

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

OPERATOR: License # 3842
Name: LARSON ENGINEERING, INC.
Address 1: 562 WEST STATE ROAD 4
Address 2: _____
City: OLMITZ State: KS Zip: 67564 + 8561
Contact Person: TOM LARSON
Phone: (620) 653-7368
CONTRACTOR: License # 33935
Name: HD DRILLING, LLC
Wellsite Geologist: TOM LARSON
Purchaser: _____

Designate Type of Completion:
____ New Well Re-Entry _____ Workover
____ Oil SWD _____ SLOW
____ Gas _____ ENHR _____ SIGW
____ CM (Coal Bed Methane) _____ Temp. Abd.
____ Dry _____ Other _____
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:
Operator: CONTINENTAL OIL COMPANY
Well Name: ARMANTROUT #1
Original Comp. Date: 12/17/1951 Original Total Depth: 5152'
 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. D30437
12/21/2009 3/28/2010 4/30/2010
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 101-30060-00-02
Spot Description: _____
____ - SW - SW - SW Sec. 21 Twp. 18 S. R. 30 East West
____ 330 feet from South Line of Section
____ 330 feet from West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: LANE
Lease Name: STEELE Well #: 1 SWD
Field Name: COWDERY
Producing Formation: ARBUCKLE SWD
Elevation: Ground: 2878' Kelly Bushing: 2890'
Total Depth: 5220' Plug Back Total Depth: 5220'
Amount of Surface Pipe Set and Cemented at: 1792 Feet
Multiple State Cementing Collar Used? Yes No
If yes, show depth set: 2488 Feet
If Alternate II completion, cement circulated from: 2488
feet depth to: SURFACE w/ 300 ^{sq/ft.}
100-DG - 5/5/10

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 13,000 ppm Fluid volume: 200 bbls
Dewatering method used: ALLOW 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: 5/3/2010
Subscribed and sworn to before me this 3RD day of MAY,
2010.
Notary Public: Debra J Ludwig
Date Commission Expires: MAY 5, 2012


KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: _____

Wireline Log Received
____ Geologist Report Received

UIC Distribution

RECEIVED
KANSAS CORPORATION COMMISSION
MAY 04 2010

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

CONSERVATION DIVISION
WICHITA, KS

Side Two

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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: <u>SONIC CEMENT BOND LOG</u>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>HEEBNER</td> <td>3902'</td> <td>-1012'</td> </tr> <tr> <td>LANSING</td> <td>3946'</td> <td>-1056'</td> </tr> <tr> <td>MUNCIE CREEK SH</td> <td>4126'</td> <td>-1236'</td> </tr> <tr> <td>STARK SH</td> <td>4225'</td> <td>-1335'</td> </tr> <tr> <td>ALTAMONT</td> <td>4354'</td> <td>-1464'</td> </tr> <tr> <td>FT SCOTT</td> <td>4479'</td> <td>-1589'</td> </tr> <tr> <td>CHER SH</td> <td>4500'</td> <td>-1610'</td> </tr> <tr> <td>MISS</td> <td>4597'</td> <td>-1707'</td> </tr> <tr> <td>ARBUCKLE</td> <td>5122'</td> <td>-2232'</td> </tr> <tr> <td>TD</td> <td>5220'</td> <td></td> </tr> </table>	Name	Top	Datum	HEEBNER	3902'	-1012'	LANSING	3946'	-1056'	MUNCIE CREEK SH	4126'	-1236'	STARK SH	4225'	-1335'	ALTAMONT	4354'	-1464'	FT SCOTT	4479'	-1589'	CHER SH	4500'	-1610'	MISS	4597'	-1707'	ARBUCKLE	5122'	-2232'	TD	5220'	
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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
CONDUCTOR		16		355'	UNKNOWN	350	UNKNOWN - PREVIOUS OPERATOR
SURFACE		9-5/8		1792'	UNKNOWN	750	UNKNOWN - PREVIOUS OPERATOR
PRODUCTION	7-7/8"	5-1/2	15.5	5121'	EA-2	125	5# GILS, 1/4# FLOCELE, 3/4% CFR

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input checked="" type="checkbox"/> Perforate					
<input checked="" type="checkbox"/> Protect Casing	4528	4530	SMD	150	1/4# FLOCELE
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone	2488	2490	SMD	300	1/4# FLOCELE

Shots per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid. Fracture, Shot, Cement, Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
	OPEN HOLE 5121-5220'		2500 GAL 28% RECEIVED KANSAS CORPORATION COMMISSION	5121-5220'
			MAY 04 2010	
			CONSERVATION DIVISION WICHITA, KS	

TUBING RECORD:	Size: <u>2-3/8"</u>	Set At: <u>5093'</u>	Packer At: <u>5093'</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method:		
		<input type="checkbox"/> Flowing <input 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

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 checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	PRODUCTION INTERVAL: <u>5121-5220'</u> DISPOSAL
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CHARGE TO: Larson Engineering
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
18447

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Ness City KS</u>	WELL/PROJECT NO. <u>SWD</u>	LEASE <u>Steele</u>	COUNTY/PARISH <u>Lane</u>	STATE <u>KS</u>	CITY <u>Ness City</u>	DATE <u>4-12-10</u>	OWNER
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input checked="" type="checkbox"/> SALES	CONTRACTOR <u>Wild West Well Service</u>	RIG NAME/NO. <u>1</u>	SHIPPED VIA	DELIVERED TO <u>Amy</u>	ORDER NO.	
3.	WELL TYPE <u>Disposal</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement Top Stage</u>	WELL PERMIT NO.		WELL LOCATION <u>Amy 2w 15 & info</u>	
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 Trk #114	40	mi			5 ⁰⁰	200 ⁰⁰
5760		1			Pump Charge Port Coller	1	ec			1100 ⁰⁰	1100 ⁰⁰
581		1			Service Charge Cement	300	sk			1 ⁵⁰	450 ⁰⁰
583		1			Drayage	599.10	TM			1 ⁰⁰	599 ¹⁰
330		1			Swift Multi-Density Standard	300	sk			15 ⁰⁰	4500 ⁰⁰
276		1			Flocele	75	lb			1 ⁵⁰	112 ⁵⁰
290		1			D-Air	3	gal			35 ⁰⁰	105 ⁰⁰
RECEIVED KANSAS CORPORATION COMMISSION MAY 04 2010 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 John Davidson
 DATE SIGNED 4-12-10 TIME SIGNED 1200 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	7066	60
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?				Lane TAX 5.3%	250	03
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL	7316	63
<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 Brett Corsair APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 4-12-10 PAGE NO.

CUSTOMER Larson Engineering WELL NO. SWD LEASE Steele JOB TYPE Cement Top Stage TICKET NO. 18447

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							On Location 2 7/8 x 5 1/2 PC at 2484'
	1400			✓			1000	Pressure Test - Held
	1405	3		✓		300		Injection Rate - Open Tool
	1410	3		✓		300		Start Cement 11.2 ppg
		3 1/2	155	✓		300		Cement to Surface 300cks Total 20cks to pit
			166	✓				Shut Down - Start Displacement
	1530		9			200		Shut Down - Shut in
								Close Tool
	1535			✓		1000		Pressure Test - Held
								Run 4 Jts
	1545		20	✓				Reverse Clean
								Wash Truck
	1600							Job Complete
								Thank you Brett, Dave + Lane

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MAY 04 2010

CONSE
WICHITA



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

TICKET
18470

PAGE 1 OF 2

SERVICE LOCATIONS:
 1. Hays, Ks.
 2. Ness City, Ks.
 3.
 4.

WELL/PROJECT NO. #1 SWD LEASE Steele COUNTY/PARISH Lane STATE Ks CITY
 DATE 3-29-10 OWNER same

TICKET TYPE SERVICE SALES CONTRACTOR H-D Dr-ly RIG NAME/NO. SHIPPED VIA ET Location DELIVERED TO
 ORDER NO.

WELL TYPE SWD WELL CATEGORY Development JOB PURPOSE 2-stage 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	45	mi			5.00	225	00
579		1			Pump Charge (2-stage)	1	ea	5220	'	1750.00	1750	00
580		1			Additional Hours	3	hrs			200.00	600	00
221		1			KCL	4	gal			25.00	100	00
281		1			Mud flush	500	gal			1.00	500	00
290		1			D-Air	3	gal			35.00	105	00

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 KANSAS CORPORATION COMMISSION
 MAY 04 2010
 CONSERVATION DIVISION
 WICHITA, KS

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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 3-29-10 TIME SIGNED 1020 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	3280.00
WE UNDERSTOOD AND MET YOUR NEEDS?				page 2	5536.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	8816.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Lane TAX 5.3%	266.99
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	9082.99
<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 Mark Horbe APPROVAL
 Thank You!



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

TICKET CONTINUATION

TICKET No. 18470

CUSTOMER *Larson Engineering* WELL *Steele #1 SUD* DATE *3-29-10* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M			
325		2				Standard Cement	125	shs			11.00	1375	00
330		2				SMD Cement	150	shs			14.00	2100	00
276		2				Floccle	75	#			1.50	112	50
283		2				Salt	200	#			.15	105	00
284		2				Calseal	6	shs			30.00	180	00
285		2				CFR-1	50	#			4.00	200	00
277		2				Coal Seal	650				.40	260	00
581		2				SERVICE CHARGE						375	
583		2				MILEAGE CHARGE						1.50	562.50
						TOTAL WEIGHT	28489					1.00	641.00
						LOADED MILES	43						
						TON MILES			641				

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CONSERVATION DIVISION
WICHITA, KS

CONTINUATION TOTAL 5536.50

JOB LOG

SWIFT Services, Inc.

DATE 3-29-10 PAGE NO. 1

CUSTOMER *Larsen Engineering* WELL NO. *01 SWD* LEASE *Steele* JOB TYPE *2-Stage* TICKET NO. *18470*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0030							an loc spot Trks
								RTD 5220'
								5 1/2" x 15.5 # x
								Cent
								Baskets
								D.V.
								P.C.
	0045							Start F.E.
	0315							Break Circulation / set Trip ⁰⁴⁴⁵ plus shoe 1200'
	0500	4	0			300		Start Preflushes ^{500 gal} Mud flush
	0508	6	32/0			350		20 bbl KCK flush
	0513		30					Start Cement 125 sks EA-2 148'
								End Cement
								Wash P&L
								Drop L.D. Plug
	0516	6.5	0			300		Start Displacement w/ mud
	0519	6.5	18			300		
	0532	5	104			350		Catch Cement
	0536		121			650 / 1200		Land Plug
								Release Pressure / Float Held
	0538							Drop Opening Plug
	0600					1300		Open D.V. / Circ. 3 hrs
	0900	2.5	7					Plug RH 1200 25 sks SMD
	0905	4	0			300		Start KCK flush 20 bbl
	0910	5	20/0			350		Start Cement 125 sks SMD 12'
	0920		57					End Cement
								Drop Closing Plug / Run out of water switch to mud
	0930	6.0	0			300		Start Displacement
	0940	5	80			350		catch Cement
	0955		108			600		Land Plug
						1300		Close DV
								Release Pressure
								D.V. Closed

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MAY 04 2010

Thank you

Nick, Sask. Fr. of Sask. P.