

834

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
LARSON OPERATING COMPANY
Name: A DIVISION OF LARSON ENGINEERING, INC.

Address: 562 WEST HIGHWAY 4

City/State/Zip: OLMITZ, KS 67564-8561

Purchaser: _____

Operator Contact Person: TOM LARSON

Phone: 620-653-7368

Contractor: Name: MALLARD JV INC

License: 4958

Wellsite Geologist: RICHARD S. DAVIS JR.

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. _____

7/17/2003 7/24/2003 7/24/2003
Spud Date or Date Reached TD Completion Date or
Recompletion Date

API No. 15 - 083-21484-0000

County: HODGEMAN

APP 160'S & 165'W
OF C S/2 NE NW Sec. 16 Twp. 24 S. R. 23 East West

1150 feet from NORTH Line of Section

1805 feet from WEST Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW

Lease Name: DEANNA Well #: 1-16

Field Name: KRANKENBERG

Producing Formation: _____

Elevation: Ground: 2406' Kelly Bushing: 2411'

Total Depth: 4716' Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at 321 Feet

Multiple State Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content 26000 ppm Fluid volume 1800 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.: _____

PAID 12.30.03

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: 10/24/2003

Subscribed and sworn to before me this 24TH day of OCTOBER

2003

Notary Public: Carol S. Larson

Date Commission Expires: 6/25/2005

CAROL S. LARSON
Notary Public - State of Kansas
My Appt. Expires 6-25-2005

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

✓

X

Operator Name: LARSON OPERATING COMPANY
A DIVISION OF LARSON ENGINEERING, INC. Lease Name: DEANNA Well #: 1-16
 Sec. 16 Twp. 24 S. R. 23 East West County: HODGEMAN

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy) List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" 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>1566</td> <td>+845</td> </tr> <tr> <td>BASE ANHYDRITE</td> <td>1580</td> <td>+831</td> </tr> <tr> <td>HEEBNER</td> <td>3976</td> <td>-1565</td> </tr> <tr> <td>TORONTO</td> <td>3997</td> <td>-1586</td> </tr> <tr> <td>LANSING</td> <td>4046</td> <td>-1635</td> </tr> <tr> <td>BASE KANSAS CITY</td> <td>4458</td> <td>-2047</td> </tr> <tr> <td>CHEROKEE SH</td> <td>4630</td> <td>-2219</td> </tr> <tr> <td>MISSISSIPPI</td> <td>4710</td> <td>-2299</td> </tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	1566	+845	BASE ANHYDRITE	1580	+831	HEEBNER	3976	-1565	TORONTO	3997	-1586	LANSING	4046	-1635	BASE KANSAS CITY	4458	-2047	CHEROKEE SH	4630	-2219	MISSISSIPPI	4710	-2299
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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#	321'	60-40 POZ	200	2% GEL, 3% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Top	Bottom			

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

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input 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 type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	Production Interval _____
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ORIGINAL

Operator Name LARSON OPERATING COMPANY
A DIVISION OF LARSON ENGINEERING, INC. Lease Name DEANNA Well # 1-16

Sec. 16 Twp. 24S Rge. 23 East
 West

County HODGEMAN

API No. 15 - 083-21484-0000

DRILL STEM TEST #1

Interval tested: 4684-4703'
Times tool opened: 15-30-15-30
Initial hydrostatic pressure: 2409#
Initial flow pressures: 18-21#
Initial shut-in pressure: 23#
Final flow pressures: 21-22#
Final shut-in pressure: 22#
Final hydrostatic pressure: 2245#
Bottom hole temperature: 118°
Recovery: 10' MUD

RECEIVED
OCT 28 2003
KCC WICHITA

DRILL STEM TEST #2

Interval tested: 4685-4716'
Times tool opened: 15-30-60-60
Initial hydrostatic pressure: 2395#
Initial flow pressures: 31-115#
Initial shut-in pressure: 1320#
Final flow pressures: 128-256#
Final shut-in pressure: 1316#
Final hydrostatic pressure:
Bottom hole temperature: 126°
Recovery: 630' GIP, 90' CGO, 240' GOCM, 120' GOMCW, 180' W

DRILL STEM TEST #3

Interval tested:
Times tool opened:
Initial hydrostatic pressure:
Initial flow pressures:
Initial shut-in pressure:
Final flow pressures:
Final shut-in pressure:
Final hydrostatic pressure:
Bottom hole temperature:
Recovery:

DRILL STEM TEST #4

Interval tested:
Times tool opened:
Initial hydrostatic pressure:
Initial flow pressures:
Initial shut-in pressure:
Final flow pressures:
Final shut-in pressure:
Final hydrostatic pressure:
Bottom hole temperature:
Recovery:

ALLIED CEMENTING CO., INC.

15979

Federal Tax I.D.# 48-0727860

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

SERVICE POINT:

Hot Bend

DATE <u>7-24-03</u>	SEC. <u>16</u>	TWP. <u>24</u>	RANGE <u>23</u>	CALLED OUT <u>6:00AM</u>	ON LOCATION <u>10:00AM</u>	JOB START <u>10:20AM</u>	JOB FINISH <u>12:15 PM</u>
LEASE <u>Deanna</u>	WELL# <u>1-16</u>	LOCATION <u>Jatmore Ss, 2E, 2 1/4 S, E/S</u>			COUNTY <u>Hodgeman</u>	STATE <u>Ks</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR Mallard
 TYPE OF JOB Antony Plug
 HOLE SIZE 7 7/8 RD. 47 1/2
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2" DEPTH 1600'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER Source
 CEMENT
 AMOUNT ORDERED 185 lbs 60/40 670 ml
1/4" #5 thread / lb

COMMON	<u>111 gal</u>	@	<u>7.15</u>	<u>793.65</u>
POZMIX	<u>74 gal</u>	@	<u>3.80</u>	<u>281.20</u>
GEL	<u>10 gal</u>	@	<u>10.00</u>	<u>100.00</u>
CHLORIDE		@		
<u>FLO-SEAL 46#</u>		@	<u>1.40</u>	<u>64.40</u>
		@		
		@		
		@		
		@		
HANDLING	<u>197 gal</u>	@	<u>1.15</u>	<u>226.55</u>
MILEAGE	<u>197 gal DS</u>		<u>35</u>	<u>344.75</u>

EQUIPMENT

PUMP TRUCK CEMENTER Timm
 # 181 HELPER Bob B
 BULK TRUCK
 # 342 DRIVER Timm
 BULK TRUCK
 # _____ DRIVER _____

RECEIVED

TOTAL 1810.55

OCT 28 2003

KCC WICHITA SERVICE

REMARKS:

Mixed - 50 lbs @ 1600'
50 lbs @ 800'
50 lbs @ 350'
10 lbs @ 40'
15 lbs in Rathole
10 lbs in Mainhole -

DEPTH OF JOB	<u>1600'</u>		
PUMP TRUCK CHARGE			<u>520.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>35</u>	@	<u>3.50</u> <u>122.50</u>
PLUG 1-8 5/8 Dryhole		@	<u>23.00</u> <u>23.00</u>
		@	
		@	

TOTAL 665.50

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

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

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 X Mark D. Elsen

X Mark D. Elsen
 PRINTED NAME

ORIGINAL

ALLIED CEMENTING CO., INC.

15498

Federal Tax I.D.# 48-0727860

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

SERVICE POINT:

New City

DATE <i>7-16-03</i>	SEC. <i>16</i>	TWP. <i>24</i>	RANGE <i>23W</i>	CALLED OUT <i>2:30 pm</i>	ON LOCATION <i>4:30 pm</i>	JOB START <i>8:00 pm</i>	JOB FINISH <i>8:30 pm</i>
LEASE <i>Deanna</i>	WELL # <i>1-16</i>	LOCATION <i>Jetmore - South Edge -</i>		COUNTY <i>Hodgeman</i>	STATE <i>KS</i>		
OLD OR <u>NEW</u> (Circle one)		<i>5 south - 2 East - 2 1/4 south - East into</i>					

CONTRACTOR <i>Mallard</i>	OWNER <i>Larson Operating</i>
TYPE OF JOB <i>Surface Pipe</i>	
HOLE SIZE <i>12 1/4</i>	T.D. <i>321</i>
CASING SIZE <i>8 5/8</i>	DEPTH <i>321</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <i>approx 15'</i>	
PERFS.	
DISPLACEMENT <i>19 1/2 BBLs</i>	
EQUIPMENT	
PUMP TRUCK # <i>224</i>	CEMENTER <i>Jack</i>
	HELPER <i>Tim</i>
BULK TRUCK # <i>344</i>	DRIVER <i>Don</i>
BULK TRUCK #	DRIVER

CEMENT	AMOUNT ORDERED <i>200 sx 60/40 342</i>
COMMON <i>120 net</i>	@ <i>7.15</i> <i>858.00</i>
POZMIX <i>80 net</i>	@ <i>3.80</i> <i>304.00</i>
GEL <i>3 net</i>	@ <i>10.00</i> <i>30.00</i>
CHLORIDE <i>6 net</i>	@ <i>30.00</i> <i>180.00</i>
	@
	@
	@
	@
	@
HANDLING <i>209 net</i>	@ <i>1.15</i> <i>240.35</i>
MILEAGE <i>209 net 05</i>	<i>35</i> <i>365.75</i>
TOTAL <i>1978.10</i>	

REMARKS:

Run 8 bits of 8 5/8 csg - cement with 200 sx cement. Displace plug with 19 1/2 BBLs of Fresh Water. Cement Old circ, ✓

Thanks

SERVICE

DEPTH OF JOB <i>321'</i>	
PUMP TRUCK CHARGE	<i>520.00</i>
EXTRA FOOTAGE <i>31</i>	@ <i>.50</i> <i>10.50</i>
MILEAGE <i>35</i>	@ <i>3.50</i> <i>122.50</i>
PLUG <i>1-8 5/8 Wood</i>	@ <i>45.00</i> <i>45.00</i>
	@
	@
TOTAL <i>698.00</i>	

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

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

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 ~~698.00~~
DISCOUNT ~~698.00~~ IF PAID IN 30 DAYS

SIGNATURE *Lavon R Urban*

LAVON R Urban
PRINTED NAME