

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

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

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. _____
August 28, 2002 August 29, 2002
Spud Date or August 29, 2002 Date Reached TD August 29, 2002 Completion Date or
Recompletion Date August 29, 2002 Recompletion Date August 29, 2002

API No. 15 - 125-30148 **ORIGINAL**
County: Montgomery
SW SW Sec. 4 Twp. 33 S. R. 16 East West
941 feet from (S) N (circle one) Line of Section
443 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 #: 13-4
Field Name: Brewster
Producing Formation: Cherokee Coals
Elevation: Ground: 838 Kelly Bushing: 841
Total Depth: 1256 Plug Back Total Depth: 1214
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 1252
feet depth to Surface w/ 150 sx cmt.
ALT II WITHIN 2-8-07

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 JAN 1 0 2003
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No. CONSERVATION DIVISION WICHITA, KANSAS

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: Agent Date: 1-9-03
Subscribed and sworn to before me this 9th day of January, 2003
Notary Public: [Signature]
SHERRY K. WATSON
Notary Public - Notary Seal
Date Commission Expires: _____
STATE OF MISSOURI
Jackson County

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

My Commission Expires Nov. 20, 2006

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Side Two

ORIGINAL

Operator Name: Layne Christensen Canada, Ltd. Lease Name: Schmidt Well #: 13-4
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, Samples Sent to Geological Survey, Cores Taken, Electric Log Run, List All E. Logs Run, Compensated Density Neutron, Dual Induction. Includes checkboxes for Yes/No and a table for Log Formation (Top), Depth and Datum Sample.

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CASING RECORD table with 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.

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

PERFORATION RECORD - Bridge Plugs Set/Type table with columns: Shots Per Foot, PERFORATION RECORD, Acid, Fracture, Shot, Cement Squeeze Record, Depth.

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TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run. Includes Date of First, Resumed Production, SWD or Enhr. and Producing Method.

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

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ORIGINAL

GEOLOGIC REPORT

LAYNE CHRISTENSEN CANADA, LTD.
SCHMIDT 13-4
SW SW 941' FSL', 443' FWL
Section 4-33S-16E
MONTGOMERY COUNTY, KANSAS

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Drilled: August 28 – August 29, 2002
Logged: August 29, 2002
A.P.I.# 125-30148-00.00
Ground Elevation: 838'
Kelly Bushing Elevation: 841'
Derrick Floor: 841'
Depth Driller: 1256'
Depth Logger: 1256'
Drilled from surface to TD with air, Hammer Bit
Surface Casing: 8.65 to 21'
Production Casing: 5.5" to 1252'
Cemented by Blue Star
Bottom Hole Temperature: 88 Degrees
Open Hole Logs (Osage Wireline) : High Resolution Compensated Density
Neutron; Dual Induction SFL/GR

FORMATION

TOPS (in feet below kelly bushing)

Lenapah Lime	380
Altamont Lime	434
Wiser Sand	459
Pawnee Lime	572
First Oswego	670
Summit Coal	704
Excello Shale	736.2
Iron Post Coal	764
Bevier Coal	769.15
V-Shale	788.8
Croweburg Coal	793.55
Fleming Coal	799.7
Mineral Coal	826.6
Scammon Coal	848.3
Tebo Coal	915.6
Weir Pitt Coal	946.25
Blue Jacket	990.35
Rowe Coal	1093.2

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Riverton Coal
Mississippian

1152.2
1167.6

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Drilling Summary

Well Name: #107 -E-2-SW-SW-SEC-4 TWP-33S-R-16E AFE #: SCHMI 14
U.W.ID: 125-30148-0000 Est'd Cost: 39,325

Supervisor	Robert Winters	K.B.Elev.	803.3	No	Size	Type	Jets	Depth In	Depth Out	Feet	Hours	Cum. Hrs	F/Hrs	Condition	Serial #
Contractor	LAYNE RIG # 218	G.L.Elev.	800	1A	12 1/4	RR	OPEN		21	21.0	1.5	1.5	14.0	5-5-E-1	25418
Rig Release	30/8/2002 02:45	KB-Csg Fig	3.3				0								
		T.D.	1256	2	7 7/8	Concave	2x16/32	21	1256	1236.0	20.25	15.5	61.0	1-1	210554

Operation	Hours	Operation	Hours
Drilling	20.25	Clean to Bottom	
Tripping	3.75	Logging	1.50
Rig Service		Rig Repair	
Survey		Loss circ	
Circulate	2.25	Reaming	
Cementing	0.50	Coring	
Run Casing	1.75	Mud up	0.50

Safety Meeting	0.25	Spud in 02:00hrs-028-Aug-02	String	Depth	Sks	Cement and Additives		Returns	
STANDBY	0.50	Set surface 04:00hrs	Surface	21.0	8	Portland class "A"		Surf	
Move Rig	2.00	W.O.C	Intermediate						
Rig Up / Down	4.00	Hammer 7 7/8 to TD 12 00hrs, 29-Aug	Production	1252.0	150				
Nipple Up / Down		Wiper circ 1.5hrs, Trip, Log 1.5hrs	Plug			Thixotropic+gilsonite		Surf	
WOC / Weld	8.00	Case 5.5" Circ 1hr	Service Co.			BLUESTAR			
Lay Down Drill String		Cement with bluestar 22:15hrs							

Handle Tools		Plug down 22:45hrs-29-Aug-02	No.	Form/in	From	To	Description	From	To	Type & Remarks
Work Pipe		Clean tanks & rig out. 02:45hrs, 30-Aug						21	1256	Air
										Airmist Hammer

Company	OSAGE									
Interval	Type	Interval	Type							
T.D. Surf	Daul ind									
	Bulk Dens									
				Supplier	FUD MUD					
				Supplier	Tristate & Spartan					

Surface	Major bed rock 0 - 30 ft	String	Size	Wt ght	Grade	Thread	Range	Landed Depth	Make	Remarks
Main hole	20.25 hrs	Surface	8.65	23	H-40	ST & C -8ms	3	21.00	Paragon	
	6" R Hammer, 7 7/8 concave bit	Intermediate								
	Run wiper with 7 7/8 insert bit	Production	5.5	15.5	J-55	ST&C-8ms	3	1252.0	Newport	
	Cement density readings, 12.7, 12.7, 12.8, 12.8, 13.4, 13.4, 13.4	Liner								
	Cement Mix, 150sks Thickset cement	Other								
	10# Gilsonite per/sk	Other								
	4% Gel	Remarks returns to surface								
	6% Caf seal									
	2% Cacl2									

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TO: 818164747272

P: 3/5

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BLUE STAR
ACID SERVICE, INC.

CONFIDENTIAL

CONSERVATION DIVISION
WICHITA, KANSAS

PO Box 103
Eureka, Kansas 67045

Cementing Ticket
and Invoice Number

No 3737

Date	Customer Order No.	Sect	Wp	Range	Truck Called Out	On Location	Job Began	Job Completed
8-29-02		4	335	16E	7:00 pm	10:00 pm	10:18 pm	11:00 pm
Owner		Contractor			Charge To			
Layne Energy		Layne Christensen Company			Layne Energy			
Mailing Address		City			State			
1345 Highfield Crescent S.E.		CALGARY			ALBERTA T4G5N2			
Well No. & Form		Place		County		State		
Schmidt # 13-4		Montgomery		78		KANSAS		
Depth of Well	Depth of Job	Charge	Size	Weight	Size of Hole Amt. and Kind of Cement	Cement Left in casing by	Request Necessity	
1256'	1256'	(New)	5 1/2	15.50	150 SKS		43'	
Kind of Job	Tubing		Drillpipe	Rotary Cable		Truck No.		
Longstring						#12		

Price Reference No.	# 1
Price of Job	665.00
Second Stage	
Mileage	135.00
Other Charges	
Total Charges	800.00

Remarks: Safety Meeting. Rig up to 5 1/2 casing. Break Circulation with 15 bbl fresh water. Mixed 70SKS Thick Set Cement with Gilsomite @ 12.7 # per gal. Mixed 80 SKS Thick Set Cement with Gilsomite @ 13.4 # per gal. Shut down. Wash out Pump & Lines. Release Plug. Displace with 28.75 bbl fresh water. RAK 20PM. Final Pumping Pressure 450 PSI. Bump Plug to 950 PSI. Wait 5 minutes. Check float. Float Held. Shut casing in @ 0 PSI. Good Cement Returns to Surface = 12 bbl slurry = 38 SKS. Job Complete. Rig down.

Cementor: Kevin McCoy
 Helper: Mike, Monti, Justin District: EUREKA State: KANSAS
 The above job was done under supervision of the owner, operator, or his agent whose signature appears below.
Thank you *J.S. Haller* Agent of contractor or operator

Sales Ticket for Materials Only

Quantity Sacks	BRAND AND TYPE	PRICE	TOTAL
150 SKS	Thick Set Cement	10.75	1612.50
1500 #	Gilsomite 10 # per 1SK	.30	450.00
3 hrs	80 Bbl VAC TRUCK	60.00	180.00
1	Load City water	15.00	15.00
1	5 1/2 INSET Flapper Valve	92.00	92.00
1	5 1/2 Top Rubber Plug	40.00	40.00
	150 SKS Handling & Dumping	.50	75.00
	8.25 TONS Mileage 60	.80	396.00
	Sub Total		3660.50
	Delivered by Truck No. #16	Discount	
	Delivered from EUREKA	Sales Tax 6.3%	230.61
	Signature of operator Kevin MCC	Total	3891.11