Multi Gas Meter

Location: Sec. 36-T28S-R7W 330' FNL & 330' FEL

Drill Method: Mud Rotary and Air Rotary

Drilling Rig: GEFCO Star 30K

Boring Diam.(inches) for Surface casing: 9.5"

Surface Casing Length: 33'

Diameter: 5.5" Steel

Boring Diameter through casing: 4.5"

Surface Casing Length BGS: 32'

Cement Type: Common

Sample Method: Grab samples every five feet

Est. Elevation:

Use: Monitoring/Recovery Gas Well

Total Boring Depth (feet): 115'

Depth (ft.)	Sample Type	ITX (%LEL)	Geologic Description	Well Construction
25	Surface	N/A	0.0-5' - Sand, medium/fine, sub-rounded, tan, 15% feldspar	<p>5.5" to 2" Swedge</p> <p>Common Cement</p> <p>5.5" Steel Casing</p> <p>4.5" Open Hole</p> <p>Open Formation</p>
	Wash	N/A	10 - Sand, coarse/gravel, Sub-Angular, 25% feldspar	
	Wash	N/A	15- Same	
	Wash	N/A	20 - Red Shale, soft, <5% sand - Shale at 14-15'	
	Wash	N/A	25- Same Red shale with hard shale pieces with good break	
	Wash	N/A	30- Same turning to Green Shale, weathered and soft	
	Wash/Air	6	33 - Red Shale, soft - End of Wash sampling at 33' - Air sample at 35'	
	Air	14	40- Red Fragments - Dry	
	Air	8	45 - Red Fragments - Dry	
	Air	4	50- Red/Maroon Fragments - Dry	
50	Air	5	55- Red Fragments - Dry/moist	<p>5.5" Steel Casing</p> <p>4.5" Open Hole</p> <p>Open Formation</p>
	Air	5	60- Orange/Red/Gray Fragments moist	
	Air	5	65- Red/Orange/Red Fragments - Moist	
	Air	5	70- Orange/Red Fragments - Moist	
	Air	OR	75- Red Fragments - Moist	
75	Air	OR	80- Red/Gray Fragments - Moist - H2S readings at 115ppm	
	Air	OR	90- Red/Gray Fragments - Wet	
100	Air	OR	97-Gray Fragments - Wet	
	Air	OR	115- Gray/Pink/Red Fragments - Wet	
125			TD: 115'	
150				<p>5.5" Steel Casing</p> <p>4.5" Open Hole</p> <p>Open Formation</p>
175				

OR = Reading Over 100% of LEL

Geologist: David L. Bollenback

Drilling Company: Pratt Well Service, Inc. Driller: Jon