KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1052140

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3842
Name: Larson Engineering, Inc. dba Larson Operating Company
Address 1: 562 W STATE RD 4
Address 2:
City: OLMITZ State: KS Zip: 67564 + 8561
Contact Person: Thomas Larson
Phone: (620) 653-7368
CONTRACTOR: License # 33935
Name: H. D. Drilling, LLC
Wellsite Geologist: Robert Lewellyn
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [x] D&A
- [ ] ENHR
- [ ] SIGW
- [ ] OG
- [ ] GSW
- [ ] Temp. Abd.
- [ ] CM *(Coal Bed Methane)*
- [ ] Cathodic
- [ ] Other *(Core, Expl., 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
- [ ] Conv. to SWD
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

11/12/2010	11/24/2010	11/24/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-101-22265-00-00
Spot Description:
SW - SE - NW - NE Sec. 25 Twp. 18 S. R. 27 [ ] East [x] West
1311 Feet from [x] North / [ ] South Line of Section
1775 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[x] NE [ ] NW [ ] SE [ ] SW
County: Lane
Lease Name: Ed Well #: 1-25
Field Name:
Producing Formation: none
Elevation: Ground: 2612 Kelly Bushing: 2617
Total Depth: 4654 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 253 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 36500 ppm Fluid volume: 900 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. [ ] East [ ] West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- [x] **Letter of Confidentiality Received**
  Date: 03/10/2011
- [x] **Confidential Release Date:** 03/09/2013
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** NAOMI JAMES **Date:** 03/11/2011

Side Two

[redacted]

1052140

Operator Name: Larson Engineering, Inc. dba Larson Operating Company Lease Name: Ed Well #: 1-25

Sec. 25 Twp. 18 S. R. 27 ☐ East ☑ West County: Lane

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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

Dual Induction
Dual Comp Porosity
Microresistivity

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☐ New ☑ Used

Report all strings set-conductor, surface, intermediate, production, etc.

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
Surface	12.25	8.625	20	253	Class A	175	2% gel, 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

Shots Per Foot	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. 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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☑ Other *(Specify)* D & A

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Ed 1-25
Doc ID	1052140

Tops

Name	Top	Datum
Anhydrite	1997	+622
Base Anhydrite	2022	+597
Heebner Sh	3940	-1321
Lansing KC	3978	-1359
Stark Sh	4247	-1628
Base KC	4315	-1696
Altamont	4381	-1762
Pawnee	4447	-1828
Fort Scott	4495	-1876
Cherokee	4519	-1900
Mississippian	4594	-1975

ALLIED CEMENTING CO., LLC. 040837

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Oakley 11-13-10

DATE 11-12-10	SEC. 25	TWP. 18s	RANGE 27w	CALLED OUT	ON LOCATION	JOB START 1:30Am	JOB FINISH 2:00Pm
LEASE ED	WELL # 1-25	LOCATION Dighton 12E 1/2S				COUNTY Lane	STATE KS
OLD OR (NEW) (Circle one)			WinTO				

CONTRACTOR H D Drilling Rig 3
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 257'
CASING SIZE 8 5/8 DEPTH 256'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 15.35 BBL

OWNER Same

CEMENT

AMOUNT ORDERED 175 sks com 3%cc 2%gel

EQUIPMENT

PUMP TRUCK CEMENTER Andrew
423-281 HELPER Larene
BULK TRUCK
404 DRIVER Jerry
BULK TRUCK
DRIVER

COMMON	175 sks	@ 13.50	2362.50
POZMIX		@	
GEL	3 sks	@ 20.25	60.75
CHLORIDE	6 sks	@ 51.50	309.00
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	184 sks	@ 2.25	414.00
MILEAGE	10¢ sk/mile		368.00
		TOTAL	3514.25

REMARKS:

Cement did circulate

thank you

SERVICE

DEPTH OF JOB	256'		
PUMP TRUCK CHARGE			991.00
EXTRA FOOTAGE		@	
MILEAGE	20 miles	@ 7.00	140.00
MANIFOLD		@	
		@	
		@	
		TOTAL	1131.00

CHARGE TO: Larson Engineering
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	TOTAL	

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME LEWAYNE TRESNER

SIGNATURE LeWayne Tresner

DRILL STEM TEST REPORT

Larson Engineering Inc

562 West State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lewellyn

Ed #1-25

25-18s-27w Lane, Ks

Job Ticket: 040526 **DST#: 1**

Test Start: 2010.11.20 @ 08:51:01

GENERAL INFORMATION:

Formation: **Altamont**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:29:46
Time Test Ended: 16:10:16

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: 4366.00 ft (KB) To 4435.00 ft (KB) (TVD)
Total Depth: 4435.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

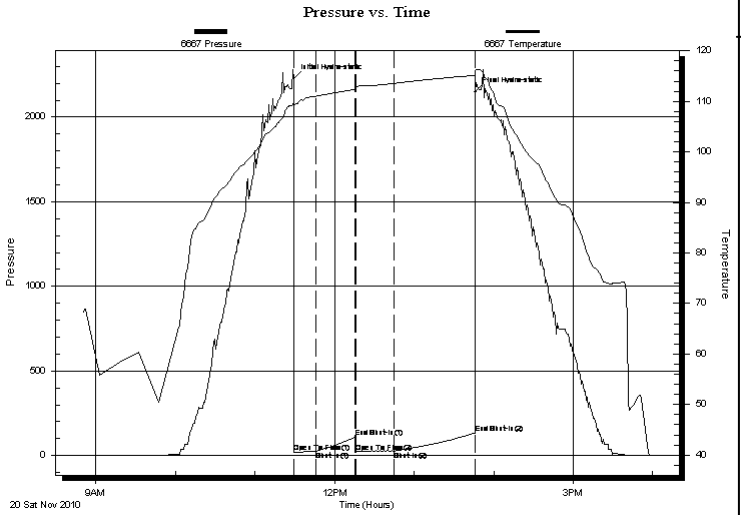
Reference Elevations: 2617.00 ft (KB)
2610.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 25.74 psig @ 4367.00 ft (KB)
Start Date: 2010.11.20 End Date: 2010.11.20
Start Time: 08:51:01 End Time: 15:58:16

Capacity: 8000.00 psig
Last Calib.: 2010.11.20
Time On Btm: 2010.11.20 @ 11:29:31
Time Off Btm: 2010.11.20 @ 13:46:16

TEST COMMENT: 1/2"in blow
No return
1 1/4"in blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.61	109.57	Initial Hydro-static
1	17.59	109.09	Open To Flow (1)
17	24.53	111.00	Shut-In(1)
46	110.01	112.33	End Shut-In(1)
47	22.35	112.87	Open To Flow (2)
75	25.74	113.55	Shut-In(2)
137	133.80	115.15	End Shut-In(2)
137	2148.99	115.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud w/oil spots 100%m	0.15
0.00	show of free oil in tool	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

562 West State Rd 4
Olmitz, Ks
67564

ATTN: Bob Lewellyn

Ed #1-25

25-18s-27w Lane, Ks

Job Ticket: 040526 **DST#: 1**

Test Start: 2010.11.20 @ 08:51:01

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.94 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2700.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

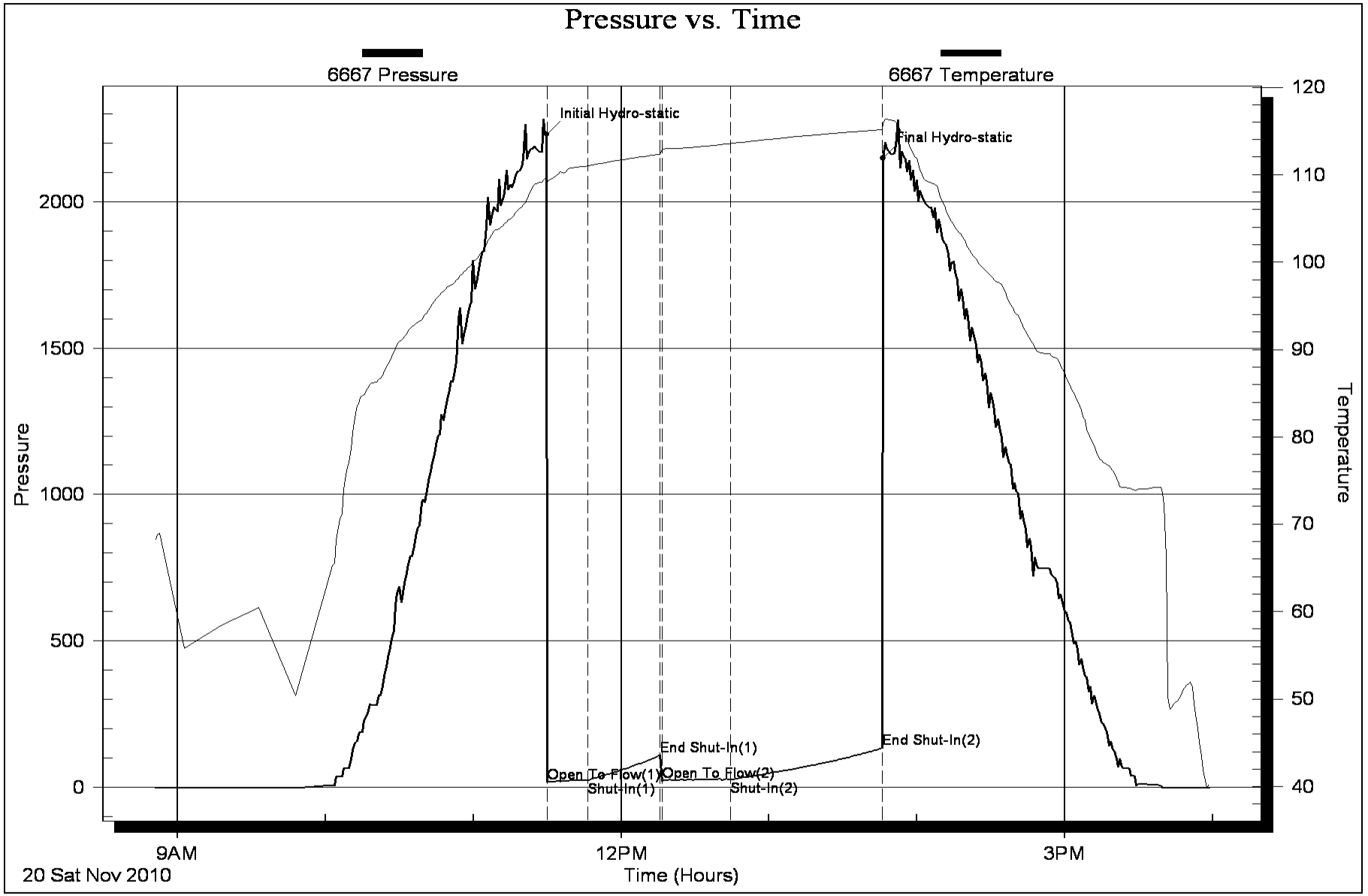
Length ft	Description	Volume bbl
30.00	mud w/oil spots 100%m	0.148
0.00	show of free oil in tool	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1500
1000
500
0
120
110
100
90
80
70
60
50
40
9AM
12PM
3PM
20 Sat Nov 2010
Time (Hours)

DRILL STEM TEST REPORT

Larson Engineering Inc

562 West State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lew ellyn

Ed #1-25

25-18s-27w Lane, Ks

Job Ticket: 040527 **DST#: 2**

Test Start: 2010.11.21 @ 02:17:28

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:01:13
Time Test Ended: 09:35:58

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: 4426.00 ft (KB) To 4460.00 ft (KB) (TVD)
Total Depth: 4460.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

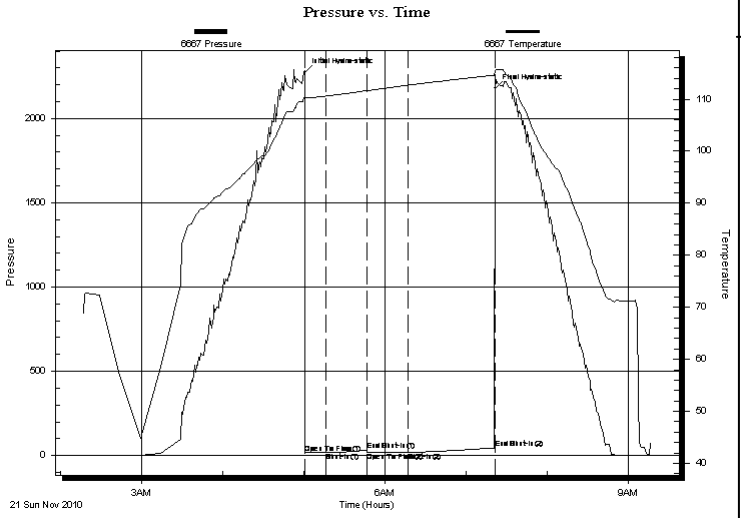
Reference Elevations: 2617.00 ft (KB)
2610.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 17.52 psig @ 4427.00 ft (KB)
Start Date: 2010.11.21 End Date: 2010.11.21
Start Time: 02:17:28 End Time: 09:16:58

Capacity: 8000.00 psig
Last Calib.: 2010.11.21
Time On Btm: 2010.11.21 @ 05:00:58
Time Off Btm: 2010.11.21 @ 07:21:43

TEST COMMENT: 1/4"in blow died back to a surface blow
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2274.03	110.58	Initial Hydro-static
1	15.45	109.83	Open To Flow (1)
16	16.74	110.60	Shut-In(1)
46	32.62	111.63	End Shut-In(1)
46	16.45	111.63	Open To Flow (2)
76	17.52	112.68	Shut-In(2)
141	45.10	114.63	End Shut-In(2)
141	2178.67	115.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100%m	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

562 West State Rd 4
Olmitz, Ks
67564

ATTN: Bob Lewellyn

Ed #1-25

25-18s-27w Lane, Ks

Job Ticket: 040527 **DST#: 2**

Test Start: 2010.11.21 @ 02:17:28

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2700.00 ppm				
Filter Cake:	2.00 inches				

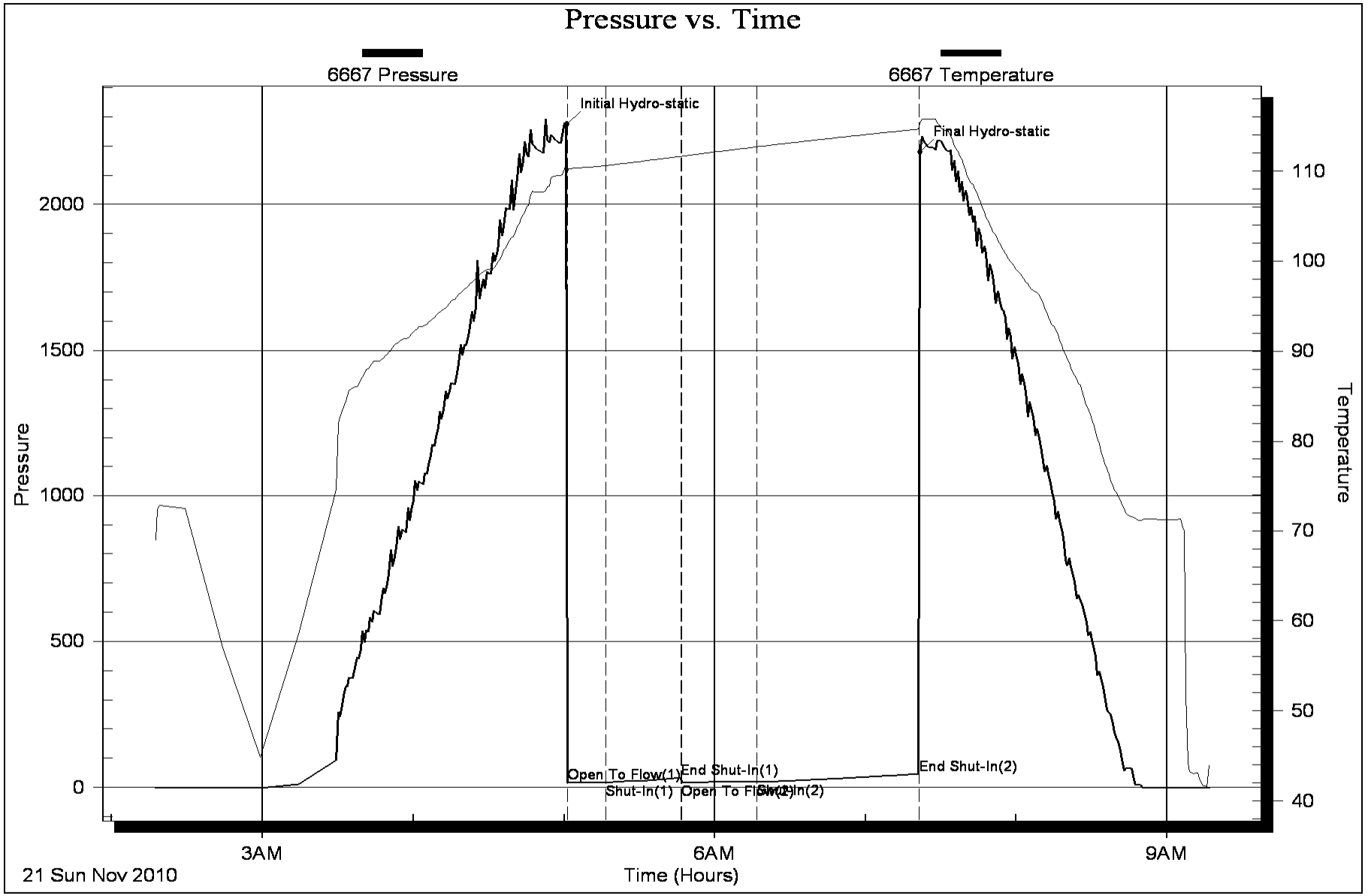
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100%m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
End Shut-In(1)
Shut-In(1)
Open To Flow(2)
End Shut-In(2)
Pressure
Temperature
2000
1500
1000
500
0
110
100
90
80
70
60
50
40
3AM
6AM
9AM
21 Sun Nov 2010
Time (Hours)

DRILL STEM TEST REPORT

Larson Engineering Inc

562 West State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lewellyn

Ed #1-25

25-18s-27w Lane, Ks

Job Ticket: 040528 **DST#: 3**

Test Start: 2010.11.22 @ 06:00:23

GENERAL INFORMATION:

Formation: **Ft Scott , Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:29:23
Time Test Ended: 12:55:23

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: 4460.00 ft (KB) To 4565.00 ft (KB) (TVD)
Total Depth: 4565.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

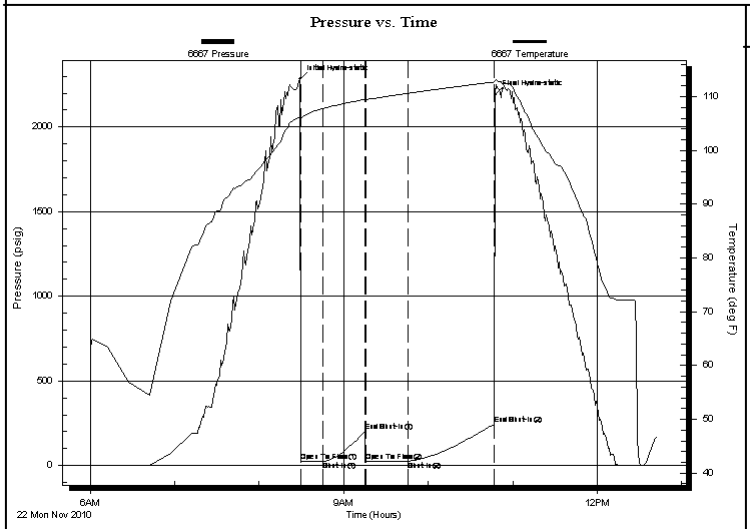
Reference Elevations: 2617.00 ft (KB)
2610.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 26.19 psig @ 4461.00 ft (KB)
Start Date: 2010.11.22 End Date: 2010.11.22
Start Time: 06:00:23 End Time: 12:43:23

Capacity: 8000.00 psig
Last Calib.: 2010.11.22
Time On Btm: 2010.11.22 @ 08:29:08
Time Off Btm: 2010.11.22 @ 10:47:38

TEST COMMENT: 1/2"in blow died back to a surface blow
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.71	106.44	Initial Hydro-static
1	23.51	106.03	Open To Flow (1)
16	25.19	107.80	Shut-In(1)
47	202.14	109.51	End Shut-In(1)
47	25.42	109.44	Open To Flow (2)
77	26.19	110.63	Shut-In(2)
138	244.37	112.73	End Shut-In(2)
139	2190.38	113.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%m	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

562 West State Rd 4
Olmitz, Ks
67564

ATTN: Bob Lewellyn

Ed #1-25

25-18s-27w Lane, Ks

Job Ticket: 040528 **DST#: 3**

Test Start: 2010.11.22 @ 06:00:23

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2700.00 ppm				
Filter Cake:	2.00 inches				

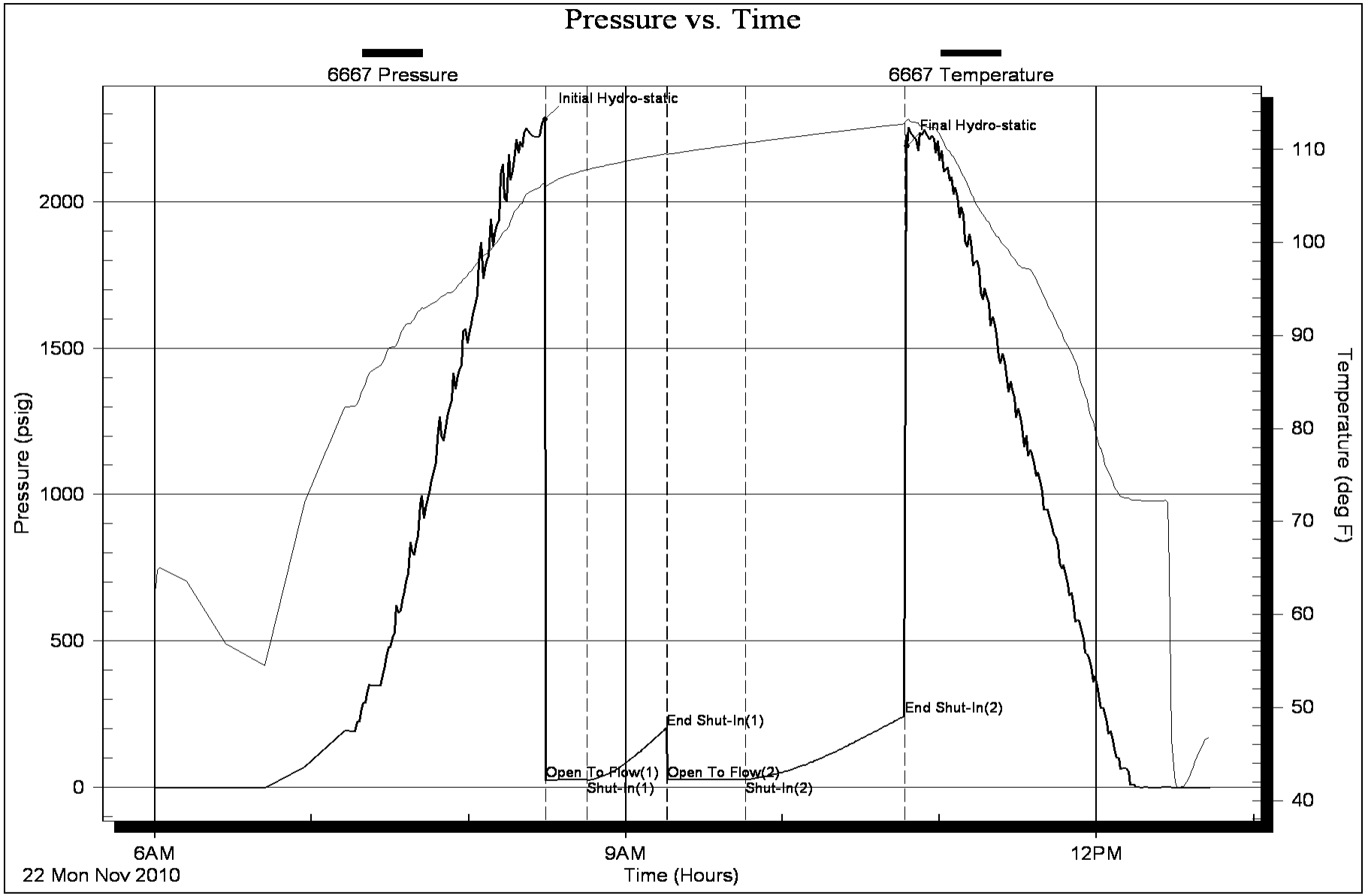
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100%m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2000
1500
1000
500
0
110
100
90
80
70
60
50
40
6AM
22 Mon Nov 2010
9AM
12PM
Time (Hours)

DRILL STEM TEST REPORT

Larson Engineering Inc

562 West State Rd 4
Olmitz, Ks
67564
ATTN: Bob Lew ellyn

Ed #1-25

25-18s-27w Lane, Ks

Job Ticket: 040529 **DST#: 4**

Test Start: 2010.11.22 @ 21:21:14

GENERAL INFORMATION:

Formation: **Cherokee sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:51:14
Time Test Ended: 04:45:59

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: 4518.00 ft (KB) To 4575.00 ft (KB) (TVD)
Total Depth: 4575.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

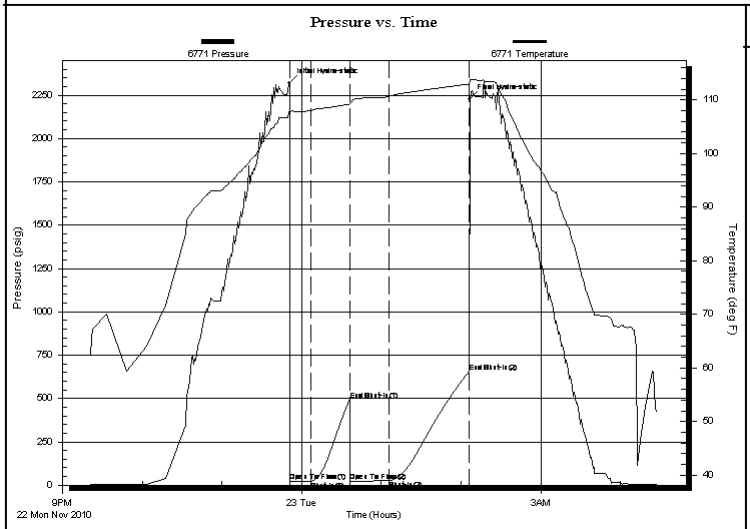
Reference Elevations: 2617.00 ft (KB)
2610.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6771 **Outside**

Press@RunDepth: 25.23 psig @ 4519.00 ft (KB)
Start Date: 2010.11.22 End Date: 2010.11.23
Start Time: 21:21:14 End Time: 04:27:59

Capacity: 8000.00 psig
Last Calib.: 2010.11.23
Time On Btm: 2010.11.22 @ 23:50:59
Time Off Btm: 2010.11.23 @ 02:06:29

TEST COMMENT: 1/2"in blow died back to a surface blow
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2320.96	108.13	Initial Hydro-static
1	21.87	107.63	Open To Flow (1)
16	22.48	108.04	Shut-In(1)
46	490.45	109.23	End Shut-In(1)
46	23.99	109.23	Open To Flow (2)
75	25.23	110.69	Shut-In(2)
135	655.01	112.96	End Shut-In(2)
136	2228.60	113.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100%m	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

562 West State Rd 4
Olmitz, Ks
67564

ATTN: Bob Lewellyn

Ed #1-25

25-18s-27w Lane, Ks

Job Ticket: 040529 **DST#: 4**

Test Start: 2010.11.22 @ 21:21:14

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2900.00 ppm				
Filter Cake:	2.00 inches				

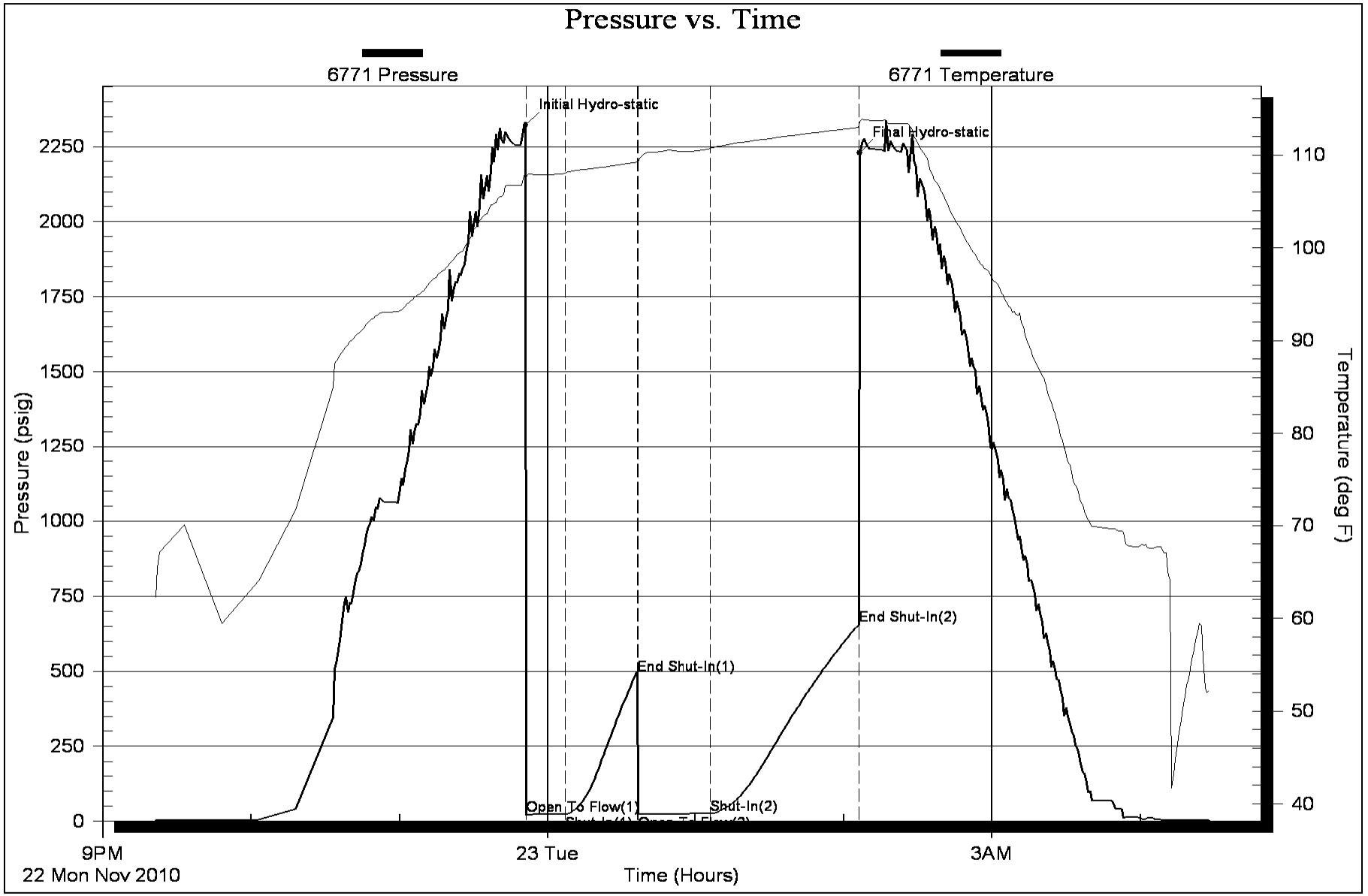
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100%m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6771 Pressure
6771 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(2)
End Shut-In(1)
Open To Flow(1)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
9PM
22 Mon Nov 2010
23 Tue
3AM
Time (Hours)

Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 375
Kechi, KS 67067-0375
Office 316-744-2567
Cell 316-518-0495
boblewellyn@yahoo.com

GEOLOGICAL REPORT

Larson Engineering, Inc.
Ed No. 1-25
1311' FNL & 1775' FEL Sec. 25-18S-27W
Lane County, Kansas

CONTRACTOR:	H D Drilling, LLC
SPUDDED:	November 13, 2010
DRILLING COMPLETED:	November 24, 2010
SURFACE CASING:	8 5/8" @ 257 KBM/175 sx,
ELECTRIC LOGS:	Log-Tech DIL CNL/CDL MEL
ELEVATIONS:	2619 KB 2612 GL

FORMATION TOPS (Electric Log):

Anhydrite	1997 (+ 622)
Base Anhydrite	2022 (+ 597)
Heebner Shale	3940 (-1321)
Lansing-Kansas City Group	3978 (-1359)
Muncie Creek Shale	4143 (-1524)
Stark Shale	4247 (-1628)
Hushpuckney shale	4280 (-1661)
Base Kansas City	4315 (-1696)
Altamont	4381 (-1762)
Pawnee	4447 (-1828)
Fort Scott	4495 (-1876)
Cherokee	4519 (-1900)
Detrital Zone	4578 (-1959)
Mississippian	4594 (-1975)
Electric Log Total Depth	4654 (-2035)

Samples were examined microscopically from 4150 to Rotary Total Depth. Samples were examined wet and dry and samples from potentially productive zones were viewed under a fluoroscope and checked for oil cut. Following is a description of zones of interest, Drill Stem Tests, etc. For a complete lithologic description of all formations, refer to the sample log in the back pages of this report. Depths on drill stem tests have been moved downhole four feet to correlate with electric log measurements.

Lansing-Kansas City Zones:

4155-4176 (H Zone)

Limestone, buff to tan and brown, some scattered mottled, dense to finely crystalline, zone is mostly tight, trace of very poor intercrystalline porosity, no show of oil.

4186-4218 (I Zone)

Limestone, cream to buff to tan, finely crystalline and chalky, some dense, zone is mostly tight with no shows of oil.

4230-4234 (J Zone)

Limestone, cream to buff, dense to finely crystalline and partly oolitic, some chalky, zone is mostly tight with no shows of oil.

4251-4254 (K Zone)

Limestone, buff to tan to brown, trace of mottled, dense to finely crystalline, slightly fossiliferous, trace of poor scattered intercrystalline porosity, no show of oil.

4293-4298 (L Zone)

Limestone, cream to buff, some tan, dense to finely crystalline, slightly mealy, chalky in part, trace of scattered very poor intercrystalline porosity, no show of oil.

4315-4350 (Pleasanton Zone)

Limestone, cream to buff, some tan, some brown to mottled, dense and chalky to finely crystalline, slightly fossiliferous, trace of very poor intercrystalline porosity, no show of oil.

4381-4382, 4423-4424 & 4427-4431 (Altamont Zone)

Limestone, cream to buff, some scattered tan, finely crystalline and fossiliferous, some chalky, broken streaks of poor to fair intercrystalline and small vug porosity, poor to fair spotted stain, slight show of free oil, faint odor, poor fluorescence, fair cut.

Drill Stem Test No. 1 4370-4439
15-30-30-60; half-inch blow on first flow; 1 ¼" blow throughout second flow; recovered 30 feet of mud with oil spots, show of free oil in tool. ISIP 110# FSIP 133# IFP 17-24# FFP 22-25# IHP 2229# FHP 2148# BHT 115 degrees.

4447-4452 (Pawnee Zone)

Limestone, buff to tan to brown, dense to finely crystalline and slightly oolitic, scattered fair intercrystalline porosity, some poor to fair interoolitic porosity, scattered poor to fair spotted stain, slight show of free oil, fair odor, poor fluorescence, poor to fair cut.

Drill Stem Test No. 2 4430-4464
15-30-30-60; quarter-inch blow, died back to surface blow on first flow period; blow did not return on second flow period; recovered two feet of mud. ISIP 32# FSIP 45# IFP 15-16# FFP 16-17# IHP 2274# FHP 2178# BHT 115 degrees.

4495-4519 (Fort Scott Zone)

Limestone, cream to buff, dense to finely crystalline, some slightly oolitic, scattered poor intercrystalline porosity, poor spotted stain, very slight show of free oil, faint fleeting odor, poor fluorescence, poor cut.

4551-4570 (Johnson Zone)

Limestone, buff to tan to brown, dense to finely crystalline, poor scattered intercrystalline and small vug porosity, scattered poor to fair spotted stain, trace of free oil, faint odor, poor fluorescence, poor cut, some dense lime with stain on fracture faces.

Drill Stem Test No 3 4464-4569
15-30-30-60; half-inch blow diminished to a surface blow; blow did not return on second-flow; recovered three feet of mud. ISIP 202# FSIP 244# IFP 23-25# FFP 25-26# IHP 2280# FHP 2190# BHT 113 degrees.

4572-4575 (Cherokee Sand Zone)

Sand, fine to medium grained, subround, friable to fairly well cemented, fair intergranular porosity, good spotted to saturated stain, good show of free oil, good odor, good fluorescence, good cut, section also contains some very fine-grained, well cemented, tight sand with poor light spotted stain and no free oil.

Drill Stem Test No. 4 4522-4579

15-30-30-60; half-inch blow, diminished to surface blow; blow did not return on second flow period; recovered two feet of mud. ISIP 490# FSIP 655# IFP 21-22# FFP 23-25# IHP 2320# FHP 2228# BHT 113 degrees.

4578-4594 (Detrital Zone)

Various and varicolored cherts and shales along with scattered very fine grained sand, white, well cemented, tight with no show of oil.

4594-4622 (Mississippian Zone)

Limestone, buff, fine to medium crystalline with some dense, flaky and brittle, zone is mostly tight with no shows of oil.

4622-4654

Dolomite, buff to tan, fine to medium crystalline, scattered poor to fair intercrystalline porosity, no show of oil.

4650 Rotary Total Depth

Conclusions and Recommendations:

Sample examination, drill stem testing, and electric logging revealed no zones of possible commercial production of oil or gas. It was therefore recommended that the No. 1-25 Ed be plugged and abandoned.

Respectfully submitted,

Robert C. Lewellyn
Petroleum Geologist

RCL:me

ALLIED CEMENTING CO., LLC. 33459

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Great Bend KS

DATE 11-24-10	SEC. 25	TWP. 18S	RANGE 27	CALLED OUT	ON LOCATION	JOB START 10:00 AM	JOB FINISH 1100 AM
LEASE ED	WELL # 1-25		LOCATION Ness + Lane County Line ½ west Northwest into			COUNTY Lane	STATE KS

(OLD) OR NEW (Circle one)

CONTRACTOR H-D Rig 3
TYPE OF JOB Rotary Plug
HOLE SIZE 7 7/8 T.D. 4650
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4½ DEPTH 2010
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER Larson Engineering

CEMENT

AMOUNT ORDERED 280 SX 60\40 4% Gel ¼# flo seal

		@	
COMMON	168	@ 13.50	2.268.00
POZMIX	112	@ 7.55	845.60
GEL	10	@ 20.25	202.50
CHLORIDE		@	
ASC		@	
Flo seal	60#	@ 2.45	147.00
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	280	@ 2.25	630.00
MILEAGE	280×15×.10		420.00
		TOTAL	4513.10

EQUIPMENT

PUMP TRUCK CEMENTER Wayne-D
Bill 366 HELPER Bill
BULK TRUCK
344 DRIVER Gary - D
BULK TRUCK
DRIVER

REMARKS:

1st Plug 2010 mix 50 SX
2nd Plug 1170 mix 80 SX
3rd Plug 600 mix 50 SX
4th Plug 270 mix 50 SX
5th Plug 60 mix 20 SX
Rat hole mix 30 SX

SERVICE

		@	
DEPTH OF JOB	2010		
PUMP TRUCK CHARGE			990.00
EXTRA FOOTAGE		@	
MILEAGE	15	@ 7.00	105.00
MANIFOLD		@	
		@	
		@	
		TOTAL	1095.00

CHARGE TO: Larson Engineering
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
	TOTAL	

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES [illegible]
DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME X LeWayne Tresner
SIGNATURE X [signature]

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

phone: 316-337-6200
fax: 316-337-6211
http://kcc.ks.gov/

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Sam Brownback, Governor

March 10, 2011

Thomas Larson
Larson Engineering, Inc. dba Larson Operating Company
562 W STATE RD 4
OLMITZ, KS 67564-8561

Re: ACO1
API 15-101-22265-00-00
Ed 1-25
NE/4 Sec.25-18S-27W
Lane County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Thomas Larson