

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 3842
Name: LARSON OPERATING COMPANY
A DIVISION OF 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: MURFIN DRILLING COMPANY, INC.
License: 30606
Wellsite Geologist: TOM FUNK

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. _____

9/23/2005 10/2/2005 11/1/2005
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 101-21889-00-00
County: LANE
APP S/2 SE SW Sec. 27 Twp. 18 S. R. 29 East West
440 feet from SOUTH Line of Section
1840 feet from WEST Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW **SW**

Lease Name: MCWHIRTER "B" Well #: 1-27
Field Name: DIGHTON WEST

Producing Formation: _____
Elevation: Ground: 2810' Kelly Bushing: 2815'
Total Depth: 4618' Plug Back Total Depth: 4573'
Amount of Surface Pipe Set and Cemented at 259 Feet
Multiple State Cementing Collar Used? Yes No
If yes, show depth set 2125 Feet
If Alternate II completion, cement circulated from 2125
feet depth to SURFACE w/ 165 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit) **ALT II w/ H₂O 3-12-2007**
Chloride content 12000 ppm Fluid volume 700 bbls
Dewatering method used ALLOWED TO DRY, THEN BACKFILLED
Location of fluid disposal RECEIVED
Operator KANSAS CORPORATION COMMISSION
Lease Name: DEC 30 2005 License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. East West
County: CONSERVATION DIVISION WICHITA, KS

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 C. Larson
Title: PRESIDENT Date: 12/29/05

Subscribed and sworn to before me this 29TH day of DECEMBER, 2005.

Notary Public: Carol S. Larson

Date Commission Expires: JUNE 25, 2009

CAROL S. LARSON
Notary Public - State of Kansas
My Appt. Expires 6-25-2009

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

Operator Name: LARSON OPERATING COMPANY
A DIVISION OF LARSON ENGINEERING, INC. Lease Name: MCWHIRTER B Well #: 1-27
 Sec. 27 Twp. 18 S. R. 29 East West County: LANE

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets) Sample 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 (Submit Copy) List All E. Logs Run: DUAL INDUCTION DUAL COMP POROSITY MICRORESISTIVITY BOREHOLE COMP SONIC	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"><input checked="" type="checkbox"/> Log</td> <td style="width:60%;">Formation (Top), Depth and Datum</td> <td style="width:10%;"><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>ANHYDRITE</td> <td>2136</td> <td>+679</td> </tr> <tr> <td>HEEBNER SH</td> <td>3911</td> <td>-1096</td> </tr> <tr> <td>LANSING</td> <td>3952</td> <td>-1137</td> </tr> <tr> <td>STARK</td> <td>4231</td> <td>-1416</td> </tr> <tr> <td>MARMATON</td> <td>4366</td> <td>-1551</td> </tr> <tr> <td>PAWNEE</td> <td>4430</td> <td>-1615</td> </tr> <tr> <td>FT SCOTT</td> <td>4481</td> <td>-1666</td> </tr> <tr> <td>CHEROKEE SH</td> <td>4504</td> <td>-1689</td> </tr> <tr> <td>MISSISSIPPIAN</td> <td>4574</td> <td>-1759</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	ANHYDRITE	2136	+679	HEEBNER SH	3911	-1096	LANSING	3952	-1137	STARK	4231	-1416	MARMATON	4366	-1551	PAWNEE	4430	-1615	FT SCOTT	4481	-1666	CHEROKEE SH	4504	-1689	MISSISSIPPIAN	4574	-1759
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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"	28#	259'	CLASS A	180	2% GEL, 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5#	4615'	ALW	100	
					ASC	100	5#/SK GILSONITE, 3/4% CD-31

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input checked="" type="checkbox"/> Protect Casing	SURF	2125'	SMD	165	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)	
		Amount	Depth
4	4549-51, 4517-19, 4464-66, 4389-92	250 GAL 25% MCA	4549-51
4	4347-49, 4324-28, 4275-80	500 GAL 15% MCA	4517-19
		250 GAL 25% MCA	4464-66
		250 GAL 25% MCA	4347-49 4324-28
	SQZ: 4389-92' W/ 50 SX COMMON	250 GAL 25% MCA	4275-80

TUBING RECORD	Size 2-3/8"	Set At 4571'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 11/3/05		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 Bbbls. 125	Gas Mcf 0	Water Bbbls. 3	Gas-Oil Ratio 0 Gravity 36

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>4275-4551</u>
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JOB LOG

SWIFT Services, Inc.

DATE 10-5-05 PAGE NO. 7

CUSTOMER VARSON OPERATING WELL NO. 1-27 LEASE MCWHARTER "B" JOB TYPE CEMENT PORT COLLAR TICKET NO. 9088

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							ON LOCATION
								PORT COLLAR = 2126' 2 3/8 x 5 1/2
								RECEIVED KANSAS CORPORATION COMMISSION DEC 30 2005 CONSERVATION DIVISION WICHITA, KS
	1140				✓		1000	PSE TEST - HELD
	1145	2 1/2	2	✓		300		OPEN PORT COLLAR - END RATE
	1150	3 1/2	91	✓		300 ^{AK}		MIX CEMENT - 165 SLS SMA
	1212	3 1/2	7 1/2	✓		600		DISPLACE CEMENT
	1220				✓		1000	CLOSE PORT COLLAR - PSE TEST - HELD
								CIRCULATED 10 SLS CEMENT TO POT
	1235	2 1/2	20	✓		300		RUN 4 ITS CIRCULATE CLEAN
								WASH UP
								PULL TOOL
	1300							JOB COMPLETE
								CONFIDENTIAL
								THANK YOU WAYNE, JUSTY, BRETT

ALLIED CEMENTING CO., INC.

22661

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

SERVICE POINT:

CONFIDENTIAL Mass City

* Port Callan @ 2129

DATE <u>10-2-05</u>	SEC. <u>27</u>	TWP. <u>18</u>	RANGE <u>29 W</u>	CALLED OUT <u>7:00 am</u>	ON LOCATION <u>floor</u>	JOB START <u>4:00 pm</u>	JOB FINISH <u>5:30 pm</u>
LEASER <u>McWhirter</u>		WELL <u>B-1-27</u>	LOCATION <u>Dighton, 3 west - 2 south</u>		COUNTY <u>lane</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>1/2 East - North Side</u>				

CONTRACTOR McWhirter

TYPE OF JOB longstring production csq

HOLE SIZE 7 7/8" T.D. 4618'

CASING SIZE 5 1/2" DEPTH 4618'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 1500 lbs MINIMUM _____

MEAS. LINE _____ SHOE JOINT 1/2"

CEMENT LEFT IN CSG. 1/2'

PERFS. _____

DISPLACEMENT 110 1/2 BBLs

OWNER HARSON Operating Co.

CEMENT

AMOUNT ORDERED, 125 sx lite with Flo Seal

100 sx ASC with Seal - CA-31 + De Seance

100 gal flush + 20 BBLs K.C.H. Water

COMMON	<u>125 net Acw</u>	@	<u>8.15</u>	<u>1018.75</u>
POZMIX		@		
GEL		@		
CHLORIDE		@		
ASC	<u>100 net</u>	@	<u>10.75</u>	<u>1075.00</u>
ASC FLUSH	<u>500 GAL</u>	@	<u>1.00</u>	<u>500.00</u>
ACD-31	<u>50 #</u>	@	<u>6.25</u>	<u>312.50</u>
De Seance	<u>16 #</u>	@	<u>5.75</u>	<u>92.00</u>
FLO SEAL	<u>31 #</u>	@	<u>1.70</u>	<u>52.70</u>
SALT	<u>600 #</u>	@	<u>15.75</u>	<u>94.50</u>
FLO SEAL	<u>500 #</u>	@	<u>.60</u>	<u>300.00</u>
CA-31	<u>36 GAL</u>	@	<u>22.90</u>	<u>824.00</u>
HANDLING	<u>265 net</u>	@	<u>1.60</u>	<u>424.00</u>
MILEAGE	<u>265 net</u>	@	<u>06.36</u>	<u>1685.40</u>

EQUIPMENT

PUMP TRUCK CEMENTER Jack

224 HELPER Jim

BULK TRUCK DRIVER Don

210

BULK TRUCK DRIVER Brandon

212

REMARKS:

Run 109 jbs of New 5 1/2 csq - circ 60 min with mud - Run 50 BBLs K.C. water - 10 BBLs of flush - 15 BBLs K.C. water - shut down plug bathole - 12 3/4 - Mouse hole 10 3/4 - Hook back & csq of Run 100 sx lite + 100 sx ASC - Displace plug with 110 1/2 BBLs of fresh water - Insect held -

Thanks

RECEIVED
KANSAS CORPORATION COMMISSION

SERVICE DEC 30 2005

DEPTH OF JOB	<u>4618'</u>	CONSERVATION DIVISION	
PUMP TRUCK CHARGE		WICHITA, KS	<u>1435.00</u>
EXTRA FOOTAGE			@
MILEAGE	<u>36</u>		@ <u>50</u> <u>1800.00</u>
MANIFOLD			@
			@
			@

CHARGE TO: HARSON Operating Co.

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1615.00

PLUG & FLOAT EQUIPMENT

Rotating head	@	<u>100.00</u>	<u>100.00</u>
	@		
	@		
	@		
	@		
TOTAL			<u>100.00</u>

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Anthony Martin

Great Job

Anthony Martin

PRINTED NAME

ALLIED CEMENTING CO., INC.

22507 ✓

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

CONFIDENTIAL SERVICE POINT: Ness City

DATE <u>09-23-05</u>	SEC <u>27</u>	TWP <u>18s</u>	RANGE <u>29W</u>	CALLED OUT <u>6:00/AM</u>	ON LOCATION <u>8:15/PM</u>	JOB START <u>9:55/PM</u>	JOB FINISH <u>10:15/PM</u>
LEASE <u>MEWHURTER</u>	WELL # <u>B-1-27</u>	LOCATION <u>Dighton 3w 2s 1/4 2 N/4</u>	COUNTY <u>LANE</u>	STATE <u>KS</u>			

OLD OR NEW (Circle one)

CONTRACTOR MUREN PLC #24
 TYPE OF JOB SURFACE JOB
 HOLE SIZE 12 1/4" T.D. 259'
 CASING SIZE 8 5/8" 28' DEPTH 259'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 20'
 PERFS. _____
 DISPLACEMENT 15.1 BLS

OWNER LARSON OPERATING
 CEMENT AMOUNT ORDERED 180 CY Common 3% GEL
20% GEL

COMMON	<u>180 CY</u>	@	<u>8.70</u>	<u>1566.00</u>
POZMIX		@		
GEL	<u>5 CY</u>	@	<u>14.00</u>	<u>42.00</u>
CHLORIDE	<u>5 CY</u>	@	<u>38.00</u>	<u>190.00</u>
ASC		@		

RECEIVED
 KANSAS CORPORATION COMMISSION
 @
 @ DEC 30 2005
 @
 @ CONSERVATION DIVISION
 @ WICHITA, KS

EQUIPMENT

PUMP TRUCK # 224 CEMENTER BUD
 HELPER JIM W
 BULK TRUCK # 260 DRIVER BRADON R.
 BULK TRUCK # _____ DRIVER _____

HANDLING	<u>183 CY</u>	@	<u>1.60</u>	<u>300.80</u>
MILEAGE	<u>180 MI</u>	@	<u>06 36</u>	<u>406.08</u>
TOTAL				<u>2504.88</u>

REMARKS:

RAW 259 FT 8 5/8" 28" CGG Circulate w/ BLS

Mixed 180 CY Common 3% GEL 20% GEL
DISPLACED FLUG W/ 15.1 BLS

Cement Circulated

SERVICE

DEPTH OF JOB	<u>259'</u>			
PUMP TRUCK CHARGE				<u>670.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>36</u>	@	<u>5.00</u>	<u>180.00</u>
MANIFOLD		@		
		@		
		@		
TOTAL				<u>850.00</u>

CHARGE TO: LARSON OPERATING
 STREET 562 W Hwy 4
 CITY AMITZ STATE KS ZIP 67564

PLUG & FLOAT EQUIPMENT

1-Top 8 5/8" Wood	@	<u>55.00</u>	<u>55.00</u>
	@		
	@		
	@		
	@		
TOTAL			<u>55.00</u>

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Anthony Martin
Good Job

Anthony Martin
 PRINTED NAME