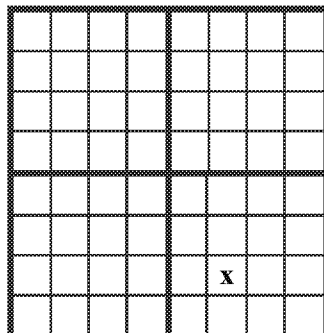


MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

WELL ID NUMBER: 136760



«———— One Mile —————»
Each square is 10-acres

Quarters NE-SW-SE Section 04 Township 25N Range 09E1

Latitude 36.667843 Longitude -96.3377231

Date collected(latitude and longitude), if different from date the well was drilled: 07/01/2011

Method latitude and longitude was collected: GPS - uncorrected data

County Osage

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Pawhuska Upper Elementary

Phone _____

Address/City/State Pawhuska OK

Zip _____

Finding Location _____

Well Name _____

Water Rights #: _____

TYPE OF WORK: Geothermal or Heat Pump Well

USE OF WELL: Heat Exchange

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 07/01/2011

Number of wells or borings represented by this log 63

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 4.25 inches to a depth of 250 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: ___ Surface Pipe Diameter ___ inches Surface Pipe From ___ ft to ___ ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material: **WELL SEAL INFORMATION**Type of Surface Seal n/aSurface Seal Interval: From n/a ft to n/a ftType of Annular Seal H. S. Bentonite GroutAnnular Seal Interval: From 15 ft to 250 ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: Below Ground**HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Yellow Shale	0	15	N
Limestone	15	40	N
Red. San. Grave	40	80	N
Gray Shale	80	140	N
Blue Shale	140	200	N
Red. San. Grave	200	220	N
Blue Shale	220	250	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? NoAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? YDistance of Well is < 50 feet from possible source. Type of possible source: House**PLUGGING INFORMATION**Date Well or Boring Was Plugged 07/01/2011Total Depth of well being plugged 250 ft.Was the well contaminated or was it plugged as though it was contaminated? NoIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? NoWas the grout tremied? YesBackfilled with BentoniteBackfilled from 15 ft. to 250 ft.Grouted with H. S. Bentonite GroutGrouted from 15 ft. to 250 ft.Grouted with CementGrouted from 5 ft. to 15 ft.Firm Name ZAVALA DRILLINGD/PC No. DPC-0747Operator Name RAUL ZAVALAOP No. OP-1673Date 07/01/2011

Comments: These are geothermal heat exchange wells