

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 9313

Name: James D. Lorenz

Address 1: 543A 22000 Road

Address 2: \_\_\_\_\_

City: Cherryvale State: KS Zip: 67335 + \_\_\_\_\_

Contact Person: James D. Lorenz

Phone: ( 620 ) 328-4433

CONTRACTOR: License # 33374

Name: L & S Well Service L.L.C.

Wellsite Geologist: \_\_\_\_\_

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: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening     Re-perf.     Conv. to Enhr.     Conv. to SWD

Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_

Commingled    Docket No.: \_\_\_\_\_

Dual Completion    Docket No.: \_\_\_\_\_

Other (SWD or Enhr.?)    Docket No.: \_\_\_\_\_

2-12-08                      2-13-08                      2-29-08

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

API No. 15 - 099-24259-0000

Spot Description: \_\_\_\_\_

N1/2  NE  SW  NW Sec. 33 Twp. 31 S. R. 18  East  West

3795 Feet from  North /  South Line of Section

4290 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Labette

Lease Name: Lorenz Well #: 31

Field Name: Cherokee Basin CBM

Producing Formation: \_\_\_\_\_

Elevation: Ground: 850 Kelly Bushing: \_\_\_\_\_

Total Depth: 662 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 20+ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: 650.1

feet depth to: Surface w/ 6 <sup>sx cmpt.</sup>

**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: [Signature]

Title: Owner Date: 4-15-09

Subscribed and sworn to before me this 15 day of APRIL

20 09

**TERRY MCMUNN**  
Notary Public - State of Kansas  
My Appt. Expires 4-15-12

Notary Public: [Signature]

Date Commission Expires: 4-15-12

**KCC Office Use ONLY**

Letter of Confidentiality Received

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

KANSAS CORPORATION COMMISSION  
**MAY 05 2009**

RECEIVED

Operator Name: James D. Lorenz Lease Name: Lorenz Well #: 31  
 Sec. 33 Twp. 31 S. R. 18  East  West County: Labette

**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 <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: <b>Gamma Ray Neutron Completion Log</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum See Attached Drillers Log
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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	11"	8 5/8"	20#	20'+	Portland	6	
Production	5 1/2"	2 7/8"	2.625	650'	OWC	102	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	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				

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
3	2" DML-RTG	20-40 + 12-20 15% HCL ACID	620-626'
3	2" DML-RTG	20-40 + 12-20 15% HCL ACID	636-640'

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. Used on lease (shop) <b>5-15-08</b>		Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls. <b>2</b>	Gas Mcf <b>1/4</b>
		Water Bbls. <b>1/4</b>
		Gas-Oil Ratio
		Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" 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: _____ _____
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L S Well Service, L.L.C.# 33374  
 543 22000 ROAD  
 CHERRYVALE, KANSAS 67335-8515  
 620-328-4433 OFFICE

TICKET NUMBER 20080229  
 LOCATION LB  
 FOREMAN J.A. KM.

**CEMENT TREATMENT REPORT**

API-15-099-24259 -00-00

DATE <u>02/29/08</u>	WELL NAME <u>Lorenz #31</u>		
SECTION <u>33</u>	TOWNSHIP <u>31</u>	RANGE <u>18</u>	COUNTY <u>LB</u>
CUSTOMER <u>James D. Lorenz</u>			
MAILING ADDRESS <u>543A 22000 Rd</u>			
CITY <u>Cherryvale</u>			
STATE <u>Kansas</u>		ZIP CODE <u>67335</u>	
TIME ARRIVED ON LOCATION			

Hole	Pipe	Annual Volumn in Linear Ft./Bl.
8 3/4"	4 1/2"	40.5
6 1/2"	4 1/2"	46
6 1/4"	2 1/2"	33.5
5 1/4"	2 1/2"	53.5
5 1/4"	2"	47
5 1/2"	2 1/2"	41
Tubing-Linear Ft./Bl.		
8 5/8"		
7"		
4 1/2"	10.5 lb.	63.1
2 1/2"		170
2"		250

**WELL DATA**

HOLE SIZE	<u>5 1/2"</u>
TOTAL DEPTH	<u>662'</u>
CASING SIZE	<u>2 7/8"</u>
CASING DEPTH	<u>650.1'</u>
PACKER DEPTH	
WIRE LINE READING BEFORE	
WIRE LINE READING AFTER	

**TYPE OF TREATMENT**

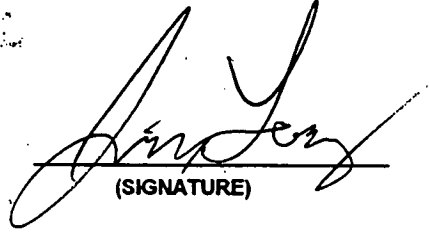
( ) SURFACE PIPE  
 PRODUCTION CASING  
 ( ) SQUEEZE CEMENT  
 ( ) PLUG AND ABANDON  
 ( ) PLUG BACK  
 ( ) MISP. PUMP  
 ( ) WASH DOWN  
 ( ) OTHER

INSTRUCTIONS PRIOR TO JOB Called Allen @ KCC 10:00 - OK'd by KCC Dist #3

AUTHORIZATION TO PROCEED \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 2/29/08

HOOKED ONTO 2 7/8" CASING. ESTABLISHED CIRCULATION WITH 10 BARRELS OF WATER, AHEAD, THEN BLENDED 102 SACKS OF OWE CEMENT, THEN DROPPED RUBBER PLUG, THEN PUMPED 4 BARRELS OF WATER.

- LANDED PLUG ON BOTTOM AT 450 PSI
- ( ) SHUT IN PRESSURE \_\_\_\_\_
- ( ) LOST CIRCULATION
- GOOD CEMENT RETURNS
- ( ) TOPPED OFF WELL WITH \_\_\_\_\_ SACKS
- SET FLOAT SHOE - SHUT IN

  
 (SIGNATURE)

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CONSOLIDATED OIL WELL SERVICES, INC.  
 P.O. BOX 884, CHANUTE, KS 66720  
 620-431-9210 OR 800-467-8676

TICKET NUMBER 40872  
 FIELD TICKET REF # \_\_\_\_\_  
 LOCATION Thayer  
 FOREMAN Brett Busby

TREATMENT REPORT  
 FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-26-08		LORENZ 31				MC
CUSTOMER			TRUCK #			
Ld S Well Services			476	J		
MAILING ADDRESS			490			
CITY	STATE	ZIP CODE	478 T121			
			449	Eric		
			488 T102			
			T			

WELL DATA

CASING SIZE	TOTAL DEPTH
4 1/2	
CASING WEIGHT	PLUG DEPTH
TUBING SIZE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
620-26 (19)	Black shale
636-640 (13)	

TYPE OF TREATMENT

Acid spot - Acid OFF - Frac

CHEMICALS

KCL SUB  
 Max-1% Acid  
 Breaker

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	40	16-18				BREAKDOWN 1350
20-40			25-15		1500	START PRESSURE
20-40			175			END PRESSURE
28-40 + 12-20			1.0-1.5			BALL OFF PRESS
20-40 + 12-20			2.0	2500#	1900	ROCK SALT PRESS
20-40 @ 8 ballseckers			0			ISIP (750)
20-40			5-2.0	3,000#	2400	5 MIN
20-40 / 100 acid @ 8 ballseckers			5-2.0	1,500#		10 MIN
20-40			5-2.0	1,500#		15 MIN
12-20			2.0	1,000#	2100	MIN RATE 16
FLUSH	5					MAX RATE 18
RELEASE BALLS 10 T.D.			TOTAL	8,000#	1600	DISPLACEMENT 70.0
OVERFLUSH	30		SAND			3.8
TOTAL	325					

REMARKS: spot 50 gal. 15% HCL acid

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location 1:00 PM - 2:30 PM

20 miles

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

## TERMS

In consideration of the prices to be charged for our services, equipment and products as set forth in Consolidated Oil Well Services, Inc's (COWS) current Price Schedule, and for the performance of services and supplying of materials; customer agrees to the following terms and conditions.

Terms: Cash in advance unless satisfactory credit is established. On credit sales, invoices payable to P.O. Box 884, Chanute, KS 66720. Invoices payable within 30 days of invoice date. Charges subjected to interest after 30 days from invoice date. Interest will be charged at Maximum rate allowed by law. In the event it is necessary to employ an attorney to enforce collection of such account, customer agrees pay all collection costs and attorney's fees in the amount of 20% of said amount.

Any applicable federal, state or local sales, use, occupation, consumer's or emergency taxes shall be added to the quoted price.

A sales tax reimbursement of 2% is applied to chemical and product charges for all services performed on oil and gas wells in the State of Texas.

All process license fees required to be paid to others will be added to the scheduled prices.

All prices are subject to change without notice.

## SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products; and materials to be supplied by COWS.

"The customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the customer shall be present to specify depths, pressures, or materials used for any service which is to be performed."

(a) COWS shall not be responsible for, and customer shall secure COWS against any liability for damage to property of customer and of the well owner (if different from customer); unless caused by the willful misconduct or gross negligence of COWS, this provision applying to but not limited to sub-surface damage and surface damage arising from subsurface damage.

(b) Customer shall be responsible for and secure COWS against any liability for reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct of gross negligence of COWS.

(c) Customer shall be responsible for and secure COWS against any and all liability of whatsoever nature for damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS hereunder.

(d) Customer shall be responsible for and secure COWS against any liability for injury to, or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of COWS.

(e) COWS makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or services.

(f) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS gross negligence or willful misconduct in the preparation or furnishing of it.

## WARRANTIES - LIMITATION OF LIABILITY

COWS warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to COWS or, at COWS's option, to the allowance to the customer of credit for the cost of such items. In no event, shall COWS be liable for special, incidental, indirect, punitive or consequential damages.

COWS personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be liable for and CUSTOMER SHALL INDEMNIFY AGAINST ANY DAMAGED ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed by the COWS negligence or fault.

L S Well Service, LLC #33374  
543A 22000 Road  
Cherryvale, Kansas 67335  
620-328-4433

Drill Log  
James D. Lorenz .

Lorenz #31  
S33, T31,R18E  
Labette Co, KS  
API#15-099-24259-0000

0-6'	Dirt
6-25'	Sandstone
25-59'	Limestone
59-70'	Shale
70-86'	Limestone
86-183'	Shale
183-186'	Black Shale
186-190'	Limestone
190-194'	Black Shale
194-227'	Shale
227-298'	Limestone w/ Shale
298-337'	Shale
337-350'	Sand
350-409'	Shale
409-433'	Limestone
433-440'	Black Shale
440-496'	Shale
496-529'	Limestone
529-534'	Black Shale
534-554'	Limestone
554-559'	Black Shale
559-577'	Limestone
577-602'	Coal
602-620'	Shale
620-624'	Black Shale
624-634'	Limestone
634-640'	Black Shale
640-662'	Shale

**12-02-08 Drilled 11" hole and set  
20' of 8 5/8" surface casing  
Set with 6 sacks Portland cement**

**12-13-08 Started drilling 5 1/2" hole**

**12-13-08 Finished drilling to  
T.D. 662'  
Rig #7**

**Did we dig pit? Yes**

**Did we kill well? No**

**Did we load hole with water?No**

**T.D. 662'**

KANSAS CORPORATION COMMISSION

MAY 05 2009

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