

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
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 19, 2002 August 21, 2002
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

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API No. 15 - 125-30136 0000
County: Montgomery
SW-NW- Sec. 30 Twp. 31 S. R. 15 East West
1802 feet from S / N (circle one) Line of Section
339 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: C. Chism Well #: 5-30
Field Name: Jefferson-Sycamore
Producing Formation: Cherokee Coals
Elevation: Ground: 934 Kelly Bushing: 937
Total Depth: 1499 Plug Back Total Depth: 1479.5
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 1495
feet depth to Surface w/ 165 sx cmt.
ALT II WORK 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: KANSAS CORPORATION COMMISSION
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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JAN 09 2003
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: [Signature]
Title: Agent Date: 1-8-03

Subscribed and sworn to before me this 8 day of January,
2003

Notary Public: [Signature] SHERRY K. WATSON
Notary Public - Notary Seal
STATE OF MISSOURI
Jackson County

Date Commission Expires: _____

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: C. Chism Well #: 5-30
Sec. 30 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
Samples Sent to Geological Survey [] Yes [x] No
Cores Taken Yes [x] No
Electric Log Run [x] Yes [] No
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 table with columns: Shots Per Foot, PERFORATION RECORD - Bridge Plugs Set/Type, Acid, Fracture, Shot, Cement Squeeze Record, Depth. Includes a 'RECEIVED' stamp from the Kansas Corporation Commission dated JAN 09 2003.

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), Estimated Production Per 24 Hours (Oil, Gas, Water), Gas-Oil Ratio, Gravity.

Disposition of Gas: [] Vented, [] Sold, [] Used on Lease, [] Open Hole, [] Perf., [] Dually Comp., [] Commingled, [] Other (Specify)



0
Drilling Summary

Well Name C.SMITH-APE-2-W2-SW-NW-SEC-30-TWP-31S-R-15E AFE # C.SMITH 5-30
U.W.ID 125-30136-0000 Est'd Cost 41,353

| LAYNE ENERGY | | | | Bit Summary | | | | | | | | | | Lic. # 125-30136-0000 | | |
|-----------------------------|---|-----------------------------------|-------|--|--------------------|--------|-----------------------|-------------|-----------|--------------|-----------------|---------|-------|-----------------------|----------|-------|
| Supervisor | Robert Winters | K.B.Elev. | 923.3 | No | Size | Type | Jets | Depth In | Depth Out | Feet | Hours | Cum. Hr | F/Hrs | Condition | Serial # | |
| Contractor | LAYNE RIG # 219 | G.L.Elev. | 920 | 1A | 12 1/4 | RR | OPEN | 0 | 21 | 21.0 | 1.5 | 1.5 | 14.0 | 5-5-E-I | 26418 | |
| Rig Release | 08:00HRS,22-AUG-02 | KB-Csg Flg | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0% | 0 | |
| Time Summary | | | T.D. | 1498 | 2 | 7 7/8 | Concave | 2x16/32 | 21 | 1498 | 1477.0 | 24.25 | 24.25 | 60.9 | 1-I | 2F914 |
| Operation | Hours | Operation | Hours | | | | | | | | | | | | | |
| Drilling | 24.25 | Clean to Bottom | | | | | | | | 0.0 | | | 0.0 | | | |
| Tripping | 8.25 | Logging | 4.00 | | | | | | | 0.0 | | | 0.0 | | | |
| Rig Service | | Rig Repair | 0.00 | | | | | | | 0.0 | | | 0.0 | | | |
| Survey | 0.00 | Loss circ | | | | | | | | 0.0 | | | 0.0 | | | |
| Circulate | 3.50 | Reaming | 0.00 | | | | | | | 0.0 | | | 0.0 | | | |
| Cementing | 1.00 | Coring | 0.00 | | | | | | | 0.0 | | | 0.0 | | | |
| Run Casing | 1.50 | Mud up | 0.00 | | | | | | | | | | | | | |
| Cementing Details | | | | | | | | | | | | | | | | |
| Safety Meeting | 0.25 | Spud in 17:00hrs,19-08-02 | | String | Depth | Sks | Cement and Additives | | | | Returns | | | | | |
| STANDBY | 6.50 | Setsurface, 19:00hrs,19-08-02 | | Surface | 21.0 | 8 | Portland class "A" | | | | Surf | | | | | |
| Move Rig | 0.50 | W.O.C | | Intermediate | | | | | | | | | | | | |
| Rig Up / Down | 5.00 | Hammer to T.D,05:45hrs,21-08-02 | | Production | 1495.0 | 195 | | | | | | | | | | |
| Nipple Up / Down | 0.00 | Wiper,circ1.0hr,Log,stby,log,stby | | Plug | | | Thixotropic+gilsonite | | | | SURF | | | | | |
| WOC / Weld | 8.00 | Hole cased 00:30hrs,22-08-02 | | Service Co. | BLUESTAR | | | | | | | | | | | |
| Lay Down Drill String | 0.00 | Circ casing 2.5hrs, | | D.S.T Summary | | | | Mud Summary | | | | | | | | |
| Handle Tools | 0.00 | Plug down 04:00hrs.blue star | | No. | Form'in | From | To | Description | From | To | Type & Remarks | | | | | |
| Work Pipe | 0.00 | Rig out,clean out tanks | | | | | | | | 21 | Air | | | | | |
| Log Record: | | | | | | | | | | 1495 | Air/mist Hammer | | | | | |
| Company | OSAGE | | | | | | | | 0 | 0 | 0 | | | | | |
| 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 | 24.25 hrs to drill main hole | | | Surface | 8.65 | 23 | H-40 | T & C -8rn | 3 | 21.00 | Paragon | | | | | |
| | 6" I R Hammer, 7 7/8 concave bit | | | Intermediate | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | |
| | Run wiper with 7 7/8 insert bit | | | Production | 5.5 | 15.5 | J-55 | ST&C-8rnd | 3 | 1495.0 | Newport | | | | | |
| | Cement density readings, 12.7,12.7,12.8,12.8,13.4,13.4,13.4 | | | Liner | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | |
| | 195 sks cement | | | Other | | | | | | | | | | | | |
| | 10# Gilsonite per/sk | | | Other | | | | | | | | | | | | |
| | 4% Gel | | | Remarks | | | | | | | | | | | | |
| | 8% Calseal | | | 6.5 hrs spent on standby,logging problems,circ problems drilling | | | | | | | | | | | | |
| | 2% Cacl2 | | | | | | | | | | | | | | | |

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BLUE STAR
ACID SERVICE, INC.

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PO Box 103
Eureka, Kansas 67045

Cementing Ticket
and Invoice Number

No 3705

| | | | | | | | | |
|---|-----------------------|---|---------------|-----------------|---|--------------------------|----------------------|--------------------------|
| Date 8-22-02 | Customer Order No. | Sect. 30 | Twp. 31S | Range 15E | Truck Called Out | On Location 3:00 AM | Job Began 3:20 AM | Job Completed 4:00 AM |
| Owner Layne Energy | | Contractor Layne Christensen Company | | | Charge To Layne Energy | | | |
| Mailing Address 1345 Highfield Crescent S.E. | | City CALGARY | | | State ALBERTA T2G5N2 | | | |
| Well No. & Form Charles Smith # 5-30 | | Place Montgomery 77 | | | State KANSAS | | | |
| Depth of Well 1499' | Depth of Job 1499' | Casing (New) Used | Size 5 1/2 | Weight 15.50 | Size of Hole Ann. and Kind of Cement 195 SKS | Cement Lost in casing by | Request Necessity | 43' test |
| Kind of Job Longstring | | | | | Drillpipe | 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 2% Cacl₂, 4% Gel, 10" Gilsonite per/sk @ 12.7" per/gal. 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 34.6 bbl fresh water @ 20 PM. Final Pumping Pressure 600 PSI. Bump Plug to 1000 PSI. Wait 5 minutes. Check float. float held. Shut casing in @ 0 PSI. Good Cement Returns to surface = 10 bbl slurry = 30 SKS. Job Complete. Rig down.

Cementer: Kevin McCoy
Helper: Mike, Monti, Brad
District: EUREKA

Thank you

State: KANSAS
Agent of contractor or operator

Sales Ticket for Materials Only

| Quantity | 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 |
| 3 hrs | 80 bbl VAC Truck | 60.00 | 180.00 |
| 1 | Load City water | 15.00 | 15.00 |
| 1 | 5 1/2 Flapper Valve | 135.00 | 135.00 |
| 2 | 5 1/2 Cement Baskets | 106.00 | 212.00 |
| 1 | 5 1/2 Top Rubber Plug | 40.00 | 40.00 |
| Plugs | 195 SKS Handling & Dumping | .50 | 97.50 |
| | 10" TONS Mileage 60 | .80 | 480.00 |
| | Delivered by Truck No. # 4, # 16 | Sub Total | 4,462.55 |
| | | Discount | |

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