

~~CONFIDENTIAL~~

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

11/25/11

Form ACO-1
October 2008
Form Must Be Typed

ORIGINAL

OPERATOR: License # 3842
Name: LARSON ENGINEERING, INC.
Address 1: 562 WEST STATE ROAD 4
Address 2: _____
City: OLMITZ State: KS Zip: 67564 + 8561
Contact Person: TOM LARSON
Phone: (620) 653-7368
CONTRACTOR: License # 33935
Name: H. D. DRILLING, LLC
Wellsite Geologist: ROBERT LEWELLYN
Purchaser: NCRA ~~CONFIDENTIAL~~
Designate Type of Completion: NOV 25 2009
 New Well Re-Entry Workover
 Oil SWD SLOW KCC
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 Dry Other _____
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____
7/30/2009 8/10/2009 8/25/2009
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 101-22182-00-00
Spot Description: _____
SE - NW - NW - SW Sec. 29 Twp. 19 S. R. 29 East West
2100 feet from SOUTH Line of Section
530 feet from WEST Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: LANE
Lease Name: JOHNSON FARMS Well #: 1-29
Field Name: WILDCAT
Producing Formation: CHEROKEE, MARMATON
Elevation: Ground: 2869' Kelly Bushing: 2879'
Total Depth: 4739' Plug Back Total Depth: 4698'
Amount of Surface Pipe Set and Cemented at: 264 Feet
Multiple State Cementing Collar Used? Yes No
If yes, show depth set: 2185 Feet
If Alternate II completion, cement circulated from: 2185
feet depth to: SURFACE w/ 170 sx cmt.

Drilling Fluid Management Plan Att 4 N3 12809
(Data must be collected from the Reserve Pit)
Chloride content: 9800 ppm Fluid volume: 480 bbls
Dewatering method used: ALLOWED TO DRY
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Carol Paen
Title: SECRETARY/TREASURER Date: 11/25/2009
Subscribed and sworn to before me this 25TH day of NOVEMBER,
2009.
Notary Public: Debra J Ludwig
Date Commission Expires: MAY 5, 2012

KCC Office Use ONLY
 Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
RECEIVED
NOV 30 2009

DEBRA J. LUDWIG
Notary Public - State of Kansas
My Appt. Expires 5/5/2012

KCC WICHITA

Side Two

Operator Name: LARSON ENGINEERING, INC. Lease Name: JOHNSON FARMS Well #: 1-29

Sec. 29 Twp. 19 S. R. 29 East West County: LANE

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copes of drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geologist well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: DUAL INDUCTION DUAL COMP POROSITY MICRORESISTIVITY	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>ANHYDRITE</td> <td>2155</td> <td>+724</td> </tr> <tr> <td>BASE ANHYDRITE</td> <td>2213</td> <td>+666</td> </tr> <tr> <td>HEEBNER SH</td> <td>3966</td> <td>-1087</td> </tr> <tr> <td>LANSING-KC GROUP</td> <td>4013</td> <td>-1134</td> </tr> <tr> <td>STARK SH</td> <td>4297</td> <td>-1418</td> </tr> <tr> <td>BASE K-C</td> <td>4378</td> <td>-1499</td> </tr> <tr> <td>ALAMONT</td> <td>4434</td> <td>-1555</td> </tr> <tr> <td>PAWNEE</td> <td>4498</td> <td>-1619</td> </tr> <tr> <td>FORT SCOTT</td> <td>4541</td> <td>-1662</td> </tr> <tr> <td>CHEROKEE</td> <td>4564</td> <td>-1685</td> </tr> <tr> <td>MISSISSIPPI</td> <td>4643</td> <td>-1764</td> </tr> </table> <p style="text-align: right; margin-top: 10px;">NGV 3 5 2009</p>	Name	Top	Datum	ANHYDRITE	2155	+724	BASE ANHYDRITE	2213	+666	HEEBNER SH	3966	-1087	LANSING-KC GROUP	4013	-1134	STARK SH	4297	-1418	BASE K-C	4378	-1499	ALAMONT	4434	-1555	PAWNEE	4498	-1619	FORT SCOTT	4541	-1662	CHEROKEE	4564	-1685	MISSISSIPPI	4643	-1764
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CHEROKEE	4564	-1685																																			
MISSISSIPPI	4643	-1764																																			

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set - conductor, surface, intermediate, production, etc.							
Purpose of string	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12-1/4"	8-5/8"	20#	264'	CLASS A	170	2% GEL, 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5#	4743'	SMD	125	1/4#/SK FLOCELE
					EA-2	100	7#/SK GILSONITE & 1/2% CFR1

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	SURF	2185'	SMD	215	1/4#/SK FLOCELE

Shots per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid. Fracture, Shot, Cement, Squeeze Record (Amount and Kind of Material Used)	
			Depth	
4	4617.5-19.5		250 GAL 15% MCA 4617.5-19.5	
4	4545-47		250 GAL 15% MCA 4545-47	
4	4504-06		500GAL 15% NE W/1 GAL AS-1, 1 GAL AS-2, 10 GAL MUSOL 4545-47	
4	4455-59		250 GAL 15% MCA 4504-06	
			250 GAL 15% MCA 4504-06, 4455-59	

TUBING RECORD:	Size: 2-3/8"	Set At: 4695'	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 8/25/09		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls. 40	Gas Mcf 0	Water Bbls. 0	Gas-Oil Ratio Gravity 37

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>If vented, submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input checked="" type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	PRODUCTION INTERVAL: 4455-4619.5 <div style="text-align: center; border: 1px solid black; padding: 5px; font-weight: bold;">RECEIVED</div>
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

NOV 30 2009

KCC WICHITA

ALLIED CEMENTING CO., LLC. 036265

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67663

SERVICE POINT:
Ness City KS

DATE <u>7-30-09</u>	SEC. <u>29</u>	TWP. <u>19</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 pm</u>	JOB FINISH <u>12:00 AM</u>
LEASE <u>Johnson</u>		WELL # <u>1-29</u>	LOCATION <u>Dighton W. to Gage rd 7425</u>		COUNTY <u>Lane</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>E/into</u>				

CONTRACTOR HD #2 OWNER Larson

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>267'</u>
CASING SIZE <u>8 5/8</u>	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH
TOOL	DEPTH
PRES. MAX <u>2000</u>	MINIMUM
MEAS. LINE	SHOE JOINT <u>15'</u>
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>16.05</u>	

CEMENT
AMOUNT ORDERED 175 sk Common
3% CC 2% GCL

COMMON <u>175</u>	@ <u>13.50</u>	<u>2362.50</u>
POZMIX	@	
GEL <u>3</u>	@ <u>20.25</u>	<u>60.75</u>
CHLORIDE <u>6</u>	@ <u>51.50</u>	<u>309.00</u>
ASC	@	

EQUIPMENT

PUMP TRUCK CEMENTER Randy Pray
409 HELPER Graig

BULK TRUCK
378 DRIVER Johnny

BULK TRUCK
DRIVER

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NOV 30 2009
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HANDLING <u>184</u>	@ <u>2.25</u>	<u>414.00</u>
MILEAGE <u>184/40/10</u>		<u>736.00</u>
		TOTAL <u>3882.25</u>

REMARKS:

on location Safety Meeting Rig up
Pipe on bottom
Break Circulation with rig
Mixed 125 sk Cement
Displaced with Fresh water 16.05 bbl
Cement did circulate
Rig down

CHARGE TO: Larson

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>267'</u>		
PUMP TRUCK CHARGE		<u>991.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>40</u>	@ <u>7.00</u>	<u>280.00</u>
MANIFOLD	@	
	@	
	@	
		TOTAL <u>1271.00</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
		TOTAL _____

Thank You!

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Doug Roberts

SIGNATURE X Doug Roberts

SALES TAX (If Any) _____

TOTAL CHARGES 5,153.25

DISCOUNT _____ IF PAID IN 30 DAYS



CHARGE TO:
LARSON EDGWEEDING
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET
 No 16565

PAGE 1 OF 2

SERVICE LOCATIONS 1. Ness City, KS	WELL/PROJECT NO. 1-29	LEASE JOHNSON FARMS	COUNTY/PARISH LANE	STATE KS	CITY	DATE 8-10-09	OWNER SAME
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR H-D DRIG #2	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO LOCATION	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE 5 1/2" LONGSTRENG	WELL PERMIT NO.	WELL LOCATION DIBHON, 1/4 - SW, 7S, ES		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	
575		1			MILEAGE #114	45	MI	5.00		225.00
578		1			PUMP CHARGE	1	JOB	1400.00		1400.00
221		1			LIQUID KCL	2	GAL	25.00		50.00
281		1			MUDFLUSH	500	GAL	1.00		500.00
419		1			ROTATING HEAD RENTAL	1	JOB	150.00		150.00

NOV 25 2009

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 NOV 30 2009
 KCC WICHITA

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x J.C. Larson
 DATE SIGNED **8-10-09** TIME SIGNED **2030**
 A.M. P.M.

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL #1	2325.00
#2	4576.74
subtotal	6901.74
TAX lane 5.3%	233.68
TOTAL	7135.42

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Wayne Wilson APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 8-10-09 PAGE NO. 1

CUSTOMER ARSON ENGINEERING WELL NO. 1-29 LEASE JOHNSON FARMS JOB TYPE 5 1/2" LONGSTRENGTH TICKET NO. 16565

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2030							ON LOCATION
								TD - 4744 SET = 4743
								TP - 4746 5 1/2" # 15.5
								ST - 41.61
								PORT COLLAR = 2187'
	2110							DROP BALL - CIRCULATE ROTATE
	2225	6	12		✓		500	PUMP 500 GAL MUD FLUSH "
	2227	6	20		✓		500	PUMP 20 BBLs KCL-FLUSH: " "
	2234		7					PLUG RH (30SKS) NOV 25 2009
	2237	4 1/2	40		✓		300	MAX CEMENT W - 95 SKS SMD = 12.2 PP6 "
		4 1/2	26		✓		150	TZ - 100 SKS EA-2 = 15.3 PP6 "
	2253							WASH OUT PUMP LINES
	2254							RELEASE LATCH DOWN PLUG
	2255	7	0		✓			DISPLACE PLUG "
		7	102				750	SHUT OFF ROTATING
	2310	6 1/2	112				1500	PLUG DOWN - PSE UP LATCH ZAPPED
	2312						OK	RELEASE PSE - HELD
								WASH TRUCK
	2400							JOB COMPLETE

THANK YOU
WAYNE, BRETT, DAVE K.

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CHARGE TO: Larson Engineering
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 No 16976

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Ness City KS WELL/PROJECT NO. 1-29 LEASE Johnson Farms Lane COUNTY/PARISH KS CITY Ness City DATE 8-13-09 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR Wild West Well Service RIG NAME/NO. 2 SHIPPED VIA DELIVERED TO Dighton ORDER NO.
 3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement Port Collar WELL PERMIT NO. WELL LOCATION Dighton Ks 5 W, 75, E into
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		U/M	U/M			
575		1			MILEAGE Trk # 114	45	mi		5.00	225.00
576D		1			Pump Charge Port Collar	1	ea	2187	1100.00	1100.00
581		1			Service Charge Cement	250	sk		1.50	375.00
583		1			Drayage	561.6	TM		1.00	561.60
330		1			Swift Multi-Density Standard	215	sk		14.00	3010.00
276		1			Flocele	60	lbs		1.50	90.00
290		1			D-Air	1	gal		35.00	35.00

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 NOV 3 8 2009
 KCC VICTORIA

NOV 25 2009

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 X J.C. Larson
 DATE SIGNED 8-13-09 TIME SIGNED 1100 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	5396.60
				Lanc TAX 5.3%	166.16
				TOTAL	5562.76

JOB LOG

SWIFT Services, Inc.

DATE 8-13-09 PAGE NO. 1

CUSTOMER Larson Engineering WELL NO. 1-29 LEASE Johnson Farms JOB TYPE Cement Port Collar TICKET NO. 16976

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								2 3/8 x 5 1/2 P.C. @ 2,184'
	1100							On Location - Rig up
	1150				✓		1000	Pressure Test - Held
		3 1/2	20		✓		300	Open Tool - Good Blow Injection Rate
	1205	3 1/2			✓		300	Start Cement 11.2 ppg
		4 1/4	20		✓		200	Circulation
		4 1/4	110		✓		450	Cement to Surface
								215 sks Total 15 sks top it
		4 1/4	10		✓		450	Heavy up Cement 14.0 ppg
		4 1/4			✓		450	Displace Cement
			7.5		✓		200	Shut Down - Close Tool
	1240				✓		1000	Pressure Test - Held Tool Shut
	1245							Run 4 joints
		3	20		✓		350	Reverse Clean Pull tubing
	1300							Wash Truck
	1330							Job Complete
								Than you Brett, Dave, Rob

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NOV 26 2009

Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 375
Kechi, KS 67067-0609
Office 316-744-2567
Cell 316-518-0495
boblwellyn@yahoo.com

GEOLOGICAL REPORT

Larson Engineering, Inc.
K. L. Johnson Farms No. 1-29
2100 FSL & 530 FWL Sec. 29-18S-29W
Lane County, Kansas

*KLW
10/27/09*

CONTRACTOR: H D Drilling, LLC
SPUDED: July 30, 2009
DRILLING COMPLETED: ~~CONFIDENTIAL~~ August 10, 2009
SURFACE CASING: NOV 25 2009 8 5/8" @ 264 KBM/170 sx,
ELECTRIC LOGS: KCC Log-Tech DIL CNL/CDL MEL
ELEVATIONS: 2879 KB 2869 GL

FORMATION TOPS (Electric Log):

Anhydrite	2155 (+ 724)
Base Anhydrite	2213 (+ 666)
Heebner Shale	3966 (-1087)
Lansing-Kansas City Group	4013 (-1134)
Muncie Creek Shale	4188 (-1309)
Stark Shale	4297 (-1418)
Hushpuckney shale	4335 (-1456)
Base Kansas City	4378 (-1499)
Altamont	4434 (-1555)
Pawnee	4498 (-1619)
Myrick Station	4518 (-1639)
Fort Scott	4541 (-1662)
Cherokee	4564 (-1685)
Mississippian	4643 (-1764)
Spergen Dolomite	4685 (-1806)
Electric Log Total Depth	4739 (-1860)

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NOV 30 2009

KCC WICHITA
KCC WICHITA

Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 375
Kechi, KS 67067-0609
Office 316-744-2567
Cell 316-518-0495
boblewellyn@yahoo.com

GEOLOGICAL REPORT

Larson Engineering, Inc.

~~K. L. Johnson Farms No. 1-29~~
2100 FSL & 530 FWL Sec. 29-18S-29W
Lane County, Kansas

Handwritten:
KCC
10/10/09

CONTRACTOR: H D Drilling, LLC
SPUDDED: July 30, 2009
DRILLING COMPLETED: ~~CONFIDENTIAL~~ August 10, 2009
SURFACE CASING: NOV 25 2009 8 5/8" @ 264 KBM/170 sx,
ELECTRIC LOGS: KCC Log-Tech DIL CNL/CDL MEL
ELEVATIONS: 2879 KB 2869 GL
FORMATION TOPS (Electric Log):

Anhydrite	2155 (+ 724)
Base Anhydrite	2213 (+ 666)
Heebner Shale	3966 (-1087)
Lansing-Kansas City Group	4013 (-1134)
Muncie Creek Shale	4188 (-1309)
Stark Shale	4297 (-1418)
Hushpuckney shale	4335 (-1456)
Base Kansas City	4378 (-1499)
Altamont	4434 (-1555)
Pawnee	4498 (-1619)
Myrick Station	4518 (-1639)
Fort Scott	4541 (-1662)
Cherokee	4564 (-1685)
Mississippian	4643 (-1764)
Spergen Dolomite	4685 (-1806)
Electric Log Total Depth	4739 (-1860)

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NOV 30 2009

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Samples were examined microscopically from 3800 to Rotary Total Depth. Samples were examined wet and dry and samples from potentially productive zones were viewed under a fluoroscope and checked for oil cut. Following is a description of zones of interest, Drill Stem Tests, etc. For a complete lithologic description of all formations, refer to the sample log in the back pages of this report.

Lansing-Kansas City Zones:

4013-4018 (A Zone)

Limestone, buff and cream, dense and chalky, some scattered finely crystalline, slightly fossiliferous, zone is mostly tight with no show of oil. Trace of gray, opaque, fresh chert.

4055-4062 (B Zone)

Limestone, buff, dense to finely crystalline and chalky, slightly fossiliferous, some scattered oolitic, poor scattered intercrystalline and interoolitic porosity, no show of oil.

4069-4096 (C/D Zone)

Limestone, buff, dense, considerable cream chalky with scattered finely crystalline, zone is mostly tight with no shows of oil. Trace of chert, light gray, opaque, fresh.

4098-4106 (E Zone)

Limestone, buff to tan, dense to finely crystalline and chalky, zone is mostly tight with no shows of oil.

4108-4123 (F Zone)

Limestone, buff, finely crystalline, oolitic in part, trace of very poor intercrystalline and interoolitic porosity, questionable faint fleeting odor, trace of dead oil stain, no live stain, no free oil, no fluorescence, no cut.

4132-4136 (G Zone)

Limestone, buff, some tan, finely crystalline, slightly fossiliferous, and partly chalky, partly oolitic, poor scattered oolitic porosity, no show of oil, some scattered white chert. Lower section contains much chalk.

4204-4208 (H Zone)

Limestone, buff, some tan, finely crystalline, slightly fossiliferous, poor to fair intercrystalline porosity, trace of interfossil porosity, poor to fair spotted stain, slight show of free oil, faint odor, poor to fair fluorescence, fair cut.

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Drill Stem Test No. 1

4178-4216

15-30-30-60; built to one-inch blow on first flow, no blowback, built to 1 ½ inch blow on second flow, no blowback. Recovered 30 feet of oil spotted mud and 60 feet of mud. ISIP 956# FSIP 897# IFP 20-33# FFP 35-58# IHP 2113# FHP 2098# BHT 117 degrees.

4240-4265 (I Zone)

Limestone, buff, dense to finely crystalline, trace of buff dense, brittle, some poor edge porosity with dead stain, some finely crystalline with very poor intercrystalline porosity, no show of live oil in this interval. Trace of tan chert with oolite inclusions.

4272-4281 (J Zone)

Limestone, buff, finely crystalline and fine to medium oolitic, scattered fair oolitic porosity, scattered poor to fair spotted stain, slight show of free oil, faint to fair odor, poor fluorescence, fair cut, porosity 60-70% barren.

Drill Stem Test No. 2

4262-4281

15-30-45-90; built to three-inch blow on first flow, no blowback, built to nine-inch blow on second flow, no blowback. Recovered 80 feet of muddy water (50% water, 50% mud), 124 feet of muddy water (70% water, 30% mud). ISIP 1132# FSIP 1133# IFP 22-62# FFP 64-112# IHP 2173# FHP 2156# BHT 124 degrees.

4312-4316 (K Zone)

Limestone, buff to tan, finely crystalline and slightly fossiliferous, scattered fair intercrystalline porosity, no show of oil.

4337-4342 (Middle Creek Zone)

Limestone, buff to tan, dense to finely crystalline, slightly fossiliferous, scattered poor to fair intercrystalline porosity, few pieces with poor to fair spotted stain, very slight show of free oil, faint odor, poor fluorescence, poor to fair cut.

4345-4352 (L Zone)

Limestone, tan to brown, some gray, finely crystalline, some scattered oolitic, poor to fair intercrystalline and interoolitic porosity, poor to fair light spotted stain, slight show of free oil, faint odor, poor fluorescence, fair cut. Rare traces of calcite crystal overgrowth in one or two pieces, scarce scattered fine calcite rhombic crystals in tray.

Drill Stem Test No. 3

4328-4352

15-30-30-60; built to seven-inch blow on first flow, no blowback, built to bottom of bucket in 27 minutes on second flow, no blowback. Recovered 112 feet of muddy water

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(55% water, 45% mud), 188 feet of muddy water (85% water, 15% mud). ISIP 1131# FSIP 1125# IFP 18-89# FFP 91-153# IHP 2192# FHP 2141# BHT 127 degrees.

4378-4424 (Pleasanton Zone)

This section consisted of limestone, tan to brown, dense to finely crystalline, amorphous in part. Zone is mostly tight with a scattering of dead stain, but no shows of live oil.

4434-4436 & 4453-4457 (Altamont Zone)

Limestone, buff, some tan, dense to finely crystalline, partly fossiliferous, fair intercrystalline porosity with scattered poor vugular porosity, poor to fair spotted stain, fair show of free oil, faint odor, poor to fair fluorescence, fair cut.

Drill Stem Test No. 4 4410-4487

15-30-30-60; blew off bottom of bucket in three minutes on first flow, nine-inch blowback, blow built to bottom of bucket in six minutes on second flow, blowback off bottom of bucket in 17 minutes. Recovered 254 feet of gassy mud cut oil (47% gas, 35% oil, 18% mud), 248 feet of gassy mud cut oil (40% gas, 50% oil, 10% mud), 124 feet of gassy mud cut oil (60% gas, 30% oil, 10% mud), 124 feet of gassy mud cut oil (30% gas, 55% oil, 15% mud). ISIP 699# FSIP 666# IFP 72-161# FFP 180-273 IHP 2272# FHP 2231# BHT 125 degrees.

4503-4506 (Pawnee Zone)

Limestone, tan to brown, dense to finely crystalline, slightly fossiliferous, poor to fair intercrystalline porosity, poor to fair spotted stain, fair show of free oil, faint odor, fair fluorescence, fair cut.

4518-4535 (Myrick Station Zone)

Limestone, cream to buff, some tan, some brown, dense to finely crystalline, scattered fair intercrystalline porosity, scattered light spotted stain, slight show of free oil, faint to fair odor, fair fluorescence, fair cut.

4541-4564 (Fort Scott Zone)

Limestone, tan to brown, dense to finely crystalline and oolitic, fair interoolitic porosity, poor to fair spotted stain, trace of saturated stain, good show of free oil, fair odor, fair fluorescence, good cut.

4620-4623, 4626-4629, & 4632-4636 (Johnson Zone)

Limestone, tan to brown, dense to finely crystalline and slightly oolitic, poor to fair intercrystalline porosity, some poor interoolitic porosity, scattered poor to fair spotted stain, slight show of free oil, faint odor, poor fluorescence, fair cut.

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Drill Stem test No. 5 4497-4620
Packers failed to open

Drill Stem test No. 6 4479-4620
Packers failed to open

4643-4685 (Mississippian Zone)

Limestone, buff to tan, dense to finely crystalline, partly soft and chalky, brittle in part, section is mostly tight. Upper two or three feet contains traces of black tarry to dead oil in tight limestone fragments. Section warrants no further testing.

4685-4738 (Spergen Dolomite Zone)

Dolomite, tan, some brown, medium crystalline, poor to fair intercrystalline porosity, trace of dead oil stain, no show of live oil.

4740 Rotary Total Depth

Conclusions and recommendations:

Casing was cemented in the Johnson Farms No. 1-29. Shows and electric log indications in the Johnson zone, Pawnee, and Altamont appear to merit production testing as per Tom Larson.

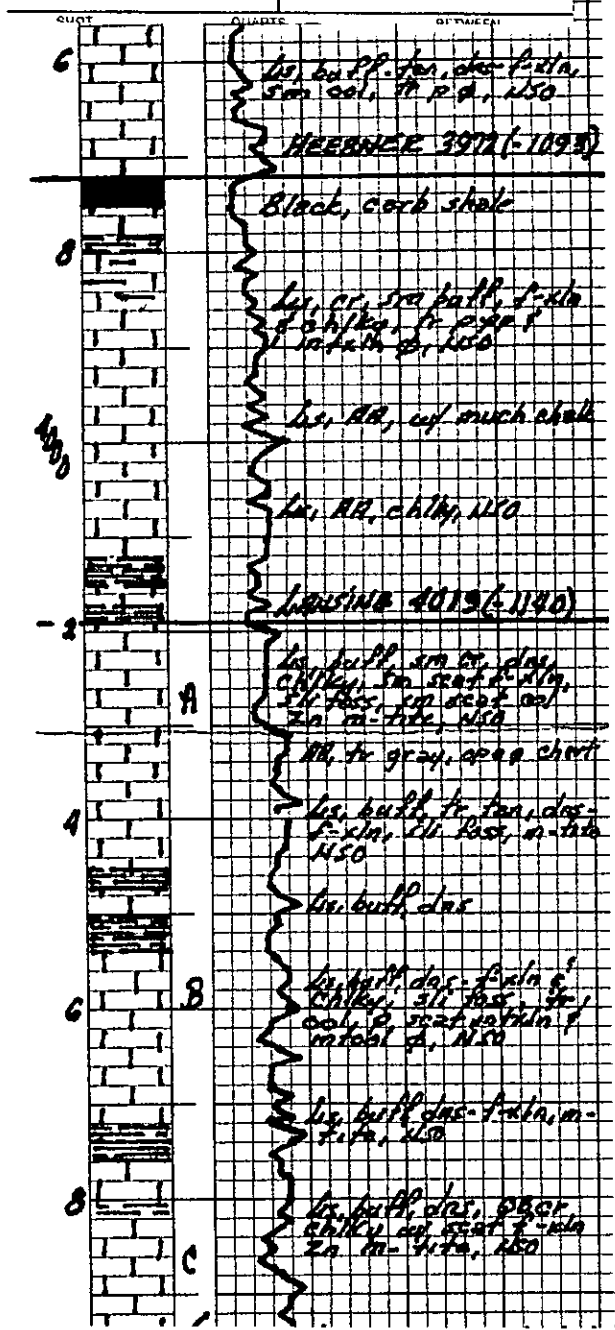
Respectfully submitted,

Robert C. Lewellyn
Petroleum Geologist

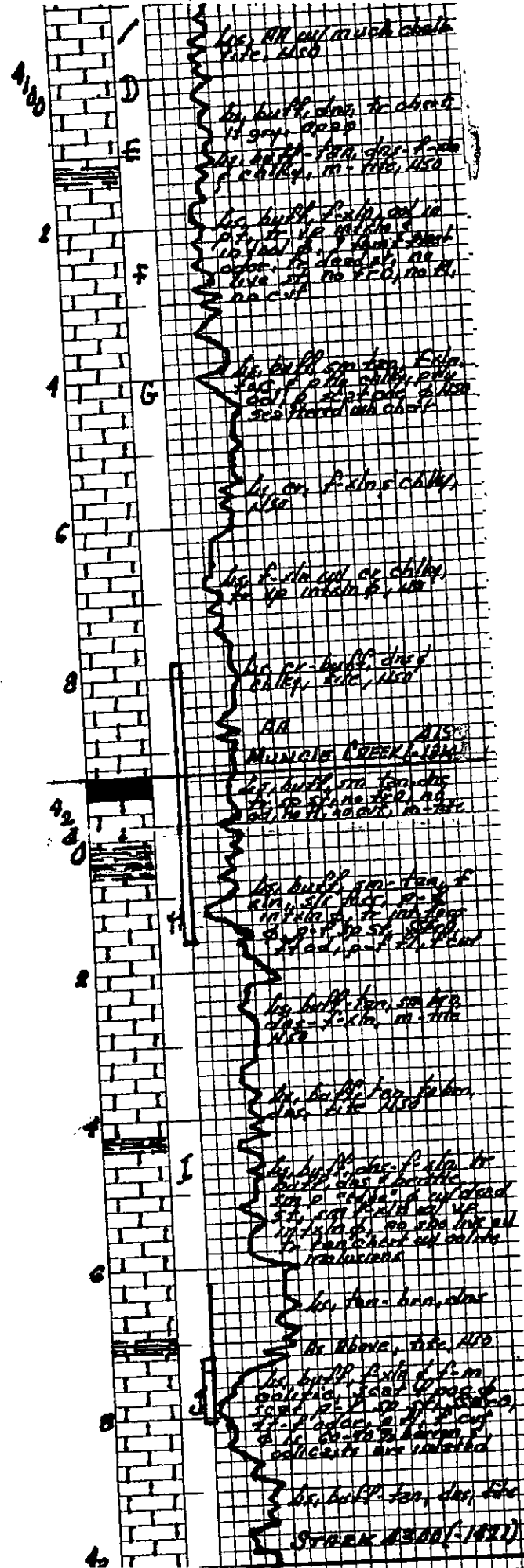
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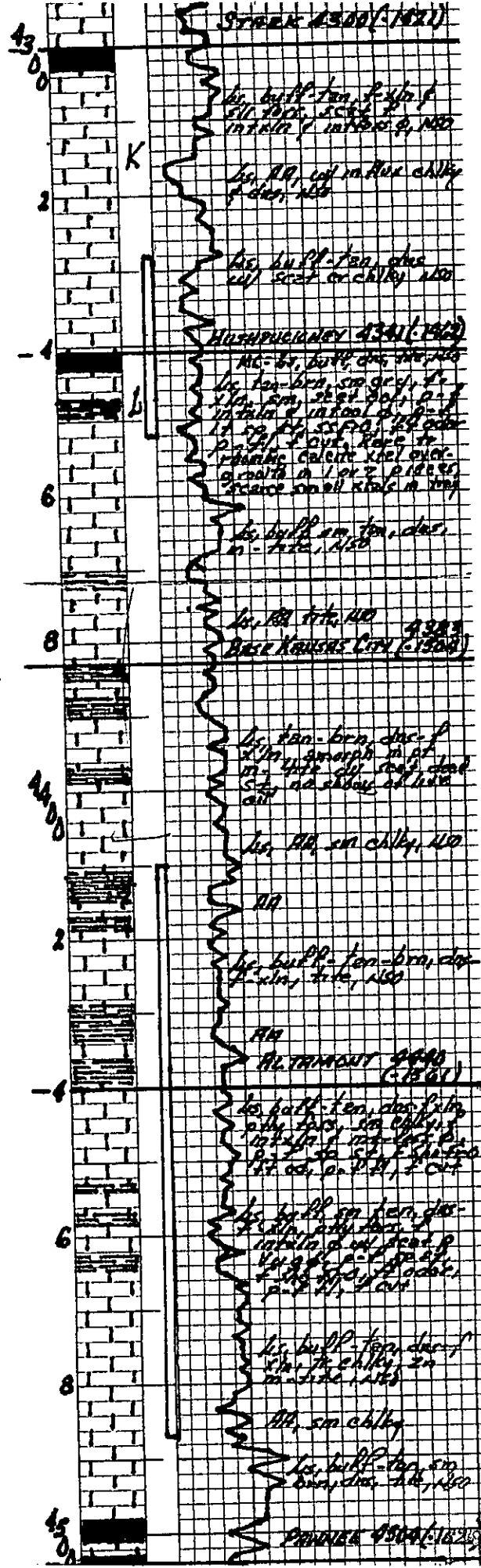
STATE KANSAS	COMPANY LARSON ENGINEERING Inc.
COUNTY BRNE	FARM K.L. Johnson farms 1-29
BLOCK	SURVEY 2100 FSL & 530 FWL
SEC. 29	
T 19S	R 29W
TOTAL DEPTH 4640	
CONTRACTOR H. D. Drilling, L.L.C.	
COMMENCED 7-30-09	
COMPLETED 8-10-09	
REMARKS	
ALTITUDE 2879 KB	
PRODUCTION Oil	Robert C. Lynam, Geol
CASING RECORD 8 5/8" @ 264 KBM / 170 SX	



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