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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

12/18/09
Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 3842

Name: LARSON ENGINEERING, INC.

Address: 562 WEST STATE ROAD 4

City/State/Zip: OLMITZ, KS 67564-8561

Purchaser: NCRA

Operator Contact Person: TOM LARSON

Phone: (620) 653-7368

Contractor: Name: H. D. DRILLING, LLC

License: 33935

Wellsite Geologist: ROBERT LEWELLYN

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil SWD SLOW Temp Abd.
- Gas ENHR SIGW
- 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. _____

<u>8/22/2007</u>	<u>9/4/2007</u>	<u>10/3/2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 101-22037-00-00

County: LANE

AP SW NE NW SW Sec. 21 Twp. 18 S. R. 30 East West

2100 feet from SOUTH Line of Section

860 feet from WEST Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW

Lease Name: STEELE Well #: 1-21

Field Name: WILDCAT

Producing Formation: MARMATON, CHEROKEE

Elevation: Ground: 2888' Kelly Bushing: 2893'

Total Depth: 4640' Plug Back Total Depth: 4592'

Amount of Surface Pipe Set and Cemented at 257 Feet

Multiple State Cementing Collar Used? Yes No

If yes, show depth set 2177 Feet

If Alternate II completion, cement circulated from 2177

feet depth to SURFACE w/ 175 sx cmt.

Drilling Fluid Management Plan AP 11531709
(Data must be collected from the Reserve Pit)

Chloride content 15000 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 South 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 Ka

Title: SECRETARY/TREASURER Date: 12/18/07

Subscribed and sworn to before me this 18TH day of December

2007.

Notary Public: Debra J Ludwig

Date Commission Expires: MAY 5, 2008

DEBRA J. LUDWIG
Notary Public - State of Kansas
My Appt. Expires 5/5/2008

KCC Office Use ONLY

Letter of Confidentiality Attached

If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

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Operator Name: LARSON ENGINEERING, INC. Lease Name: STEELE Well #: 1-21

Sec. 21 Twp. 18 S. R. 30 East West County: LANE

INSTRUCTIONS: Show important tops and base of formation 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 (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Sample Sent to Geological Survey	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	ANHYDRITE	2181	+712
Electric Log Run (Submit Copy)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	BASE ANHYDRITE	2240	+653
List All E. Logs Run:	DUAL INDUCTION		HEEBNER SHALE	3906	-1013
	DUAL COMP POROSITY		LANSING-KANSAS CITY	3949	-1056
	BOREHOLE COMP SONIC		STARK SHALE	4229	-1336
	MICRORESISTIVITY		BASE KANSAS CITY	4310	-1417
			PAWNEE	4431	-1538
			FORT SCOTT	4478	-1585
			CHEROKEE	4503	-1610
			MISSISSIPPIAN	4575	-1682

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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"	24#	257'	CLASS A	180	2% GEL, 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5#	4627'	SMD	125	1/4#/SK FLOCELE
					EA-2	100	5#/SK GILSONITE & 1/2% CFR

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	2177'	SMD	175	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
	SEE ATTACHED	SEE ATTACHED			

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TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	4579		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method			
10/3/07		<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	53	0	5		37

Disposition of Gas: Vented Sold Used on Lease
If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 4461 - 4511

Operator Name: LARSON ENGINEERING, INC. Lease Name: STEELE Well #: 1-21

Sec. 21 Twp. 18 S. R. 30 East West County: LANE

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	4509-11	500 GAL 15% MCA	4509-11
4	4481-84	500 GAL 15% MCA	4481-84
4	4461-65	500 GAL 15% MCA	4461-65
4	4380-84	1000 GAL 15% NEFE	4509-11
		1000 GAL 15% NEFE	4481-84
		1000 GAL 15% NEFE	4461-65
		250 GAL 15% HCL	4380-84
		SQZ: 50 SX CLASS A	4380-84

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ALLIED CEMENTING CO., INC.

30269

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Great Bend
~~Atchafalaya~~
8-23-07

DATE <u>8-23-07</u>	SEC <u>21</u>	TWP <u>18</u>	RANGE <u>30</u>	CALLED OUT <u>9:30 AM</u>	ON LOCATION <u>12:30 PM</u>	JOB START <u>5:00 AM</u>	JOB FINISH <u>5:30 PM</u>
LEASE <u>Steele</u>	WELL # <u>1-21</u>	LOCATION <u>Amy 2w 1/2 S C/S</u>	COUNTY <u>Lane</u>	STATE <u>K.S.</u>			

OLD OR NEW (Circle one)

CONTRACTOR H-D Rig-1

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. 258 ft

CASING SIZE 8 3/8 DEPTH 257 ft

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15 ft

PERFS. _____

DISPLACEMENT 15 bbl

OWNER _____

CEMENT AMOUNT ORDERED 180 M Common
38 cc 28 gel

COMMON	<u>180 M</u>	@	<u>11.10</u>	<u>1998.00</u>
POZMIX		@		
GEL	<u>4 M</u>	@	<u>16.65</u>	<u>66.60</u>
CHLORIDE	<u>6 M</u>	@	<u>46.60</u>	<u>279.60</u>
ASC		@		
CONFIDENTIAL				
DEC 3 2007				
REC				
HANDLING	<u>190 M</u>	@	<u>1.90</u>	<u>361.00</u>
MILEAGE	<u>190 M</u>	@	<u>36</u>	<u>615.60</u>
				TOTAL <u>3320.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Mike m

120 HELPER Derek

BULK TRUCK

342 DRIVER Kevin w

BULK TRUCK

_____ DRIVER _____

REMARKS:

circulate hole with Rig

Mud Pump

Mix Comont + Release plug

Displace Plug Down with

Water

Cement did circulate

to surface

SERVICE

DEPTH OF JOB	<u>257 ft</u>			
PUMP TRUCK CHARGE				<u>815.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>36</u>	@	<u>6.00</u>	<u>216.00</u>
MANIFOLD		@		
<u>Lead Rental</u>		@	<u>100.00</u>	<u>100.00</u>
				TOTAL <u>1131.00</u>

CHARGE TO: harson ~~Off~~ Engineering

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

Thank you
DR

THANKS!

SIGNATURE Doug Roberts

PLUG & FLOAT EQUIPMENT

<u>1-8 1/2 wooden plug</u>	<u>60.00</u>		<u>60.00</u>
	@		
	@		
	@		
	@		
			TOTAL <u>60.00</u>

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

Doug Roberts

PRINTED NAME



CHARGE TO: **LANE OPERATING**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET No 12781

PAGE 1 OF 1

SERVICE LOCATIONS
 1. **NESS CITY, KS** WELL/PROJECT NO. **1-21** LEASE **STEELE** COUNTY/PARISH **LANE** STATE **KS** CITY DATE **9-11-07** OWNER **SAME**
 2. TICKET TYPE SERVICE CONTRACTOR **CHEYENNE WELL SERVICE** RIG NAME/NO. SHIPPED VIA **CT** DELIVERED TO **LOCATION** ORDER NO.
 3. SALES WELL TYPE **OIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **CEMENT POST COLLAR** WELL PERMIT NO. WELL LOCATION **DUGGINS, KS - 9W, 1/2S, E 2WB**
 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 # 104	40	MI	4.00		160.00
577		1			PUMP SERVICE	1	JOB	850.00		850.00
330		1			SWIFT MULT-DENSITY STANDARD	175	SKS	14.50		2537.50
276		1			FLOECE	56	US	1.25		70.00
290		1			D-ADR	2	GAL	32.00		64.00
581		1			SERVICE CHARGE CEMENT	225	SD	1.10		247.50
583		1			DRAYAGE	22326	US	446.52	TM	446.52

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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 **9-11-07** TIME SIGNED **1300** 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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				4375.52
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Lane TAX 5.3% 141.59
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL 4517.11
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

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

SWIFT OPERATOR **WAVE WILSON** APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-11-07 PAGE NO.

CUSTOMER ARSON OPERATING WELL NO. 1-21 LEASE STEELE JOB TYPE CEMENT PORT COLLAR TICKET NO. 12781

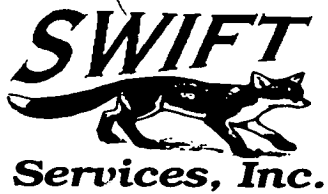
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/HR)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1300							ON LOCATION
								2 3/8 X 5 1/2 PORT COLLAR c 2177
	1430				✓		1000	PSE TEST CASING - HELD
	1435	3	2	✓		200		OPN PORT COLLAR - INT RATE
	1440	4	97	✓		350		MAX CEMENT 175 SKS SMD 1/4" FLOCCS
	1510	3	7 1/2	✓		400		DISPARE CEMENT
	1520			✓		1000		CLOSE PORT COLLAR - PSE TEST - HELD CIRCULATED 15 SKS CEMENT TO PZT
	1535	4	25	✓		400		RUN 4 JTS - CIRCULATE CLEAN WASH TRUCK
	1600							JOB COMPLETE
								THANK YOU WAYNE, BRETT, ROB

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CHARGE TO: **LARSON ENGINEERING**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 No 12505

PAGE 1 OF 2

SERVICE LOCATIONS 1. HAYS	WELL/PROJECT NO. 1721	LEASE STEELE	COUNTY/PARISH LANE	STATE KS	CITY	DATE 09-04-07	OWNER
2. NESS	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. H-D DRILL #1	SHIPPED VIA CIT.	DELIVERED TO 24 1/2 E. 1000 Amy Ks	ORDER NO.	
3.	WELL TYPE Oil	WELL CATEGORY DEVELOP	JOB PURPOSE LONG-STRING	WELL PERMIT NO. 15-101-22037	WELL LOCATION S21, T18, R30		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE #105	50		mi		4.00	200	00
578		1			Pump SERVICE	1		EA		1250.00	1250	00
221		1			Liquid MCL	2		GAL		26.00	52	00
281		1			MUD FLUSH	500		GAL		.75	375	00
290		1			D-AIR	1		GAL		32.00	32	00
419		1			ROTATING HEAD RENTAL	1		EA	5 1/2 in	250.00	250	00

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

X **J.C. Larson**
 DATE SIGNED **09-04-07** TIME SIGNED **1700** 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?				PAGE TOTAL	2159 00
WE UNDERSTOOD AND MET YOUR NEEDS?				PAGE 2	4566 40
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Sub Total	6725 40
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Lane TAX 5.3%	235 40
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	6960 80
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 09-04-07 PAGE NO. 1

CUSTOMER LARSON WELL NO. 1-21 LEASE STEELE JOB TYPE LONGSTRING TICKET NO. 12505

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							ORIENTATION, SET UP, RUNNING C56, DISCUSS JOB LEAD CMT 125 SMD, TAIL 100 EA 2 CMT R70 4640, SET P. @ 4635, SJ 42.65, F250.07 4594 5 1/2 IS. 5" P.C. @ 2182 FT
	1800							TAG BOTTOM - DEEP DIAL Hookup
	1815							BRANCIA
	1920		40					PLUG RT
	1923	5.0	0				200	START MUD FLUSH
			12					" MCL FLUSH
			32					END FLUSHES
	1936	5.0	0				200	START LEAD CMT SMD
			440					" TAIL CMT 8A2
			685					END CMT
								Drop pipe - WASH PL
	1950	6.0	0				0	START DISO
			43.0				200	CMT ON BOTTOM
			750				200	
			80.0				300	
			85.0				300	
			90.0				400	
			95.0				475	
			100.0				550	
			105.0				600	
	2010	4.0	1080				1500	LAND PLUG
								WASHUP RAEN UP TICKETS
	2100							JOB COMPLETE THANK YOU! DAVE JOHNSON, SHANE

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Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 609
Kechi, KS 67067-0609
Office 316-744-2567
Cell 316-518-0495
Fax 209-396-2988
boblew5555@msn.com

GEOLOGICAL REPORT

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Larson Operating Company

Steele No. 1-21
2100 FSL & 860 FWL Sec. 21-18S-30W
Lane County, Kansas

CONTRACTOR: H D Drilling Co., LLC
SPUDDED: August 22, 2007
DRILLING COMPLETED: September 4, 2007
SURFACE CASING: 8 5/8" @ 257 KBM 180/sx.
ELECTRIC LOGS: Log Tech CDN MEL BHCS DIL
ELEVATIONS: 2893 KB 2888 GL

FORMATION TOPS (Electric Log):

Anhydrite	2181 (+ 712)
Base Anhydrite	2240 (+ 653)
Heebner Shale	3906 (-1013)
Lansing-Kansas City Group	3949 (-1056)
Muncie Creek Shale	4127 (-1234)
Stark Shale	4229 (-1336)
Hushpuckney shale	4268 (-1375)
Base Kansas City	4310 (-1417)
Marmaton	4341 (-1448)
Altamont "A"	4354 (-1461)
Altamont "B"	4378 (-1485)
Pawnee	4431 (-1538)
Myrick Station	4453 (-1560)
Fort Scott	4478 (-1585)
Cherokee	4503 (-1610)
Mississippian	4575 (-1682)
Rotary Total Depth	4630 (-1737)

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Samples were examined microscopically from 3850 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. All measurements are electric log measurements and depths on the drill stem tests have been corrected downhole ten feet to correlate with electric log measurements, due to a ten-foot error in the pipe tally (Drillers TD was 4630 and Electric Log TD was 4640). 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:

3949-3957 (A Zone)

Limestone, buff to pinkish buff, dense, some cream chalky, some cream to buff chert, fresh, opaque, trace of finely crystalline with scattered very poor intercrystalline porosity, no show of oil.

3984-3989 (B Zone)

Limestone, buff, dense, with cream finely crystalline and much cream chalky, trace of scattered poor intercrystalline porosity, trace of gilsonite, no show of live oil.

4001-4029 (C-D Zones)

Limestone, buff, dense to finely crystalline with cream chalky, trace of scattered very poor intercrystalline porosity, no show of oil.

4038-4045 (E Zone)

Limestone, cream to buff, dense to finely crystalline with considerable chalk, trace of poor scattered intercrystalline porosity with a trace of dead stain, no show of live oil.

4051-4066 (F Zone)

Limestone, cream to buff, dense to finely crystalline and chalky, zone is mostly tight with a trace of very poor intercrystalline porosity, no show of oil.

4068-4078 (G Zone)

Limestone, cream to buff to tan, finely crystalline and oolitic, poor to fair oolitic porosity, no show of oil.

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4143-4154 (H Zone)

Limestone, buff, finely crystalline, poor to fair intercrystalline porosity, poor to fair spotted stain, very slight show of free oil, faint odor, poor fluorescence, poor to fair cut.

DST No. 1

4124-415

Open 15 minutes, shut in 30 minutes, open 45 minutes, shut in 90 minutes; quarter-inch blow built to two-inch blow on first flow period, no blowback; surface blow built to four-inch blow on second flow, no blowback; recovered 93 feet of mud cut water (80% water, 20% mud), 26,000 ppm recovery chlorides, 2000 ppm system chlorides; ISIP 1098# FSIP 1098# IFP 15-26# FFP 27-60# IHP 2028# FHP 1987# BHT 121.

4173-4195 (I Zone)

Limestone, cream to buff, some tan, dense to finely crystalline with chalky, poor to fair intercrystalline porosity, no show of oil.

4206-4217 (J Zone)

Limestone, cream to buff to tan, finely crystalline and oolitic, some dense-oolitic, fair to good ooliticastic porosity, trace of dead stain, no show of live oil.

4236-4242 (K Zone)

Limestone, buff to tan, dense to finely crystalline and slightly fossiliferous, scattered poor vugular and interfossil porosity, scattered poor spotted stain, faint to fair odor, very slight show of free oil, poor fluorescence, fair cut.

4279-4286 (L Zone)

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

DST No. 2

4272-4290

Open 15 minutes, shut in 30 minutes, open 30 minutes, shut in 60 minutes; weak surface blow throughout test, did not die or build; recovered five feet of oil and 25 feet of mud; ISIP 400# FSIP 214# IFP 16-21# FFP 25-29# IHP 2096# FHP 2095# BHT 118.

4304-4310 (L-2 Zone)

Limestone, cream to buff, some tan, dense to chalky, zone is mostly tight with no shows of oil.

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4354-4358 (Altamont "A" Zone)

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

4378-4388 (Altamont "B" Zone)

Limestone, cream to buff, finely crystalline and partly oolitic, some cream chalky, poor to fair interoolitic porosity with poor spotted stain, very slight show of free oil, faint odor, no fluorescence, poor cut.

DST No. 3

4330-4380

Open 15 minutes, shut in 30 minutes, open 45 minutes, shut in 30 minutes; surface blow built to three inches on first flow, no blowback; surface blow built to six inches on second flow, no blowback; recovered two feet of free oil, 18 feet of oil cut mud (5% oil, 95% mud), 124 feet of water cut mud (30% water, 70% mud) recovery chlorides 19,000, system chlorides 2700; ISIP 1076# FSIP 1069# IFP 17-37# FFP 40-85# IHP 2137# FHP 2130# BHT 122.

4431-4438 (Pawnee Zone)

Limestone, buff to tan, some brown, dense, some finely crystalline with a trace of poor intercrystalline porosity, trace of dead to tarry stain, questionable odor, no live free oil, no live stain, no fluorescence, poor cut.

4458-4464 (Myrick Station)

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

4480-4484 (Fort Scott)

Limestone, buff to tan, finely crystalline and oolitic, fair vugular and interoolitic porosity, fair spotted stain, slight show of free oil, fair to good odor, poor fluorescence, fair cut.

4506-4513 (Cherokee Lime)

Limestone, buff to tan, some brown, dense to finely crystalline, trace of poor spotted stain in tight pieces, very slight show of free oil, faint odor, poor fluorescence, poor cut. Zone is mostly tight.

DST No. 4

4425-4515

Open 15 minutes, shut in 30 minutes, open 30 minutes, shut in 60 minutes; blow off bottom in five minutes on first flow, blowback surface blow built to one inch in 30

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minutes; blow off bottom of bucket in four minutes on second flow, blowback surface blow built to seven inches in 60 minutes. Recovered 496 feet of gas in pipe and 620 feet of fluid: 248 feet of gassy oil (40% gas, 60% oil), 124 feet of mud cut gassy oil (30% gas, 60% oil, 10% mud), 248 feet of gassy oil cut mud (30% gas, 10% oil, 60% mud). ISIP 1091# FSIP 1073# IFP 34-114# FFP 121-229# IHP 2264# FHP 2200# BHT 128.

4543-4565 (Johnson Zone)

Limestone, buff to tan to brown, dense to finely crystalline, partly fossiliferous, scattered very poor intercrystalline porosity, trace of poor spotted stain, very slight show of free oil, faint odor, zone is tight on electric logs.

4575-4640 (Mississippian Zones)

The Mississippian section consisted of limestones, buff to tan, some brown, dense with some dense-oolitic, oolitic, and typical buff, dense, soft and flakey Mississippian limestone. The section contained considerable chert, white to light gray, fresh, opaque. The Mississippian was generally tight and no shows of oil were present in the section.

4640

Electric Log Total Depth

Conclusions and Recommendations:

Drill Stem Test No. 4 covered the Upper Pawnee, the Myrick Station, the Fort Scott, and the Upper Cherokee lime. The recovered oil likely came from the Myrick Station or the Fort Scot, or both zones. Both zones had sample shows and have Density log porosity and Microlog indication of permeability. In addition, the Altamont "A" and the upper two feet of the Altamont "B" zones recovered slight amounts of oil and oil cut mud with a small amount of formation water on DST No. 3. The "K" zone had a sample show and sample porosity and remains untested. The following zones should be perforated and evaluated in the No. 1-21 Steele:

Fort Scott	4480-4484
Myrick Station	4461-4464
Altamont "B"	4380-4384
Altamont "A"	4356-4359
Lansing "K" Zone	4237-4242

Respectfully Submitted,

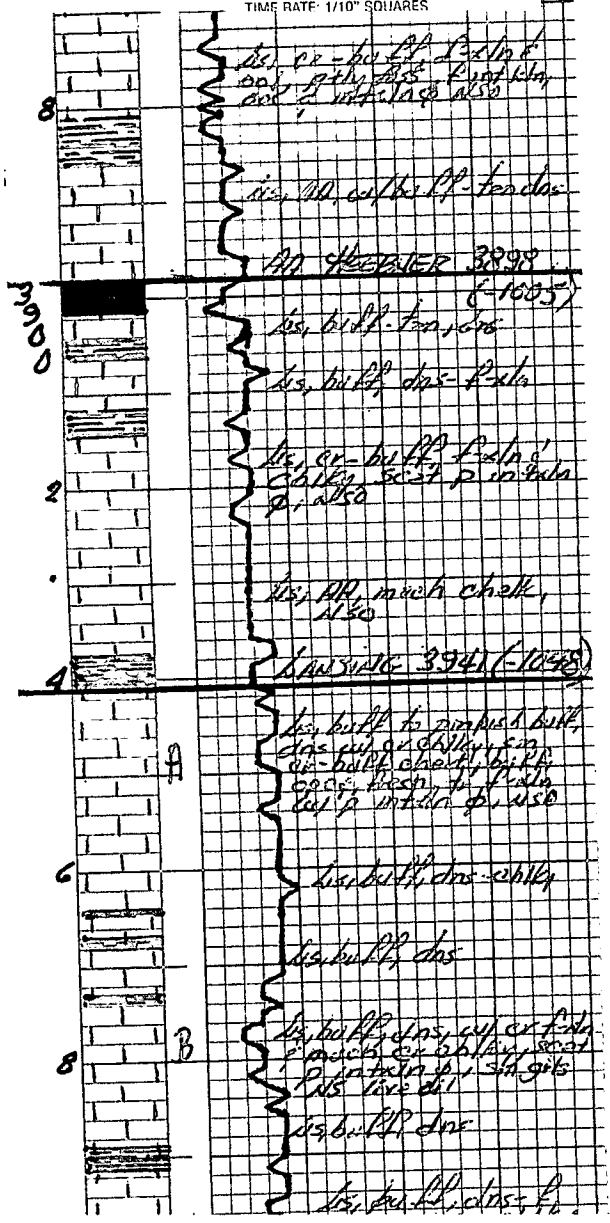
Robert C. Lewellyn
Petroleum Geologist

RCL:me

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STATE KANSAS	COMPANY LARSON OPERATING CO.
COUNTY LANE	FARM STEELE
BLOCK	WELL NO. 1-21
SEC. 21	SURVEY 2100 FSL & 860 FWL
T 185	R 30W
TOTAL DEPTH 4630	
CONTRACTOR H. D. Drilling, LLC	
COMMENCED 08-22-07	
COMPLETED 09-04-07	
REMARKS Depths should be corrected downhole 10 feet	
ALTIMITUDE 2893 KB	
PRODUCTION Robert C. Jewell, Jr. - Geol.	
CASING RECORD 8 5/8" @ 257 KBM / 180 SX	
RTD = 4630	
LTD = 4640	
SHOT	QUARTS BETWEEN
TIME RATE SCALE: 1/10" = MINUTES	

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