# 15-207-2141-0000

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**Geological Wellsite Report** 

May 7, 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

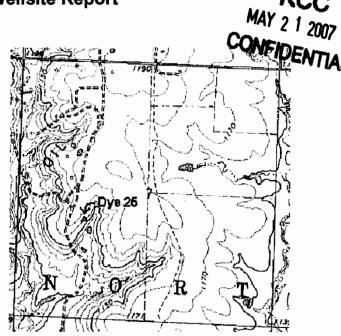
RE:

Geological Wellsite Report

Dve No. 25. Proposed Injector Well

SW NW NE SW4

Section 7, T 24S - R 14E 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 1300' to a total depth of 1780' 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 kelly bushing elevation of 1167 which is 7' above the surveyed ground level elevation of 1160' above sea level.

## **Daily Progress**

May 1, 2007; Spud Date, Set approximately 40' of 8 5/8-inch surface casing.

May 2, 2007; 4 AM, Drill out from under surface, drill from 40' to 920'.

May 3, 2007; Drill from 920' to TD at 1780, Set 4 1/2-inch casing and Cemented in.

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**CONSERVATION DIVISION** WICHITA, KS

## Well Information

Well Name:

Dye No. 25

Elev.: Survey; GL 1160, KB 1167

Location:

SW NW NE SW4 (from topo) App. 2150' fsl, 1050' fwl Section 7, T 24S - R 14E Woodson County, Kansas

**GPS lat long Coord:** N37.97299, W-95.91706

API No.:

15-207-27141-00-00

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:

May 1, 2007

Total Depth:

1780 KB

Date Reached TD:

May 3, 2007

Plugged Date:

Not Plugged

**Surface Casing:** 

Hole drilled with 12 1/4" bit, 40' of 8 5/8",

Cemented with approximately 30 sacks of class "A" cement with 2% gel

and 3% CaCl<sub>2</sub> on May 1, 2007.

**Drilling Notes:** 

63/4-inch (Altera) PDC Bit, from 40' to 1780'

(6) 5 3/4-inch drill collars 31/2" by 31' (average) drill pipe

Mud pump, 2-Cylinder, 6" x 12" stroke Drilling time provided from 1300' to 1780' TD

Sample travel time to surface (lag), approx. 1 minute per 125 to 150 feet Drill stem: approx. 60 RPM for Pennsylvanian Rocks and 40 RPM for

Mississippian Rocks, Bit weight varied

Mud Program:

Native fresh water mud to 1200', fresh water gel mud from 1200' to TD Fudd Mud, Inc. provided daily monitoring of chemical drilling mud.

Preferred properties; 33 to 36 vis, 8.9 to 9.4 wt.

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Dye No. 25, Wellsite Geology Report By David Griffin, RG May 7, 2007

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## **Geological Supervision:**

David Griffin, RG, provided wellsite supervision on May 3, 2007 for

depths from 1300' to 1780' TD

Samples microscopically examined for the entire interval.

Hydrocarbon Shows: Cher. U. Squirrel Sandstone, 1300' to 1307', Show of Heavy Tarry Oil

Miss. Limestone, 1689' to 1694', Slight Show of Oil Miss. Dolomite, 1694' to 1707', Pay Zone, High Gravity Oil Miss. Cherty Dolomite, 1707' to 1718', Slight Show of Oil

Logs:

No Open-Hole logs were ran for this well,

It is anticipated that a Cased-Hole Gamma-Ray Neutron log will be ran

for correlation and perforation considerations.

Cored Interval:

No cores were cut for this well.

## **Geological Datums:**

				PARIDEN	
Dye No.25, Geol	Dye 24, app.	Dye 23, app.			
	KB Sample Depth		330'SW	435' W	
Surveyed KB Elev. 1167	Depth	Subsea	Surveyed KB Elev. 1163, Spl., Subsea	Surveyed KB Elev. 1173, Spl., Subsea	
Shallow Gas Sand	NA		916	921	
Base of Kansas City Group	NA		194	189	
Cherokee FM	1298	-131	-132	-129	
U. Squirrel SS	1300	-133	-134	-137	
Ardmore LS	1399	-232	-235	-235	
Bartlesville SS	1554	-387	-397	-381	
Chat	1653	-486	-497	-495	
Mississippian LS	1673	-506	-507	-510	
Miss. Dol, Pay Zone, 13' Thick	1694	-527	-532	-547	
Miss. LS 'B'	1764	-597	NDE	-603	
Total Depth	1780	-613	-587	-607	

#### **Structural Comparisons:**

Structural comparison of subsea corrected geological tops for Dye No. 25 to Dye No. 24 lying approximately 330' to the southwest indicates that the primary zone of interest, the Mississippian dolomite was 5 feet higher in structure. The dolomite was 13' thick with an excellent show of high gravity gassy oil.

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Dye No. 25, Wellsite Geology Report By David Griffin, RG May 7, 2007

## Sample Observations of Major Zones of Interest



## **Upper Squirrel Sandstone:**

#### 1300' to 1308', 8' thick

Sandstone, gray, very fine grained, quartz, fair porosity, some tight streaks that are well cemented, slight show of heavy oil and tar, no odor, some oil is slow to bleed, other does not bleed at all, heat from light source facilitates bleeding, appears non-commercial, oil appears to be around 18 to 20 gravity.

#### **Bartlesville Sandstone:**

#### 1554' to 1620'.

Sandstone, light gray, very fine to fine grained with some loose medium size grains toward bottom, sub-angular quartz, carbonaceous and silty, minor mica, interbedded with dark gray shale, no show of oil, odor, or fluorescence.

#### Mississippian:

#### Limestone

1673' to 1694'.

Limestone, cream to light tan, very fine, medium and coarse crystalline, grainstone, pelletal, poor to fair porosity, very minor quartz silt, slight odor, no show of oil, lower 5' from 1689' to 1694', has 3-15% fluorescent, minor show of free oil.

#### **Dolomite**

1694' to 1707', Pay Zone, 13'

Dolomite, calcitic, light tan to light tannish gray, very fine crystalline dolomite with fine and medium crystalline calcite, fair to good crystalline porosity, good vugular porosity, very strong odor, excellent show of free high gravity oil, 75 to 80% cuttings are fluorescent, two thin zones of chert with 25% fluorescence, much oil on surface of sample wash water.

#### Dolomite.

1707' to 1718', 11'

Dolomite, calcitic, tan to gray, very fine crystalline, fair crystalline and vugular porosity, slight odor, 3-15% of the cuttings have fluorescence, minor show of oil, 10 to 30% chert, white to light gray to tan.

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### Recommendations:

This well had an excellent pay zone section 13' thick and was 5' structurally higher than Dye 24 a proposed producer, 330' to the south. This well should be very effective as a water injection stimulation well. Therefore, 4 ½-inch casing was set and cemented with completion pending injection approval by the state.

Respectfully Submitted,

KCC MAY 2 1 2007 CONFIDENTIAL

David B. Griffin, RG Consulting Geologist

Attachment: Drilling Time, Sample Description and Geological Tops Log

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/	Depth	ᇉ	ا س	Drilling Time in Minutes per Foot Well No: Dy = 25  Rate of Penetration Decreases Location: 5WNWNE 5W4	Pg./ of Z Datum/Elev.	
		Lithology	Shows	5 10 15 20 25 30 Sample Descriptions	KB 1/67, Surv. Remarks	
	1300	, v		5 10 15 20 25 30 Sample Descriptions	Cherokee	
	5-3-07	<i>±</i> , ,	Heavy	SAMPARS  SS, 39, VEGAND, 478, FT &, SOME PARTS ( Well commended, show he avy oil & far, some milb leads, No Odor, Now oil saturations	1298 (-131)	
	7AM		Voil -	100 oil saturations Sh, dkgy	U. Squirrel SS 1300(-133)	
					1300-135)	
		<u> </u>		LS, gy-dkgy, v. figndg+z, sandy		
		===		LS, AA		
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١	5-3-07 11:25 AM 1550					

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	Depth	Lithology	Shows	Drilling Time in Minutes per Foot Rate of Penetration Decreases	Well No: Dye 25 Location: SWNWNE SW4 SEC. 7-T 245-R 14E	Pg.2 of 2 Datum/Elev. KB //6754ry,	
-	15.50	ogy	SWC	5 10 15 20 25 30		Remarks	
	1550 5307 11:25AM			10' Souples	55, 1+99, Urf-gad. NS 50% cuttings	Bartlesville SS 1554 (-381)	
		11/1/1/1			ss, AA, Ns, carb, silty, shlam sh, dkgy, silty		
				5 5 6	ss, 1+gy, vif-fgud, sd. Kisub-ang, NS or odor, min, mica, carb.		
	1600	1,1			ss, AA w/shale, Ns		
				SS, AA	MAY 2 CONFID	CC   2007	
		; ; ; ; .		E	fewmed. loosegrains sh, dkgy-blk,s; ltg, fewsslam	CONFID	ENTIAL
				Begin 5 Samples  Change	Cod   tanic lasstone		
	1650			E en ad pump 22 stilling, 600 PSA  ind K13 40 RPM  Load Re-Mix Mudd	shidkgy-blk Conal.7. shaley, Chertisand, siltstone, "	Chat Colm.	
		44 4			congl.7, shaley, chert, saudy sittstone, " chert 1 toward bottom to 70% tray though, loose at the med gud chert, 70%, gy-whisome weathers cgl, 14	1653 (-486)	
				1676 CF S 1622)	tew Ls, taux (125 ts. LS, 14 tan, y-f+of, x tin, (20%), , 50% g-ft 511t, 511 odor,	Miss. LS 1673 (-506)	
		遺	) = lihoen	1685 CES 4720 4071 05 1716 05 1716 1	LS, Cred m to It.tan, f-m-csc xflm, pelletid, grainstone, pr-frø, No Fluor. No odor, trchert, minor Shigh work municipality LS, An trxlia ung 3-5 % Fluor, slioden polyles, A, mod odor, come from minfree ell	Miss, Dol	
	1700	/II / 4/ II / /II /	Show Joil gassy	7/7005C AS/A/10	Tasse, much of the walk water	Pay 2008 1694 (-527) +01707 13' Pay	
		# / # / # A	sli	- Trif e is jaie o	10% chart, An mehimicher	J	
		/ / / / / / / ± /			Dol, ay-Itgy to gytan, uf x+lm, u.litle fluor, fr &, faint odor, tew Dol x to 12, Moshow  Dol, calcitic, Itgy -gy, uf-mx+lm, ft odor, Dold calc x to 15, Nos how		MAY
		#4- 22)			LS, Itgy: f-csc xt ln; mottled, Noshow  Doi +LS: AA, minor-frog mented 4-12,NS		MAY 2 1 2007 CONSERVATION DIVISION
	1750			34 Vis 4. Wh.	- abrat pyrive Dol+LS, AA, NS		007 VISION
					1-5, f-m xfln, cream to lt gy-tan, fr p, abrat pyrite, 10% chert trans, wh, ws	MissLS '8'	
	9;00PA 5-3-07	A. A. A.	-	1001 Open Hole	40% chert, translucent wh 70% Chart from whock. LS, tan, f-in x+lm, ooll ticinpert, fry, Noshow	Total Depth 1780 (-613)	
				Louged or Cored			;
					<u> </u>	*	

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