

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 SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows: DEC 27 2002

Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: 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. _____

July 1, 2002 July 4, 2002 SIGW
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 125-30117 0000
County: Montgomery
NW-NE- Sec. 16 Twp. 31 S. R. 14 East West
672 feet from S / (circle one) Line of Section
1972 feet from (circle one) E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: E. McCabe Well #: 2-16
Field Name: Jefferson-Sycamore

Producing Formation: Cherokee Coals
Elevation: Ground: 869 Kelly Bushing: _____
Total Depth: 1512 Plug Back Total Depth: 1511
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 1512 TD
feet depth to Surface w/ 275 sx cmt.

Drilling Fluid Management Plan All 11 EOL 1-6-05
(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.

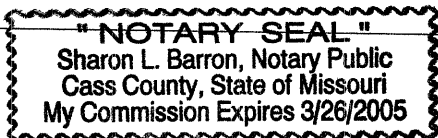
Signature: _____

Title: Agent Date: 12-19-02

Subscribed and sworn to before me this 19th day of December, 2002

Notary Public: Sharon L Barron

Date Commission Expires: _____



KCC Office Use ONLY

NO Letter of Confidentiality Attached
If Denied, Yes Date: _____

YES Wireline Log Received

NO Geologist Report Received

_____ UIC Distribution

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Side Two

ORIGINAL

Operator Name: Layne Christensen Canada, Ltd. Lease Name: E. McCabe Well #: 2-16
Sec. 16 Twp. 31 S. R. 14 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 907 -38
Excello Shale 1034 -165
V Shale 1098 -229
Weir - Pitt Coal N/A
Mississippian 1410 -541

CASING RECORD
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

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.
E. McCABE 2-16
C NW NE 672' FNL, 1972' FEL
Section 16-31 South 14 East
MONTGOMERY COUNTY, KANSAS

KCC

SEP 01 2002

CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

DEC 27 2002

CONSERVATION DIVISION
WICHITA, KS

Drilled: July 2 - July 4, 2002
Logged: July 4, 2002
Ground Elevation: 869'
Kelly Bushing Elevation: 872'
Derrick Floor: 872'
Depth Driller: 1513'
Depth Logger: 1512'
Cored From 881' to 1417' (6.25" Hole)
Surface Casing: 10.75 @ 21,
Production Casing: 5.5" to 1512'
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)

Kansas City Group	432
Lenapah Lime	721
Altamont Lime	772
Mulberry Coal	902
Pawnee Lime	907
First Oswego	992
Little Osage Shale	1016
Excello Shale	1034
Bevier Coal	1080
V-Shale	1098
Mineral Coal	1143
Bluejacket Coal	1251
Dry Wood Coal	1290
Rowe Coal	1362
Riverton Coal	1404
Mississippian	1410



Drilling Summary

Well Name E McCABE C-NW-NE-SEC-16-TWP-31S-RG-14E AFE # McCABE 2-16
U.W.ID 125-30117-0000 Est'd Cost 81,671
Lic. # 125-30118-0000

Table with columns: LAYNE ENERGY, Days From Spud, No, Size, Type, Jets, Depth In, Depth Out, Feet, Hours, Cum Hrs, Ft/Hrs, Condition, Serial #. Includes rows for Supervisor (Dave Mahowich), Contractor (LAYNE RIG # 219), and Rig Release (04-JULY-02, 24:00HRS).

Time Summary table with columns: Operation, Hours, Operation, Hours. Includes rows for Drilling (15.00), Tripping (7.50), Rig Service, Survey, Circulate (2.00), Cementing (1.00), Run Casing (2.75).

Cementing Details table with columns: String, Depth, SCS, Cement and Additives, Returns. Includes rows for Surface (21.0, 8, Portland class 'A'), Intermediate, Production (1512.1, 275, THIXOTROPIC + 2% Cacl2), and Liner.

D.S.T Summary table with columns: No, Form in, From, To, Description, From, To, Type & Remarks. Includes rows for KANSAS CORPORATION COMMISSION and CONSERVATION DIVISION WICHITA, KS.

Log Record table with columns: Company, Interval, Type, Interval, Type. Includes rows for T.D Surf (Dauling, Bulk Dens).

Tubular Details table with columns: Supplier, Tristate & Spartan.

Drilling Remarks & Problems table with columns: Surface, Main hole, corng, reaming, String, Size, Weight, Grade, Thread, Range, Landed Depth, Make, Remarks. Includes remarks like 'Major bed rock 0 - 30 ft.' and 'Using 7/8 insert for reaming Core holes. Pyrite too hard on p'.

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JUL-15-2002 01:15P FROM:

TD: 818164747272

P: 4/7

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ORIGINAL

CONSOLIDATED OIL WELL SERVICES, INC.
 211 W. 14TH STREET, CHANUTE, KS 66720
 316-431-9210 OR 800-467-8676

SEP 01 2002

TICKET NUMBER 21668

LOCATION Bartlesville

CONFIDENTIAL TREATMENT REPORT

FOREMAN Tracy L. Williams

DATE <u>2-9-02</u>	CUSTOMER ACCT #	WELL NAME <u>E. M. Cabe #2-16</u>	QTR/QTR	SECTION <u>16</u>	TWP <u>31S</u>	RGE <u>14E</u>	COUNTY <u>Montgomery</u>	FORMATION
CHARGE TO <u>Layne Energy</u>				OWNER				
MAILING ADDRESS				OPERATOR				
CITY				CONTRACTOR				
STATE		ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION				TIME LEFT LOCATION				

WELL DATA

HOLE SIZE 7 7/8
 TOTAL DEPTH 1512

CASING SIZE 5 7/8 **RECEIVED**
 CASING DEPTH
 CASING WEIGHT
 CASING CONDITION

TUBING SIZE
 TUBING DEPTH
 TUBING WEIGHT
 TUBING CONDITION

PACKER DEPTH

PERFORATIONS

SHOTS/FT

OPEN HOLE

TREATMENT VIA

TYPE OF TREATMENT

<input type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input checked="" type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITROGEN

PRESSURE LIMITATIONS

	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTION PRIOR TO JOB

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Ran 15 bbl of Oye water then started in with 10.5# cement. Ran 30 rls of 10.5# & finished up with 13.8# Cement. Shut down & washed up behind plug. Pumped plug to bottom & set float shoe. Shut in. Circulated 20 bbl cement to p.t.

PRESSURE SUMMARY

BREAKDOWN or CIRCULATING	psi	<u>500</u>
FINAL DISPLACEMENT	psi	<u>200</u>
ANNULUS	psi	
MAXIMUM	psi	<u>1200</u>
MINIMUM	psi	
AVERAGE	psi	
ISIP	psi	<u>0</u>
MIN SIP	psi	
MIN SIP	psi	

TREATMENT RATE

BREAKDOWN BPM	<u>4 1/2</u>
INITIAL BPM	<u>4 1/2</u>
FINAL BPM	<u>4 1/2</u>
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	

AUTHORIZATION TO PROCEED [Signature] TITLE _____ DATE 02/07/02

ALL THE TERMS AND CONDITIONS STATED ON THE REVERSE SIDE ARE INCORPORATED AS PART OF THIS SALE.