

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

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

KCC

OCT 26 2002

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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 26, 2002 August 26, 2002
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 125-30147 000
County: Montgomery
SW 661 feet from (S) N (circle one) Line of Section
909 feet from E / (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW (SW)
Lease Name: Barnhart Well #: 13-3
Field Name: Brewster

Producing Formation: Cherokee Coals
Elevation: Ground: 801 Kelly Bushing: 804
Total Depth: 1170 Plug Back Total Depth: 1127
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 1170
feet depth to Surface w/ 150 sx cmt.
ALT JEWELL 2-5-07

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: JAN 10 2003 License No. _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____
County: 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: _____
Title: Agent Date: 1-9-03
Subscribed and sworn to before me this 9th day of January, 2003
Notary Public: Sherryk Watson
Date Commission Expires: _____

SHERRY K. WATSON
Notary Public - Notary Seal
STATE OF MISSOURI

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: Barnhart Well #: 13-3
Sec. 3 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 (Attach Additional Sheets)
Samples Sent to Geological Survey
Cores Taken
Electric Log Run (Submit Copy)
List All E. Logs Run:
Compensated Density Neutron
Dual Induction
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Log Formation (Top), Depth and Datum Sample
Name Top Datum
Pawnee Lime 485 KB 319
Excello Shale 635.8 KB 168
V Shale 689 KB 115
Weir - Pitt Coal 827.2 KB -23
Mississippian 1061 KB -257

CASING RECORD New Used
Report all strings set-conductor, surface, intermediate, production, etc.
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
Specify Footage of Each Interval Perforated
Acid, Fracture, Shot, Cement Squeeze Record
(Amount and Kind of Material Used)
Depth
STATE COMMISSION
JAN 10 2003
CONSERVATION DIVISION
WENTZEL KANSAS

TUBING RECORD
Size Set At Packer At Liner Run Yes No
Date of First, Resumed Production, SWD or Enhr.
SI - Waiting on completion
Producing Method Flowing Pumping Gas Lift Other (Explain)
Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

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

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GEOLOGIC REPORT

LAYNE CHRISTENSEN CANADA, LTD.
BARNHART 13-3
SW SW 661' FSL', 909' FWL
Section 3-33S-16E
MONTGOMERY COUNTY, KANSAS

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STATE OF KANSAS
DEPARTMENT OF GEOLOGY

JAN 10 2003

CONSERVATION DIVISION
WICHITA, KANSAS

Drilled: August 26 – August 26, 2002
Logged: August 26, 2002
A.P.I.# 125-30147-00.00
Ground Elevation: 801'
Kelly Bushing Elevation: 804'
Derrick Floor: 804'
Depth Driller: 1170'
Depth Logger: 1170'
Drilled from surface to TD with air, Hammer Bit
Surface Casing: 8.65 to 21'
Production Casing: 5.5" to 1170'
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	276
Altamont Lime	341
Wiser Sand	359
Pawnee Lime	485
First Oswego	568
Summit Coal	606
Excello Shale	635.8
Iron Post Coal	665
Bevier Coal	671.6
V-Shale	689
Croweburg Coal	693.4
Fleming Coal	710
Mineral Coal	730.6
Scammon Coal	756
Tebo Coal	795.6
Weir Pitt Coal	827.2
Blue Jacket	856.7
Rowe Coal	985.8

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Riverton Coal
Mississippian

1043.8
1061

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OCT 26 2002

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ORIGINAL

STATE OF KANSAS
DEPARTMENT OF REVENUE

JAN 10 2003

CONSERVATION DIVISION
WICHITA, KANSAS

CONFIDENTIAL

KCC

STATE OF KANSAS

ORIGINAL

OCT 26 2002

JAN 10 2003

BLUE STAR ACID SERVICE, INC.

CONFIDENTIAL

CONSERVATION DIVISION WICHITA, KANSAS

PO Box 103 Eureka, Kansas 67045

Cementing Ticket and Invoice Number

No. 3648

Date	Customer Order No.	Well	Trp.	Range	Truck Called Out	On Location	Job Began	Job Completed
8-27-02		3	335	16E	4:30 PM	6:15 PM	7:05	7:40
Owner Layne Energy		Contractor Layne Christensen Company			Charge To Layne Energy			
Mailing Address 1345 Highfield Crescent S.E.		City CALGARY			State ALBERTA T2G 6N2			
Well No. & Form BARNHART #13-3		Place County			State KANSAS			
Depth of Well 1170'	Depth of Job 1170'	Casing (New) (Used)	Size 5 1/2	Weight 15.50	Size of Hole Amt. and Kind of Cement 150 SKS	Cement Left in casing by	Request (Necessity) 43' feet	
Kind of Job Longstring					Drillpipe	Rotary Cable		Truck No. #12

Price Reference No.	# 1
Price of Job	665.00
Second Stage	
Mileage 607	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 70 SKS Thick Set Cement with Gilsomite @ 12.8 # per gal. Mixed 80 SKS Thick Set Cement with Gilsomite @ 13.4 # per gal. Wash out pump & lines. Shut down. Release Plug. Displace with 26.5 bbl fresh water @ 2 bpm. Final Pumping Pressure 350 PSI. Bump Plug to 900 PSI. Wait 5 minutes. Check float. float held. Shut casing in @ 0 PSI. Good Cement Returns to Surface = 14 BBL Slurry = 43 SKS. Job Complete. Rig down

Cementer: 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.
 J.C. Holt
 Agent of contractor or operator

Thank You

Sales Ticket for Materials Only

Quantity	BRAND AND TYPE	PRICE	TOTAL
150 SKS	Thick Set Cement	10.75	1612.50
1500 #	Gilsomite 10 # per/gal	.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
Plugs	150 SKS Handling & Dumping	.50	75.00
	8.25 TONS Mileage 60	.80	396.00
	Delivered by #16 Truck No.		Sub Total 3660.50
	Delivered from EUREKA		Discount
	Signature of operator Kevin McCoy	Sales Tax 6.3%	230.61
		Total	3891.11



Drilling Summary

Well Name BARNHART-SW-SW-SEC-3-TWP-33S-R-16E AFE # BARNHART-13
U.W.ID 125-30147-0000 Est'd Cost 45,422

Table with columns: Supervisor (Robert Winters), Contractor (LAYNE RIG # 219), Rig Release (24:00HRS-27AUG-02), Operation (Drilling, Tripping, Rig Service, Survey, Circulate, Cementing, Run Casing), Hours, Operation (Clean to Bottom, Logging, Rig Repair, Loss circ, Reaming, Coring, Mud up), Hours, No, Size, Type, Jets, Depth In, Depth Out, Feet, Hours, Cum Hrs, F/Hrs, Condition, Serial #.

Table with columns: Safety Meeting (0.25), STANDBY (7.50), Move Rig (2.00), Rig Up / Down (1.50), Nipple Up / Down, WOC / Weld (8.00), Lay Down Drill String, Hand's Tools, Work Pipe, String, Depth, Skts, Cement and Additives (Portland class "A", Thixotropic+gilsonite), Returns (Surf).

Table with columns: Company (OSAGE), Interval, Type, Interval, Type, T.D. Surf, Bulk Dens, Supplier, FUD MUD, No, Form/in, From, To, Description, From, To, Type & Remarks (Air, Air/mist Hammer).

Table with columns: Surface (Major bed rock 0 - 30 ft.), Main hole (15.5 hrs to drill main hole), 6" R Hammer, 7 7/8 concave bit, Run wiper with 7 7/8 insert bit, Cement density readings, Cement Mix, 10# Gilsonite per/sk, 4% Gel, 6% Cal seal, 2% Cacl2, String, Size, Weight, Grade, Thread, Range, Landed Depth, Make, Remarks.

Table with columns: Remarks (returns to surface), Supplier (Tristate & Spartan), String, Size, Weight, Grade, Thread, Range, Landed Depth, Make, Remarks.

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JAN-17-1999 11:51P FROM:
KCC
OCT 26 2002
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JAN 10 2003
ORIGINAL
TO: 818164747272 P: 4/4