

**David B. Griffin, RG, Consulting Geologist**

1502 W. 27<sup>th</sup> Terrace  
Lawrence, Kansas 66046

Ph. (785) 842-3665  
Cell (785) 766-0099  
Fax (785) 856-3935

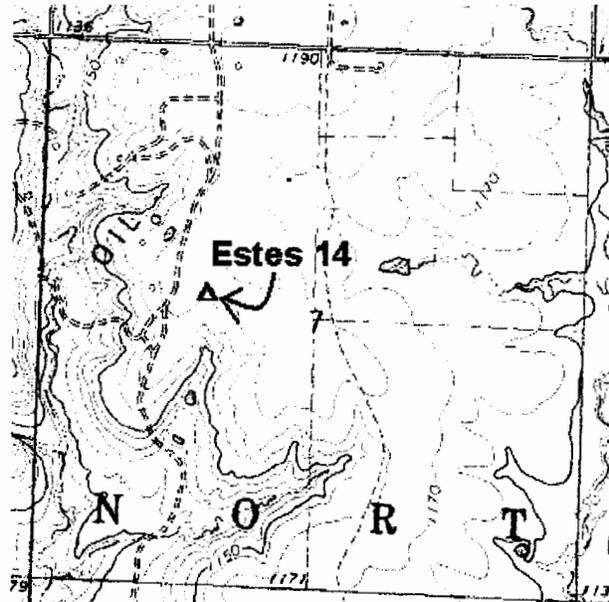
**Geological Wellsite Report**

August 6, 2007

Haas Petroleum, LLC  
800 W. 47<sup>th</sup> St, Suite 409  
Kansas City, MO 64112  
Attn: Mark Haas

EnerJex Resources, Inc.  
7300 W. 110<sup>th</sup> St., 7<sup>th</sup> Floor  
Overland Park, KS 66210  
Attn: Brad Kramer

RE: Geological Wellsite Report  
Estes No. 14, Injector Well  
S2 SW SE NW4  
Section 7, T24S – R14E  
Woodson County, Kansas



The following report on the subject well includes detailed information and geological data based on microscopic examination of rotary drill cuttings and drill bit rate of penetration from 1540' to a total depth of 1704' below the kelly bushing. A detailed log that plots drilling time, sample cuttings description and the geological tops is included. Subsea corrected geological tops were based on a surveyed ground level elevation of 1179.835' for a kelly bushing elevation of 1184'. The kelly bushing elevation is approximately 4' above the ground level.

**Daily Progress**

This was the first well using a new drilling rig for Skyy drilling and was operating only during the day shift, therefore a detail of daily progress is not available.

August 3, 2007; Drill to 1704' TD

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 03 2008

CONSERVATION DIVISION  
WICHITA, KS

## Well Information

**Well Name:** Estes No. 14      **Elev.:** Survey GL 1179.835', KB 1184'

**Location:** S2 SW SE NW4  
Section 7, T 24S--R 14E  
Woodson County, Kansas

**GPS lat long Coord:** N37.97491, W-95.91635

**API No.:** 15-207-27191-0000      **Field:** Winterschied

**Operator:** Haas Petroleum, LLC

**Contact Person:** Mark Haas

**Drilling Co.:** Skyy Drilling  
Yates Center, Kansas, 66865  
KS Operator License No.: 33557

**Drilling Co. Owner:** Mark Haas      **Tool Pusher:** Ben Harrell

**Cement Co.:** Consolidated Oil Well Service Co.  
KS Operator License No.: 04996

**Status:** Pending Completion      **Spud Date:** July 2007

**Rotary Total Depth:** 1704' KB      **Date Reached TD:** August 3, 2007

**Surface Casing:** Hole drilled with 12 ¼" bit, 41' of 8 5/8" casing,  
Cemented with approximately 30 sacks of class "A" cement with 2% gel  
and 3% CaCl<sub>2</sub>.

**Drilling Notes:** 6-blade (Ulterra) PDC 6¾-inch Bit from 41' to 1704'  
Useful drilling time provided from 1540' to TD  
Sample travel time to surface (lag), approx. 1 min. per 150 feet

**Mud Program:** Native fresh water mud to 1100', fresh water gel mud from 1100' to TD  
Fudd Mud, Inc. provided occasional monitoring of chemical drilling mud,  
Preferred properties; 33 to 36 vis, 8.9 to 9.4 wt.

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 03 2008

CONSERVATION DIVISION  
TAMHOFF 108

**Geological Supervision:**

David Griffin, RG, provided wellsite supervision on August 3, 2007 for depths from 1540' to 1704' TD. Samples microscopically examined for the entire interval.

Samples above 1540' could not be accurately described due to overwhelming sample contamination and lack of useful drilling time.

**Logs and Cores:** Since this well will be completed open-hole, no open-hole logs were obtained. It is not anticipated that cased-hole gamma-ray neutron logs will be obtained as well.

**Geological Datums:**

<b>Estes No. 14, Geological Tops</b>		<b>Estes 18</b>	<b>Estes 13</b>
<b>S2 SW SE NW4 Sec. 7</b>	<b>KB Sample Depth</b>	<b>N2 N2 SE NW4</b>	<b>NW SE SE NW4</b>
<b>Survey KB Elev. 1184</b>	<b>Depth Subsea</b>	<b>Survey KB Elev. 1188 Sample Subsea</b>	<b>Survey GL Elev. 1186 Driller Log Subsea</b>
<b>Cherokee Group</b>	NA	-124	NA
<b>U. Squirrel SS</b>	NA	-128	NA
<b>Ardmore LS</b>	NA	-230	NA
<b>Bartlesville Zone Marker</b>	NA	-320	NA
<b>Bartlesville SS</b>	1540 -356	-346	-371
<b>Chat Conglomerate</b>	1688 -484	-506	-199
<b>Mississippian LS</b>	1682 -498	-510	NA
<b>Miss. Dol, Pay Zone</b>	<b>1701 -517</b>	<b>-532</b>	<b>-524</b>
<b>Total Depth</b>	1704 -520	-533	-537

**Structural Comparisons:**

Structural comparison of subsea corrected geological sample tops for Estes No. 14 indicates that the top of the dolomite pay zone was 7' higher than the top of the pay zone in Estes No. 13, an existing producer well lying approximately 468' to the northeast.

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 JAN 03 2008  
 CONSERVATION DIVISION  
 WICHITA, KS

## Sample Observations of Zones with Hydrocarbon Shows

### Mississippian; Limestone:

#### 1698' to 1701'

Limestone, cream, fine to coarse crystalline, poor crystalline porosity, very minor vugular porosity, very slight odor, slight show of oil in the vugular porosity, 5% fluorescence, 2 to 3% clear glassy very fine grained glassy sandstone and coarse siltstone, 2% chert, translucent gray.

### Pay Zone

### Mississippian; Dolomite:

Sample observations indicate that calcareous dolomite lies from 1701' to Rotary TD at 1704' with the pay zone lying from 1701' to 1704'.

#### 1701' to 1704'

Dolomite, calcareous, light tan to light brown, very fine to fine crystalline, fair to good crystalline porosity and fair to very good vugular porosity, strong odor, good show of free oil washing from sample, good oil scum on sample bag, 30% to 40% bright green sample fluorescence.

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 03 2008

CONSERVATION DIVISION  
WICHITA, KS

## Sample Observations of Other Zones of Interest

### **Bartlesville Sandstone:**

#### **1540' to 1660'**

Sandstone, very light gray to light gray, very fine to medium grained with minor coarse grains, sub-angular quartz, interbeds of gray to dark gray silty shale, good to very good porosity, abundant loose sand grains from 1600' to 1630', varying amounts of mica and carbon, no odor, oil show or fluorescence.

### **Pennsylvanian; Chat Conglomerate:**

#### **1668' to 1682'**

Conglomerate?, light grayish tan, 50% siltstone, light tannish gray to green gray, 20% to 35% shale, tan to light tan to gray colors, 10% to 15% chert, white to translucent gray, fair porosity in the siltstone beds, no odor, no show of oil or fluorescence.

### **Mississippian; Limestone:**

#### **1682' to 1698'**

Limestone, light brown in the top few feet and cream to light grayish tan, very fine to coarse crystalline, grainstone, poor crystalline porosity, 5% chert, translucent gray, contains a few thin interbeds of clear glassy siltstone and very fine recrystallized very fine sandstone, no odor, no show of oil, no hydrocarbon fluorescence.

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 03 2008

BY: [Signature]

**Recommendations:**

Approximately 3' of dolomitic pay zone was penetrated from 1701' to rotary TD at 1704' that contained a strong odor and good show of free oil. The pay zone contained fair to good crystalline porosity and fair to very good vugular porosity development. The top of the upper dolomite pay zone was at a subsea elevation of -517', which is 7' structurally higher than Estes 13, an existing producer lying one location northeast 468'.

The operator set and cemented 4½-inch casing to the top of the pay zone for open-hole completion as an injector.

With the top of the pay zone in this well lying at a very favorable structural position, there is a very good possibility that much more pay zone lies below. Since this well is an injector, it would probably best benefit the offsetting producer wells to tail in the entire oil pay zone given the variability that exists in the pay zone from well to well. However, I do not recommend drilling below the inferred saltwater transition zone beginning at approximately -550' below sea level which corresponds to a corrected ground level depth of 1730'. It should be considered that with open-hole completions, successful acid treatments of the entire pay zone may become more difficult to achieve with the greater amount of hole being treated. A petroleum engineer should be consulted for this matter.

Respectfully Submitted,



David B. Griffin, RG  
Consulting Geologist

Attachments: Drilling Time, Sample Description and Geological Tops Log

RECEIVED  
KANSAS CORPORATION COMMISSION  
JAN 03 2008  
CONSERVATION DIVISION  
MICHIGAN, KS

Depth	Lithology	Shows	Drilling Time in Minutes per Foot Rate of Penetration Decreases						Well No: <i>Estes No. 14</i> Location: <i>S2S WSE NW 4</i> <i>SEC 7, T24 S-R14 E</i>		Pg. / of / Datum/Elev. <i>KB 1184</i>	
			5	10	15	20	25	30	Sample Descriptions	Remarks		
1500												
1550									Shndk gy, mica, carb SS lam. 30% v.f. f. gnd. NS		<i>Bartlesville SS</i> <i>1540 (-356)</i>	
									AA			
									SS, lam, 20% AA, NS			
									SS, vltgy, 60% lam AA, NS fr - vgd $\phi$			
									SS, vltgy, 50% AA, NS			
									SS, 70% vltgy, v.f. f. gnd, gd - vgd $\phi$ , NS			
1600									SS, vltgy, v.f. f. - trace med. mostly loose grains, vgd $\phi$ NS			
									SS, AA			
									SS, AA			
									SS, 20% shale, gy - dkgy, silty			
									SS, 30% ltgy, v.f. f. gnd, fr - gdp w/sh. ltgy to gy to dkgy, mica minor tan mottling in SS.			
1650									SS, AA, 30%, NS			
									coal			
									Sh, ltgy to blk, 10% siltst lam.		<i>Chat Cgl.</i> <i>1668 (-484)</i>	
									Cgl, 20-35% shale, tan to lt tan fgy 50% siltstone, lt tan gy to grng 10-15% chert, wh to translgy		<i>Miss. LS</i> <i>1682 (-498)</i>	
									LS, light brn top, cream to ltgy tan, f-cse xtlm poor $\phi$ , No odor, NS chert, 5%, translgy few beds of vltss siltstone clear & glosy, pr $\phi$ , NS		<i>Dol.</i> <i>Pay Zone</i> <i>1701 (-517)</i>	
1700									← Zone of fair vug $\phi$ , w/sli. oil show		<i>Total Depth</i> <i>1704 (-520)</i>	
									Dol, calc, lt tan to blk, fr - gd xtlm $\phi$ , fr to v. gd vug $\phi$ , good show free oil washing from samples, strong odor			
									10-20 CFS			
									open-hole completion			
									No logs Ran			