

*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

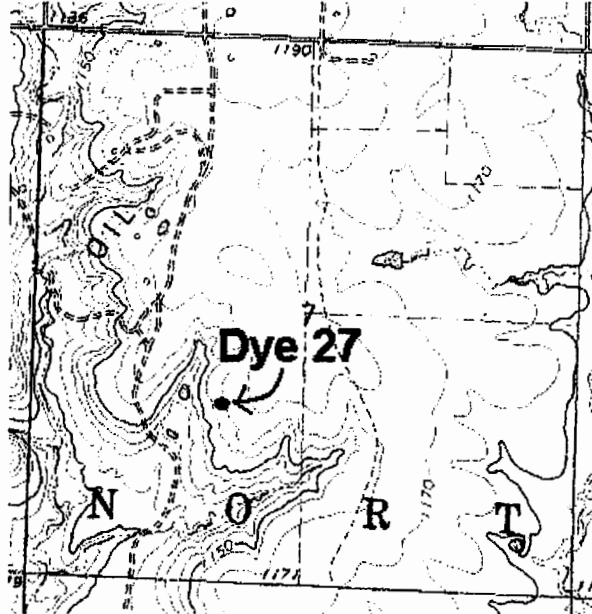
15-207-27157

July 13, 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  
Dye No. 27, Producer Well  
NE SW NE SW4  
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 1250' to a total depth of 1708' 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 an estimated kelly bushing elevation of 1172' which was surveyed to be 8.7' topographically higher than Dye No. 24 to the west. The kelly bushing elevation is approximately 7' above the ground level.

### Daily Progress

July 9, 2007; Spud Well, Set 41' of 8 5/8-inch surface casing,  
July 10, 2007; Drill from 41' to 720',  
July 11, 2007; Drill from 720' to 1690',  
July 12, 2007; Drill from 1690' to 1708', Set and Cement 4½-inch casing.

RECEIVED  
KANSAS CORPORATION COMMISSION

DEC 27 2007

CONSERVATION DIVISION  
WICHITA, KS

01-24S-14E  
NE SW NE SW

7-24-14E

## Well Information

**Well Name:** Dye No. 27                      **Elev.:** Survey GL 1165', KB 1172'

**Location:** NE SW NE SW4  
Section 7, T 24S-R 14E  
Woodson County, Kansas

**GPS lat long Coord:** N37.97199, W-95.91566

**API No.:** 15-207-27157-0000                      **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 9, 2007

**Rotary Total Depth:** 1708' KB                      **Date Reached TD:** July 12, 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> on July 9, 2007.

**Drilling Notes:** Second well with 5-blade (Ulterra) PDC 6¾-inch Bit from 41' to 1708'  
(6) 5 3/4-inch drill collars  
3½" by 31' (average length) drill pipe  
Mud pump, 2-Cylinder, 6" x 12" stroke  
Drilling time provided from 1250' to TD  
Sample travel time to surface (lag), approx. 1 min. per 125 to 150 feet

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

RECEIVED  
KANSAS CORPORATION COMMISSION

DEC 27 2007

CONSERVATION DIVISION  
WICHITA, KS

**Geological Supervision:**

David Griffin, RG, provided wellsite supervision on July 11 and July 12, 2007 for depths from 1250' to 1708' TD.

Samples microscopically examined for the entire interval.

**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>Dye No. 27, Geological Tops</b>		<b>Dye 24</b>	<b>Dye 25</b>		
<b>NE SW NE SW4, Sec. 7</b>		<b>NE SE NW SW4</b>	<b>SW NW NE SW4</b>		
<b>Topo KB Elev. 1172</b>	<b>(8.7' higher than No. 24, Rel. Survey)</b>	<b>KB Sample Depth</b>		<b>Survey KB Elev. 1163, OH-Log, Subsea</b>	<b>Survey KB Elev. 1167, Sample, Subsea</b>
		<b>Depth</b>	<b>Subsea</b>		
<b>Ireland SS</b>				915	
<b>Base of Kansas City Group</b>				186	
<b>Cherokee Group</b>		1307	-135	-131	-131
<b>U. Squirrel SS</b>		1311	-139	-133	-133
<b>Ardmore LS</b>		1403	-231	-228	-232
<b>Bartlesville Zone Marker</b>		1494	-322	-321	
<b>Bartlesville SS</b>		1570	-398	-397	-387
<b>Chat Conglomerate</b>		1670	-498	-503	-486
<b>Mississippian LS</b>		1682	-510	-509	-506
<b>Miss. Dol, Pay Zone</b>		<b>1700</b>	<b>-528</b>	<b>-534</b>	<b>-527</b>
<b>Miss. LS 'B'</b>		NDE		NDE	-597
<b>Total Depth</b>		1708	-536	-588	-613

**Structural Comparisons:**

Structural comparison of subsea corrected geological sample tops of Dye No. 27 to Dye No. 24, an active producer well lying 597' to the west indicates that the top of the Mississippian limestone was 1' lower in structure and the top of the dolomite pay zone was 6' higher in structure.

RECEIVED  
KANSAS CORPORATION COMMISSION

DEC 27 2007

CONSERVATION DIVISION  
WICHITA, KS

## Hydrocarbon Shows

**Cherokee Group; Upper Squirrel Sandstone**, Sample tops 1311' to 1318', slight to fair odor, fair show of heavy oil and tar, little amount of oil bleeding from samples, no oil scum on side of sample bags, zone is non-commercial.

**Mississippian; Limestone**, Sample observations indicate that limestone lies from 1682' to 1700'; from 1682' to 1686' there is a very slight odor with no show of oil and no fluorescence, from 1686' to 1693' there is good odor and a very slight show of free oil as a few droplets of oil on the washing water and approximately 20% of the cuttings have bright green fluorescence, from 1693' to 1700', calcareous dolomite interbeds are present with a good odor and in the more porous portions of the dolomite there is a fair to good show of free oil visible on the wash water and on the sample bag using UV light. Approximately 30% of the cuttings have bright green hydrocarbon fluorescence, (see sample log for detail).

### Pay Zone

**Mississippian; Dolomite**, Sample observations that calcareous dolomite lies from 1700' to 1708' with fair to good crystalline porosity and very good vugular porosity, a strong oil odor and very good show of bleeding light gravity oil throughout. Bright green hydrocarbon fluorescence varies from 70% to 80% in this zone, (see sample log for detail). The oil show may decrease slightly in the lower two or three feet. There is a very good to fluorescent scum of oil on the side of the sample bags from bleeding light gravity oil. This is an obvious pay zone and it is possible that more pay zone lies below.

RECEIVED  
KANSAS CORPORATION COMMISSION

DEC 27 2007

CONSERVATION DIVISION  
WICHITA, KS

## Sample Observations of Major Zones of Interest

### Ireland Sandstone:

**at 245'**

Sandstone, light gray, very fine to fine grained, sub-angular quartz, good to excellent porosity, many loose quartz grains, no odor, show or fluorescence.

### Kansas City Group, Bethany Falls Limestone

**at 900'**

Limestone, tan to cream, medium to coarse crystalline, oolitic with good oomoldic porosity, a fair amount of complete calcite crystals, no odor, no show of oil, trace of possible hydrocarbon fluorescence in 3 to 6 pieces.

### Upper Squirrel Sandstone:

**1311' to 1318'**

Sandstone, very light gray, with greenish gray siltstone interbeds, very fine grained to silt sub-angular quartz, tight to fair porosity, slight to fair odor, fair show of heavy oil and tar, only a slight amount of oil bleeding from samples, no fluorescence.

### Bartlesville Sandstone:

**1570' to 1624'**

Sandstone, light gray, very fine to fine grained, sub-angular quartz, fair to very good porosity, varying amounts of mica and carbon, no odor, oil show or fluorescence.

### Pennsylvanian; Chat Conglomerate:

**1670' to 1682'**

Conglomerate, mostly gray to tan, sandy (very fine sub-angular quartz to medium grained well rounded quartz), silt quartz, abundant chert (as gravel?) 30%, white to gray, there is clay as a matrix in part, also contains dark gray shale, porosity is difficult to estimate, there is a slight odor that quickly dissipates, no show of oil or fluorescence.

RECEIVED  
KANSAS CORPORATION COMMISSION

DEC 27 2007

CONSERVATION DIVISION  
WICHITA, KS

**Mississippian:**

**Limestone, 1682' to 1700'**

Limestone, cream, light grayish-tan, and light brown, fine to coarse crystalline, grainstone, approximately 5% light gray quartz silty sandstone, very fine (sub-angular) to medium grained (well rounded). Interbeds of grayish-tan dolomite lie from 1693' to 1700' that appears to be the source of a majority of the oil show in this interval, fair to good crystalline porosity, poor vugular porosity, limestone has fair crystalline porosity with a trace of vugular porosity. Sample has slight odor toward top and good odor toward bottom, 20% to 30% of the cuttings (dolomite) have bright green fluorescence, very slight show of oil as a few droplets on the surface of the wash water, also contains 10% brownish-gray to very dark gray shale. This zone is probably not commercial.

**Dolomite, Pay Zone, 1700' to 1708', (TD)**

Dolomite, calcareous, light brown (oil show) to light grayish-tan, very fine to fine crystalline, fair to good crystalline and good to very good vugular porosity, strong odor, very good show of bleeding free oil as a very good fluorescent scum on the wash water and on the side of the sample bags, 70% to 80% of the cuttings are bright green fluorescent. The interval also contains approximately 3% mineral crystals of dolomite, calcite and clear nodular chert.

**Recommendations:**

Approximately 8' of dolomitic pay zone was penetrated from 1700' to 1708' at TD containing a very good show of free oil. The pay zone had fair to good crystalline porosity and good to very good vugular porosity development. The top of the dolomite oil pay zone was 6' structurally higher than Dye 24, a producer lying adjacent and to the west. With the very good showing of oil and favorable structural position, the operator set and cemented 4 ½-inch casing to 1700' to test the zone with open-hole completion. It is possible that several more feet of pay zone lies below.

Respectfully Submitted,



David B. Griffin, RG  
Consulting Geologist

Attachments: Drilling Time, Sample Description and Geological Tops Log

RECEIVED  
KANSAS CORPORATION COMMISSION

DEC 27 2007

CONSERVATION DIVISION  
WICHITA, KS