

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

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

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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. _____

| | | |
|-----------------------------------|------------------------|---|
| <u>August 11, 2002</u> | <u>August 13, 2002</u> | <u>October 8, 2002</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 125-30130 0000
County: Montgomery
NE NW Sec. 32 Twp. 31 S. R. 15 East West
487 feet from S / (circle one) Line of Section
2200 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 #: 3-32
Field Name: Jefferson-Sycamore

Producing Formation: Cherokee Coals
Elevation: Ground: 975 Kelly Bushing: 978
Total Depth: 1471 Plug Back Total Depth: 1475
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 1471
feet depth to Surface w/ 205 sx cmt.

Drilling Fluid Management Plan ALFF W/ 2-5-07
(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.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____
County: _____ Docket No.: _____

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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,
to 2003

Notary Public: Sherry K. Watson SHERRY K. WATSON
Notary Public - Notary Seal
STATE OF MISSOURI

Date Commission Expires: _____
Jackson County
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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Side Two

ORIGINAL

Operator Name: Layne Christensen Canada, Ltd. Lease Name: W. Chism Well #: 3-32
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
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Log Formation (Top), Depth and Datum Sample
Name Top Datum
Pawnee Lime 879 KB 99
Excello Shale 1022 KB -44
V Shale 1071 KB -93
Weir - Pitt Coal 1179 KB -201
Mississippian 1394 KB -416

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
4 Weir 1180-1183 500 g 15% HCl + 286 B SW RECEIVED 180
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TUBING RECORD
Size Set At Packer At Liner Run Yes No
2 7/8 1195
Date of First, Resumed Production, SWD or Enhr. Producing Method
Waiting on Pipeline 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.
W. CHISM 3-32
NE NW 487' FNL, 2,200' FWL
Section 32-31S-15E
MONTGOMERY COUNTY, KANSAS

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Drilled: August 11 – August 13, 2002
Logged: August 13, 2002
A.P.I.# 125-30130-00.00
Ground Elevation: 975'
Kelly Bushing Elevation: 978'
Derrick Floor: 978'
Depth Driller: 1476'
Depth Logger: 1476'
Drilled from surface to TD with air
Surface Casing: 8.65 to 21'
Production Casing: 5.5" to 1471'
Cemented by Consolidated
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)

| | |
|-------------------|--------|
| Layton Sand | 293 |
| Kansas City Group | 404 |
| Lenapah Lime | 695 |
| Altamont Lime | 738 |
| Wiser Sand | 818 |
| Mulberry Coal | 873 |
| Pawnee Lime | 879 |
| Peru Sand | 918 |
| First Oswego | 972 |
| Summit Coal | 999 |
| Excello Shale | 1022 |
| Mulky Coal | 1029.3 |
| Bevier Coal | 1049 |
| V-Shale | 1071 |
| Fleming Coal | 1081 |
| Mineral Coal | 1113 |
| Scammon Coal | 1127 |
| Tebo Coal | 1164 |

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| | |
|-----------------|-------------|
| Weir Pitt Coal | 1179 |
| Bluejacket Coal | 1207 |
| Dry Wood Coal | 1233 |
| Rowe Coal | Not Present |
| Riverton Coal | Not Present |
| Mississippian | 1394 |

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Drilling Summary

Well Name: W.CHISM-NE-NW-SEC-32-TWP-31S-R-15E
 U.W.ID: 125-30130-0000 AFE #: W.CHISM 3-32
 Est'd Cost: 39,618

| | | | |
|---------------------|--------------------|----------------|-------|
| LAYNE ENERGY | | | |
| Supervisor | Robert Winters | Days From Spud | |
| Contractor | LAYNE RIG # 219 | K.B.Elev. | 965.3 |
| Rig Release | 13-AUG-02,24:00HRS | G.L.Elev. | 962 |
| | | KB-Csg Flg | 3.3 |
| | | T.D. | 1475 |

| Bit Summary | | | | | | | | | | | | | | |
|-------------|--------|------|------|----------|-----------|--------|-------|---------|-------|-----------|----------|--|--|--|
| No | Size | Type | Jets | Depth In | Depth Out | Feet | Hours | Cum. Hr | F/Hrs | Condition | Serial # | | | |
| 1A | 12 1/4 | RR | OPEN | 0 | 21 | 21.0 | 1.5 | 1.5 | 14.0 | 5-5-E-I | 26418 | | | |
| 2 | 7 7/8 | R84 | 3X14 | 21 | 1474 | 1451.0 | 26.5 | 26.5 | 54.8 | 3-I | c85286 | | | |

| Time Summary | | | |
|-----------------------|-------|--------------------------------------|-------|
| Operation | Hours | Operation | Hours |
| Drilling | 26.50 | Clean to Bottom | |
| Tripping | 2.75 | Logging | 2.00 |
| Rig Service | | Rig Repair | 0.00 |
| Survey | 0.00 | Loss circ | |
| Circulate | 4.00 | Reaming | 0.00 |
| Cementing | 1.50 | Coring | 0.00 |
| Run Casing | 2.00 | Mud up | 0.00 |
| Safety Meeting | 0.25 | Spud in 14:30hrs, 11-aug-02 | |
| STANDBY | 0.00 | Set surface, 15:45hrs, 11-aug-02 | |
| Move Rig | 1.00 | W.O.C. | |
| Rig Up / Down | 5.00 | Drill to T.D, 03:15hrs, 13-Aug-02 | |
| Nipple Up / Down | 0.00 | Circ .50 hrs, Wiper, Circ.5hrs, Trip | |
| WOC / Weld | 8.00 | Log at 06:45hrs, 13-aug-02 | |
| Lay Down Drill String | 0.00 | Run casing, circ 2.75 hrs | |
| Handle Tools | 0.00 | Cement, Plug down 15:00hrs | |
| Work Pipe | 0.00 | Clean out tanks, Rig out | |

| Cementing Details | | | | |
|-------------------|--------|------|----------------------|--|
| String | Depth | Skts | Cement and Additives | |
| Surface | 21.0 | 8 | Portland class "A" | |
| Intermediate | | | | |
| Production | 1471.0 | 205 | | |
| Plug | | | | |
| Service Co. | O.W.C | | | |
| CONSOLIDATED | | | | |
| Returns Surf | | | | |

| D.S.T. Summary | | | | Mud Summary | | | |
|----------------|---------|------|----|-------------|----------|------|----------------------|
| No. | Form In | From | To | Description | From | To | Type & Remarks |
| | | | | | | 21 | Air |
| | | | | | 21 | 1474 | AIR/MISTINSERT 7 7/8 |
| | | | | | 0 | 0 | 0 |
| | | | | | 0 | | |
| | | | | | 0 | | |
| | | | | | 0 | | |
| | | | | | Supplier | | FUD MUD |

| Log Record | | | |
|------------|-----------|----------|------|
| Company | OSAGE | | |
| Interval | Type | Interval | Type |
| T.D.Surf | Daul ind | | |
| | Bulk Dens | | |

| Tubular Details | | | | | | | |
|-----------------|--------------------|--|--|--|--|--|--|
| Supplier | Tristate & Spartan | | | | | | |

| Drilling Remarks & Problems | |
|-----------------------------|---|
| Surface | Major bed rock 0 - 30 ft. |
| Main hole | 26.5 hrs main hole |
| | 7 7/8 Insert to drill main hole |
| | Bad cement job rig to hold 3hrs extra on casing. |
| Remarks | Rig to hold casing till 24:00hrs, plug down 15.00hrs. |

| String | Size | Weight | Grade | Thread | Range | Landed Depth | Make | Remarks |
|--------------|------|--------|-------|-----------|-------|--------------|---------|---------|
| Surface | 8.65 | 23 | H-40 | T & C -8m | 3 | 21.00 | Paragon | |
| Intermediate | 0 | 0 | 0 | 0 | 0 | | | |
| Production | 5.5 | 15.5 | J-55 | LT&C-8m | 3 | 1471.0 | Newport | |
| Liner | 0 | 0 | 0 | 0 | 0 | | | |
| Other | | | | | | | | |
| Other | | | | | | | | |

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WELL DATA SUMMARY

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DATE OF FIRST DAILY REPORT: 8/11/02
WELL NAME: F. SMITH C-SW-NW-S24T 31S
OIL COMPANY: LAYNE ENERGY R.I.S.I.
FIELD NAME: JEFFERSON Synamore
PROVINCE: KANSAS
UNIQUE WELL ID.: 125-30130 00
WFE NUMBER: W. CHISM 3-32
LICENSE NUMBER: 125-30130.00.00
WORKING INT. (%):
GROUND ELEVATION: 965
KS ELEVATION: 968.3
DRILLING FOREMAN: Ray Smith
FINAL DRILLED TO (feet): 1475'
LSO:
SECTION: 32
TOWNSHIP: 31
RANGE: 15 E
MERIDIAN (WEST OF):

8/11/02
F. SMITH C-SW-NW-S24T 31S
LAYNE ENERGY R.I.S.I.
JEFFERSON Synamore
KANSAS
125-30130 00
W. CHISM 3-32
F. SMITH
125-30130.00.00
965
968.3
Ray Smith
1475'
32
31
15 E

Casing Details
SURFACE CASING
SUPPLIER: TRISTATE
SIZE (in): 40 85/8
WEIGHT: 2.3
GRADE: H-40
THREAD: 576 RRP
RANGE: 3
MANUFACTURER: PAROCOR
FEET USED:

PRODUCTION CASING
SIZE (in): 35
WEIGHT: 15.5
GRADE: J-65
THREAD: L7 & C BRND
RANGE: 3
MANUFACTURER: NEW PART
FEET USED: 21

PRODUCTION CASING STICK DIAGRAM
CASING TALLEY
0 FEET
1 43.5
2 43.2
3 43.3
4 43.3
5 43.4
6 43.4
7 43.5
8 43.3
9 43.3
10 43.3
11 43.3
12 43.3
13 43.4
14 43.3
15 43.2
16 43.2
17 43.3
18 43.4
19 43.4
20 43.4
21 43.5
22 43.2
23 43.3
24 43.3
25 43.2
26 43.4
27 44.2
28 43.4
29 43.3
30 41.3
31 43.5
32 43.2
33 43.3
34 43.3
35 43.3
36 43.3
37 43.3
TOTAL CASING USED: 1475'
34 JOINTS

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DON'T
USE
30

CEMENTING INFORMATION

| | | |
|---------------------|------|--------|
| LEAD CEMENT WEIGHT | 12.3 | LBS |
| LEAD CEMENT DEPTH | | FEET |
| TAIL CEMENT WEIGHT | 13.3 | LBS |
| TAIL CEMENT DEPTH | | FEET |
| BARRELS TO DISPLACE | 13 | BBLs |
| RETURNS TO SURFACE | YES | YES/NO |

COMMENTS ON CEMENT JOB

USED MUD SCALE APPROX EVERY 2 MIN.
TO MONITOR WEIGHT. PUMP RATE WAS
ALMOST 1 1/2 LBS. OUT. PUMPED 13
BBLs. TO PG. (SLURRY)
12.2 CEMENT TOOK 8:54 HR TO
12.2 SET UP ENOUGH TO RIL OUT.
12.2 CASING DIDN'T MOVE
12.2 WHEN WE DISCONNECTED.
12.3
12.7 WE TOOK 6 SAMPLES.
13.3
13.3
13.4

GENERAL COMMENTS ON WELL COMPLETION