

Scale 1:240 (5"=100') Imperial

Well Name: Moeder 'A' Unit #1

Location: Sec. 22 - T11S - R34W, Logan County, KS

Licence Number: API No.: 15-109-21037-0000 Region: Wildcat

Spud Date: October 6, 2011 Drilling Completed: October 15, 2011

Surface Coordinates: 2530' FSL & 2550' FWL; 3-D Location

**Bottom Hole Coordinates:** 

Ground Elevation (ft): 3173'

Logged Interval (ft): 3600'

To: 4780'

K.B. Elevation (ft): 3183'

Total Depth (ft): 4780' (LTD)

Formation: Mississippian

Type of Drilling Fluid: Chemical Gel/Polymer

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

### **OPERATOR**

Company: Russell Oil, Inc. Address: P.O. Box 8050

Edmond, OK 73083

#### **GEOLOGIST**

Name: Derek W. Patterson

Company: Valhalla Exploration, LLC

Address: 133 N. Glendale

Wichita, KS 67208

## **REMARKS**

The Moeder 'A' Unit #1 was a proposed location based off of 3-D seismic interpretation. The well ran structurally low throughout its course, with respect to nearby dry holes and the anticipated datums based off of the interpretation. After review of the open hole logs and sample evaluation it was decided upon by operator to plug and abandon said well as a dry hole.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

### **COMMENTS**

No DSTs were performed.

The RTD and LTD were both 4780'.

# Russell Oil, Inc.

## DAILY DRILLING REPORT

Company: Russell Oil, Inc.

P.O. Box 8050

Edmond, OK 73083

Contact: LeRoy Holt II

Cell: 405.401.6464 Office: 405.752.7600

Geologist: Derek W. Patterson

Cell: 316.655.3550 Office: 316.558.5202

Drilling Contractor: H D Drilling, LLC - Rig #2

Toolpusher: Doug Roberts

Well: Moeder 'A' Unit #1 Location: 2530' FSL & 2550' FWL

Sec. 22 - T11S - R34W

Logan Co., KS

Elevation: 3173' GL - 3183' KB

Field: Wildcat

API: 15-109-21037-0000

Surface Casing: 252' of 8 5/8" set @ 264' KB

Spud Date: October 6, 2011 Drilling Complete: October 15, 2011

Toolpusher	: Doug Roberts	
DATE	7:00 AM DEPTH	PREVIOUS 24 HOURS OF OPERATIONS
10.13.2011	4173'	Drilling and connections Topeka. Bit trip @ 3849', 2230 hrs 10.11.11. Resume drilling following bit trip, 0430 hrs 10.12.11. Drilling and connections Topeka. Geologist Derek W. Patterson on location, 1255 hrs 10.12.11. Reset Bloodhound depth, test system, resume drilling and connections Topeka, Heebner, Toronto, and into Lansing. Decision made to bit trip @ 4130' due to very tight connections and poor sample return. CTCH, drop survey, short trip, 2215 hrs 10.12.11. Resume drilling following bit trip, 0430 hrs 10.13.11. Drilling and connections Lansing.  Made XXX' over past 24 hrs of operations.  DMC: \$330.75 CMC: \$9,111.85
10.14.2011	4436'	Drilling and connections Lansing. CFS @ 4272' (LKC 'H'), resume drilling and connections Lansing. CFS @ 4296' (LKC 'I'). Resume drilling and connections Lansing. CFS @ 4330' (LKC 'J'/Stark). Resume drilling and connections Lansing. CFS @ 4360' (LKC 'K'). Resume drilling and connections Lansing, Base Kansas City, and into Marmaton. Made 263' over past 24 hrs of operations.  DMC: \$1,346.15 CMC: \$10,458.00
10.15.2011	4659'	Drilling and connections Marmaton and into Pawnee. CFS @ 4550' (Pawnee). Resume drilling and connections Pawnee and into Myrick Station. CFS @ 4576' (Myrick Station). Resume drilling and connections into Fort Scott. CFS @ 4610' (Fort Scott). Resume drilling and connections Fort Scott, Cherokee, and into Johnson Zone.  Made 223' over past 24 hrs of operations.  DMC: \$1,523.00 CMC: \$11,981.00
10.16.2011	RTD - 4780' LTD - 4780'	Drilling and connections Johnson Zone. CFS @ 4690' (Johnson). Resume drilling and connections Johnson, Morrow, and into Mississippian. CFS @ 4727' (Miss). Resume drilling and connections Mississippian ahead to RTD of 4780'. RTD reached, 2020 hrs 10.15.11. CTCH, short trip (20 stands CTCH, drop survey, TOH for open hole logging operations, 0000 hrs 10.16.11. Commence open hole logging operations, 0330 hrs 10.16.11.  Made 121' over past 24 hrs of operations.  CMC: \$11,981.00
10.17.2011	RTD - 4780' LTD - 4780'	Conducting open hole logging. Open hole logging operations complete, 0745 hrs 10.16.11. Orders received to plug and abandon well as a dry hole. Geologist Derek W. Patterson off location, 0830 hrs 10.16.11. CMC: \$11,981.00

# Russell Oil, Inc.

# **WELL COMPARISON**

		DRILLIN	G WELL			COMPARI	SON WELL			COMPARIS	SON WELL		COMPARISON WELL								
	Russ	sell Oil - Mo	eder 'A' U	nit #1	Dona	ald Slawso	n - James '	M' #1	Falc	on - Peters	on #1 'OW	WO"	Vess- Wassemiller Jenik Unit #1-24								
	2	2530' FSL 8	2550' FW	L		C SV	V NW			545' FNL &	2475' FEL		NW SW NW								
	;	Sec. 22 - T1	1S - R34V	v		Sec. 22 - T	11S - R34V	1		Sec. 16 - T	11S - R34W	1		1							
					D	ry	Struc	tural	Oil - LK	C 'J' /Cher	Struc	tural	Oil - Lk	(C 'I' / 'J'	'l' / 'J' Structura						
	3183 KB 3178 KB Relation								3219	KB	Relatio	onship	3148	KB	Relatio	onship					
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log					
Heebner	4057	-874	4055	-872	4050	-872	-2	0	4072	-853	-21	-19	4020	-872	-2	0					
Toronto	4078	-895	4078	-895	4071	-893	-2	-2	4095	-876	-19	-19	4044	-896	1	1					
Lansing	4097	-914	4097	-914	4091	-913	-1	-1	4114	-895	-19	-19	4060	-912	-2	-2					
Muncie Creek	4240	-1057	4240	-1057	4233	-1055	-2	-2	4258	-1039	-18	-18	4200	-1052	-5	-5					
Lansing 'H'	4256	-1073	4256	-1073	4250	-1072	-1	-1	4275	-1056	-17	-17	4218	-1070	-3	-3					
Lansing 'I'	4288	-1105	4285	-1102	4281	-1103	-2	1	4305	-1086	-19	-16	4250	-1102	-3	0					
Lansing 'J'	4308	-1125	4302	-1119	4299	-1121	-4	2	4324	-1105	-20	-14	4271	-1123	-2	4					
Stark	4327	-1144	4321	-1138	4322	-1144	0	6	4343	-1124	-20	-14	4286	-1138	-6	0					
Swope	4339	-1156	4337	-1154	4333	-1155	-1	1	4355	-1136	-20	-18	4298	-1150	-6	-4					
Hushpuckney	4363	-1180	4361	-1178	4356	-1178	-2	0	4378	-1159	-21	-19	4323	-1175	-5	-3					
Base Kansas City	4386	-1203	4389	-1206	4377	-1199	-4	-7	4401	-1182	-21	-24	4357	-1209	6	3					
Marmaton	4420	-1237	4422	-1239	4417	-1239	2	0	4437	-1218	-19	-21	4390	-1242	5	3					
Pawnee	4518	-1335	4522	-1339	4513	-1335	0	-4	4532	-1313	-22	-26	4485	-1337	2	-2					
Myrick Station	4565	-1382	4563	-1380	4557	-1379	-3	-1	4569	-1350	-32	-30	4524	-1376	-6	-4					
Fort Scott	4580	-1397	4580	-1397	4574	-1396	-1	-1	4587	-1368	-29	-29	4543	-1395	-2	-2					
Cherokee	4611	-1428	4609	-1426	4607	-1429	129 1 3		4616	-1397	-31	-29	4572	-1424	-4	-2					
Johnson Zone	4654	-1471	4654	-1471	4650	-1472	1 1		4660	-1441	-30	-30	4619	-1471	0	0					
Mississippian	4724	-1541	4723	-1540	4741	-1563	22	23	4732	-1513	-28	-27	4696	-1548	7	8					
Total Depth	4780	-1597	4780	-1597	4774	-1596	-1	-1	4816	-1597	0	0	4734	-1586	-11	-11					

# BIT RECORD

Bit #	Size	Make	Туре	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	JZ	RR	RR	0'	267'	267'	2.5
2	7 7/8"	JZ	QX20	H08131	267'	2651'	2384'	34.5
3	7 7/8"	JZ	QX20	J24892	2651'	3849'	1198'	37.5
4	7 7/8"	JZ	QX20	H04143	3849'	4780'	931'	63.00

## **SURFACE CASING RECORD**

10.7.2011 Ran 6 joints of new 23#/ft 8 5/8" casing tallying 252', set @ 264' KB.

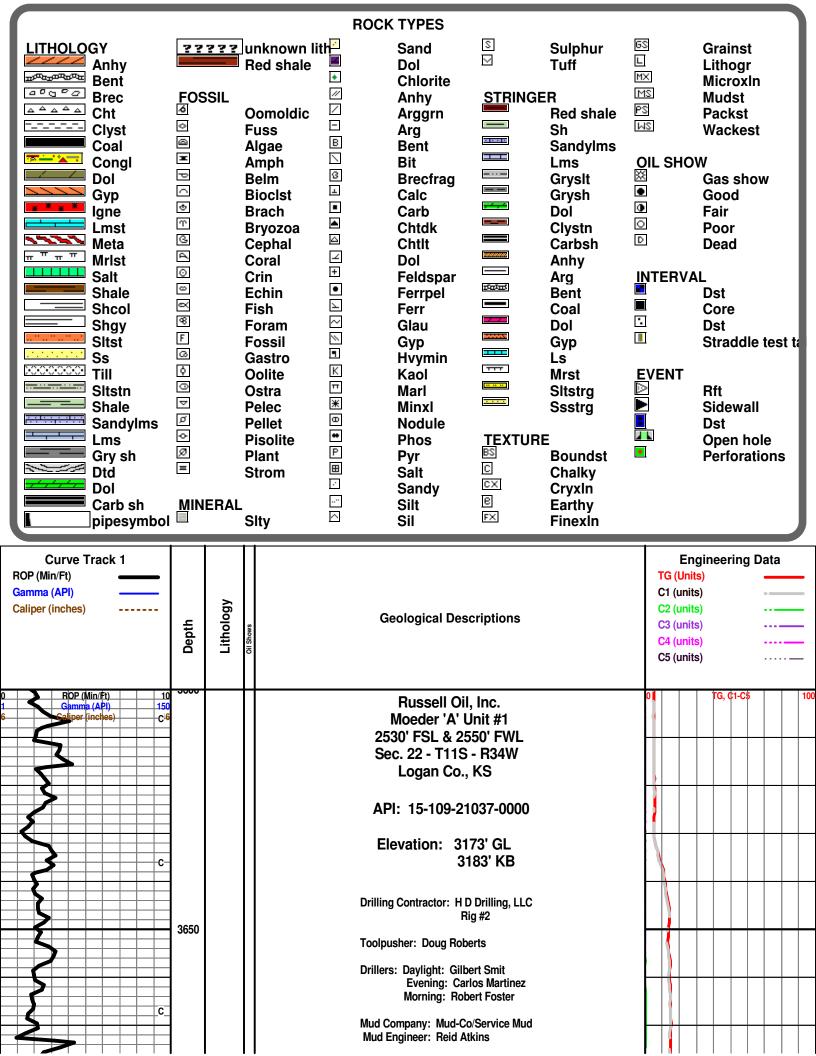
Plug down @ 0830 hrs, 10.7.11.

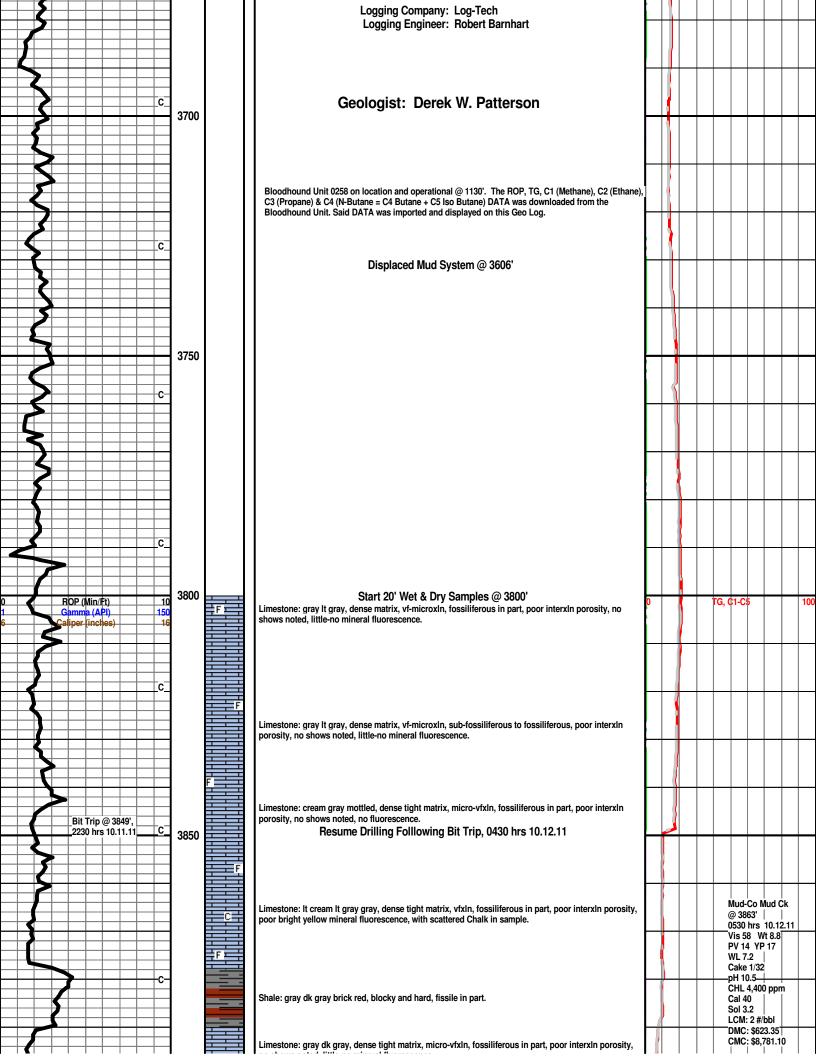
# **DEVIATION SURVEY RECORD**

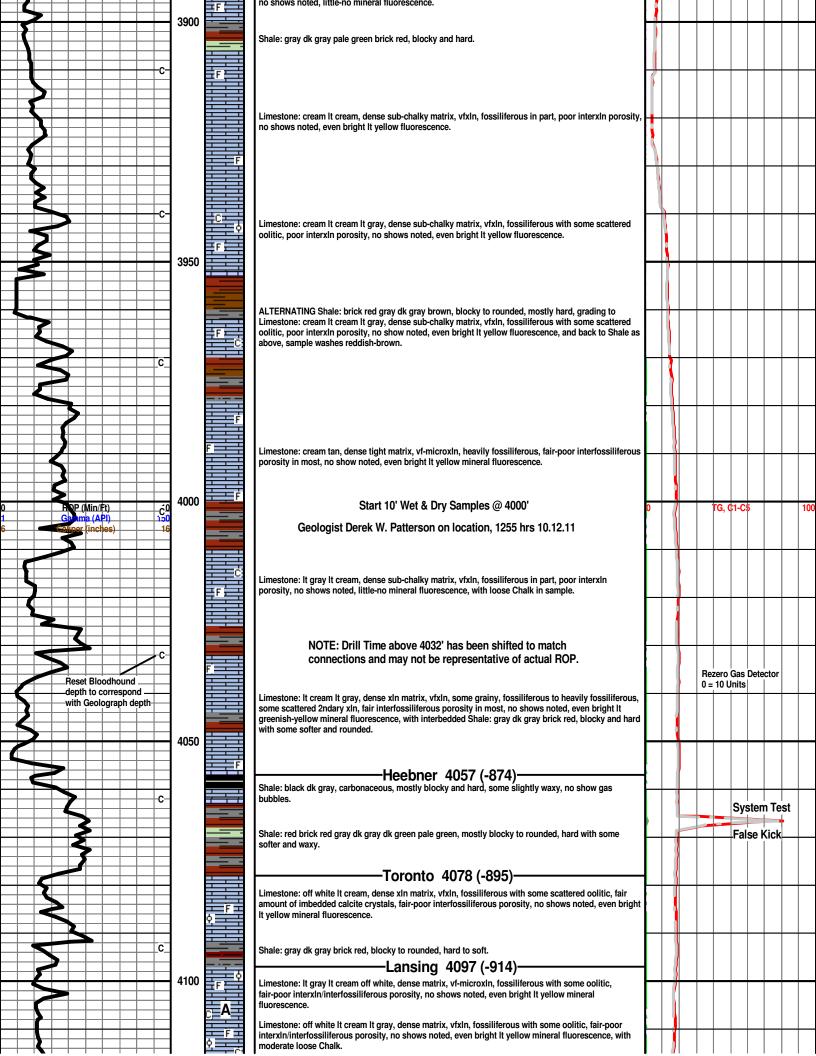
<u>Depth</u>	Survey
267'	1°
3849'	1/2°
4130'	1/2°
4780'	1 1/2°

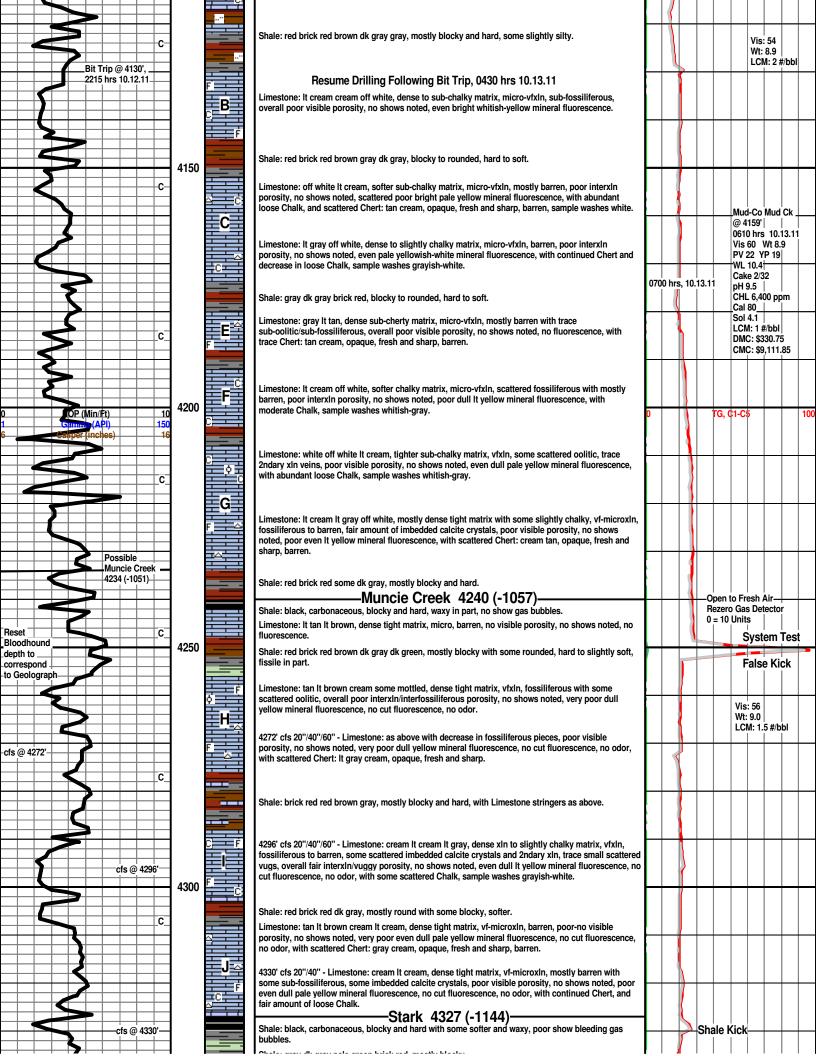
## PIPE STRAP RECORD

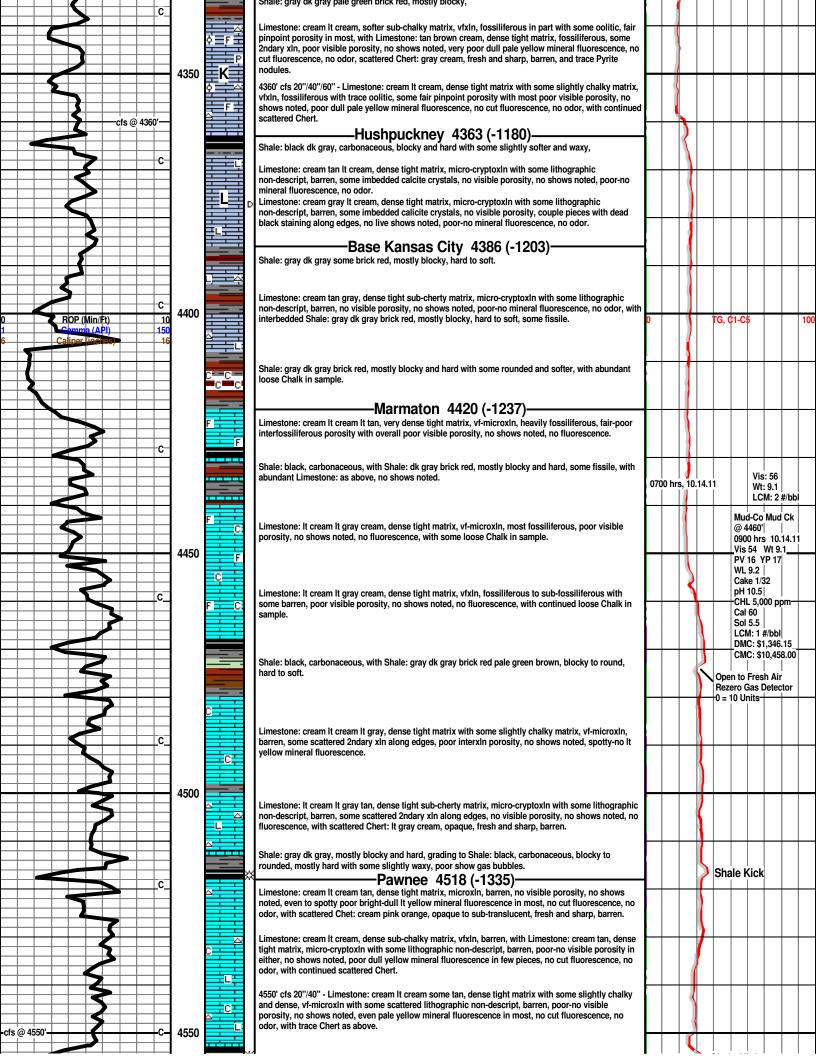
DepthPipe Strap3849'1.65' Short to Board











	$\pm$	1									Shale: black, carbonaceous, blocky and hard, very poor show gas bubbles, grading to Shale: gray dk gray brick red brown dk green, blocky and hard.				Sha	ale K	ick		
	+				>									1	+				+
	$\exists$			>							Myrick Station 4565 (-1382)  4576' cfs 0"/20"/40" - Limestone: brown cream tan, dense tight matrix, vfxln, fossiliferous to heavily	1		lack			Vis	: 56	
				)	$\pm$			$\exists$		F	fossilferous, poor visible porosity, no shows noted, no fluorescence, with Limestone: cream It cream, dense sub-chalky matrix, microxln, fossiliferous, overall poor visible porosity, no shows noted, even	$\vdash$	+		+	+	Wt:	9.1.↓ VI: 1 #/b	bl bl
	$\pm$				-	cfs @	4576			P C	bright pale yellow mineral fluorescence in most, no cut fluorescence, no odor, and scattered Chert.			/					
	1							-c-l			Shale: black, carbonaceous, blocky and hard, fair show gas bubbles.  Fort Scott 4580 (-1397)	Ш	4	<b>&gt;</b>	Sha	le Ki	ck_		4
	$\dashv$		_		≵			$\exists$			Limestone: cream It cream, dense sub-chalky matrix, vf-microxln, occasional fossil, poor interxln			1					
	$\dashv$	$\dashv$	$\dashv$	*	$\diamondsuit$			Ħ		<b>д</b>	porosity, no shows noted, little-no mineral fluorescence, no cut fluorescence, no odor.			\$					
	$\dashv$		$\dashv$	4	₹			$\exists$		o o	Limestone: tan brown, very dense tight matrix, micro-cryptoxln, heavily oolitic, no visible porosity, no shows noted, no fluorescence, no odor, with Chert: dk gray dk tan, translucent, fresh and sharp,		1						$\top$
	7	$\dashv$	$\dashv$		4			=			oolitic, no shows noted.  Limestone: cream It cream tan, dense tight matrix, micro-vfxln, oolitic to sub-oolitic, poor-no visible								
0	$\exists$		RC	P (Mi	n/E/			10	4600	• 0	porosity, no shows noted, little-no fluorescence, no odor, with Chert: gray smokey gray, fresh and sharp, oolitic to barren, some pyritic, no shows noted.	0		-	TG.	¢1-0	5		100
1 6	$\exists$		_Ga	mma oer (ii	(API)			150 16		_C	4610' cfs 20"/40"/60" - Limestone: as above, with Limestone: cream It cream, dense sub-chalky matrix, microxln, oolitic in part, poor-no visible porosity, no shows noted, even bright It yellow mineral		1		'				
cfs @	146	$\dashv$		Ň	5			<u>.</u>		<b>•</b>	fluorescence in most, no cut fluorescence, no odor, and Chert.	Ш							$\perp$
CIS	1		$\leq$					Ĭ			Cherokee 4611 (-1428) Shale: black, carbonaceous, blocky and hard, no show gas bubbles.	1		5					
$\Box$	$\downarrow$	$\dashv$	$\Rightarrow$	\$	+					<u> </u>	Limestone: tan brown gray, dense tight matrix, blocky, microxln, barren, poor-no visible porosity, no shows noted, no fluorescence, no odor, with interbedded Shale: black, carbonaceous, blocky and								
$\Rightarrow$	1	4		1	+			$\exists$			hard, no show gas bubbles, and scattered Chert: smokey gray, translucent, fresh and sharp, barren.	$\vdash$	+					+	+
$\Rightarrow$	$\downarrow$	$\dashv$	#	1							Limestone: tan cream It cream dense tight matrix mostly blooks microvin howen near visible			1					
$\Rightarrow$	+	_	+	₹	#	+					Limestone: tan cream It cream, dense tight matrix, mostly blocky, microxln, barren, poor visible porosity, no shows noted, little-no fluorescence, no odor, with continued scattered Chert.	$\vdash$	$\perp$	1		_		_	+
$\dashv$	$\dashv$	#	$\dashv$	$\blacktriangleleft$	1						Prodominataly Shale; black carbonassous with Shale; arey dir away brick and brown dir areas accepts.								
$\dashv$	$\mp$	#	$\dashv$	1	lacksquare			H			Predominately Shale: black, carbonaceous, with Shale: gray dk gray brick red brown dk green, nearly all blocky and hard, and interbedded Limestone as above.								
$\dashv$	$\dashv$	$\dashv$	-	⋖	$\uparrow$			_C_			Limestone: cream dk cream tan lt cream, dense tight matrix, micro-vfxln, barren, poor visible porosity,		$\top$	1	T				$\top$
	$\dashv$	$\dashv$	$\dashv$	3				=		<u> </u>	no shows noted, little-no fluorescence, no odor, with scattered Chert: smokey gray tan, translucent, fresh and sharp, barren.								
	-			-		≯			4650		Shale: gray dk gray pale green brick red, blocky and hard, some fissile.	$\vdash$	+	+	+	+			+
	$\exists$	$\exists$		4							Johnson Zone 4654 (-1471)	┨│					Wt:	9.3	
$\exists$	$\pm$			$\downarrow$	$\pm$						Limestone: cream tan It cream, dense tight matrix, microxln, barren, scattered 2ndary xln in few pieces, poor visible porosity, no shows noted, little-no mineral fluorescence, no cut fluorescence, no	0700 I	hrs,	10.15.	11		LCI	/I: 1 #/b	ıbl
	$\pm$		_	5	$\pm$						odor, with Chert: smokey gray, translucent, fresh and sharp, mostly barren.	l I		l					
	$\pm$		1	1				$\exists$		×	L			¥		M.,	4 Co	Mud C	
	_			3				_C_			Limestone: cream tan It cream dk tan, dense tight matrix, microxin, barren, scattered 2ndary xln in few pieces along edges, poor visible porosity, no shows noted, little-no mineral fluorescence, no cut		$^{+}$	1	$^{+}$	<u></u> ∏@.	4676'		
	$\dashv$			₹							fluorescence, no odor, with continued Chert.					Vis	62	10.15 Wt 9.2	.11
$\dashv$	7		1		+			$\exists$		c 🛆	4690' cfs 20"/40"/60" - Limestone: cream tan, dense tight sub-chalky in part matrix, micro-vfxln,	$\vdash$	+	-	+	-₩L	19 Y ⊢9.6	-	+
	$\dashv$	$\dashv$	$\dashv$	3				$\exists$			barren, poor visible porosity, no shows noted, scattered pieces with even bright pale yellow mineral fluorescence, no cut fluorescence, no odor, with Chert: gray smokey gray, translucent to opaque,			1		pН	ke 2/3 10.0		
	$\exists$	4	$\exists$	4	1	ofe @	4690				fresh and sharp, barren.					Ca	60	00 ppm	
	$\exists$	$\exists$		3		15 @	4090	$\exists$		<b>▲</b> C	Limestone and Chert as above, no shows noted.						l 5.8∏ M: 1 #		
	$\pm$	$\exists$			$\pm$			$\exists$						1				,523.00 1,981.0	
$\vdash$	+	4	5	$\neq$		+		C_	4700			$\vdash$	+	+	+	+	H		+
	$\downarrow$	#			3			$\exists$			Shale: green pale green teal yellow red dk gray some purple, mostly blocky and hard, some slightly softer and waxy.			L		Sy	stem	Test	
$\Rightarrow$	+	4	1	7	+						Solici and Waxy.	$\vdash$	$\perp$		F	Fol	se K	ick	4
$\Rightarrow$	$\mp$	4	7	#	+	+		$\Box$			Chala as above anadimus to Condator and the condator and					ı a		.ion	
$\dashv$	$\mp$				+	+	H	$\Box$			Shale: as above grading to Sandstone: clear quartz grains in white-It gray calcareous matrix, mostly fgrained, fairly sorted and rounded, poorly cemented to friable, fair intergranular porosity in most, no								
		5		7	$\blacksquare$	F				<u> </u>	shows noted, no fluorescence, no cut fluorescence, no odor.								T
cfs @	172	27'				5				c .	Mississippian 4724 (-1541)  Limestone: cream It cream off white, dense sub-chalky matrix, microxln, barren, poor-no visible			1					
	$\downarrow$	$\exists$		$\pm$	5	$\angle$					porosity, no shows noted, no fluorescence, with Limestone: tan It brown, dense tight matrix, lithographic non-descript, no visible porosity, no shows noted, no fluorescence, no odor in sample.	$\vdash$	+	1	+	+	H	+	+
$\exists$	$\downarrow$	$\dashv$	$\Rightarrow$	$\pm$	1			Ĭ			o , a second sec								
$\Rightarrow$	+	4	$\dashv$	$\pm$	#					· 📫 ¢		$\coprod$	_						$\perp$
	$\downarrow$	$\dashv$	#	+	$\ddagger$			$\exists$			Limestone: mixed as above, with Limestone: It cream off white, softer chalky matrix, arenaceous to heavily arenaceous, fair intergranular/interxln porosity in most, no shows noted, no fluorescence, no								
$\Rightarrow$	$\downarrow$	$\dashv$	+	+	1						odor in sample, and loose Chalk.								
$\Box$	+			7	7	+		Ħ	4750	C		$\sqcap$	$\dagger$						$\top$
$\dashv$	$\dashv$		7	$\mp$	+			H			Limostonos organit organi off subito postos shallos metalos microsula harresa accessidade								
$\dashv$	$\dashv$	_	7	J				Ħ			Limestone: cream It cream off white, softer chalky matrix, microxln, barren, poor visible porosity, no shows noted, no fluorescence, with continued mixed Limestone as above, no odor in sample, and	$\vdash$	+	4	+	+			+
	$\dashv$	$\exists$	$\dashv$	3				_C_		Ċ	loose Chalk.								
	$\exists$		$\exists$	<	$\perp$	F	F												
$\top$	$\exists$	$\exists$	$\exists$	-		F	-	$\Box$			Limestone: It cream off white It tan, dense tighter matrix, micro-cryptoxln, barren, poor-no visible porosity. no shows noted. no fluorescence. no odor. with overall decrease in loose Chalk.						Via	. 50	

									C	, , , , , , , , , , , , , , , , , , , ,						Wt:	bbl
-Sho						6.11				RTD 4780 (-1597) LTD 4780 (-1597)							
								400		Rotary TD @ 4780', 2020 hrs 10.15.11 Log-Tech Open Hole Logging TD @ 4780' Commence Open Hole Logging Operations, 0330 hrs 10.16.11							
0 1 6		G	amm	Min/F a (AF (inch	PÍ)		15 15	480 6		Complete Open Hole Logging Operations, 0745 hrs 10.16.11 Orders Received to Plug & Abandon Well Geologist Derek W. Patterson off location, 0830 hrs 10.16.11	0		1	rg, c	:1-C	5	100
										Respectfully Submitted, Derek W. Patterson							