

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

CONFIDENTIAL

ORIGINAL

Operator: License # 32999  
Name: Layne Christensen Canada, Ltd.  
Address: 106 West 14th Street, 7th Floor  
City/State/Zip: Kansas City, MO 64105 **KCC**  
Purchaser: \_\_\_\_\_ **JAN 13 2003**  
Operator Contact Person: Jeff Mohajir  
Phone: (816) 474-7777 **CONFIDENTIAL**  
Contractor: Name: Layne Christensen Canada, Ltd.  
License: 32999  
Wellsite Geologist: Larry Weis

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Exp. Calc. etc.)

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_ **JAN 13 2003**  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth \_\_\_\_\_ **DEPRIVATION DIVISION WICHITA, KS**  
 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. D-28098

September 20, 02 October 1, 2002  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 125-30181 0000  
County: Montgomery  
NW SE SW Sec. 4 Twp. 33 S. R. 16  East  West  
857 feet from (S) N (circle one) Line of Section  
1625 feet from E / (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW (SW)  
Lease Name: Schmidt Well #: 14-4  
Field Name: Brewster  
Producing Formation: Cherokee Coals  
Elevation: Ground: 823 Kelly Bushing: 826  
Total Depth: 2073 Plug Back Total Depth: 2030  
Amount of Surface Pipe Set and Cemented at 21 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1487  
feet depth to Surface w/ 325 sx cmt.  
ALT II WITH 12-28-06

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content N/A ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used N/A - Air Drilled  
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: \_\_\_\_\_  
Title: Agent Date: 1-13-03  
Subscribed and sworn to before me this 13<sup>th</sup> day of January, 2003.  
Notary Public: Sherryk Watson **SHERRY K. WATSON**  
**Notary Public - Notary Seal**  
**STATE OF MISSOURI**  
Date Commission Expires: \_\_\_\_\_

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

Jackson County  
My Commission Expires Nov. 20, 2006

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Side Two

ORIGINAL

Operator Name: Layne Christensen Canada, Ltd. Lease Name: Schmidt Well #: 14-4
Sec. 4 Twp. 33 S. R. 16 East West County: Montgomery

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 [x] No
Samples Sent to Geological Survey [ ] Yes [x] No
Cores Taken Yes [x] No
Electric Log Run [x] Yes No
List All E. Logs Run:
Compensated Density Neutron
Dual Induction
KCC
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Table with 3 columns: Name, Formation (Top), Depth and Datum, Sample Datum. Rows include Pawnee Lime, Excello Shale, Weir Pitt Coal, Mississippian, and Arbuckle.

CASING RECORD Table with 8 columns: 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. Rows for Surface and Casing.

ADDITIONAL CEMENTING / SQUEEZE RECORD Table with 5 columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

PERFORATION RECORD - Bridge Plugs Set/Type Table with 4 columns: Shots Per Foot, Specify Footage of Each Interval Perforated, Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used), Depth. Includes RECEIVED stamp and JAN 13 2003 stamp.

TUBING RECORD Table with 4 columns: Size, Set At, Packer At, Liner Run (Yes/No).

Table with 2 main sections: Date of First, Resumed Production, SWD or Enhr. (February 1, 2003) and Producing Method (Flowing, Pumping, Gas Lift, Other). Includes Estimated Production Per 24 Hours table.

Disposition of Gas and METHOD OF COMPLETION section. Includes checkboxes for Vented, Sold, Used on Lease, Open Hole, Perf., Dually Comp., Commingled, and Other (Specify).

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**GEOLOGIC REPORT**

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KANSAS CORPORATION COMMISSION

LAYNE CHRISTENSEN CANADA, LTD.  
SCHMIDT 14-4 SDW  
NW SE SW 857' FSL', 1625' FWL  
Section 4-33S-16E  
MONTGOMERY COUNTY, KANSAS

JAN 13 2003

CONSERVATION DIVISION  
WICHITA, KS

KCC

JAN 13 2003

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Drilled: September 20 – October 1, 2002  
Logged: September 27, 2002  
A.P.I.# 125-30181-00.00  
Ground Elevation: 823'  
Kelly Bushing Elevation: 826'  
Derrick Floor: 826'  
Depth Driller: 2073'  
Depth Logger: 1500' (Logged into the top of Arbuckle)  
Drilled with Mud, surface to 1500'  
Drilled with Water, 1500' to 2073'  
Surface Casing: 10.75" @ 22'  
Production Casing: 7" to 1492'  
Cemented by Blue Star: Two Stage Job  
Bottom Hole Temperature: 88 Degrees  
Open Hole Logs (Osage Wireline) : High Resolution Compensated Density  
Neutron; Dual Induction SFL/GR to 1500', no log from 1500' to 2073'

**FORMATION**

**TOPS (in feet below kelly bushing)**

Kansas City Group	83
Lenapah Lime	356
Altamont Lime	409
Wiser Sand	454
Pawnee Lime	566
Peru Sand	616
First Oswego	664
Summit Coal	705
Excello Shale	735
Iron Post	761
Bevier Coal	767
V-Shale Coal	786
Fleming Coal	797
Mineral Coal	829
Scammon Coal	848
Tebo Coal	883
Weir Pitt Coal	929

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Riverton Coal	1148
Mississippian	1164
Kinderhook Shale	1445
Compton Lime	1450
Woodford Shale	1454
Arbuckle Dolomite	1497

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JAN 13 2003

CONSERVATION DIVISION  
WICHITA, KS



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JAN 13 2003

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**BLUE STAR  
ACID SERVICE, INC.**

CONFIDENTIAL  
PO Box 103  
Eureka, Kansas 67045

Cementing Ticket  
and Invoice Number

**No 3846**

Date 9-27-02	Customer Order No.	Sect. 4	Trp. 33	Range 11/2	Truck Called Out	On Location	Job Began	Job Completed
Owner Layne Energy Mailing Address 1345 Highfield Crescent S.E. Well No. & Form Schmidt 14-4		Contractor Layne Christensen Co. City Calgary			Charge To Layne Energy State Alberta T2G5N2			
Depth of Well 1500	Depth of Job 870 (K-8)	Casing (New) Used	Size 7"	Weight 22 #	Size of Hole Ann. and Kind of Cement 9 1/8" 210 Y.S.	Cement Left in casing by	Request Necessity	feet 2
Kind of Job Longstring AND STAGE					Drillpipe Tubing	(Rotary Cable)	Truck No. # 12	

Price Reference No. #1

Price of Job 665.00

Second Stage

Mileage on Location

Other Charges

Total Charges 665.00

Remarks Safety meeting, Rig up to 7" casing  
Break circulation w/ 20 Bbl Fresh water  
Mix 20 SKs Thickset cement at 13.2 lbs per  
gallon, wash out pump elbow Release Plug.  
Displace w/ 35 Bbl water. Final Pump psi was  
300 lbs. Bump Plug to 1000 psi to close stage  
tool. Release Pressure. Plug Held. Good cement  
Returns to surface. 10 Bbl slurry = 35 SKs  
Job complete, Tear Down.

Operator Russell McQuay

Helper Steve - Justin - Jim

District Eureka

State Kansas

The above job was done under supervision of the owner, operator, or his agent whose signature appears below.

Thank you

Agent of contractor or operator

Sales Ticket for Materials Only

Quantity Sacks	BRAND AND TYPE	PRICE	TOTAL
210	SKs Thickset cement	10.75	2,257.50
4	60 Bbl VAC Truck	60.00	240.00
1	Load City water	15.00	15.00
4	7" Centralizers	32.00	128.00
	210 SKs Handling & Dumping	50	105.00
	11.55 Tons MISC 60	80	554.40
	Sub Total		3,964.90
	Discount		
	Sales Tax 6.3%		249.79
	Total		4,214.69

RECEIVED  
KANSAS CORPORATION COMMISSION  
JAN 13 2003  
CONSERVATION DIVISION  
WICHITA, KS

Delivered by Trunk No. #16

Delivered from Eureka

Signature of operator Russell McQuay

CONFIDENTIAL

KCC

JAN 13 2003

ORIGINAL

BLUE STAR ACID SERVICE, INC.

CONFIDENTIAL

PO Box 103 Eureka, Kansas 67045

Cementing Ticket and Invoice Number

No 3845

Date 9-27-02	Customer Order No.	Sec. 4	Trk. 33	Flange 1 1/2 E	Truck Called Out 2:00 AM	On Location 2:00 AM	Job Began 9:30 AM	Job Completed 10:15 AM
Owner Layne Energy		Contractor Layne Christensen Co.			Charge To Layne Energy			
Mailing Address 1345 Highfield crescent S.E.		City CALGARY			State ALBERTA T4G 5N2			
Well No. & Form Schmidt 14-4		Place Montgomery			County KANSAS			
Depth of Well 1500	Depth of Job 1492	Casing (New) Used	Size 7"	Weight 20#	Size of Hole Amt. and Kind of Cement 9 1/2" 115 SKs	Cement Left in casing by	Retention Necessity 41 feet	
Kind of Job Logging string 2 stage collar set at 870'		KB			Drillpipe		Rotary Cable	
1st stage		Tubing			Truck No. # 12			

Price Reference No. #1

Price of Job 665.00

Second Stage

Mileage 60 135.00

Other Charges

Total Charges 800.00

Remarks Safety Meeting, Rig up to 7" casing  
 Break circulation w/ 20 Bbl Fresh water. Mix  
 115 SKs Thickset cement w/ 8" Gilsonite P/1SK  
 @ 13.4 # Per gallon. SHUT DOWN, wash out Pump  
 & Lines Release Plug Displace w/ 59 Bbl Fresh  
 water. Final Pump PSI 250 PSI. Bump Plug to  
 900 PSI. Check float held, Drop Trip Bomb  
 wait 5 min. set D.V. Tool At 800 PSI. Pump  
 5 Bbl water to clear D.V. Tool. (Good circulation)  
 Rig up m.d Pump. Pump excess cement out of hole  
 (7 Bbl string) stage one complete.

Operator Russell McLoey (7 Bbl string) stage one complete.

Helper Steve - Justin - Jim District Eureka State KANSAS

The above job was done under supervision of the owner, operator, or his agent whose signature appears below.

Thank you

Agent of contractor or operator

Sales Ticket for Materials Only

Quantity	Secks	BRAND AND TYPE	PRICE	TOTAL
115	SKs	Thick set cement	10.75	1236.25
920#		Gilsonite B # P/1SK	30	276.00
RECEIVED KANSAS CORPORATION COMMISSION JAN 13 2003 CONSERVATION DIVISION WICHITA, KS				
4	hrs	80 Bbl vac. Truck	60.00	240.00
1		LOAD City water	15.00	15.00
1		9" Cement Filled Float shoe	200.00	200.00
3		7" Centralizers	32.00	96.00
1		7" Two stage cementing collar w/ plugs	2,600	2,600.00
		115 SKs Handling & Dumping	.50	57.50
		6.32 Tons Mileage 60	.80	303.36
		Delivered by # 116		5,824.11
		Delivered from Eureka		
		Signature of operator		
		Sub Total		
		Overcount		
		Sales Tax 6.3%		366.92
		Total		6,191.03