

~~CONFIDENTIAL~~

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

12/08/10

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 LEWELLY

API No. 15 - 101-22112-00-00
County: LANE
S2 NE SE SW Sec. 16 Twp. 17 S. R. 28 East West
706 737 feet from SOUTH Line of Section
3100 2310 E feet from WEST Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SW NW SE
Lease Name: DORIS Well #: 1-16

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

Field Name: WILDCAT
Producing Formation: LANSING - KC
Elevation: Ground: 2759' Kelly Bushing: 2764'
Total Depth: 4652' Plug Back Total Depth: 4606'
Amount of Surface Pipe Set and Cemented at 247 Feet
Multiple State Cementing Collar Used? Yes No
If yes, show depth set 2145 Feet
If Alternate II completion, cement circulated from 2145
feet depth to SURFACE w/ 225 sx cmt.

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. _____
8/11/2008 8/24/2008 9/19/2008
Spud Date or Date Reached TD Completion Date or Recompletion Date

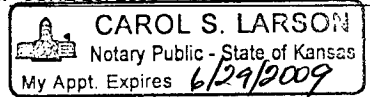
Drilling Fluid Management Plan AT INJ 225-09
(Data must be collected from the Reserve Pit)
Chloride content 11400 ppm Fluid volume 1000 bbls
Dewatering method used ALLOWED TO DRY
Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ 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: Thomas Larson
Title: PRESIDENT Date: 12/8/2008
Subscribed and sworn to before me this 8TH day of December,
2008.
Notary Public: Carol S. Larson
Date Commission Expires: JUNE 25, 2009

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

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Operator Name: LARSON ENGINEERING, INC. Lease Name: DORIS Well #: 1-16

Sec. 16 Twp. 17 S. R. 28 East West County: LANE **DEC 08 2008**

INSTRUCTIONS: Show important tops and base of formation penetrated. Detail all cores. Report all final copes of drill stem tests, flowing 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	2133	+631
Electric Log Run (Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	BASE ANHYDRITE	2152	+612
List All E. Logs Run:	DUAL INDUCTION DUAL COMP POROSITY MICRORESISTIVITY	HEEBNER SHALE	3917	-1153
		LANSING - KANSAS CITY GROUP	3954	-1190
		STARK SHALE	4216	-1452
		BASE KANSAS CITY	4291	-1527
		MARMATON	4313	-1549
		ALTAMONT	4343	-1579
		PAWNEE	4406	-1642
		FORT SCOTT	4462	-1698
		CHEROKEE	4486	-1722
		MISSISSIPPIAN	4553	-1789

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#	247'	CLASS A	175	2% GEL, 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5#	4651'	SMD	125	1/4#/SK FLOCELE
					EA-2	100	7#/SK GILSONITE, 1/8#/SK FLOCELE, 3/4% 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	2145'	SMD	225	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)	
	SEE ATTACHED	SEE ATTACHED	SEE ATTACHED	SEE ATTACHED

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TUBING RECORD	Size 2-3/8"	Set At 4279'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 9/19/08	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. 156	Gas Mcf 0	Water Bbls. 4	Gas-Oil Ratio 0 Gravity 36

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: 4196 - 4206

ALLIED CEMENTING CO., LLC. 33098

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

2008

SERVICE POINT: Ness City

8-12-08

DATE <u>8-11-08</u> <u>8-12-08</u>	SEC <u>16</u>	TWP. <u>17</u>	RANGE <u>28</u>	CALLED OUT <u>8:00 pm</u>	ON LOCATION <u>12:30 am</u>	JOB START <u>4:00 am</u>	JOB FINISH <u>5:00 am</u>
LEASE <u>Doris</u>		WELL # <u>H6</u>		LOCATION <u>Dighton, 3E, 7N, 2W, 1/2 into</u>		COUNTY <u>Lane</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR H-D Drilling
 TYPE OF JOB Surface
 HOLE SIZE _____ T.D. 250'
 CASING SIZE 8 5/8 DEPTH 250'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 300 psi MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 15ft
 CEMENT LEFT IN CSG. 15ft
 PERFS. _____
 DISPLACEMENT Fresh Water

OWNER Larson Operating
 CEMENT
 AMOUNT ORDERED 175 sx common 3% CC, 2% gel

EQUIPMENT

PUMP TRUCK CEMENTER Tyler
 # 181 HELPER Joe D
 BULK TRUCK
 # 341 DRIVER Kevin W
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>175 cu.</u>	@	<u>13.65</u>	<u>2388.75</u>
POZMIX		@		
GEL	<u>3 cu.</u>	@	<u>20.40</u>	<u>61.20</u>
CHLORIDE	<u>5 cu.</u>	@	<u>57.15</u>	<u>285.75</u>
ASC		@		
HANDLING	<u>183 cu.</u>	@	<u>2.25</u>	<u>411.75</u>
MILEAGE	<u>183 cu. 10</u>		<u>34</u>	<u>622.20</u>
TOTAL				<u>3769.65</u>

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REMARKS:

pipe on bottom, break circulation, pump 175 sx common, 3% cc, 2% gel, shut down, ~~return flow~~, displace with 15 bbls fresh water, shut in, Rig down, cement did circulate

SERVICE

DEPTH OF JOB	<u>250'</u>			
PUMP TRUCK CHARGE				<u>999.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>34</u>	@	<u>7.00</u>	<u>238.00</u>
MANIFOLD		@		
TOTAL				<u>1237.00</u>

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

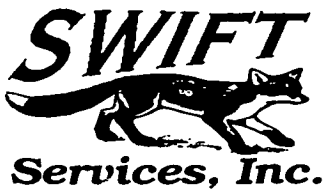
PLUG & FLOAT EQUIPMENT

_____	@		
_____	@		
_____	@		
_____	@		
_____	@		
TOTAL _____			

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
Thanks!

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



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

TICKET No 14856

PAGE 1 OF 2

1. SERVICE LOCATIONS Ness City, Ks	WELL/PROJECT NO. 1-16	LEASE DORIS	COUNTY/PARISH LANE	STATE Ks	CITY	DATE 8-24-08	OWNER SAME
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR H-D DRIG #1	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO LOCATION	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE 5 1/2" LONGSTRING	WELL PERMIT NO.	WELL LOCATION DEIGHTON, Ks - 7N, 3E, S210		
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 #104	40	ME			7.00	280.00
578		1			PUMP SERVICE	1	JOB	4650	FK	1400.00	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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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 *John Dawson*
 DATE SIGNED **8-25-08** TIME SIGNED **0100** 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 #1	2482.00	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#2	5459.56	
WE UNDERSTOOD AND MET YOUR NEEDS?				sub total	7941.56	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				TAX		
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				lane 5.3%	265.58	
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO					TOTAL	8207.14
<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 *Waxie Wilson* APPROVAL

Thank You!

JOB LOG

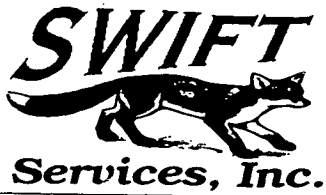
SWIFT Services, Inc.

DATE 8-24-08 PAGE NO. 1

CUSTOMER LARSON OPERATING WELL NO. 1-16 LEASE DORTS JOB TYPE 5 1/2" LONGSTRENG TICKET NO. 14856

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
8/25	0100							ON LOCATION
								TD-4651 SET = 4650 TP-4652 5 1/2" #1 15.5 SJ-42.31 PORT COLLAR = 2103
								CONFIDENTIAL DEC 08 2008 KCC
	0120							DROP BALL - CALCULATE ROTATE
	0235	6	12		✓		500	PUMP 500 GAL MUD FLUSH "
	0237	6	20		✓		500	PUMP 20 BBL KCL FLUSH "
	0243		4					PLUG RH
	0247	6	48		✓		450	MAX CEMENT WD-125 SMD = 12.5 PPG "
		4 1/2	24		✓		350	TL-100 EA-2 = 15.3 PPG "
	0303							WASH OUT PUMP - LEJES
	0304							RELEASE LATCH DOWN PLUG
	0305	7	0		✓			DISPLACE PLUG
		7	99				750	SHOT OFF ROTATE
	0320	6 1/2	109.7				1500	PLUG DOWN - PSE UP LATCH IN PLUG
	0322							OK RELEASE PSE - HELD
								WASH TRUCK
	0430							JOB COMPLETE
								THANK YOU WAYNE, DUSTY, JEFF

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

TICKET No 14866

PAGE 1 OF 1

SERVICE LOCATIONS
 1. **Ness Co., Ks**
 2.
 3.
 4.
 REFERRAL LOCATION

WELL/PROJECT NO. **1-16**
 LEASE **DORIS**
 COUNTY/PARISH **LAWE**
 STATE **KS**
 CITY
 DATE **9-2-08**
 OWNER **SAME**

TICKET TYPE
 SERVICE
 SALES
 CONTRACTOR **FRITZLER TRUCKING**
 RIG NAME/NO.
 SHIPPED VIA **CT**
 DELIVERED TO **LOCATION**
 ORDER NO.

WELL TYPE **OIL**
 WELL CATEGORY **DEVELOPMENT**
 JOB PURPOSE **CEMENT PORT COLLAR**
 WELL PERMIT NO.
 WELL LOCATION **DIGHTON, KS - 7N, 2 1/2 E, SDTTO**

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 104	40		MZ		7.00	280.00
578		1			PUMP SERVICE	1		JOB	2103 FT	1400.00	1400.00
330		1			SWIFT MULTI-DISSET STANDARD	225		SKS		16.00	3600.00
276		1			FLOCELE	56		LBS		1.50	84.00
290		1			D-ADR	2		GAL		35.00	70.00
581		1			SERVICE CHARGE CEMENT	225		SKS		1.90	427.50
583		1			DRAYAGE	22326		LBS	446.52 TM	1.75	781.41

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

X *John Wause*
 DATE SIGNED **9-2-08** TIME SIGNED **1145** 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?				6642.91
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Lane TAX 5.3% 198.96
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL 6841.87

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-2-08 PAGE NO. 1

CUSTOMER **CARSON OPERATING** WELL NO. **1-16** LEASE **DORIS** JOB TYPE **CEMENT PORT COLLAR** TICKET NO. **14866**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1145							ON LOCATION
								CONFIDENTIAL DEC 0 8 2008 KCC
	1235				✓		1000	PRE TEST CEMENT - HELD
	1240	3	2	✓		500		OPEN PORT COLLAR - INT RATE
	1245	4	125	✓		450		MIX CEMENT 225 SMD 1/4" FLOCC P/SK = 11.2 PPG
	1320	4	7	✓		550		DISPLACE CEMENT
	1325			✓		1000		CLOSE PORT COLLAR - PRE TEST - HELD
								CIRCULATE 15 SKS CEMENT TO PRT
	1340	3 1/2	25	✓		450		RUN 4 JTS CIRCULATE CLEAN
								WASH TRUCK
	1400							JOB COMPLETE
								THANK YOU WAYNE, BRETT, DAVE
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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 Engineering, Inc.

Doris No. 1-16
737' FSL & 2310' FWL Sec. 16-17S-28W
Lane County, Kansas

CONTRACTOR:

H D Drilling, LLC

SPUDDED:

August 11, 2008

DRILLING COMPLETED:

August 24, 2008

SURFACE CASING:

8 5/8" @ 247 KBM/175 sx.

ELECTRIC LOGS:

Log-Tech DIL MEL CDN

ELEVATIONS:

2764 KB 2759 GL

FORMATION TOPS (Electric Log):

Anhydrite	2133 (+ 631)
Base Anhydrite	2152 (+ 612)
Heebner Shale	3917 (-1153)
Lansing-Kansas City Group	3954 (-1190)
Muncie Creek Shale	4117 (-1349)
Stark Shale	4216 (-1452)
Hushpuckney shale	4248 (-1481)
Base Kansas City	4291 (-1527)
Marmaton	4313 (-1549)
Altamont	4343 (-1579)
Pawnee	4406 (-1642)
Myrick Station	4430 (-1666)
Fort Scott	4462 (-1698)
Cherokee	4486 (-1722)
Mississippian	4553 (-1789)
Electric Log Total Depth	4652 (-1888)

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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.

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Lansing-Kansas City Zones:

3954-3978 (A Zone)

Limestone, buff, dense with cream chalky, trace of finely crystalline, zone is mostly tight with no shows of oil.

3986-3989 (B Zone)

Limestone, cream to buff, finely crystalline and chalky, partly oolitic, trace of poor to fair intercrystalline and oolitic porosity with scattered traces of dead oil stain, no shows of live oil.

4006-4033 (C-D Zone)

Limestone, buff to cream to light gray, dense and chalky with some "birdseye" dense lime, some scattered finely crystalline with light gray dense to sub-lithographic lime, zone is mostly tight and contained no shows of oil.

4036-4049 (E Zone)

Limestone, broken, cream to buff, finely crystalline and fossiliferous, some dense, fair to good intercrystalline and interfossil porosity, fair to good spotted stain, fair show of free oil, good odor, fair fluorescence, fair to good cut, some gray, opaque chert.

Drill Stem Test No. 1 4010-4041

Open 15 minutes, shut in 30 minutes, open 15 minutes, shut in 30 minutes; one-half inch blow on first flow period did not return on second flow period. Recovered five feet of mud with spots of oil. ISIP 57# FSIP 32# IFP 19-22# FFP 23-23# IHP 1918# FHP 1907# BHT 114 degrees.

4052-4054 (F Zone)

Limestone, cream to buff, dense to finely crystalline, mostly tight with traces of very poor intercrystalline porosity, trace of dead stain, no live oil shows, trace of gray chert.

4065-4075 (G Zone)

Limestone, buff, finely crystalline and oolitic, good oolitic porosity, no show of oil.

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4134-4137 (H Zone)

Limestone, buff, some tan, finely crystalline, slightly fossiliferous, poor scattered intercrystalline porosity, poor to fair spotted stain, very slight show of free oil, faint odor, no fluorescence, poor cut, trace of white to light gray, opaque chert.

4166-4172 (I Zone)

Limestone, buff to tan, some brown, finely crystalline, some medium crystalline, fair intercrystalline and vugular porosity, fair spotted stain, fair to good show of free oil, fair to good odor, fair fluorescence, fair cut.

Drill Stem Test No. 2 4106-4175

Open 15 minutes, shut in 30 minutes, open 30 minutes, shut in 60 minutes; 1 ½ inch blow on first flow period, built to six-inch blow on second flow period. Recovered 80 feet of gassy oil cut mud (5% gas, 7% oil, 88% mud). ISIP 796# FSIP 803# IFP 20-35# FFP 37-59# BHT 114 degrees.

4195-4206 (J Zone)

Limestone, buff, finely crystalline and coarsely oolitic, good ooliticastic porosity, fair to good spotted stain, some saturated stain, good show of free oil, good odor, fair fluorescence, good cut, porosity is 35-40% barren.

Drill Stem Test No. 3 4183-4203

Open 15 minutes, shut in 30 minutes, open 30 minutes, shut in 60 minutes. Blow off bottom of bucket in three minutes on first flow period, quarter-inch blowback in eight minutes, blow off bottom of bucket in three minutes on second flow, quarter-inch blowback in 12 minutes. Recovered 568 feet of gassy oil (10% gas, 90% oil), 124 feet of gassy oil cut mud (20% gas, 20% oil, 60% mud), 62 feet of gassy oil cut watery mud (25% gas, 5% oil, 10% water, 60% mud). ISIP 905# FSIP 898# IFP 49#-142# FFP 161#-285# IHP 2082# FHP 2019# BHT 124 degrees. Oil gravity = 38 degrees @ 100F

4225-4234 (K Zone)

Limestone, buff, some cream, finely crystalline and partly chalky, fair intercrystalline and vugular porosity, fair spotted stain, fair show of free oil, fair odor, poor fluorescence, fair cut, some light gray, partly oolitic chert.

4251-4291 (Middle Creek & L Zone)

This interval consisted of limestone, buff, dense to finely crystalline and partly fossiliferous, very poor to poor scattered intercrystalline porosity with dark to dead stain, trace of live oil stain and heavy, tarry free oil, rare trace of live free oil, faint to fair odor, no fluorescence, poor cut. Zone exhibits some white crystal overgrowth embedded in and attached to buff crystalline limestone fragments.

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4291-4313 (Pleasanton Zone)

Limestone, light gray to buff, dense to finely crystalline, rare trace of poor intercrystalline porosity with scattered poor light spotted stain, no free oil, no odor, no fluorescence, no cut.

4313-4343 (Marmaton Zones)

This interval contained a couple of thin porosity streaks around 4313-4316 and 4330-4333 composed of limestone, buff, finely crystalline and slightly fossiliferous, trace of poor intercrystalline porosity, scattered poor light spotted stain, very slight show of free oil, faint odor, no fluorescence, poor cut.

4343-4360 (Upper Altamont Zone)

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

4368-4402 (Lower Altamont Zone)

Limestone, cream to buff, dense to finely crystalline and partly chalky, partly fossiliferous, zone is mostly tight but contains a trace of very poor intercrystalline porosity with scattered poor spotted stain and very slight show of free oil, no odor, no fluorescence, no cut. Electric logs indicate zone is too tight to produce commercial quantities of oil.

4406-4426 (Pawnee Zones)

Limestone, buff to tan, dense to sub-lithographic, some scattered finely crystalline, some white to light gray, sub-translucent, fresh chert and some tan opaque chert. Zone is mostly tight with no shows of oil.

4438-4440 (Myrick Station Zone)

Limestone, buff to tan, dense with scattered finely crystalline, trace of very poor spotted stain on fracture faces on dense fragments, no free oil, no odor, no fluorescence, very poor cut.

4462-4486 (Fort Scott Zones)

Limestone, buff to tan, dense, some finely crystalline, faint odor, trace of spotted stain on fracture faces on dense fragments, very slight show of free oil, no fluorescence, poor cut. Lower portion is tan to brown "resinous" limestone, oolitic and finely crystalline, slightly

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fossiliferous, poor intercrystalline and interoolitic porosity, no show of oil, some scattered chert, tan, opaque.

4525-4549 (Johnson Zone)

Limestone, buff to tan, dense to finely crystalline, partly oolitic, some tan oolitic with black oolites, trace of poor intercrystalline and interoolitic porosity, trace of poor spotted stain, no free oil, no odor, no fluorescence, no cut.

4549-4553 (Detrital Zone)

Chert, white to light gray, sub-translucent, mostly fresh, with trace scattered varicolored chert. No show of oil.

4553-4565 (Mississippian Zones)

Limestone, buff, dense to finely crystalline, some cream chalky, some white soft and brittle limestone, tight, no show of oil.

4565-4580

Dolomite, buff to tan, finely crystalline, some medium crystalline, scattered poor intercrystalline porosity, very top portion contains a rare trace of spotted stain with very slight show of free oil, no odor, no fluorescence, very poor cut.

4580-4611

Dolomite and dolomitic limestone, cream to buff to tan, finely crystalline with scattered chalky, mostly tight with a trace of very poor intercrystalline porosity, no show of oil.

4611-4650

Dolomite, tan, medium crystalline, partly oolitic, some tan with dark gray oolites, scattered gilsonite in part, some dark greenish gray shale flake inclusions in dolomite fragments, interval is mostly tight with scattered streaks of very poor intercrystalline porosity and no shows of oil.

Rotary Total Depth 4650

Conclusions and Recommendations:

Perforate: Marmaton 4331-4333; Marmaton 4313-4315; Lansing "K" 4225-4227; Lansing "J" 4196-4201; Lansing "I" 4170-4172; Lansing "H" 4136-4138.

Respectfully submitted,

Robert C. Lewellyn, Petroleum Geologist KANSAS CORPORATION COMMISSION

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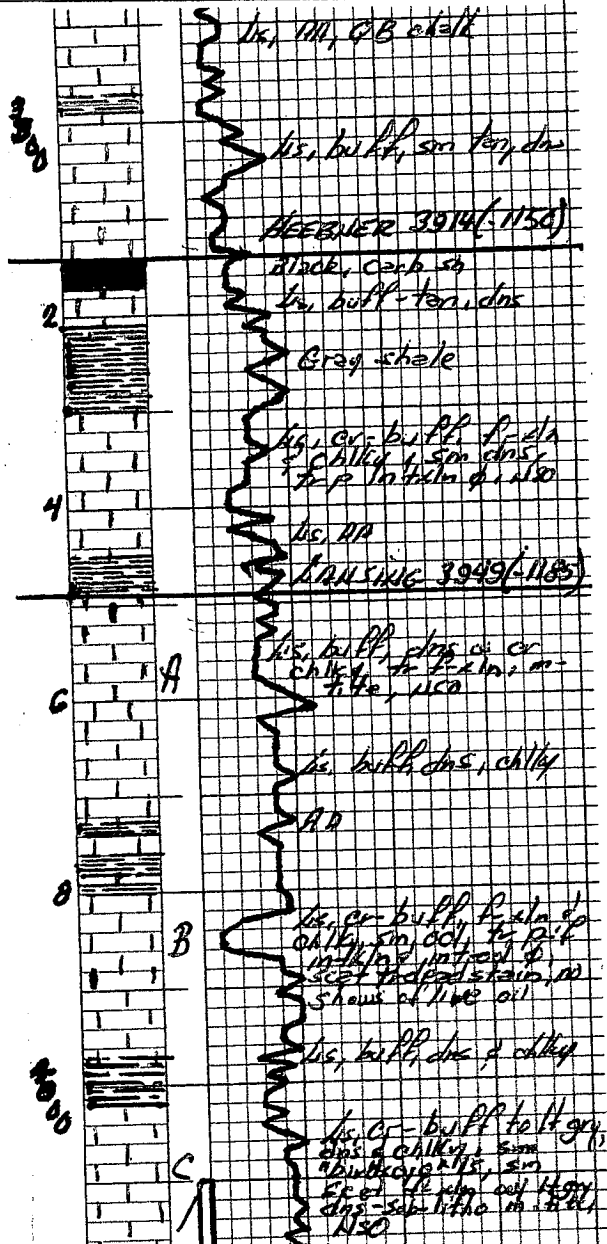
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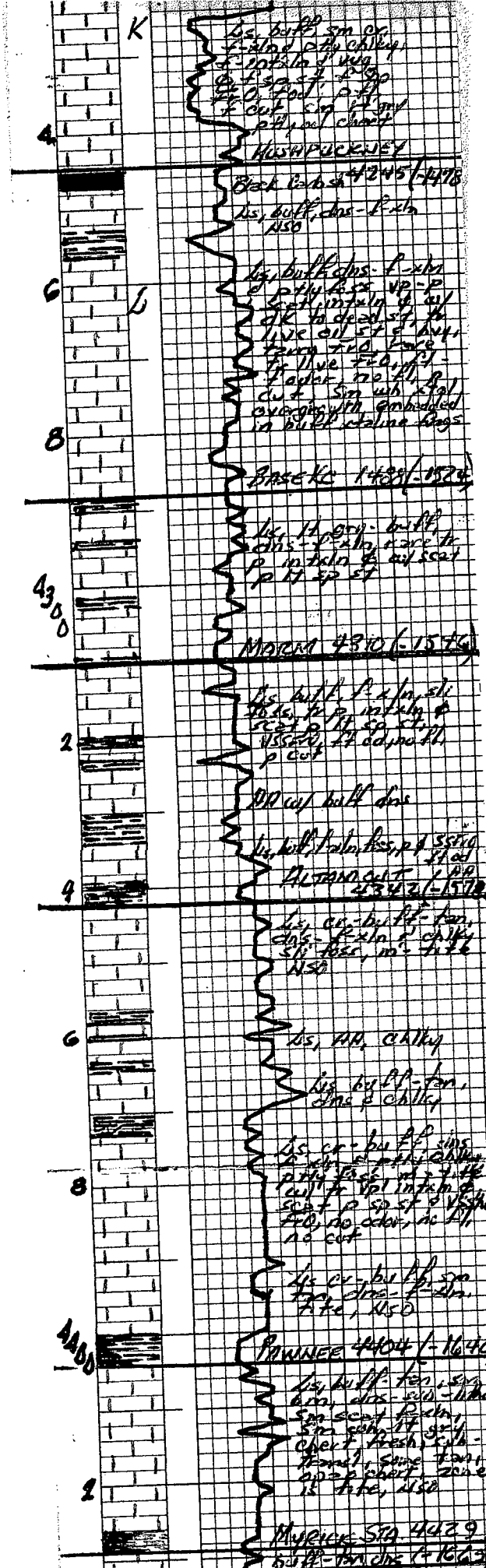
STATE **KANSAS** COMPANY **LARON ENGINEERING INC.**
 COUNTY **LANE** FARM **Doris** WELL NO. **1-16**
 BLOCK **737 FSL & 2310 FWL** SURVEY
 SEC. **16** **S/2 NE SE SW**
 T. **17S** R. **28W** TOTAL DEPTH **4650**
 CONTRACTOR **H D Drilling**
 COMMENCED **08-11-08**
 COMPLETED **08-24-08**
 ALTITUDE **2764 KB**
 PRODUCTION **Oil** REMARKS **Robert C. Irwinella - Gen**
CASING RECORD
8 5/8" @ 247' KBM / 175.5x

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TIME RATE SCALE: 1/10" = MINUTES
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