

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

*KCC
MAY 18/01/08*

7/15/10

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
License: 33935
Wellsite Geologist: ROBERT LEWELLWN

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. _____

3/22/2008 3/31/2008 4/23/2008
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 135-24754-00-00
County: NESS
SE NE SW SE Sec. 30 Twp. 18 S. R. 26 East West
700 feet from SOUTH Line of Section
1570 feet from EAST Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: VOGEL Well #: 1-30
Field Name: WILDCAT
Producing Formation: MISSISSIPPI
Elevation: Ground: 2581' Kelly Bushing: 2586'
Total Depth: 4612' Plug Back Total Depth: 4565'
Amount of Surface Pipe Set and Cemented at 260' Feet
Multiple State Cementing Collar Used? Yes No
If yes, show depth set 1925' Feet
If Alternate II completion, cement circulated from 1925'
feet depth to SURFACE w/ 200 sx cmt.

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Drilling Fluid Management Plan *Alt II NH 9-3-08*
(Data must be collected from the Reserve Pit)
Chloride content 14400 ppm Fluid volume 610 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 Larson
Title: SECRETARY/TREASURER Date: 7/15/2008
Subscribed and sworn to before me this 15TH day of JULY,
2008.
Notary Public: Debra J Ludwig
Date Commission Expires: MAY 5, 2012

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

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

CONSERVATION DIVISION
WICHITA, KS

Operator Name: LARSON ENGINEERING, INC. Lease Name: VOGEL Well #: 1-30
 Sec. 30 Twp. 18 S. R. 26 East West County: NESS

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	1942	+644
Electric Log Run (Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	BASE ANHYDRITE	1973	+613
List All E. Logs Run:	DUAL INDUCTION	HEEBNER SHALE	3893	-1307
	DUAL COMP POROSITY	LANSING-KANSAS CITY	3933	-1347
	BOREHOLE COMP SONIC	STARK SHALE	4199	-1613
	MICRORESISTIVITY	BASE KANSAS CITY	4303	-1717
		PAWNEE	4397	-1811
		FORT SCOTT	4450	-1864
		CHEROKEE SHALE	4474	-1888
		MISSISSIPPI LIME	4549	-1963
		MISSISSIPPI DOLOMITE	4555	-1969

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CASING RECORD <input checked="" type="checkbox"/> New <input 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"	23#	260'	CLASS A	160	2% GEL, 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5#	4610'	SMD	125	1/4#/SK FLOCELE
					EA-2	100	7#/SK GILSONITE, 3/4% CFR-1

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	1925'	SMD	200	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	4555-58			

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TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	4553		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.			Producing Method		
4/23/08			<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
	59		7		37

Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 4555-58

If vented, submit ACO-18.)

ALLIED CEMENTING CO., LLC. 33205

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

SERVICE POINT:
NESS CITY

DATE <u>3-22-08</u>	SEC. <u>30</u>	TWP. <u>18S</u>	RANGE <u>26W</u>	CALLED OUT <u>7:30 PM</u>	ON LOCATION <u>11:30 PM</u>	JOB START <u>1:00 AM</u>	JOB FINISH <u>2:00 AM</u>
LEASE <u>VOGEL</u>		WELL # <u>1-30</u>		LOCATION <u>Beeler 1 1/2 W TO RD</u>		COUNTY <u>NESS</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>130 S.W N/INTO</u>			

CONTRACTOR H&D BISI
 TYPE OF JOB SURFACE
 HOLE SIZE 12 1/4 T.D. 263'
 CASING SIZE 8 5/8 DEPTH 263'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 200 MINIMUM 50
 MEAS. LINE _____ SHOE JOINT 15'
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT FRESH WATER 153 BOBS

OWNER Larson operating
 CEMENT
 AMOUNT ORDERED 1605X COMMON #
3 1/2 GEL + 2 1/2 GEL

COMMON	<u>1604.</u>	@	<u>12.30</u>	<u>196800</u>
POZMIX		@		
GEL	<u>34.</u>	@	<u>18.40</u>	<u>55.20</u>
CHLORIDE	<u>54.</u>	@	<u>51.50</u>	<u>257.50</u>
ASC		@		

EQUIPMENT
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 PUMP TRUCK CEMENTER DWAYNE JUL 15 2008
 # 120 HELPER DAVID J
 BULK TRUCK KCC
 # 341 DRIVER CARL S
 BULK TRUCK _____
 # _____ DRIVER _____

HANDLING	<u>1684.</u>	@	<u>2.10</u>	<u>352.80</u>
MILEAGE	<u>1684.09</u>	@	<u>18.11</u>	<u>274.00</u>
TOTAL				<u>2907.50</u>

REMARKS:
PIPE ON BOTTOM BREAK
CIRCULATION PUMP 1605X
COMMON + 3 1/2 GEL + 2 1/2 GEL
PUMP THREW A SWEDGE AND VALVE
AND DISP WITH 153 BOBS OF
FRESH WATER SHUT IN CEMENT
DID CIRCULATE

SERVICE

DEPTH OF JOB	<u>263'</u>		
PUMP TRUCK CHARGE			<u>900.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>18</u>	@	<u>7.00</u>
MANIFOLD HANDLING		@	
		@	
		@	

CHARGE TO: Larson operating
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 1026.00

THANK YOU

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PLUG & FLOAT EQUIPMENT

8 1/2 WOODEN PILES	@	
	@	
	@	
	@	
	@	

To Allied Cementing Co., LLC. CONSERVATION DIVISION
 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.

TOTAL _____
 SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME x Doug Roberts
 SIGNATURE x Doug Roberts



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

RECEIVED APR 2 2008
 TICKET No. 14106

PAGE 1 OF 2

SERVICE LOCATIONS
 1. **NESS City, KS**
 WELL/PROJECT NO. **1-30** LEASE **VOGEL** COUNTY/PARISH **NESS** STATE **Ks** CITY DATE **3-31-08** OWNER **SAME**
 2. TICKET TYPE SERVICE CONTRACTOR **H-D** RIG NAME/NO. SHIPPED VIA **CT** DELIVERED TO **LOCATIONS** ORDER NO.
 3. WELL TYPE **OIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **5 1/2" LONGSTRAEG** WELL PERMIT NO. WELL LOCATION **W/BEELE Ks**
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE # 110	20	ME	6.00		120.00
578		1			PUMP SERVICE	1	JOB	1400.00	4610	1400.00
221		1			LIQUID KCL	2	GAL	26.00		52.00
281		1			MUDFLUSH	500	GAL	1.00		500.00
419		1			ROTATING HEAD RENTAL	1	JOB	250.00		250.00

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 CONSERVATION DIVISION
 WICHITA, KS

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 **T.C. Larson**
 DATE SIGNED **3-31-08** 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 #	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#1	2322.00
WE UNDERSTOOD AND MET YOUR NEEDS?				#2	4961.41
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	7283.41
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	260.95
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	7544.36
<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!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 14106

CUSTOMER: LARSON OPERATING
WELL: VOGEL 1-30
DATE: 3-31-08
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		UM		UNIT PRICE	AMOUNT
		LOG	ACCT	DF			QTY	UM	QTY	UM		
325		1				STANDARD CEMENT EA-2	100	SKS			12.75	1275.00
330		1				SWIFT MULTI-DENSITY STANDARD	125	SKS			15.50	1937.50
276		1				FLOCELE	56	LBS			1.50	84.00
277		1				GZSONOTE	700	LBS			.40	280.00
283		1				SALT	500	LBS			.20	100.00
284		1				CALSEAL	5	SKS	500	LBS	30.00	150.00
285		1				CFR-1	50	LBS			4.50	225.00
290		1				D-ADD	2	GAL			35.00	70.00
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581		1				SERVICE CHARGE						
583		1				MILEAGE CHARGE						
							TOTAL WEIGHT	23566		LOADED MILES	20	
							SERVICE CHARGE	225		CUBIC FEET	190	
							MILEAGE CHARGE	235.66		TON MILES	175	

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CONTINUATION TOTAL 4961.41

JOB LOG

SWIFT Services, Inc.

DATE 3-31-08 PAGE NO. 7

CUSTOMER CARSON OPERATING WELL NO. 1-30 LEASE VOGEL JOB TYPE 5 1/2" LOGGING TICKET NO. 14106

CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							ON LOCATION
								TD-4612 SET= 4610
								TP-4609.16 5 1/2" I/F 15.5
								ST-42.24
								PORT COLLAR= 1925'
	1450							DROP BALL - CIRCULATE ROTATE
	1610	6	12		✓	450		PUMP 500 GAL MUD FLUSH "
	1612	6	20		✓	450		PUMP 20 BBLS KCL FLUSH "
	1620		4					PLUG RH
	1625	5	52		✓	300		MAX COMBT 125 SMD= 12.2 PPG "
		4 1/2				250		100 EA-2= 15.5 PPG "
	1642							WASH OUT PUMP-LINES
	1644							RELEASE CATCH BOW PLUG
	1645	7	0		✓			DISPLACE PLUG "
		6 1/2	98			750		SHUT OFF ROTATING
	1700	6 1/2	108.7			1500		PLUG BOW - PSE UP CATCH IN PLUG
	1702							OK RELEASE PSE-HELD
								WASH TRUCK
	1800							JOB COMPLETE

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WICHITA, KS

THANK YOU
WAGLE, BRETT, ROB



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

TICKET No 14118
 PAGE 1 OF 1

SERVICE LOCATIONS: 1. NESS CITY, KS
 WELL/PROJECT NO. 1-30 LEASE VOGEL COUNTY/PARISH NESS STATE KS CITY NESS DATE 4-7-08 OWNER SAME
 TICKET TYPE SERVICE CONTRACTOR FREDERICK TRUCKING RIG NAME/NO. LOCATION SHIPPED VIA CT DELIVERED TO LOCATION ORDER NO.
 WELL TYPE OIL WELL CATEGORY DEVELOPMENT JOB PURPOSE COMPT PORT COLLAR WELL PERMIT NO. NO WELL LOCATION REELER, KS
 REFERRAL LOCATION: INVOICE INSTRUCTIONS

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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 110	30		ME		6.00	180.00
578		1			PUMP SERVICE	1		HOE	1925	1400.00	1400.00
330		1			SWIFT MULT-DRIST STANDARDS	200		SKS		15.50	3100.00
276		1			FUDGE	50		UBS		1.50	75.00
290		1			D-AR	2		GAZ		35.00	70.00
581		1			SERVICE CHARGE COMPT	200		SKS		1.90	380.00
583		1			DRAINAGE	19970		UBS	299.55	1.75	524.21
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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X John Dawson
 DATE SIGNED 4-7-08 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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5729.21
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				7.55 TAX 5.3%
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				171.99
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL 5901.20

JOB LOG

SWIFT Services, Inc.

DATE **4-7-08** PAGE NO. **1**

CUSTOMER **LARSON OPERATING** WELL NO. **1-30** LEASE **VOGEL** JOB TYPE **CEMENT PORT COLLAR** TICKET NO. **14118**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							ON LOCATION
								2 3/8 X 5 1/2 PORT COLLAR = 1925'
	1130				✓		1000	PSE-TEST CASING - HELA
	1135	3	3	✓		250		OPW PORT COLLAR - INT RATE
	1140	4 1/4	111	✓		450		MAX CEMENT 200 SMD 1/4" ROSSLE P/SK = 11.2 PPG
	1215	4	6 1/2	✓		500		DISPLACE CEMENT
	1225	CONFIDENTIAL		✓		1000		CLOSE PORT COLLAR - PSE TEST - HELA
		JUL 15 2008						CORRECTED <u>15</u> SMD CEMENT TO PSE
		KCC						
	1240	4	20		✓		450	RUN 4 JTS - CORRECT CEMENT
								WASH TRUCK
	1330							JOB COMPLETE
								THANK YOU WAYNE JEFF, RAN

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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
boblewellyn@yahoo.com

GEOLOGICAL REPORT

Larson Operating Company

Vogel No. 1-30
750' FSL & 1570' FEL Sec. 30-18S-26W
Ness County, Kansas

CONTRACTOR:

H. D. Drilling, LLC

SPUDED:

March 22, 2008

DRILLING COMPLETED:

March 31, 2008

SURFACE CASING:

8 5/8" @ 260 KBM/160 sx.

ELECTRIC LOGS:

Log-Tech DIL CDN MEL BHCS

ELEVATIONS:

2586 KB 2581 GL

FORMATION TOPS (Electric Log):

Anhydrite	1942 (+ 644)
Base Anhydrite	1973 (+ 613)
Heebner Shale	3893 (-1307)
Lansing-Kansas City Group	3933 (-1347)
Muncie Creek Shale	4099 (-1513)
Stark Shale	4199 (-1613)
Hushpuckney shale	4235 (-1649)
Base Kansas City	4303 (-1717)
Altamont	4343 (-1757)
Pawnee	4397 (-1811)
Fort Scott	4450 (-1864)
Cherokee Shale	4474 (-1888)
Cherokee Sand	4530 (-1944)
Mississippi Lime	4549 (-1963)
Mississippi Dolomite	4555 (-1969)
Electric Log Total Depth	4612 (-2026)

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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:

3944-3949 (A Zone)

Limestone, cream to buff, dense to finely crystalline with considerable chalky, partly fossiliferous, trace of poor to fair intercrystalline and interfossil porosity, no show of oil.

3951-3960 (B Zone)

Limestone, broken, cream to buff, dense to finely crystalline and chalky, some scattered chert, trace of poor intercrystalline porosity, no show of oil.

3977-3985 (C Zone)

Limestone, buff to tan, some cream, dense to finely crystalline and chalky, trace of sucrosic, scattered poor intercrystalline porosity, no show of oil.

3996-4002 (D Zone)

Limestone, cream to buff, finely crystalline and chalky, scattered poor intercrystalline porosity, no show of oil, zone becomes dense toward base.

4021-4026 (E Zone)

Limestone, buff to tan, finely crystalline and slightly oolitic, some cream chalky with trace of dense-oolitic, scattered poor intercrystalline and interoolitic porosity, no show of oil.

4035-4042 (F Zone)

Limestone, broken, cream to buff to tan, finely crystalline and partly fossiliferous, trace scattered oolitic, some chalky limestone, poor to fair intercrystalline and interfossil porosity, no show of oil.

4057-4068 (G Zone)

Limestone, buff to tan, dense to finely crystalline with considerable chalky, some oolitic with poor oolitic porosity, some scattered dense-oolitic, zone contains no shows of oil.

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4084-4088 (G2 Zone)

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

4111-4131 (H Zone)

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

4150-4156 (I Zone)

Limestone, cream to buff, finely crystalline and chalky, partly fossiliferous, trace of scattered poor intercrystalline and interfossil porosity, no show of oil.

4185-4199 (J Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, trace of oolitic and dense oolitic, zone is poorly developed and mostly tight with rare trace of poor intercrystalline and interoolitic porosity, no show of oil.

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4209- 4213 (K Zone)

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Limestone, buff to light gray and tan, dense to finely crystalline, partly oolitic, scattered poor intercrystalline and interoolitic porosity, no show of oil.

4252-4258 (L Zone)

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

4277-4303 (M Zone)

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

4311-4343 (Pleasanton Zone)

The Pleasanton zone consisted of limestone, cream to buff to tan, some mottled brown, dense to finely crystalline with considerable chalky, no visible porosity, no show of oil.

4374-4380 (Altamont Zone)

Limestone, cream to buff, finely crystalline and fossiliferous, some chalky, porosity zone is thin and has a few fragments with fair intercrystalline and interfossil porosity, fair light spotted stain, fair show of free oil, faint to fair odor, poor fluorescence, fair cut.

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CONSERVATION DIVISION
WICHITA, KS

Drill Stem Test No. 1 4365-4385

Open 15 minutes, shut in 30 minutes, open 30 minutes, shut in 60 minutes; first flow had weak blow, died in 10 minutes, blow did not return on second flow. Recovered three feet of mud. ISIP 68# FSIP 48# IFP 14-19# FFP 45-23# (some plugging action) IHP 2174# FHP 2115# BHT 120 degrees.

4397-4445 (Pawnee Zones)

The Pawnee section consisted of limestone, buff to tan to brown, dense, some chalky and finely crystalline, some scattered chert, the zone was mostly tight and contained no shows of oil.

4466-4469 (Fort Scott Zone)

Limestone, tan to brown, dense to finely crystalline, trace of medium crystalline, partly fossiliferous, poor to fair intercrystalline and vugular porosity, poor to fair spotted stain, slight show of free oil, faint to fair odor, no fluorescence, poor cut.

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Drill Stem Test No. 2 4454-4508

Open 15 minutes, shut in 30 minutes, open 60 minutes, shut in 90 minutes; first flow, blow off bottom of bucket in one minute, blow back throughout first shut in; second flow, blow off bottom in one minute, gas to surface in 28 minutes, too small to measure, blow back throughout second shut in period. Recovered 909 feet of fluid: 116 feet of clean gassy oil (30% gas, 70% oil), 793 feet of clean gassy oil (30% gas, 70% oil, reversed out) and 120 feet (below reversing sub) of mud cut gassy oil (20% gas, 55% oil, 25% mud). ISIP 613# FSIP 552# IFP 131-147# FFP 174-299# IHP 2256# FHP 2195# BHT 118 degrees.

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Cherokee Zones:

4508-4526 (Johnson Zone)

Limestone, buff to tan to brown, dense, some finely crystalline with poor intercrystalline porosity, scattered poor spotted stain, very slight show of free oil, faint odor, no fluorescence, poor cut, zone is tight on electric logs.

4530-4536 (Cherokee Sand)

Sand, light gray, fine grained, calcareous and dolomitic, well cemented, well sorted, subround, trace of friable sand with poor intergranular porosity, fair spotted stain, slight show of free oil, good odor, fair spotted fluorescence, fair cut, trace of fine grained tight sand with asphaltic stain and gilsonite.

4536-4544 (Cherokee Sand)

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Sand, light gray, medium grained, partly dolomitic, poorly cemented, well sorted, subround, friable, good intergranular porosity, good spotted stain, some saturated stain, good show of free oil, good odor, good fluorescence, good streaming cut.

Mississippian Zones:

4549-4555 (Mississippi Lime)

Limestone, cream to buff to tan, dense to finely crystalline and partly fossiliferous, trace of chalky, soft and flaky, tight, no show of oil.

4555-4560 (Mississippi Spergen Dolomite)

Dolomite, buff to tan, fine to medium crystalline, partly fossiliferous, trace of sucrosic, fair to good intercrystalline and vugular porosity, fair spotted stain, trace of saturated stain, good show of free oil, good odor, fair fluorescence, good quick streaming cut.

Conclusions and Recommendations:

The following zones should be perforated and treated as necessary to facilitate production:

Mississippi Dolomite	4456-4458
Cherokee Sand	4537-4542
Fort Scott	4466-4469

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The drill stem test covering the Altamont zone yielded negative results.

Respectfully submitted,

Robert C. Lewellyn
Petroleum Geologist

RCL:me

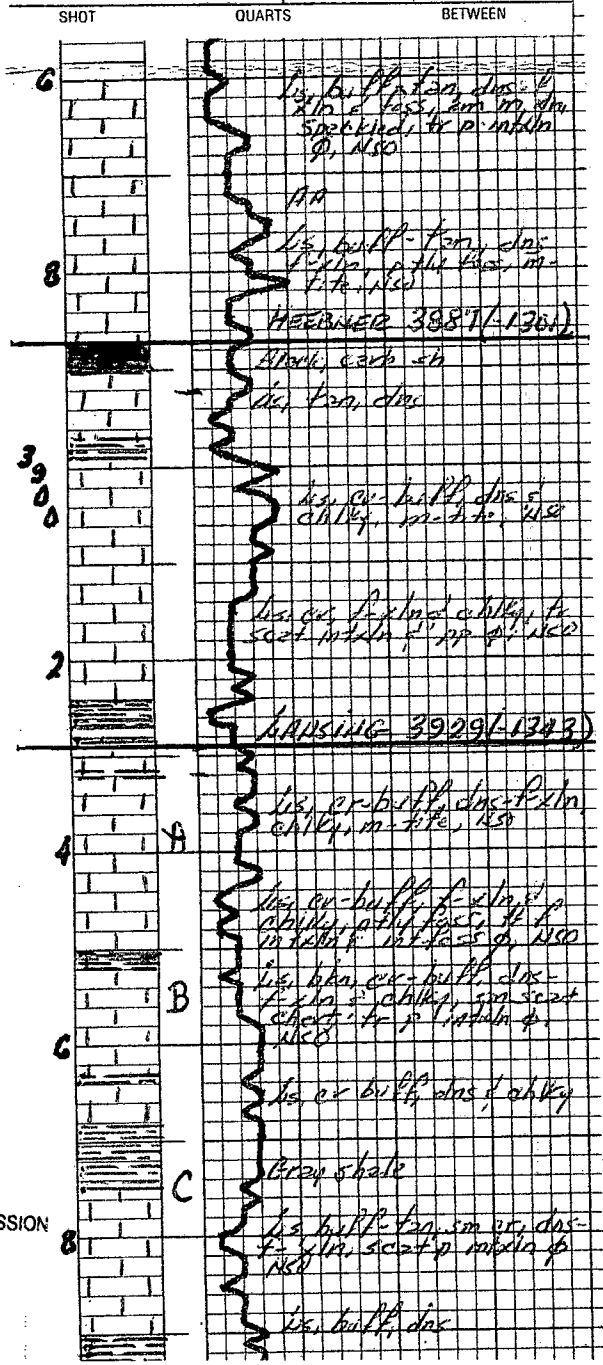
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STATE **KANSAS** COMPANY **LORSON ENGINEERING, INC.**
 COUNTY **NESS** FARM **VOGEL** WELL NO. **1-30**
 BLOCK **750 FSL & 1570 FEL** SURVEY
 SEC. **30**
 T **18S** R **26W** TOTAL DEPTH **4610**
 CONTRACTOR **H.D. Drilling, LLC**
 COMMENCED **03-22-08**
 COMPLETED **03-31-08**
 REMARKS
 ALTITUDE **2586 KB**
 PRODUCTION **Oil** **Robert C. Lowelton - Geologist**

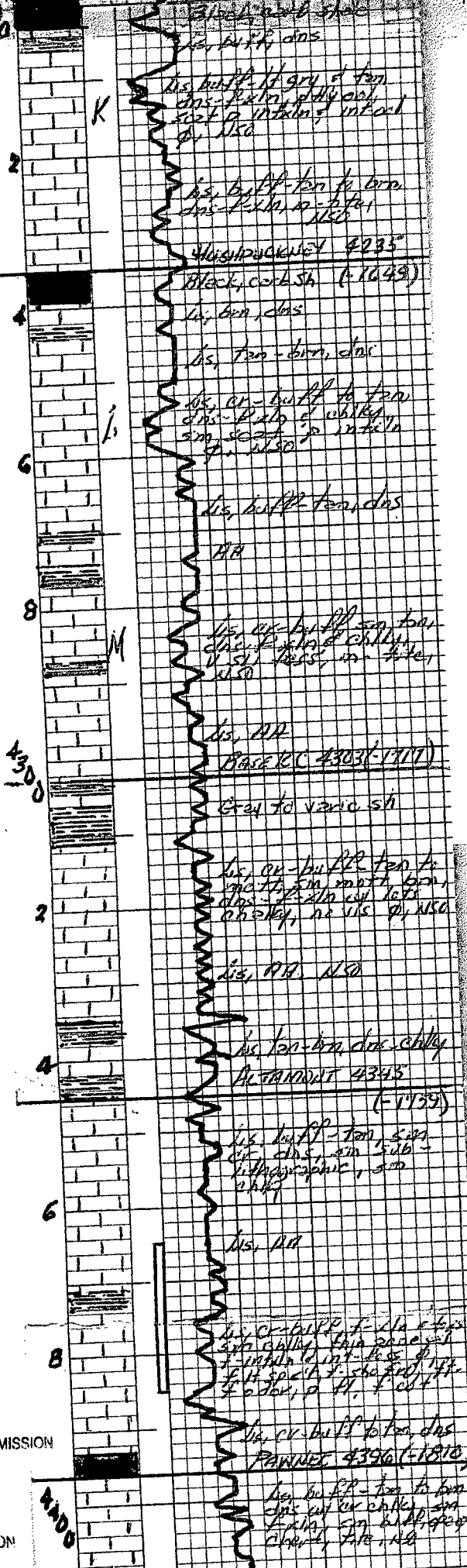
CASING RECORD
8 5/8" @ 260 KBM / 160 ex



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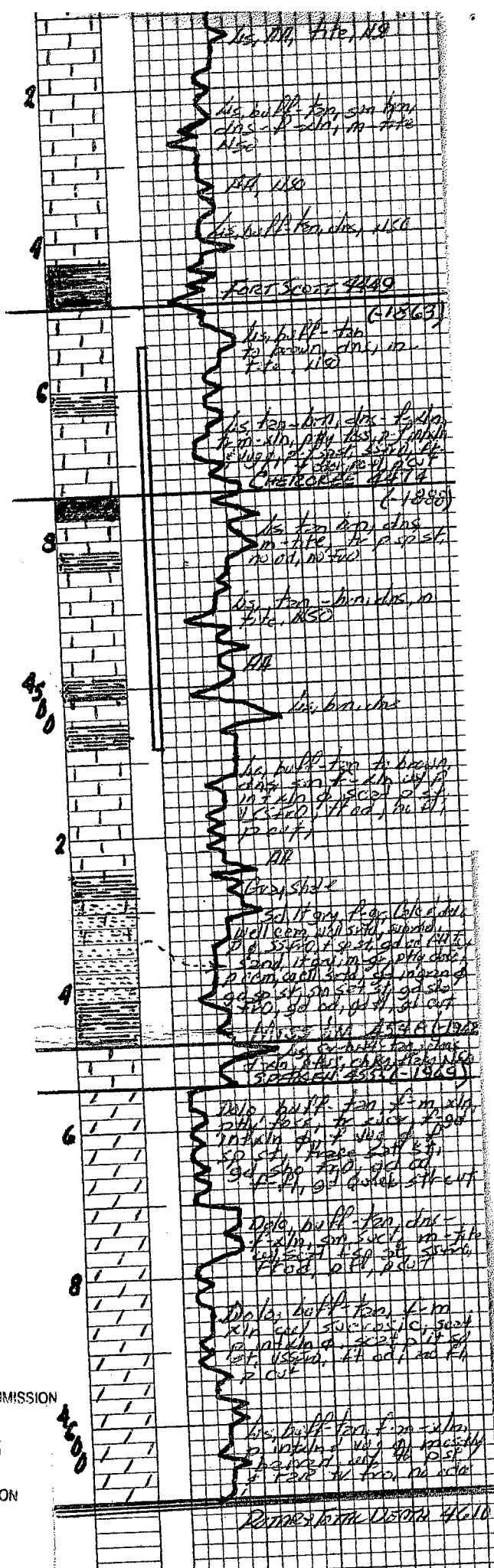
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