

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:
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 14, 2002 August 16, 2002
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 125-30131 0000
County: Montgomery
SW_NW_ - - Sec. 32 Twp. 31 S. R. 15 East West
1948 feet from S / (circle one) Line of Section
670 feet from E / (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: W. Chism Well #: 5-32
Field Name: Jefferson-Sycamore
Producing Formation: Cherokee Coals
Elevation: Ground: 960 Kelly Bushing: 963
Total Depth: 1474 Plug Back Total Depth: 1431
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 1474
feet depth to Surface w/ 195 sx cmt.
Act II with 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: KANSAS CORPORATION COMMISSION
Operator Name: _____
Lease Name: _____ License No.: JAN 09 2003
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: CONSERVATION DIVISION WICHITA, KS

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: 1-8-03
Subscribed and sworn to before me this 8 day of January,
2003
Notary Public: Sherry K. Watson SHERRY K. WATSON
Notary Public - Notary Seal
STATE OF MISSOURI
Jackson County
Date Commission Expires: _____
My Commission Expires Nov. 20, 2006

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

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Operator Name: Layne Christensen Canada, Ltd. Lease Name: W. Chism Well #: 5-32
Sec. 32 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 (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
KCC
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Log Formation (Top), Depth and Datum Sample
Name Top Datum
Pawnee Lime 880 KB 83
Excello Shale 1027 KB -64
V Shale 1077 KB -114
Weir - Pitt Coal 1196 KB -233
Mississippian 1391 KB -428

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
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WICHITA, KS

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

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

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GEOLOGIC REPORT

LAYNE CHRISTENSEN CANADA, LTD.
W. CHISM 5-32
SW NW 1,948' FNL', 670' FWL
Section 32-31S-15E
MONTGOMERY COUNTY, KANSAS

KCC

OCT 14 2002

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Drilled: August 14 – August 16, 2002
Logged: August 16, 2002
A.P.I.# 125-30131-00.00
Ground Elevation: 960'
Kelly Bushing Elevation: 963'
Derrick Floor: 963'
Depth Driller: 1474'
Depth Logger: 1474'
Drilled from surface to TD with air
Surface Casing: 8.65 to 21'
Production Casing: 5.5" to 1474'
Cemented by Blue Star
Bottom Hole Temperature: 88 Degrees
Open Hole Logs (Osage Wireline) : High Resolution Compensated Density
Neutron; Dual Induction SFL/GR

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FORMATION

TOPS (in feet below kelly bushing)

| | |
|-------------------|--------|
| Layton Sand | 300 |
| Kansas City Group | 400 |
| Lenapah Lime | 696 |
| Altamont Lime | 740 |
| Wiser Sand | 836 |
| Mulberry Coal | 874 |
| Pawnee Lime | 880 |
| Peru Sand | 906 |
| First Oswego | 970 |
| Summit Coal | 1003 |
| Excello Shale | 1027 |
| Mulky Coal | 1034.3 |
| Bevier Coal | 1055 |
| V-Shale | 1077 |
| Mineral Coal | 1124 |
| Tebo Coal | 1177 |
| Weir Pitt Coal | 1196 |
| Rowe Coal | 1337 |

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Riverton Coal
Mississippian

1381
1391

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Drilling Summary

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

| LAYNE ENERGY | | | | Bit Summary | | | | | | | | | Lic. # 125-30131-0000 | | | | |
|-----------------------------|---|--------------------------------------|-------|---|-----------|--------|--------------------------------|-------------|-----------|--------------|----------|---------|----------------------------|-----------|----------|--------------------|--|
| Supervisor | Robert Winters | K.B.Elev. | 965.3 | No | Size | Type | Jets | Depth In | Depth Out | Feet | Hours | Cum. Hr | F/Hrs | Condition | Serial # | | |
| Contractor | LAYNE RIG # 219 | G.L.Elev. | 962 | 1A | 12 1/4 | RR | OPEN | 0 | 21 | 21.0 | 1.5 | 1.5 | 14.0 | 5-5-E-I | 26418 | | |
| Rig Release | 17-AUG-02,01:30HRS | KB-Csg Flg | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0% | 0 | | |
| Time Summary | | | | T.D. | 1474 | 2 | 7 7/8 | R84 | 3X14 | 21 | 726 | 705.0 | 19.5 | 36.2 | 9/4/00 | c85286 | |
| Operation | Hours | Operation | Hours | 3 | 7 7/8 | R84 | 3X14 | 726 | 866 | 140.0 | 3.5 | 3.5 | 40.0 | 1-1-I | C85274 | | |
| Drilling | 39.00 | Clean to Bottom | | 4 | 7 7/8 | UD513 | 5X14 | 866 | 1474 | 608.0 | 14.5 | 14.5 | 41.9 | 1CHIPPED | 467 | | |
| Tripping | 8.25 | Logging | 2.75 | | | | | | | 0.0 | | | 0.0 | | | | |
| Rig Service | | Rig Repair | 1.00 | | | | | | | 0.0 | | | 0.0 | | | | |
| 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 | | | | |
| Cementing Details | | | | | | | | | | | | | | | | | |
| Safety Meeting | 0.25 | Spud in 14-aug-02,02:00hrs | | String | Depth | Sks | Cement and Additives | | | | | | Returns | | | | |
| STANDBY | 0.00 | Set surface,03:00hrs,14-08-02 | | Surface | 21.0 | 8 | Portland class "A" | | | | | | Surf | | | | |
| Move Rig | 1.00 | W.O.C, | | Intermediate | | | | | | | | | | | | | |
| Rig Up / Down | 5.00 | Drill to T.D,10:30hrs,16-08-02,10:30 | | Production | 1474.0 | 195 | REGULAR CLASS "A" CEMENT 90SKS | | | | | | | | | | |
| Nipple Up / Down | 0.00 | Circ .50hrs,Wiper,Circ1.0hrs.Trip | | Plug | | | THICK SET CEMENT 105SKS | | | | | | Surf | | | | |
| WOC / Weld | 8.00 | Log Osage,2.75hrs | | Service Co. | BLUE STAR | | | | | | | | | | | | |
| Lay Down Drill String | 0.00 | Run casing,circ1.0hrs,to 20:45hrs | | B.S.T. Summary | | | | Mud Summary | | | | | | | | | |
| Handle Tools | 0.00 | Cement bluestar,plug down,21:30h | | No. | Form'in | From | To | Description | | | From | To | Type & Remarks | | | | |
| Work Pipe | 0.00 | Clean out tanks, Rig out | | | | | | | | | | 21 | Air | | | | |
| Log Record: | | | | | | | | | | | 21 | 486 | AIR/MISTINSERT 7 7/8 | | | | |
| Company | OSAGE | | | | | | | | | | 486 | 1474 | PDC-866 TO 1474,MUD ROTARY | | | | |
| Interval | Type | Interval | Type | | | | | | | | 0 | | | | | | |
| T.D.Surf | Daul ind | | | | | | | | | | 0 | | | | | | |
| | Bulk Dens | | | | | | | | | | 0 | | | | | | |
| | | | | | | | | | | | Supplier | | FUD MUD | | | | |
| Tubular Details | | | | | | | | | | | | | | | | | |
| | | | | Supplier | | | | | | | | | | | | Tristate & Spartan | |
| Drilling Remarks & Problems | | | | | | | | | | | | | | | | | |
| Surface | Major bed rock 0 - 30 ft. | | | String | Size | Weight | Grade | Thread | Range | Landed Depth | Make | Remarks | | | | | |
| Main hole | 39 hrs Main hole | | | Surface | 8.65 | 23 | H-40 | T & C -8rm | 3 | 21.00 | Paragon | | | | | | |
| | Used two 7 7/8 inserts to drill 866ft main hole ,both out side | | | Intermediate | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | | |
| | Gauge gone. | | | Production | 5.5 | 15.5 | J-55 | LT&C-8md | 3 | 1474.0 | Newport | | | | | | |
| | Rig finished hole with United diamond ud513 PDC,one chipped | | | Liner | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | | |
| | pack on bit when hole was finished,chipped pack happened | | | Other | | | | | | | | | | | | | |
| | when bit was tripped in to 866ft, hit B.O.P. | | | Other | | | | | | | | | | | | | |
| | Loss of circulation @966ft, used 45gel sks, 4 Lcm sks, regained | | | Remarks | | | | | | | | | | | | | |
| | circulation , possible mud ring was cause of circulation loss. | | | Rig to use blue star , Good returns to surface, rig worked casing ,2 cement baskets, 1224ft | | | | | | | | | | | | | |
| | RW | | | | | | | | | | | | | | | | |

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WELL DATA SUMMARY

DATE OF FIRST DAILY REPORT: _____
 LAST DAY OF DAILY REPORT: 5-32
 WELL NAME: _____
 OIL COMPANY: LAYNE ENERGY
 FIELD NAME: JEFFERSON - SYCAMORE
 PROVINCE: KANSAS
 UNIQUE WELL I.D.: 125-30131.00.00
 AFE NUMBER: WCHISM 5-32
 LICENSE NUMBER: 125-30131 0000
 WORKING INT. (%): _____
 GROUND ELEVATION: 956 **KCC**
 KB ELEVATION: 959.3 **OCT 14 2002**
 DRILLING FOREMAN: Ray Smith **CONFIDENTIAL**
 FINAL DRILLED TD (feet): 1474
 LSD _____
 SECTION 32
 TOWNSHIP 31
 RANGE 15
 MERIDIAN (WEST OF) _____

Casing Details

SURFACE CASING

SUPPLIER _____
 SIZE (in) 8 5/8
 WEIGHT 23
 GRADE H-40
 THREAD STC 8 RD.
 RANGE 3
 MANUFACTURER PARAGON
 FEET USED 1475

PRODUCTION CASING

SIZE in' 5.5
 WEIGHT 15.5
 GRADE J55
 THREAD ATC 8 RD
 RANGE 3
 MANUFACTURER NEWPORT
 FEET USED _____

PRODUCTION CASING STICK DIAGRAM
CASING TALLEY

| | | |
|--------|----|-----------|
| 0 FEET | 1 | 43.3 |
| | 2 | 43.3 |
| | 3 | 43.2 |
| | 4 | 43.3 |
| | 5 | 43.2 |
| | 6 | 43.2 |
| | 7 | 43.4 |
| | 8 | 43.4 |
| | 9 | 43.3 |
| | 10 | 43.4 |
| | 11 | 43.8 |
| | 12 | 42.3 |
| | 13 | 43.3 |
| | 14 | 43.3 |
| | 15 | 41.2 |
| | 16 | 43.4 |
| | 17 | 42.3 |
| | 18 | 47.3 |
| | 19 | 43.3 |
| | 20 | 43.3 |
| | 21 | 43.2 |
| | 22 | 43.2 |
| | 23 | 43.3 |
| | 24 | 43.4 |
| | 25 | 43.2 |
| | 26 | 43.4 |
| | 27 | 43.2 |
| | 28 | 43.3 |
| | 29 | 43.4 |
| | 30 | 43.2 |
| | 31 | 43.3 |
| | 32 | 43.3 |
| | 33 | 43.3 |
| | 34 | 43.3 |
| | 35 | 43.4 |
| | 36 | 43.4 |
| | 37 | 21.3 (37) |

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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 |

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
12.5 SAMPLES WERE TAKEN
12.6 AND SET UP FAST
12.6 BASKET A 9'5" - 12'4"
12.8 WE ALSO USED CITY
13 WATER AS FOND
13.6 WATER HAS 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