# 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**

April 27, 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. 24, Producing Well 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 penetration rate from 1250' to a total depth of 1750' 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 1163 which is 7' above the surveyed ground level elevation of 1156' above sea level.

# **Daily Progress**

April 21, 2007; Spud Date, Set approximately 40' of 8 5/8-inch surface casing.

April 22, 2007, Drill out from under surface.

April 23, 2007, Reached Pay Zone and TD.

April 24, 2007, Open-Hole logged, 4 1/2' casing set and cemented.

April 30, 2007, Cased-Hole logged, Perforated from 1688 to 1695 with 4 shots per foot.

RECEIVED KANSAS CORPORATION COMMISSION

JUN 14 2007

CONSERVATION DIVISION WICHITA, KS

# JUN 1 4 2007 CONFIDENTIAL

### Well Information

Well Name:

Dye No. 24

Elev.: Survey; GL 1156, KB 1163

Location:

App. 100' S of Cen N/2 SW/4 (from topo)

App. 1184' fsl, 1235' fwl Section 7, T 24S - R 14E Woodson County, Kansas

GPS lat long Coord: N37.97225, W-95.91769

API No.:

15-207-27137-00-00

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:

April 21, 2007

**Total Depth:** 

1750 KB

Date Reached TD:

April 23, 2007

Plugged Date:

NA

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% CaCl₂ on April 21, 2007.

**Drilling Notes:** 

6 3/4" Bit; 40' to 1750', PDC Type,

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

Mud pump, 2-Cylinder, 6" x 12" stroke

Drilling time provided from 1250' to 1750' TD

Sample travel time to surface (lag), approx. 1 minute per 125 feet

Drill stem: approx. 40 RPM, 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.

**RECEIVED** Page 2 of Ansas Corporation Commission Wellsite Geology Report

By David Griffin, RG

April 27, 2007

JUN 14 2007

**Geological Supervision:** 

David Griffin, RG, provided wellsite supervision on April 23rd and April

24th, 2007 for depths from 1250' to 1750' TD

Samples microscopically examined for the entire interval

Hydrocarbon Shows: U. Squirrel Sandstone, 1296' to 1325', (Sample) show of tar

Mississippian, Limestone and Dolomite, 1692' to 1712' (Sample)

Pay Zone, Dolomite from 1695 to 1702 (Sample)

Logs:

Open-Hole; Gamma-Ray Neutron (GRN) Density Porosity, Photo-Electric, Spontaneous Potential, Dual Induction, Caliper, with High

Resolution from 1300' to TD.

Cased-Hole: GRN

#### **Geological Datums:**

Dye No.2	Dye No.24, Geological Tops										
	1	Sample epth		oen-Hole Depth	S at S2 S2 N2 SW4 7-24-14E						
KB Elev. 1163	Depth	Subsea	Depth	Subsea	est GL elev 1125, Subsea						
Shallow Gas? Sandstone	NA		247	+916	+904						
Base of Kansas City Group	NA		969	+194	+186						
Cherokee FM	1295	-132	1294	-131	-141						
U. Squirrel Sandstone	1297	-134	1296	-133							
Ardmore LS	1398	-235	1397	-234	-246						
Bartlesville SS	1560	-397	1560	-397	-378						
Chat	1660	-497	1666	-503	-503						
Mississippian LS	1670	-507	1672	-509	-514						
Mississippian Dol, Pay Zone	1695	-532	1697	-534	-540						
Total Depth	1750	-587	1751	-588							

## Structural Comparisons:

Structural comparison of subsea corrected geological tops for Dye No. 24 to Dye No. 20 lying approximately 325' to the South indicates that the primary zone of interest, the Mississippian Dolomite was 6 feet higher in structure and contained an excellent show of light gravity free oil.

> RECEIVED KANSAS CORPORATION COMMISSION

# Sample Observations of Major Zones of Interest

#### Squirrel Sandstone:

1297' to 1325', (OH Log), 27' thick, shaley

Sandstone, gray, very fine grained, quartz, with siltstone, fair porosity, fair show of tarry oil, faint odor, oil does not bleed, no fluorescence, below 1306 sandstone occurs as laminations with siltstone in a gray shale matrix.

#### **Bartlesville Sandstone:**

1560' to 1565', 1574 to 1587, (OH Log), 22' thick

Sandstone, light gray, very fine to fine grained, subangular quartz, fair to good porosity, no show of oil, odor, or fluorescence.

#### Mississippian:

Limestone

1672' to 1692', (OH Log)

Limestone, cream to light tan, very fine to fine crystalline, poor to fair porosity, some thin beds of quartz siltstone and very minor sand grains, slight odor, no show of oil or fluorescence.

Limestone

1692' to 1696', (OH Log)

Limestone, cream to light brown, very fine to medium crystalline, fair crystalline and vugular porosity, good odor, 3% of the cuttings have bright green fluorescence with good show of light gravity free oil.

Dolomite, Pay Zone

1695' to 1702' (Sample), 7' Pay

1697' to 1704', (Open-Hole Log), 7' Pay

1687' to 1695', (Cased-Hole Log), 7' Pay

Dolomite, calcitic, light brown, very fine crystalline, good crystalline porosity, good to excellent vugular porosity, very strong odor, 60 to 80% of the cuttings have fluorescence with oil saturation, few gas bubbles breaking out, no chert present.

RECEIVED KANSAS CORPORATION COMMISSION

JUN 14 2007

## Recommendations:

Due to the excellent show of light gravity oil and proximity to producing wells, pipe was set, cemented and perforated from 1688 to 1695 (Cased Hole Log with GL Datum) at 4 shots per foot.

Respectfully Submitted,

David B. Griffin, RG Consulting Geologist

Attachment: Drilling Time, Sample Description and Geological Tops Log

Depth	Lithology	Shows	1000 J CON 1 - 3-17	pg. 1012 Remarks Surveyed	
1250	ygy	Š	5 10 15 20 25 30 SEC. 7-295-R14E	KB Elev=/163	l
1250 4-23-07			54,99	KB Sample	l
7-2501	Int	1	LS, cream to 1+ bn, vf-mx+bnfrg	Datum	
	过	1	LI III NS	•	KCC
	1-1	1	<del></del>		i
	<b>三</b>	1	Shigg	JUN	4 200
	H-7-4,	ł	LS, AA		
	$H^{\prime\prime}$	t	<del>+++++++++++++++++++++++++++++++++++++</del>	CONF	<b>INEN</b>
		1			l
	TT		shigy, silly		1
	7	1	- Landthon	a a ana ka e	
	1	1	LS, tan, 1thrn, shible	herokee 1295(-132)	
1300	1. 2	l l	SS. U. F. gnd, 4 tz, with 5/51, try, tair-	U. Squirrel	1
1200	1.2.3	tar Show	does not bleed, No flyor.	sands tone 1297 (-134)	
	-:-	no	<i>                                      </i>	1297 (-134)	
	1:::	no sleed- ing	Shalegy with		Ī
	25.42	ב"י ע	mestly silt		
	: -:.	A			I
	: -::	K	siltess lem Antarshow		Ī
		ľ	<del>]                                      </del>		
	<del></del> -	ł	AA, spoty tarshow		ļ.
			<del></del>	ь.	
	<u></u> _	]	shale, Olkani, si H, v, minss, v figand N, S, Za Fbonaceous		
		[	N, S, Zarbonaceous		
	- <u>-</u>	1	<del>5                                      </del>		
1350	<del></del>	ł	shale, v. d kyy, silt 4.58 am, carb.us		
-	<u> </u> =	1	<u></u>		i
	E=: =	1	<u></u>		Ī
			AA AA		
	. —.	1	<del>▋<u>┆</u>┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆</del>		
	<del></del>	i	AA		
	<b>⊢</b> . ∸		<u></u>		
		Į.	<u></u>		
	100		<u></u>		
	<u> </u>		Shale, Black		ł
		1	LS. Creamitod Kgy, focs. VF-Fxtln.		
		1		Ardmore Ls 1398 (235)	
1400		1	tras v.f. gnd, x. sl. showoit stain	1398 (235)	
, , - 0	12 -	l	<del>▗▊▕▗▝▗▎▄▊▕▕▕▗▐▗▐▗▋▜▘▎▕▘▎▊▍▍▍▜▋</del> ▍▜▜▋▜▜▋▊	•	
		]	siltstone, It g y, qt z, min. mica, Ns		1
	<del></del>	sli, .	AA, AA Language was the chia		
	-:-	slijain. Stain.	AA, ss stringers w. V.sl. stringers where stained gas some possibly?		
		[ " " "	"gas vone possibly?  Sh, dkgy, silt/189 lam.		
		1	<del>Ц++++++++++++++++++++++++++++++++++++</del>		
		1	cs, tan sh, 1+gy-dkgy, silt lum, to siderite		
			54,/199-9893,311		
		1	<del>╂┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼</del> ┼┼┼┼┼┼┼┼┼┼		
		1	<del>                                      </del>		
11100		ļ	LS, tan		
1450		1	54,95-d Kgg,9; lf lam, tru,f.55, NS		l
	<u> </u>	]		-	1
		1	sh,dkg9, 5; /t lam.		
		1			
		1			1
		1	1	םברבוו/בם	ŀ
	7	l	PASSON.	RECEIVED S CORPORATION CO	MMISSION
		1	<del>* - - - - - - - - - - - - - - - - - - -</del>	3 CORPORATION CO	MOIODIMI
		ł	Ls, tany don't	ILIM 1 & 200	<b>,</b>
	==	1		JUN 1 4 200	Y
		1			
4-23-01	1	1	<del>4                                      </del>	CONSERVATION DIVI	<b>SION</b>
1500	i .	ľ		WICHITA, KS	l

Depth	Lithology	Shows		Rate	rilling Time in Minutes per Foot late of Penetration Decreases								•	30		Dge 24  Sample Descriptions  ~100's of Center N2 SW4  Sec. 7 — T245 - R14E	pg.20f2 Remarks Surveyed KBEkv=1163		
1500 4-23-07	7. 7.	Ø			, 	H	TI TI	Ш	15		20 		25 	30	3	carb, misa, carb, NS, Sli-cale.	KBSample		
,			虽								$\parallel$	Ш	#		Ł	MA	Datum		
			15	$\boxplus$			$\parallel$				$\parallel$		H		1	,,,,,	, , , , , , , , , , , , , , , , , , ,		
	<del>7111</del>		田	Ħ		+					#		H		1	9A			
	:=:				$\blacksquare$	$\exists$							T		1			k <b>c</b> c	
,	<u> </u>												Ţ		1	4A	Y	I .	
			H			#					$\parallel$				1			1 4 2007	
			耳			#					$\parallel$	П	$\parallel$		٩	h,si.Hy,dkgywith Amof ssasbelow ss,it.gy,vf-fgnd,subang,profip	CONF	DENTIA	
1550			H			1 00	14	1	1		1/2	4			f	well cemented; min. mica; NS	<i>'</i>		
						9							Ħ		1.		Bartles ville SS 1560 (-397)		
			H			#		$\blacksquare$		H	$\parallel$		H		1	55,14-gy, v.f-fgnd, sub-ang.fr-gdp min mica, wso rodorox fluor	1560 (-397)	Ţ	
							$\parallel$				#		H	Н					
	145		团			50	9 /4	1/4	18	40	p		T		ľ	S. Itgy, vf-fand, subany. fr-gdd, N.S., shale silt interbods			
						$\mp$						П			1	1.4			
				7		$\mp$	#						Ħ			54, v. dkgg to blk. <			
													T		3	sh, Itgs-tay, Clayey			
600												Ш	$\parallel$	Щ	14				
	~						#						$\parallel$		ľ	in viditgy-blk, si4g			
	==			$\Box$		+							1		14	14			
						#	$\blacksquare$						$\parallel$		1				
															1	1.4			
								$\mp$							1	r, cdal			
			H				H								]	.,			
							H								1				
11 -0							Ħ								ء	hiltgg-blk		į	
650	=		H				Ħ						H		T	l de	~ / /		
							Ţ				1,		$\parallel$		7	in, thert wnite (1650-60sample) hiltgg-blewlehert, sitts 1484	Chat -	1	
	4 4 4		目			# S		5	S	244					ć	Basandy sitty congl? Slodor, NSO	Miss LS	ł	
	1, I		甩		$\blacksquare$	$\mp$										L'S, It tan, Vf-fyth, pr-frg, sl. odor, sitystreaks	1670 (-507)	†	
	爭					$\blacksquare$										LS, Cream-sittangf-med x+ instrums v.sliodor, NSO, minor sittete.			
	<del>1</del>		F													Natiodor, NEO, minor siltete. AA, traul7, NEO, Ell codor	·		
		• • •				99	C)		10	/ZU			$\parallel$			S. crimto it buint-matinitral in patrug	Marina Dal		
		exch.	5			===	- -								Į	Composition, very metally text in petering gador, appointings, but gen fluor, freeling it in the fluor, freeling it in the fluor, freeling. Doltalettion, it but, v. fixtin, adethor, gadexx ving give strong ador, took	1695 (532)	1	
700	7 = / 2 / A/	falr's				2.3	4	3	- 4	20					1	Gd-exc ung d, v. strong adot, 17016 60-90% cuttings Almor, excell satur. few gas bubbles, few cse xtals, trained	Pay Eans		
		154													ľ	Con 30% cuttings Almer, excell satur.  tem gas but bles, few coex staty, reflect chert, it than unity, because it its; Dolint-sit xilm, ittan brucale itis; chert, 20-10% of transportar. She did cutting 20% Fluor. Noter odor, irghu			
	4	)									$\parallel$				١,	en Hing 2000 Fluor. Water odorstrybu Oligytogy-bn, ufxtlnstrø, NS, Nochert		N/ED	
	<del>///</del>		H		$\blacksquare$	#	$\blacksquare$						H		1	tralauc, calcitiz  Pol, 1+94, me Hledgy, calcitic, tralacus	KANSAS CORPORA	IVED TION COMMISSE	
	笋		H		$\blacksquare$	#	$\parallel$				$\parallel$		H		]	פארב ייכוי ליאוינושל ההוא וויינו ביי ויי			
	17		<b> </b>		$\mp$								H		1	s, Interbeds, f-m 4+1m, wspr-trg	JUN 1	4 2007	
1	1/1		H	甘	Ħ		Ħ								1	oli viltasi vifixtlnip rdins, rewatt xtals.,		ON DIVISION	
y-23-07 0:50PM	<del></del>		H	77	$\mp$		H		$\parallel$						D	ol. ba- 34, v f x+ln, pr-frø, ns. few 4+2 x+2, ns	<u>.</u> .	TA, KS	
700	1-1-	-	115		丑		H		$\pm$		$\mathbf{H}$	$\coprod$		Ш	L	414 XKV/N>	70tal Depth 1750 (-587)	L	