

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
September 1999
Form Must Be Typed

ORIGINAL

Operator: License # 6039
Name: L.D. DRILLING, INC.
Address: R.R. 1 BOX 183 B
City/State/Zip: GREAT BEND, KS 67530
Purchaser: _____
Operator Contact Person: L.D. DAVIS
Phone: (620) 793-3051
Contractor: Name: L. D. DRILLING, INC.
License: 6039
Wellsite Geologist: KIM SHOEMAKER

Designate Type of Completion:

☒ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ SWD ☐ SIOW ☐ 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. _____

11-06-01 11-14-01 12-04-01
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 009-24726-00-00

County: BARTON

60' E SW NW NE Sec. 36 Twp. 18 S. R. 15 ☐ East ☒ West

930 feet from S (N) (circle one) Line of Section

2250 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW

Lease Name: HOWELL Well #: 1

Field Name: MERTEN NE

Producing Formation: _____

Elevation: Ground: 1901 Kelly Bushing: 1906

Total Depth: 3600' Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at 898' Feet

Multiple Stage 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 _____ ppm Fluid volume _____ bbls

Dewatering method used _____

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 form 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 of 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: Rashell Patten

Title: Sec/Treas Date: 2-22-02

Subscribed and sworn to before me this 22nd day of February

2002

Notary Public: Rashell Patten

Date Commission Expires: 2-02-03

KCC Office Use ONLY

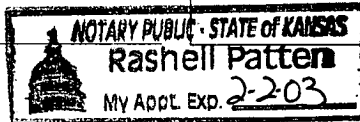
Letter of Confidentiality Attached

If Denied, Yes ☐ Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution



ORIGINAL

Operator Name: L.D. DRILLING, INC. Lease Name: HOWELL Well #: 1
 Sec. 36 Twp. 18 S. R. 15 ☐ East ☒ West County: BARTON

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 geological well site report.

Drill Stem Tests Taken ☒ Yes ☐ No
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☒ Yes ☐ No
 (Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample
 Name Top Datum

SEE ATTACHMENT

CASING RECORD <input 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"	24#	898'	60/40 POZ	450	2%GEL 3%CC
PRODUCTION	7 7/8"	5 1/2"		3599'	ASC	135	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ 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
	THIS WELL WILL BE PLUGGED D&A		

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
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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
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Disposition of Gas

METHOD OF COMPLETION

Production Interval

☐ Vented ☐ Sold ☐ Used on Lease
 (If vented, Sumit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify)

ORIGINAL

DAILY DRILLING REPORT

OPERATOR: L.D. DRILLING, INC.

WELLSITE GEOLOGIST: KIM SHOEMAKER

CONTRACTOR: L. D. DRILLING, INC.

SPUD: 11-06-01 @ 6:15 p.m.

LEASE: HOWELL #1

60' N & 60' E SW NW NE

Sec 36-18-15W, Barton Co, KS

ELEVATION: 1901' Ground 1906' KTB

PTD: 3550'

SURFACE: Ran 22 jts., New 8 5/8" 24# Surface Csg.
Set @ 898' w/450 sx. 60/40 Pozmix, 2% Gel, 3% CC,
Did Circ. Allied Plug down 1:15 P.M. 11-7-01
Start Drilling 11:15, Drill Plug and 40' Cement

11-06-01 Move In, Rig Up & Spud
11-07-01 875' Drilling
11-08-01 1161' Mud Pump Problems
11-09-01 1844' DST #1 on Bottom
11-10-01 2550' Drilling
11-11-01 3065' Drilling Displaced @ 2957'
11-12-01 3296' CFS & Come Out for DST #3
Pauls hauling free fluids
11-13-01 3388' CTCH
11-14-01 3600' RTD Logging
11-15-01 Ran 87 jts new & used 5 1/2" csg.
3,631.23' tally
Set @ 3599' - 1' off Bottom
Cement 135 sx ASC, 15 sx Rathole
Plug Down 8:30 P.M. by Allied Cementing

DST #1 1757 - 1844' Chase

TIMES: 30-45-45-60

BLOW: 1st Open 1" blt

2nd open 4" decreased, flush tool

RECOVERY: 270' DM no help

IFP: 16-50 FFP: ISIP: 480 FSIP:

Temp: 80° 135 - 157

DST #2 3229 - 3250' Lansing A

TIMES: 30-45-45-60

BLOW: 1st open blt to 2"

2nd open blt to 1 1/2"

RECOVERY: 90' gip, 30' vsgcwm

IFP: 9 - 18 FFP: ISIP: 958 FSIP:

Temp: 104° 18-24 966

DST #3 3278 - 3296 D-F

TIMES: 30-45-45-60

BLOW: 1st open blt to 4"

2nd open blt to 3"

RECOVERY: 65' SMCW

Temp: 111°

IFP: 11-25 FFP: 26-43 ISIP: 985 FSIP:

966

DST #4 3368 - 3388' Lansing H

TIMES: 30 X 4

BLOW: 1st open 1" blt

2nd open 1" blt dec to 1/2"

RECOVERY: 35' gip, 25' osm w/good
show of free oil in tool

Temp: 102°

IFP: 12-15 FFP: 11-17 ISIP: 87 FSIP: 77

DST #5 3448 - 3531 Arbuckle

TIMES: 30-45-45-60

BLOW: 1st open Bt BK 9min

2nd open Bt BK 32 Min

RECOVERY: 170' gip, 60' oil, 35 grav.,
70' sgwcmo, 5% gas, 8% wtr, 40% mud, 47% oil,

Temp: 118° 180 SW

IFP: 53-114 FFP: 119-179 ISIP: 939 FSIP: 893

SAMPLE TOPS:

Anhy.	893	+1013	898	+1008
Base Anhy	920	+ 986		
Chase	1787	+ 119	1789	+ 117
Winfield	1840	+ 66	1838	+ 68
Heebner	3148	-1242	3148	-1242
Brown Lime	3225	-1319	3225	-1319
Lansing K/C	3232	-1326	3233	-1327
Base KC	3449	-1543	3451	-1545
Arbuckle	3523	-1617	3526	-1620
Log TD			3602	-1696

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 25 2002

CONSERVATION DIVISION

ALLIED CEMENTING CO., INC.

7339

ORIGINAL

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

SERVICE POINT:

Great Bend

DATE 11-14-01	SEC. 36	TWP. 18S	RANGE 15 W	CALLED OUT 12:30 pm	ON LOCATION 3:00 pm	JOB START 7:00 pm	JOB FINISH 8:20 pm
LEASE Howell	WELL # 1	LOCATION 96 + 01 mitz blacktop - 2 north			COUNTY Barton	STATE KS	
OLD OR NEW (Circle one)			1 West - 2 south - 1 southeast into				

CONTRACTOR L. D. Davis	
TYPE OF JOB long string	
HOLE SIZE 7 7/8	T.D. 3600'
CASING SIZE 5 1/2	DEPTH 3599'
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX 500 lbs	MINIMUM 0-
MEAS. LINE	SHOE JOINT 11'
CEMENT LEFT IN CSG. 11' -	
PERFS.	
DISPLACEMENT	

EQUIPMENT

PUMP TRUCK	CEMENTER Jack
# 181	HELPER Tim
BULK TRUCK	
# 341	DRIVER HARRY L
BULK TRUCK	
#	DRIVER

OWNER L. D. Davis	
CEMENT	
AMOUNT ORDERED 150 sx asc.	
5" Kol Seal/sx	

COMMON ASC 150	@ 8.20	1230.00
POZMIX	@	
GEL	@	
CHLORIDE	@	
Kol Seal 750 [™]	@ .50	375.00
	@	
	@	
	@	
HANDLING 165	@ 1.10	181.50
MILEAGE 12	@ 7.50	90.00
KANSAS CORPORATION COMMISSION		
TOTAL		1886.50

FEB 25 2002

SERVICE

REMARKS:

Run 87 jts of 5 1/2 csq. cement with 150 sx asc cement - Displace plug with 91 BBLs of fresh water loaded plug @ 500 lbs of pressure.

CONSERVATION DIVISION

DEPTH OF JOB	3599'
PUMP TRUCK CHARGE	1130.00
EXTRA FOOTAGE	@
MILEAGE 12	@ 3.00 36.00
PLUG Rubber	@ 60.00 60.00
	@
	@

TOTAL 1226.00

CHARGE TO: L. D. Davis
STREET
CITY STATE ZIP

FLOAT EQUIPMENT

1-5 1/2 Guide Shoe	150.00	150.00
1-5 1/2 Insert	@ 235.00	235.00
5-5 1/2 Centralizers	@ 50.00	250.00
	@	
	@	

TOTAL 635.00

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	- 0 -
TOTAL CHARGE	\$ 3747.50
DISCOUNT	\$ 374.75 IF PAID IN 30 DAYS

SIGNATURE Mike Kasselmann

Mike Kasselmann
PRINTED NAME

Aut # 3372.75

ALLIED CEMENTING CO., INC. 7335

ORIGINAL

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

SERVICE POINT:

Crest Road

DATE <u>11-7-01</u>	SEC. <u>36</u>	TWP. <u>18</u>	RANGE <u>15W</u>	CALLED OUT <u>8:00 AM</u>	ON LOCATION <u>10:00 AM</u>	JOB START <u>12:30 pm</u>	JOB FINISH <u>1:15 pm</u>
LEASE <u>Huswell</u>	WELL # <u>1</u>	LOCATION <u>9640mi/2 Blacktop 2 north</u>			COUNTY <u>Canton</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>1 west 3/4 south - 3/4 southeast into</u>					

CONTRACTOR L.D. Davis

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. 901'

CASING SIZE 8 5/8 DEPTH 900'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 38'

PERFS. _____

DISPLACEMENT 55 DD13

EQUIPMENT

PUMP TRUCK	CEMENTER	<u>Tank</u>
# <u>181</u>	HELPER	<u>Buckham</u>
BULK TRUCK		
# <u>344</u>	DRIVER	<u>Tim</u> <u>TREAD</u>
BULK TRUCK		
# _____	DRIVER	

REMARKS:

Run 22 ft of 8 5/8 surface pipe
cement with 450 sy cement -
Displace with 55 DD13 of Fresh Water
Content Dial Circle

Thanks

CHARGE TO: L.D. Davis

STREET _____

CITY _____ STATE _____ ZIP _____

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.

SIGNATURE Michael Rediger

OWNER L.D. Davis

CEMENT

AMOUNT ORDERED 450 sy 60/40 342

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____

TOTAL _____

RECEIVED

KANSAS CORPORATION COMMISSION

SERVICE

FEB 25 2002

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 1-8 5/8 Rubber @ _____

plug @ _____

TOTAL _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Michael Rediger

PRINTED NAME

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.