

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

2/3/12

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 # 5822

Name: VAL ENERGY, INC

Wellsite Geologist: ROBERT LEWELLYN

Purchaser: NCRA

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil SWD SLOW
- Gas ENHR SIGW
- CM (Coal Bed Methane) Temp. Abd.
- Dry Other

(Core, W/SW, 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. _____

10/12/2009 10/26/2009 1/1/2010

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 171-20734-00-00

Spot Description: _____

N2 - SE - NE - NE Sec. 22 Twp. 17 S. R. 31 East West

750 feet from NORTH Line of Section

330 feet from EAST Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: SCOTT

Lease Name: DONNA Well #: 1-22

Field Name: WILDCAT

Producing Formation: CHEROKEE, MARMATON, L-KC

Elevation: Ground: 2919' Kelly Bushing: 2924'

Total Depth: 4653' Plug Back Total Depth: 4605'

Amount of Surface Pipe Set and Cemented at: 258 Feet

Multiple State Cementing Collar Used? Yes No

If yes, show depth set: 2172 Feet

If Alternate II completion, cement circulated from: 2172

feet depth to: SURFACE w/ 195 sx cmt.

Drilling Fluid Management Plan NJ 2-11-10 AH77
(Data must be collected from the Reserve Pit)

Chloride content: 2500 ppm Fluid volume: 800 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 Larson

Title: SECRETARY/TREASURER Date: 2/3/2010

Subscribed and sworn to before me this 3RD day of FEBRUARY

2010

Notary Public: Debra J. Ludwig

Date Commission Expires: MAY 5, 2012

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

KCC Office Use ONLY

Letter of Confidentiality Received

If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

Side Two

Operator Name: LARSON ENGINEERING, INC. Lease Name: DONNA Well #: 1-22

Sec. 22 Twp. 17 S. R. 31 East West County: SCOTT

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;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr><td>ANHYDRITE</td><td>2244</td><td>+680</td></tr> <tr><td>BASE ANHYDRITE</td><td>2304</td><td>+620</td></tr> <tr><td>HEEBNER SHALE</td><td>3897</td><td>-973</td></tr> <tr><td>LANSING-KC GROUP</td><td>3937</td><td>-1013</td></tr> <tr><td>STARK SHALE</td><td>4213</td><td>-1289</td></tr> <tr><td>BASE KANSAS CITY</td><td>4294</td><td>-1370</td></tr> <tr><td>ALTAMONT</td><td>4344</td><td>-1420</td></tr> <tr><td>PAWNEE</td><td>4413</td><td>-1489</td></tr> <tr><td>FORT SCOTT</td><td>4463</td><td>-1539</td></tr> <tr><td>CHEROKEE</td><td>4487</td><td>-1563</td></tr> <tr><td>MISSISSIPPIAN</td><td>4558</td><td>-1634</td></tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	2244	+680	BASE ANHYDRITE	2304	+620	HEEBNER SHALE	3897	-973	LANSING-KC GROUP	3937	-1013	STARK SHALE	4213	-1289	BASE KANSAS CITY	4294	-1370	ALTAMONT	4344	-1420	PAWNEE	4413	-1489	FORT SCOTT	4463	-1539	CHEROKEE	4487	-1563	MISSISSIPPIAN	4558	-1634
Name	Top	Datum																																			
ANHYDRITE	2244	+680																																			
BASE ANHYDRITE	2304	+620																																			
HEEBNER SHALE	3897	-973																																			
LANSING-KC GROUP	3937	-1013																																			
STARK SHALE	4213	-1289																																			
BASE KANSAS CITY	4294	-1370																																			
ALTAMONT	4344	-1420																																			
PAWNEE	4413	-1489																																			
FORT SCOTT	4463	-1539																																			
CHEROKEE	4487	-1563																																			
MISSISSIPPIAN	4558	-1634																																			

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#	258'	CLASS A	175	2% GEL, 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5#	4652'	SMD	100	1/4#/SK FLOCELE
					EA-2	100	7#/SK GILSONITE, 1/2% 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	SURF	2172'	SMD	195	1/4#/SK FLOCELE
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

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	4538-41, 4366-68, 4334-36, 4273-76	250 GAL 15% NEFe	4538-41
		250 GAL 15% MCA	4366-68
		250 GAL 15% MCA	4334-36
		250 GAL 15% MCA	4273-76
		SQZ: 75 SX CLASS A	4273-76

TUBING RECORD:	Size: <u>2-3/8"</u>	Set At: <u>4603'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <u>1/1/10</u>		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 <u>54</u> Bbls.	Gas <u>0</u> Mcf	Water <u>0</u> Bbls.	Gas-Oil Ratio
				Gravity

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	PRODUCTION INTERVAL: <u>4334 - 4541 OA</u>
--	---	---



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

TICKET No. 16756

PAGE 1 OF 2

SERVICE LOCATIONS: 1. Hayes, Ks. 2. Ness City, Ks.

WELL/PROJECT NO. #1-22 LEASE D-0019 COUNTY/PARISH Scott STATE Ks CITY _____ DATE 10-26-09 OWNER Same

TICKET TYPE SERVICE SALES CONTRACTOR Val Energy #8 RIG NAME/NO. _____ SHIPPED VIA CT DELIVERED TO Location ORDER NO. _____

WELL TYPE oil WELL CATEGORY Development JOB PURPOSE Longstring WELL PERMIT NO. _____ WELL LOCATION _____

REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #111	60	mi			5.00	300.00
578		1			Pump Charge (Longstring	1	ea	4652	'	1400.00	1400.00
221		1			KCC	2	gal			25.00	50.00
281		1			Mud/Flush	500	gal			1.00	500.00
290		1			D-Air	3	gal			35.00	105.00
420		1			Derrick Connection	1	ea			500.00	500.00

RECEIVED
FEB 15 2010
KCC MICHITA

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 [Signature]
 DATE SIGNED 10-26-09 TIME SIGNED _____ 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 1	2855.00
WE UNDERSTOOD AND MET YOUR NEEDS?				page 2	515.50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	2370.50 7970.50
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Scott TAX 6.3%	323.51
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	8294.01
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					



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

TICKET CONTINUATION

TICKET No. 16756

CUSTOMER *Larson Engineering* WELL # *1-22 Donna* DATE *10-26-09* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			U/M	U/M					
<i>325</i>		<i>2</i>				<i>Standard Cement</i>	<i>100</i>	<i>sk</i>			<i>11.00</i>	<i>1100.00</i>	
<i>330</i>		<i>2</i>				<i>SMD Cement</i>	<i>150</i>	<i>sk</i>			<i>14.00</i>	<i>2100.00</i>	
<i>276</i>		<i>2</i>				<i>Flecco</i>	<i>50</i>	<i>#</i>			<i>1.50</i>	<i>75.00</i>	
<i>283</i>		<i>2</i>				<i>Salt</i>	<i>500</i>	<i>#</i>			<i>.15</i>	<i>75.00</i>	
<i>284</i>		<i>2</i>				<i>Calseal</i>	<i>5</i>	<i>sk</i>			<i>30.00</i>	<i>150.00</i>	
<i>285</i>		<i>2</i>				<i>CFR-1</i>	<i>50</i>	<i>#</i>			<i>4.00</i>	<i>200.00</i>	
<i>277</i>		<i>2</i>				<i>Gilsonite</i>	<i>700</i>	<i>#</i>			<i>.40</i>	<i>280.00</i>	
<i>581</i>		<i>2</i>				SERVICE CHARGE					<i>1.50</i>	<i>375.00</i>	
<i>583</i>		<i>2</i>				MILEAGE CHARGE					<i>1.00</i>	<i>760.50</i>	
						TOTAL WEIGHT	<i>27564</i>						
						LOADED MILES	<i>60</i>						
						TON MILES	<i>760.5</i>						

CONTINUATION TOTAL *5115*
~~*4975*~~ *50*



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

TICKET
17252

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Ness City KS</u>	WELL/PROJECT NO. <u>1-22</u>	LEASE <u>Donna</u>	COUNTY/PARISH <u>Scott</u>	STATE <u>KS</u>	CITY <u>Ness City</u>	DATE <u>11-5-09</u>	OWNER
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Wild West Well Service</u>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO <u>Manning</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement Port Collar</u>	WELL PERMIT NO.	WELL LOCATION <u>Manning IN West</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE Trk# 114	50		mi		5.00	250.00
576.0		1			Pump Charge Port Collar	1		lea		1100.00	1100.00
581		1			Service Charge Cement	225		sk		1.50	337.50
583		1			Drayage	558		TM		1.00	558.00
330		1			Swift Multi-Density Standard	190		sk		14.00	2660.00
276		1			Flocele	50		lbs		1.50	75.00
290		1			D-Air	2		gal		35.00	70.00

RECEIVED
 FEB 05 2010
 MCC 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

B. Blab
 DATE SIGNED 11-5-09 TIME SIGNED 0900 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	5050.50
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	5227.22

Scott
 TAX
 @ 6.37% 176.72

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

SWIFT OPERATOR Brett Corseir APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11-5-09 PAGE NO.

CUSTOMER Larson Engineering WELL NO. 1-22 LEASE Donna JOB TYPE Cement Port Colkr TICKET NO. 17252

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							On Location PC@ 2172' 2 3/8 x 5 1/2
	0915				✓		1000	Pressure Test - Held
	0920	3 1/4		✓		600		Open Tool Injection - Rate
	0925	3 1/4		✓		600		Start Cement 11.2 ppg
		4	94	✓		500		Cement to Surface - Cement 14.0 ppg 190s lbs Total - 20s lbs to pit
			100	✓		300		Shut Down Start Displacement
		4	7.5			250		Shut Down - Shut in
	0955			✓		1000		Close Tool - Pressure Test - Held Run 4 JTs
	1005		25	✓				Reverse Clean Wash Truck
	1030							Job Complete Thank you Brett, Dave & Jason

Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 375
Keechi, KS 67067-0375
Office 316-744-2567
Cell 316-518-0495
bobblewellyn@yahoo.com

GEOLOGICAL REPORT

Larson Engineering, Inc.

Donna No. 1-22
750' FNL & 330' FEL Sec. 22-17S-31W
Scott County, Kansas

CONTRACTOR:	Val Drilling, Inc., Rig No. 4
SPUDDED:	October 12, 2009
DRILLING COMPLETED:	October 25, 2009
SURFACE CASING:	8 5/8" @ 258 KBM/175 sx,
ELECTRIC LOGS:	Log-Tech DIL CNL/CDL MEL
ELEVATIONS:	2924 KB 2919 GL

FORMATION TOPS (Electric Log):

Anhydrite	2244 (+ 680)
Base Anhydrite	2304 (+ 620)
Heebner Shale	3897 (- 973)
Lansing-Kansas City Group	3937 (-1013)
Muncie Creek Shale	4122 (-1198)
Stark Shale	4213 (-1289)
Hushpuckney shale	4253 (-1329)
Base Kansas City	4294 (-1370)
Altamont	4344 (-1420)
Pawnee	4413 (-1489)
Myrick Station	4443 (-1519)
Fort Scott	4463 (-1539)
Cherokee	4487 (-1563)
Mississippian	4558 (-1634)
Electric Log Total Depth	4653 (-1729)

Samples were examined microscopically from 3600 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.

Toronto Zones:

3912-3916

Limestone, cream to buff, finely crystalline, partly chalky, fair to good intercrystalline and vugular porosity, good spotted stain, some saturated stain, good show of free oil, good odor, fair fluorescence, good cut.

Drill Stem Test No. 1 3890-3915

15-30-30-60; one-inch blow throughout first flow, no blowback, one-inch blow on second flow, no blowback; recovered 65 feet of mud cut water (75% water, 25% mud) with oil spots on top; ISIP 1068# FSIP 1073# IFP 18-35# FFP 38-63# IHP 1913# FHP 1859# BHT 115 degrees.

Lansing-Kansas City Zones:

3937-3950 (A Zone)

Limestone, cream to buff, dense to finely crystalline and chalky, scattered poor to fair intercrystalline porosity, some dead stain, rare trace of scattered poor live stain, no free oil, no odor, no fluorescence, no cut.

3975-3986 (B Zone)

Limestone, cream to buff, fine to medium crystalline, slightly fossiliferous, slight chalky, fair to good intercrystalline and scattered vugular porosity, good spotted stain, trace of saturated stain, good show of free oil, good odor, fair fluorescence, good cut, some buff, partly rhombic large crystal overgrowth in some fragments.

Drill Stem Test No. 2 3958-3986

15-30-30-60; 3 ¼ inch blow on first flow, no blowback, 5 inch blow on second flow, no blowback; recovered 120 feet of mud cut water (80% water, 20% mud) with oil spots on top. ISIP 925# FSIP 861# IFP 20-36# FFP 39-65# IHP 1926# FHP 1837# BHT 122 degrees.

3989-4022 (C/D Zone)

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

4028-4037 (E Zone)

Limestone, buff, fine to medium crystalline, slightly oolitic, slightly fossiliferous, fair to good intercrystalline and scattered vugular porosity, fair spotted stain, trace of saturated stain, fair to good show of free oil, good odor, fair fluorescence, good cut.

4042-4046 (F Zone)

Limestone, cream to buff, dense to finely crystalline, scattered fair intercrystalline and scattered vugular porosity, fair spotted stain, slight show of free oil, fair to good odor, poor to fair fluorescence, fair to good cut. Much white, opaque, fresh chert with trace of light gray chert and trace of tripolitic chert with poor vugular porosity and show of oil as above.

Drill Stem Test No. 3 4016-4046

15-30-30-60; three-inch blow on first flow, no blowback, 2 ¾ inch blow on second flow, no blowback; recovered five feet of free oil and 90 feet of mud cut water (85% water, 15% mud); ISIP 1056# FSIP 1055# IFP 20-36# FFP 38-64# IHP 1954# FHP 1021# BHT 112 degrees.

4076-4086 (G Zone)

Limestone, cream to buff, dense, finely crystalline and chalky, partly oolitic, poor to fair intercrystalline, interoolitic and scattered ooliticastic porosity, no show of oil.

4126-4134 (H Zone)

Limestone, buff to tan, dense to finely crystalline, fair intercrystalline porosity, poor to fair small vug porosity on edge of fragments, fair spotted stain, fair show of free oil, good odor, fair fluorescence, good cut.

Drill Stem Test No. 4 4116-4140

15-30-15-30; ¾" blow on first flow, no blowback, ½" blow on second flow, no blowback; recovered six inches of free oil and 40 feet of mud cut water (75% water, 25% mud); ISIP 1082# FSIP 1082# IFP 13-27# FFP 29-39# IHP 2012# FHP 1974# BHT 118 degrees.

4158-4180 (I Zone)

Limestone, cream to buff, dense to finely crystalline, some chalky, slightly fossiliferous, trace of poor intercrystalline porosity, trace of very poor scattered spotted stain, no free oil, faint fleeting odor, no fluorescence, no cut. Lower portion becomes brown to mottled dense limestone with trace of very poor spotted stain on fracture faces, some dead stain, no free oil, no odor, no fluorescence, no cut.

4195-4213 (J Zone)

Limestone, tan to brown, dense to finely crystalline, slightly fossiliferous, scattered poor interfossil and intercrystalline porosity, trace of very poor spotted stain, very slight trace of free oil, no odor, no fluorescence, no cut.

4216-4238 (K Zone)

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

Drill Stem Test No. 5

4205-4237

15-30-30-60; 2 ½" blow on first flow, no blowback, 3 ¾" blow on second flow, no blowback; recovered 80 feet of mud cut water (70% water, 30 % mud) with oil spots on top. ISIP 952# FSIP 941# IFP 16-30# FFP 32-55# IHP 2036# FHP 2012# BHT 123 degrees.

4256-4261 (Middle Creek Zone)

Limestone, tan to brown to dark brown, dense to finely crystalline, slightly fossiliferous, scattered fair intercrystalline and small vug porosity, fair spotted stain, good show of free oil, fair odor, fair fluorescence, fair to good cut, some black, opaque chert from Hushpuckney section.

4266-4276 (L Zone)

Limestone, cream to buff, some tan, dense to finely crystalline, fossiliferous in part, scattered poor to fair intercrystalline and interfossil porosity with poor to fair spotted stain, fair show of free oil, fair odor, fair fluorescence, fair cut, small trace of rhombic calcite crystal overgrowth,

Drill Stem Test No. 6

4248-4267

15-30-30-60; blow off bottom of bucket in 1 ½" of first flow, blowback built to five inches, blow off bottom of bucket in one minute of second flow, blowback built to six inches; recovered 640 feet of gas in drill pipe and 1840 feet of fluid as follows: 228 feet of clean gassy oil (20% gas, 80% oil), 1488 feet of clean gassy oil (20% gas, 80% oil, reversed out), and 124 feet of mud cut gassy oil (no breakdown), no water. ISIP 941# FSIP 927# IFP 98-334# FFP 344-668# IHP 2062# FHP 2024# BHT 132 degrees.

4294-4332 (Pleasanton Zone)

Limestone, gray to buff, fine to medium crystalline, some scattered coarsely crystalline, partly fossiliferous, some buff finely crystalline friable limestone with fair small vug and intercrystalline porosity, fair spotted stain, show of free oil, faint to fair odor, poor fluorescence, fair cut.

4332-4338 (Lenapah Zone)

Limestone, buff to tan and brown, some mottled, dense, some scattered finely crystalline with very poor intercrystalline porosity, rare trace of poor spotted stain, very slight show of free oil, no odor, no fluorescence, no cut.

4352-4355 & 4366-4369 (Altamont Zone)

Limestone, buff to tan, fine to medium crystalline, partly fossiliferous, fair to good intercrystalline porosity with scattered fair interfossil porosity, fair to good spotted stain, good show of free oil, fair odor, fair fluorescence, fair cut.

Drill Stem Test No. 7

4280-4370

15-30-45-90; 2 ½" blow on first flow, no blowback, 2 ½" blow on second flow, no blowback; recovered five feet of free oil and 70 feet of oil cut mud (30% oil, 70% mud). ISIP 792# FSIP 618# IFP 15-25# FFP 30-45# IHP 2079# FHP 1075# BHT 123 degrees.

The lower Altamont section consisted of limestones, buff to tan, dense to finely crystalline with some cream chalky, trace of scattered very poor intercrystalline porosity, trace of poor scattered stain, no free no odor, no fluorescence, no cut.

4420-4428 (Pawnee Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, some partly fossiliferous, partly chalky, scattered cream fine to medium crystalline limestone with poor vugular and intercrystalline porosity, scattered poor to fair spotted stain, some dead stain, very slight show of free oil, faint fleeting odor, poor fluorescence, poor cut.

4443-4460 (Myrick Station Zone)

Limestone, tan to brown, trace of mottled, dense with scattered finely crystalline, zone is mostly tight with very poor scattered spotted stain, trace of dead stain, no free oil, no odor, no fluorescence and no cut.

4463-4487 (Fort Scott Zone)

Limestone, tan to brown, dense to finely crystalline, some buff oolitic with dark gray oolites, some dense-oolitic, zone is mostly tight with trace of poor spotted stain, very slight show of free oil, no odor, no fluorescence, poor cut. Lower portion is limestone, tan to brown, finely crystalline and oolitic, zone is mostly tight with trace of poor spotted stain, no free oil, no odor, no fluorescence, no cut.

4538-4542 (Johnson Zone)

Limestone, brown, some mottled, dense to finely crystalline, slightly fossiliferous, slightly oolitic, scattered fair vugular and intercrystalline porosity, fair spotted stain, fair show of free oil, fair odor, fair fluorescence and good cut.

Detrital Zone (4551-4558)

Sand, light grey, very fine grained, well cemented, well sorted, hard, tight, scattered poor stain with dark tarry to dead stain, very slight show of free oil, faint odor, poor fluorescence, poor cut.

Drill Stem Test No. 8 4483-4555

15-30-30-60; blow off bottom of bucket in 15 minutes, no blowback, blow off bottom of bucket in four minutes, no blowback; recovered 950 feet of gas in drill pipe, 70 feet of gassy oil cut mud (10% gas, 15% oil, 75% mud). ISIP 1027# FSIP 1097# IFP 20-28# FFP 38-53# IHP 2201# FHP 2085# BHT 122 degrees.

4558-4597 (Mississippian Zone)

Limestone, cream to buff, finely crystalline and partly chalky, scattered finely oolitic with poor intercrystalline and scattered poor ooliticastic porosity, some scattered buff dolomitic limestone, tight, no shows of oil in section.

4597-4627

Dolomite, tan, medium crystalline, trace of sucrosic, zone is mostly tight with no shows of oil, some scattered medium grey chert, fresh, opaque to sub-translucent.

4627-4650 (Rotary Total Depth)

Limestone, dolomitic, tan, some brown to mottled, dense to finely crystalline, some medium crystalline, some brown dolomite inclusions, trace of finely oolitic, zone is mostly tight, no show of oil.

Conclusions and Recommendations:

Casing was cemented in the No. 1-22 Donna. Numerous zones appear to have the possibility of commercial production. The well should be completed with treatment as necessary to facilitate production as per Tom Larson.

Respectfully submitted,

Robert C. Lewellyn
Petroleum Geologist

RCL:me

STATE KANSAS	COMPANY LARSON ENGINEERING INC.
COUNTY SCOTT	FARM DOMM 13
BLOCK 22	WELL NO. 1-22
SEC. 22	SURVEY 750' FNL & 330' FEL
T 175	R 31W
TOTAL DEPTH 4650	
CONTRACTOR Val Drlg. Rig # 4	
COMMENCED 10-12-09	
COMPLETED 10-25-09	
REMARKS	
ALTIMETER 1924 KB	
PRODUCTION Oil	
CASING RECORD Robert C. Jamellun - Geologist	
8 5/8" @ 258/KBM - 175 sx	
SHOT	QUARTS
BETWEEN	



