

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
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 17, 2002 August 18, 2002
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 125-30137
County: Montgomery
NE NW SE SW Sec. 31 Twp. 31 S. R. 15 East West
681 feet from S / (circle one) Line of Section
2020 feet from E / (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: B. Chism Well #: 3-31
Field Name: Jefferson-Sycamore
Producing Formation: Cherokee Coals
Elevation: Ground: 924 Kelly Bushing: 927
Total Depth: 1459 Plug Back Total Depth: 1438
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 1459
feet depth to Surface w/ 195 sx cmt.
ALT II WTR 12-11-06

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.: JAN 09 2003

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: 1-8-03
Subscribed and sworn to before me this 8 day of January,
19 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: B. Chism Well #: 3-31
Sec. 31 Twp. 31 S. R. 15 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 (Attach Additional Sheets)

Samples Sent to Geological Survey [] Yes [x] No

Cores Taken Yes [x] No

Electric Log Run [x] Yes No (Submit Copy)

List All E. Logs Run:

Compensated Density Neutron
Dual Induction

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Table with 3 columns: Name, Formation (Top), Depth and Datum, Sample Datum. Rows include Pawnee Lime, Excello Shale, V Shale, Weir - Pitt Coal, and Mississippian.

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. Rows for Surface and Casing.

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, Specify Footage of Each Interval Perforated, Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used), Depth. Includes RECEIVED stamp and date JAN 09 2003.

TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run (Yes/No). Includes Date of First, Resumed Production, SWD or Enhr. (SI - Waiting on completion) and Producing Method (Flowing, Pumping, Gas Lift, Other).

Disposition of Gas: [] Vented [] Sold [] Used on Lease [] Open Hole [] Perf. [] Dually Comp. [] Commingled [] Other (Specify)
METHOD OF COMPLETION: (If vented, Submit ACO-18.)
Production Interval



Drilling Summary

Well Name: W.CHISM-SW-NW-SEC-32-TWP-31S-R-15E
 U.W.ID: 125-30131-0000
 AFE #: W.CHISM 5-32
 Est'd Cost: 39,618

Supervisor: Robert Winters
 Contractor: LAYNE RIG # 219
 Rig Release: 17-AUG-02,01:30HRS

Time Summary		Bit Summary															
Operation	Hours	Operation	Hours	No	Size	Type	Jets	Depth In	Depth Out	Feet	Hours	Cum. Hr	F/Hrs	Condition	Serial #		
Drilling	39.00	Clean to Bottom	3	7 7/8	R84	3X14	21	726	866	705.0	19.5	19.5	36.2	9/4/00	c85286		
Tripping	8.25	Logging	2.75	4	7 7/8	UD513	5X14	866	1474	608.0	3.5	3.5	40.0	1-1-1	C85274		
Rig Service		Rig Repair	1.00							0.0			41.9	1CHIPPED	467		
Survey	0.00	Loss circ	1.25							0.0			0.0				
Circulate	4.50	Reaming	0.00							0.0			0.0				
Cementing	0.75	Coring	0.00							0.0			0.0				
Run Casing	1.75	Mud up	0.75							0.0			0.0				
Safety Meeting	0.25									0.0			0.0				

Cementing Details				D.S.T Summary	
String	Depth	Sks	Service Co.	No.	Form'in
Surface	21.0	8	REGULAR CLASS "A" CEMENT 90SKS		
Intermediate			THICK SET CEMENT 105SKS		
Production	1474.0	195	BLUE STAR		

Log Record				Mud Summary			
Company	Interval	Type	Interval	From	To	Type & Remarks	
OSAGE	T.D.Surf	Daul ind				Air	
		Bulk Dens				AIR/MISTINSERT 7 7/8	
						PDC-866 TO 1474,MUD ROTARY	

Tubular Details									
Supplier	String	Size	Weight	Grade	Thread	Range	Landed Depth	Make	Remarks
Tristate & Spartan	Surface	8.65	23	H-40	T & C - 8rn	3	21.00	Paragon	
	Intermediate	0	0	0	0	0		0	
	Production	5.5	15.5	J-55	LT&C-8md	3	1474.0	Newport	
	Liner	0	0	0	0	0		0	
	Other								
	Other								

Remarks: Rig to use blue star , Good returns to surface, rig worked casing ,2 cement baskets, 1224ft&915ft

Drilling Remarks & Problems
 Surface: Major bed rock 0 - 30 ft.
 Main hole: 39 hrs Main hole
 Used two 7 7/8 inserts to drill 866ft main hole ,both out side
 Gauge gone.
 Rig finished hole with United diamond ud513 PDC,one chipped pack on bit when hole was finished,chipped pack happened when bit was tripped in to 866ft, hit B.O.P.
 Loss of circulation @966ft, used 45gel sks, 4 Lcm sks, regained circulation , possible mud ring was cause of circulation loss.
 RW

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RECEIVED KANSAS CORPORATION COMMISSION

ORIGINAL

JAN 09 2003

CONSERVATION DIVISION WICHITA, KS

WELL DATA SUMMARY

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DATE OF FIRST DAILY REPORT: _____
 LAST DAY OF DAILY REPORT: _____
 WELL NAME: 5-32
 OIL COMPANY: LAYNE ENERGY
 FIELD NAME: JACKSON - SYCAMORA
 PROVINCE: KANSAS
 UNIQUE WELL ID.: 125-30131.00.00
 AFE NUMBER: WCHISM 5-32
 LICENSE NUMBER: 125-30131 0000
 WORKING INT. (%): _____
 GROUND ELEVATION: 956
 KS ELEVATION: 959.3
 DRILLING FOREMAN: Ray Smith
 FINAL DRILLED TD (feet): 1474
 LSD: _____
 SECTION: 32
 TOWNSHIP: 31
 RANGE: 15
 MERIDIAN (WEST OF): _____

Casing Details	
SURFACE CASING	
SUPPLIER	
SIZE (in)	<u>8 5/8</u>
WEIGHT	<u>23</u>
GRADE	<u>H-40</u>
THREAD	<u>STC 8 RD.</u>
RANGE	<u>3</u>
MANUFACTURER	<u>PARALYN</u>
FEET USED	<u>1475</u>

PRODUCTION CASING	
SIZE in'	<u>5.5</u>
WEIGHT	<u>15.5</u>
GRADE	<u>J55</u>
THREAD	<u>2T+C 8 RD.</u>
RANGE	<u>3</u>
MANUFACTURER	<u>NEW ART</u>
FEET USED	

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PRODUCTION CASING STICK DIAGRAM
 CASING TALLEY

1	<u>43.3</u>
2	<u>43.3</u>
3	<u>43.2</u>
4	<u>43.3</u>
5	<u>43.2</u>
6	<u>43.2</u>
7	<u>43.4</u>
8	<u>43.4</u>
9	<u>43.3</u>
10	<u>43.4</u>
11	<u>43.8</u>
12	<u>42.8</u>
13	<u>43.3</u>
14	<u>43.3</u>
15	<u>41.2</u>
16	<u>43.4</u>
17	<u>42.3</u>
18	<u>43.3</u>
19	<u>43.3</u>
20	<u>43.3</u>
21	<u>43.2</u>
22	<u>43.2</u>
23	<u>43.3</u>
24	<u>43.4</u>
25	<u>43.2</u>
26	<u>43.4</u>
27	<u>43.2</u>
28	<u>43.3</u>
29	<u>43.4</u>
30	<u>43.2</u>
31	<u>43.3</u>
32	<u>43.3</u>
33	<u>43.3</u>
34	<u>43.3</u>
35	<u>43.4</u>
36	<u>43.4</u>

CEMENTING INFORMATION

LEAD CEMENT WEIGHT	<u>12.6</u>	LBS
LEAD CEMENT DEPTH		FEET
TAIL CEMENT WEIGHT	<u>13.6</u>	LBS
TAIL CEMENT DEPTH		FEET
BARRELS TO DISPLACE		BBLs
RETURNS TO SURFACE		YES/NO

CONSERVATION DIVISION
 WICHITA, KS

COMMENTS ON CEMENT JOB

WEIGHTS BY MWD SCALE
12.7 13.6 WEIGHT TAKEN APPROX
12.5 13.5 EVERY 1.5 MIN.
12.5 SAMPLES WERE TAKEN
12.6 AND SET UP FAST
12.6 BASKET A 915" - 1224"
12.8 WE ALSO USED CITY
13 WATER AS FOUND
13.6 WATER WAS LESS OF
13.6
13.7
13.6 MUCH BETTER JOB BY
13.5 BLUE STAR.

LEAVE
 OUT
 15
 36
 37

GENERAL COMMENTS OF WELL COMPLETION

THE COST OF CEMENTING
IS NO MORE WITH BLUE STAR

TOTAL CASING USED

1475

21.3 (32)

3925.55

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ORIGINAL

BLUE STAR ACID SERVICE, INC.

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PO Box 103
Eureka, Kansas 67045

Cementing Ticket
and Invoice Number

No 3702

Date	Customer Order No	Sect	Twp.	Range	Truck Called Out	On Location	Job Began	Job Completed
8-16-02		32	315	15E		7:30 pm	8:50 pm	9:30 pm
Owner LAYNE Energy		Contractor CO. Tools / LAYNE CHRISTIANSON CANADA			Charge To LAYNE Energy			
Mailing Address 1345 Highfield Cresent S.E.		City CALGARY			State ALBERTA T2G5N6			
Well No. & Form W. Chism #5-32		Place MONTGOMERY			State KANSAS			
Depth of Well 1474'	Depth of Job 1474'	Casing (New) (Used)	Size 5 1/2"	Weight 15.50	Size of Hole Amt. and Kind of Cement 195 SKS	Cement Left in casing by	Regular Necessity	0' feet
Kind of Job Longstring					Drillpipe	(Pottery) Cable	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 5 1/2" casing. Break Circulation with 15 bbl fresh water. Mixed 90 SKS Regular Cement with 10" Gilsonite per/sk, 4% Gel, 2% Cacl₂ @ 12.5" per/sk. Tail in with 105 SKS Thick Set Cement with 10" Gilsonite per/sk @ 13.6" per/gal. Shut down. Wash out Pump & Lines. Release Plug. Displace with 35.0 bbl fresh water @ 200 psi. Final Pumping Pressure 500 PSI. Bump Plug to 1000 PSI. Wait Five minutes. Check float. float held. Shut casing in @ 0 PSI. Good Cement Returns to surface = 45 SKS = 15 bbl slurry. Job Complete. Rig down.

Cementor: Kevin McCoy
 Helper: Mike, Steve, Jim, Russ
 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.E. Halton
 Agent of contractor or operator

Sales Ticket for Materials Only

Quantity Sacks	BRAND AND TYPE	PRICE	TOTAL
90 SKS	Regular Class "A" Cement	7.75	697.50
170 #	Cacl ₂ 2%	.35	59.50
340 #	Gel 4%	9.50	32.30
900 #	Gilsonite 10" per/sk	.30	270.00
105 SKS	Thick Set Cement	10.75	1128.75
1050 #	Gilsonite 10" per/sk	.30	315.00
RECEIVED KANSAS CORPORATION COMMISSION			
3 hrs	80 Bbl Vac Truck	60.00	180.00
1	Load City water	15.00	15.00
JAN 09 2003			
1	5 1/2" Top Rubber Plug	40.00	40.00
CONSERVATION DIVISION WICHITA, KS			
	195 SKS Handling & Dumping	.50	97.50
Plugs	10.0" Tens Mileage 60	.80	480.00
	Sub Total		4,115.55
Delivered by Truck No. #4, #16	Discount		
		1.00	259.70