



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       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 #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1065249

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	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
-----------------------------------	-----------	---------	-------------	---------------	---------

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	York 1-12
Doc ID	1065249

Tops

Name	Top	Datum
Anhydrite	2210	+614
Base Anhydrite	2267	+557
Heebner Sh	2853	-1029
Lansing-KC	3886	-1062
Stark Sh	4156	-1332
Base-KC	4236	-1412
Marmaton	4266	-1442
Altamont	4288	-1464
Pawnee	4359	-1535
Fort Scott	4412	-1588
Cherokee	4437	-1613
Mississippian	4516	-1692

# ALLIED CEMENTING CO., LLC. 037247

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Great Bend, KS

DATE <u>7-12-11</u>	SEC. <u>12</u>	TWP. <u>16</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00 PM</u>	JOB FINISH <u>6:00 PM</u>
LEASE <u>you</u>	WELL# <u>1-12</u>	LOCATION <u>Healey west To Bibow</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
<input checked="" type="radio"/> OLD OR NEW (Circle one)		RD <u>North To west: 20</u>					

CONTRACTOR H O - Rig 3  
 TYPE OF JOB Rotary Plug  
 HOLE SIZE 7 7/8 T.D. 4560  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 2250  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

EQUIPMENT

PUMP TRUCK CEMENTER Wayne  
 # 366 HELPER Greg  
 BULK TRUCK \_\_\_\_\_  
 # 482-241 DRIVER Trent  
 BULK TRUCK \_\_\_\_\_  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

1st plug 2250 mix 50 SX  
2nd plug 1620 mix 80 SX  
3rd plug 810 mix 50 SX  
4th plug 290 mix 50 SX  
5th plug 60 mix 20 SX  
Rathole mix 300 SX

CHARGE TO: Hauson Engineering  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

OWNER Hauson  
 CEMENT AMOUNT ORDERED 280 SX 60/40 + 4% @ 4 flo seal

COMMON	<u>168</u>	@	<u>16.25</u>	<u>2730.00</u>
POZMIX	<u>112</u>	@	<u>8.50</u>	<u>952.00</u>
GEL	<u>10</u>	@	<u>21.25</u>	<u>212.50</u>
CHLORIDE		@		
ASC		@		
<u>4 flo seal</u>	<u>30</u>	@	<u>2.70</u>	<u>189.00</u>
HANDLING	<u>293</u>	@	<u>2.25</u>	<u>659.25</u>
MILEAGE	<u>2934 60 x 11</u>			<u>1.933.80</u>
Mileage and Drive				TOTAL <u>6676.55</u>
<u>New Total</u>				<u>5.322.89</u>

SERVICE

DEPTH OF JOB	<u>2250</u>			
PUMP TRUCK CHARGE				<u>1250.00</u>
EXTRA FOOTAGE		@		
MILEAGE Truck	<u>120</u>	@	<u>7.00</u>	<u>840.00</u>
MANIFOLD		@		
<u>Light Truck</u>	<u>120</u>	@	<u>4.00</u>	<u>480.00</u>
Mileage O's <u>1320 x 70% = 924</u>				TOTAL <u>2570.00</u>
<u>New Total</u>				<u>1646.00</u>

PLUG & FLOAT EQUIPMENT

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.

PRINTED NAME LEWYNE TRESNER  
 SIGNATURE [Signature]

TOTAL	
SALES TAX (If Any)	
TOTAL CHARGES	<u>6.968.89</u>
DISCOUNT <u>30%</u>	<u>1.393.72</u>
<u>New Total</u>	<u>5.575.17</u>

TOTAL \_\_\_\_\_

IF PAID IN 30 DAYS

# ALLIED CEMENTING CO., LLC. 038769

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Great Bend, KS

DATE <u>6-30-11</u>	SEC. <u>12</u>	TWP. <u>16</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00pm</u>	JOB FINISH <u>10:30pm</u>
LEASE <u>York</u>	WELL # <u>1-12</u>	LOCATION <u>Healy 20 West to bison Rd</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>		3 1/2 north to 290 Rd 3 1/4 miles to Rd 290 1 west south to					

CONTRACTOR HD Rig #3 OWNER Larson Engineering Inc

TYPE OF JOB Surf Case  
 HOLE SIZE 12 1/2 T.D. 264  
 CASING SIZE 8 5/8 DEPTH 264  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH 264  
 TOOL DEPTH

CEMENT  
 AMOUNT ORDERED 175.52 Class A, 3% ce  
2% gel

PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15.84  
 PERFS.  
 DISPLACEMENT Freshwater

COMMON	<u>175</u>	@	<u>16.25</u>	<u>2,843.75</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@	<u>58.20</u>	<u>349.20</u>
ASC		@		

**EQUIPMENT**

PUMP TRUCK CEMENTER Bob Baker  
 # 366 HELPER Corey R.  
 BULK TRUCK  
 # 341 DRIVER Kevin W.  
 BULK TRUCK  
 # DRIVER

HANDLING	<u>184</u>	@	<u>2.25</u>	<u>414.00</u>
MILEAGE	<u>184 x 60 x .11</u>			<u>1,214.40</u>

TOTAL 4,885.95

**REMARKS:**

Break occurred on with Rig mud  
Run 5 bbls Freshwater also spacers  
Mix 175.52 Class A 3% ce 2% gel with 27.12  
bbls water. Replace with 15.84 bbls water  
Cement did circulate. Shut in Rig down

**SERVICE**

DEPTH OF JOB	<u>264</u>			
PUMP TRUCK CHARGE				<u>1125.00</u>
EXTRA FOOTAGE		@		
MILEAGE T-mch	<u>120</u>	@	<u>7.00</u>	<u>840.00</u>
MANIFOLD		@		
High T-mch	<u>120</u>	@	<u>4.00</u>	<u>480.00</u>

TOTAL 2,445.00

CHARGE TO: Larson Engineering Inc  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

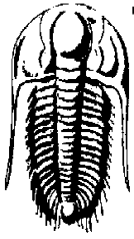
		@		
		@		
		@		
		@		
		@		

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 7,330.05  
 DISCOUNT 20% 1,466.00 IF PAID IN 30 DAYS  
5,864.05

PRINTED NAME LEWIS W. PLESNER  
 SIGNATURE Lewis W. Plesner



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering Inc  
 562 State Rd 4  
 Olmitz, Ks  
 67564  
 ATTN: Bob Lew ellyn

**York #1-12**  
**12-16-31**  
 Job Ticket: 43261 **DST#: 1**  
 Test Start: 2011.07.05 @ 14:50:54

## GENERAL INFORMATION:

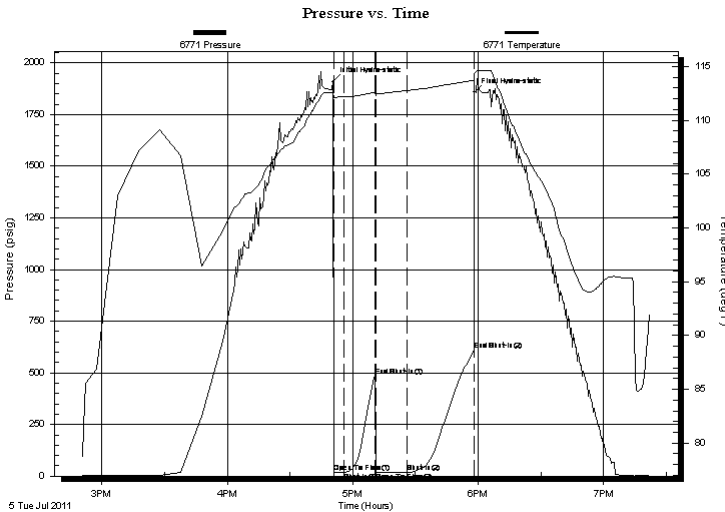
Formation: **B**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:50:54  
 Time Test Ended: 19:35:09  
**Interval: 3910.00 ft (KB) To 3935.00 ft (KB) (TVD)**  
 Total Depth: 3935.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 2824.00 ft (KB)  
 2817.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 6771 Outside

Press @ RunDepth: 18.99 psig @ 3911.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.07.05 End Date: 2011.07.05 Last Calib.: 2011.07.05  
 Start Time: 14:50:54 End Time: 19:22:09 Time On Btm: 2011.07.05 @ 16:50:39  
 Time Off Btm: 2011.07.05 @ 17:58:09

TEST COMMENT: Weak blow died in 4 min.  
 No return  
 No blow  
 No return

## PRESSURE SUMMARY



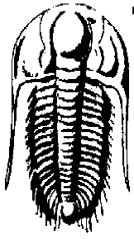
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.29	112.66	Initial Hydro-static
1	17.73	112.09	Open To Flow (1)
6	18.16	112.17	Shut-In(1)
20	485.33	112.60	End Shut-In(1)
21	18.35	112.46	Open To Flow (2)
36	18.99	112.77	Shut-In(2)
68	608.29	113.72	End Shut-In(2)
68	1856.72	114.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% <sub>m</sub>	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering Inc

**York #1-12**

562 State Rd 4  
Olmitz, Ks  
67564

**12-16-31**

Job Ticket: 43261

**DST#: 1**

ATTN: Bob Lew ellyn

Test Start: 2011.07.05 @ 14:50:54

## 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: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1.00	mud 100%m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

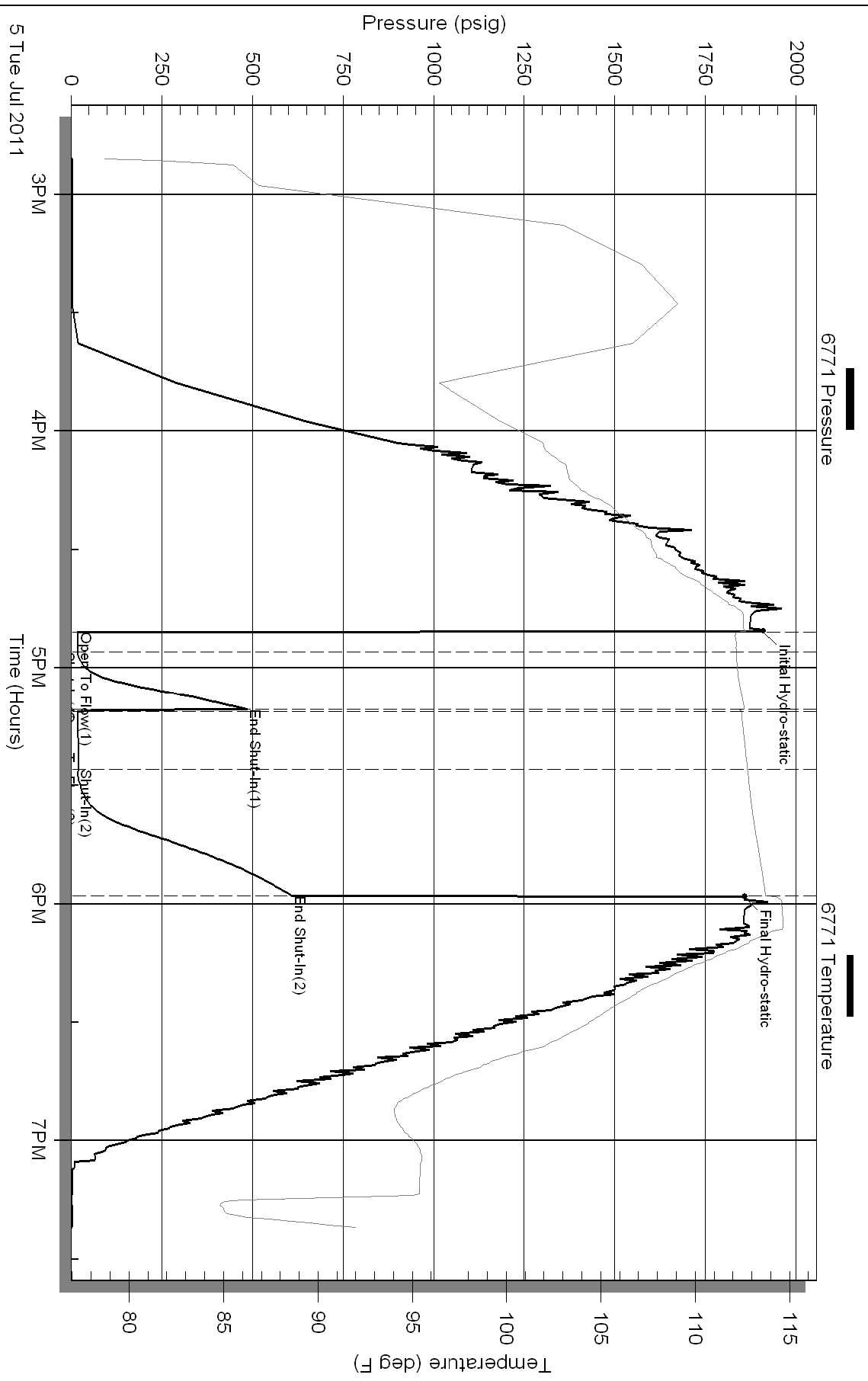
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering Inc

**York #1-12**

562 State Rd 4  
Olmitz, Ks  
67564

**12-16-31 Scott, Ks**

ATTN: Bob Lewellyn

Job Ticket: 43262

**DST#: 2**

Test Start: 2011.07.06 @ 12:20:28

## GENERAL INFORMATION:

Formation: **H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:08:58  
 Time Test Ended: 17:15:28  
 Test Type: Conventional Bottom Hole  
 Tester: Shane McBride  
 Unit No: 55  
 Interval: **4060.00 ft (KB) To 4090.00 ft (KB) (TVD)**  
 Reference Elevations: 2824.00 ft (KB)  
 Total Depth: 4090.00 ft (KB) (TVD) 2817.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

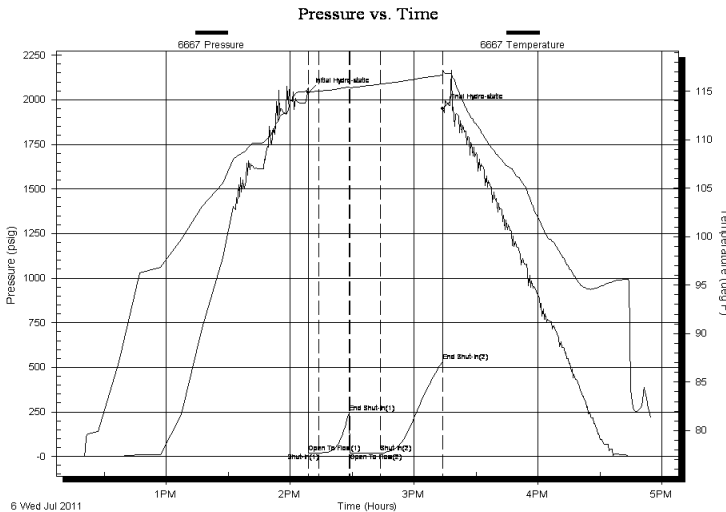
## Serial #: 6667

Inside

Press@RunDepth: 19.50 psig @ 4061.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.07.06 End Date: 2011.07.06 Last Calib.: 2011.07.06  
 Start Time: 12:20:28 End Time: 16:54:28 Time On Btm: 2011.07.06 @ 14:08:43  
 Time Off Btm: 2011.07.06 @ 15:13:58

**TEST COMMENT:** Weak blow died in 2 min  
 No return  
 No blow  
 No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.63	115.32	Initial Hydro-static
1	18.53	114.87	Open To Flow(1)
5	18.93	115.02	Shut-In(1)
20	242.32	115.47	End Shut-In(1)
21	18.92	115.37	Open To Flow(2)
35	19.50	115.74	Shut-In(2)
65	529.95	116.67	End Shut-In(2)
66	1949.81	117.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume(bbl)
1.00	mud 100%m	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering Inc

**York #1-12**

562 State Rd 4  
Olmitz, Ks  
67564

**12-16-31 Scott, Ks**

Job Ticket: 43262

**DST#: 2**

ATTN: Bob Lewellyn

Test Start: 2011.07.06 @ 12:20:28

## 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: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 2.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6667

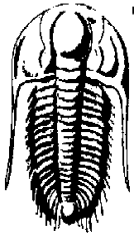
**Inside**

Larson Engineering Inc

12-16-31 Scott, Ks

DST Test Number: 2





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering Inc

**York #1-12**

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

**12-16-31 Scott, Ks**

Job Ticket: 43263

**DST#: 3**

Test Start: 2011.07.07 @ 03:10:54

## GENERAL INFORMATION:

Formation: **I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:12:54

Time Test Ended: 09:00:09

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 55

**Interval: 4096.00 ft (KB) To 4128.00 ft (KB) (TVD)**

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4128.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6667**

**Inside**

Press @ RunDepth: 19.87 psig @ 4097.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.07

End Date:

2011.07.07

Last Calib.:

2011.07.07

Start Time: 03:10:54

End Time:

08:46:09

Time On Btm:

2011.07.07 @ 05:12:39

Time Off Btm:

2011.07.07 @ 06:19:09

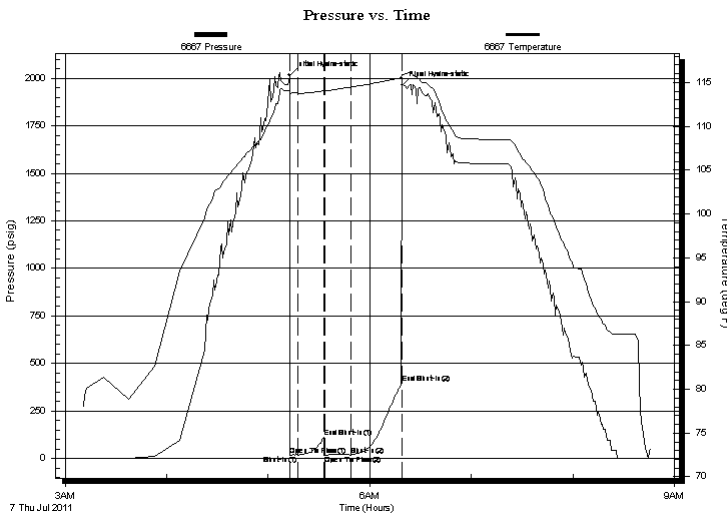
**TEST COMMENT:** Weak blow died in 4 min.

No return

No blow

No return

## PRESSURE SUMMARY



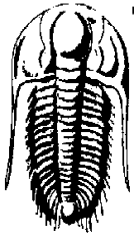
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2015.31	114.14	Initial Hydro-static
1	19.37	113.59	Open To Flow (1)
5	19.44	113.77	Shut-In(1)
20	111.79	114.06	End Shut-In(1)
21	18.89	114.02	Open To Flow (2)
37	19.87	114.48	Shut-In(2)
66	394.51	115.52	End Shut-In(2)
67	1963.72	115.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%m	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering Inc

**York #1-12**

562 State Rd 4  
Olmitz, Ks  
67564

**12-16-31 Scott, Ks**

Job Ticket: 43263

**DST#: 3**

ATTN: Bob Lew ellyn

Test Start: 2011.07.07 @ 03:10:54

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1.00	mud 100%m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

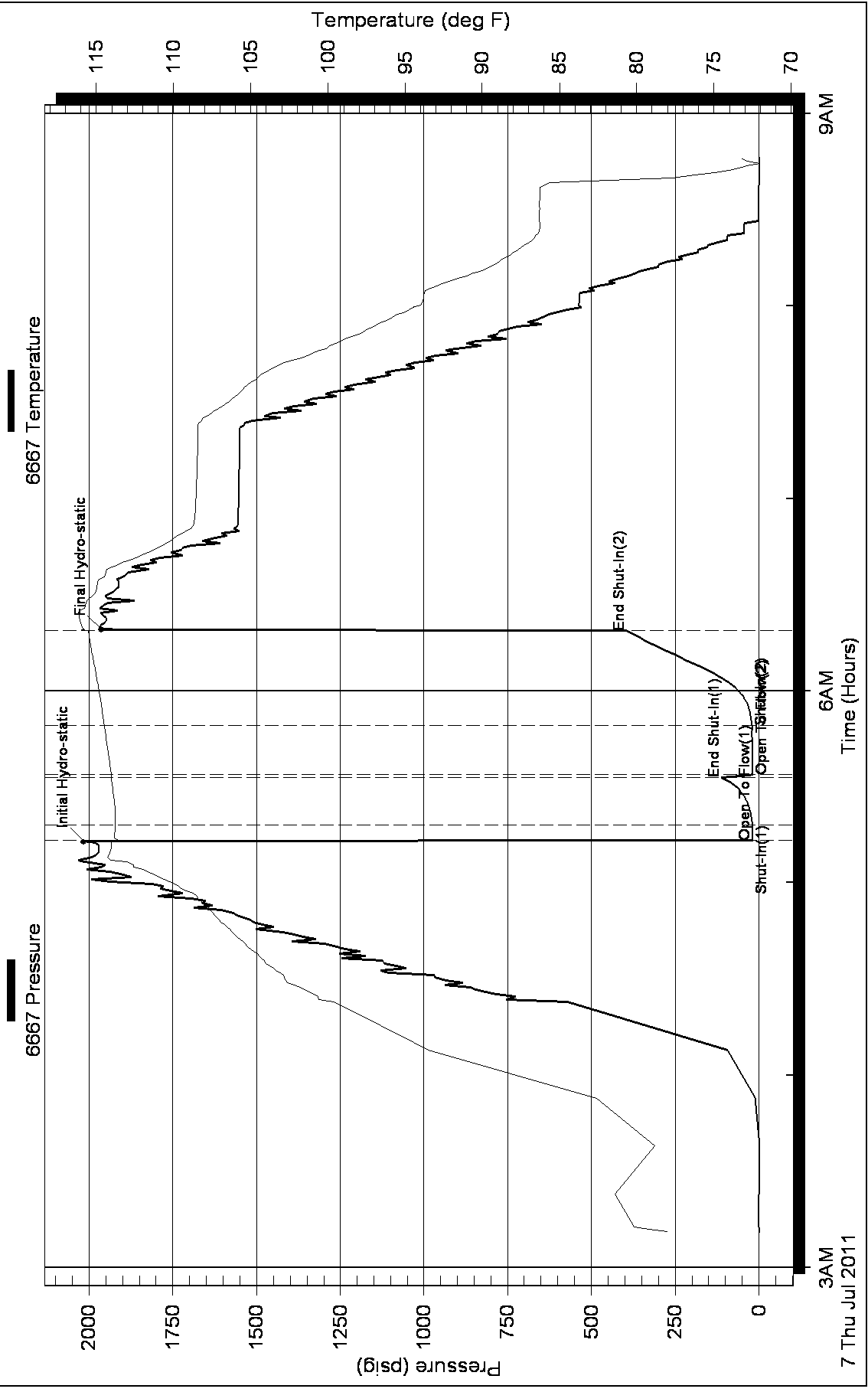
Serial #:

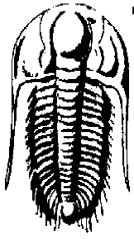
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering Inc  
562 State Rd 4  
Olmitz, Ks  
67564  
ATTN: Bob Lew ellyn

**York #1-12**

**12-16-31 Scott, Ks**

Job Ticket: 43264

**DST#: 4**

Test Start: 2011.07.07 @ 19:35:41

## GENERAL INFORMATION:

Formation: **K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:24:41  
 Time Test Ended: 00:58:26  
 Interval: **4150.00 ft (KB) To 4176.00 ft (KB) (TVD)**  
 Total Depth: 4176.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 2824.00 ft (KB)  
 2817.00 ft (CF)  
 KB to GR/CF: 7.00 ft

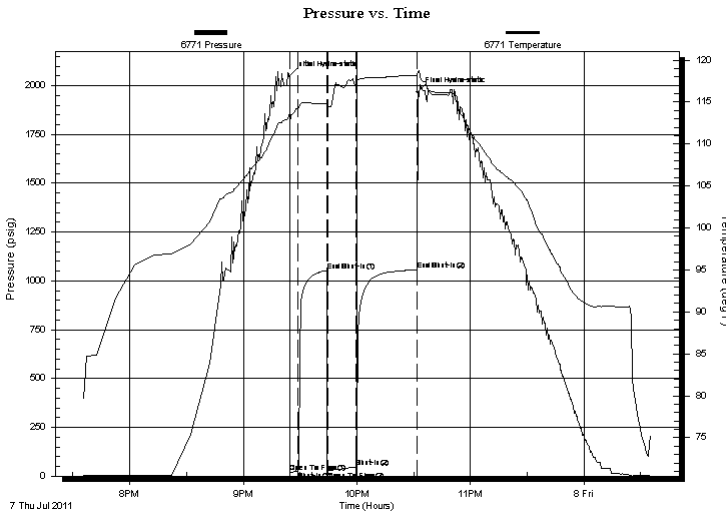
## Serial #: 6771

**Outside**

Press @ RunDepth: 47.29 psig @ 4151.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.07.07 End Date: 2011.07.08 Last Calib.: 2011.07.08  
 Start Time: 19:35:41 End Time: 00:35:26 Time On Btm: 2011.07.07 @ 21:24:26  
 Time Off Btm: 2011.07.07 @ 22:32:11

**TEST COMMENT:** Weak surface blow  
 No return  
 No blow  
 No return

## PRESSURE SUMMARY



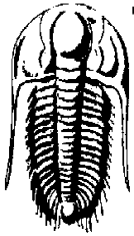
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.54	113.62	Initial Hydro-static
1	17.82	112.26	Open To Flow (1)
5	25.75	114.25	Shut-In(1)
20	1053.20	114.85	End Shut-In(1)
20	26.72	114.19	Open To Flow (2)
36	47.29	117.26	Shut-In(2)
68	1055.99	118.22	End Shut-In(2)
68	1969.27	118.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	heavy mud 100%m	0.17

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering Inc

**York #1-12**

562 State Rd 4  
Olmitz, Ks  
67564

**12-16-31 Scott, Ks**

Job Ticket: 43264

**DST#: 4**

ATTN: Bob Lew ellyn

Test Start: 2011.07.07 @ 19:35:41

## 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:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
35.00	heavy mud 100%m	0.172

Total Length: 35.00 ft      Total Volume: 0.172 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

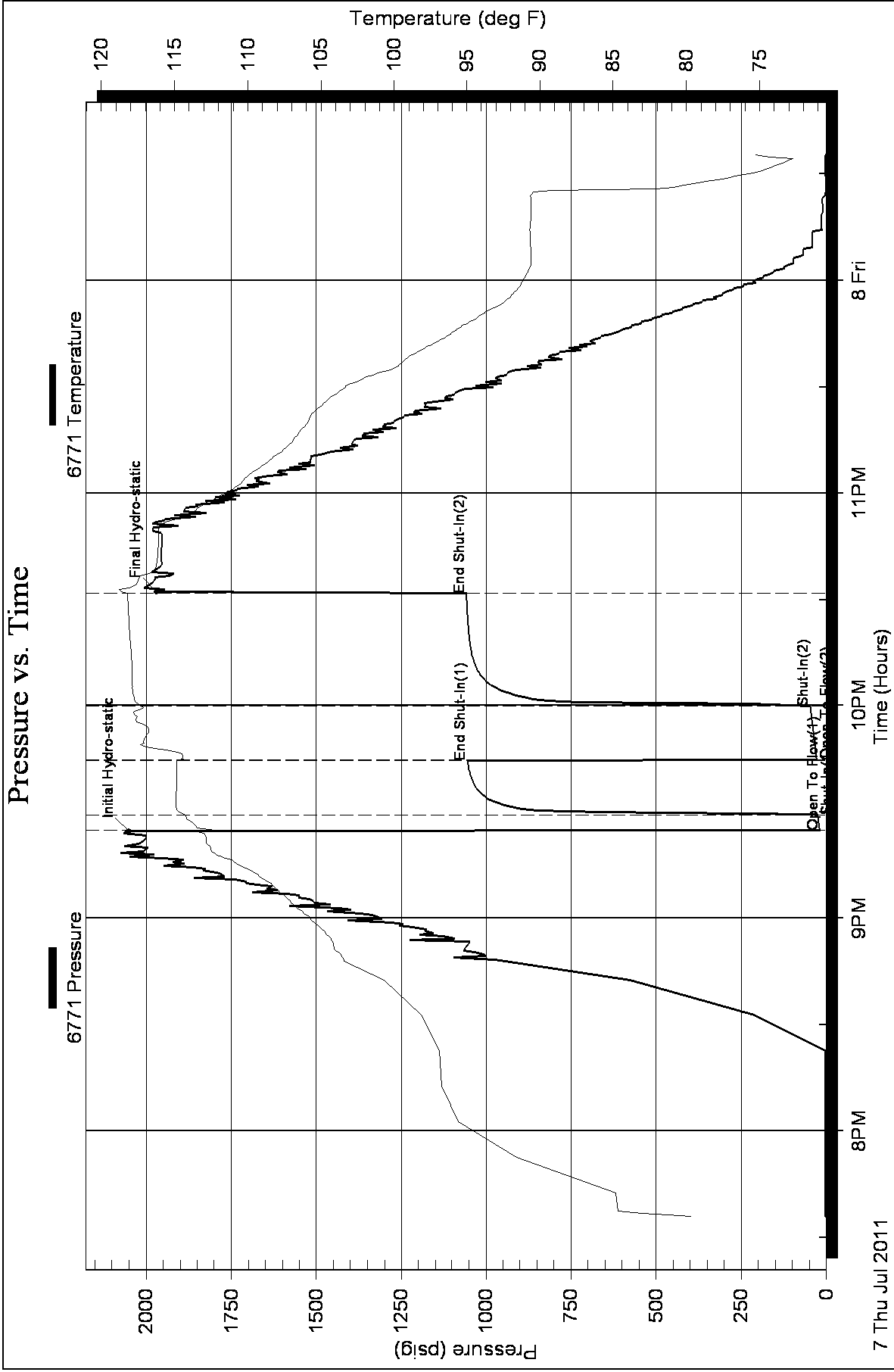
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering Inc

**York #1-12**

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

**12-16-31 Scott, Ks**

Job Ticket: 43264

**DST#: 4**

Test Start: 2011.07.07 @ 19:35:41

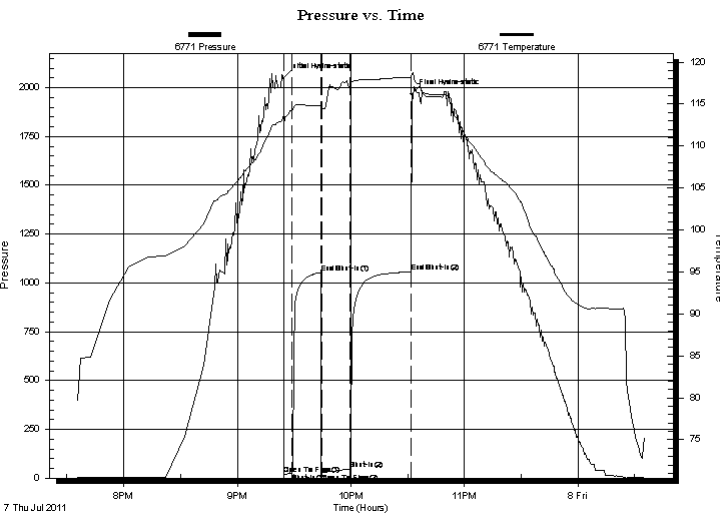
## GENERAL INFORMATION:

Formation: **K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:24:41  
 Time Test Ended: 00:58:26  
 Interval: **4150.00 ft (KB) To 4176.00 ft (KB) (TVD)**  
 Total Depth: 4176.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 2824.00 ft (KB)  
 2817.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 6771 Outside

Press @ RunDepth: 47.29 psig @ 4151.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.07.07 End Date: 2011.07.08 Last Calib.: 2011.07.08  
 Start Time: 19:35:41 End Time: 00:35:26 Time On Btm: 2011.07.07 @ 21:24:26  
 Time Off Btm: 2011.07.07 @ 22:32:11

TEST COMMENT: Weak surface blow  
 No return  
 No blow  
 No return



## PRESSURE SUMMARY

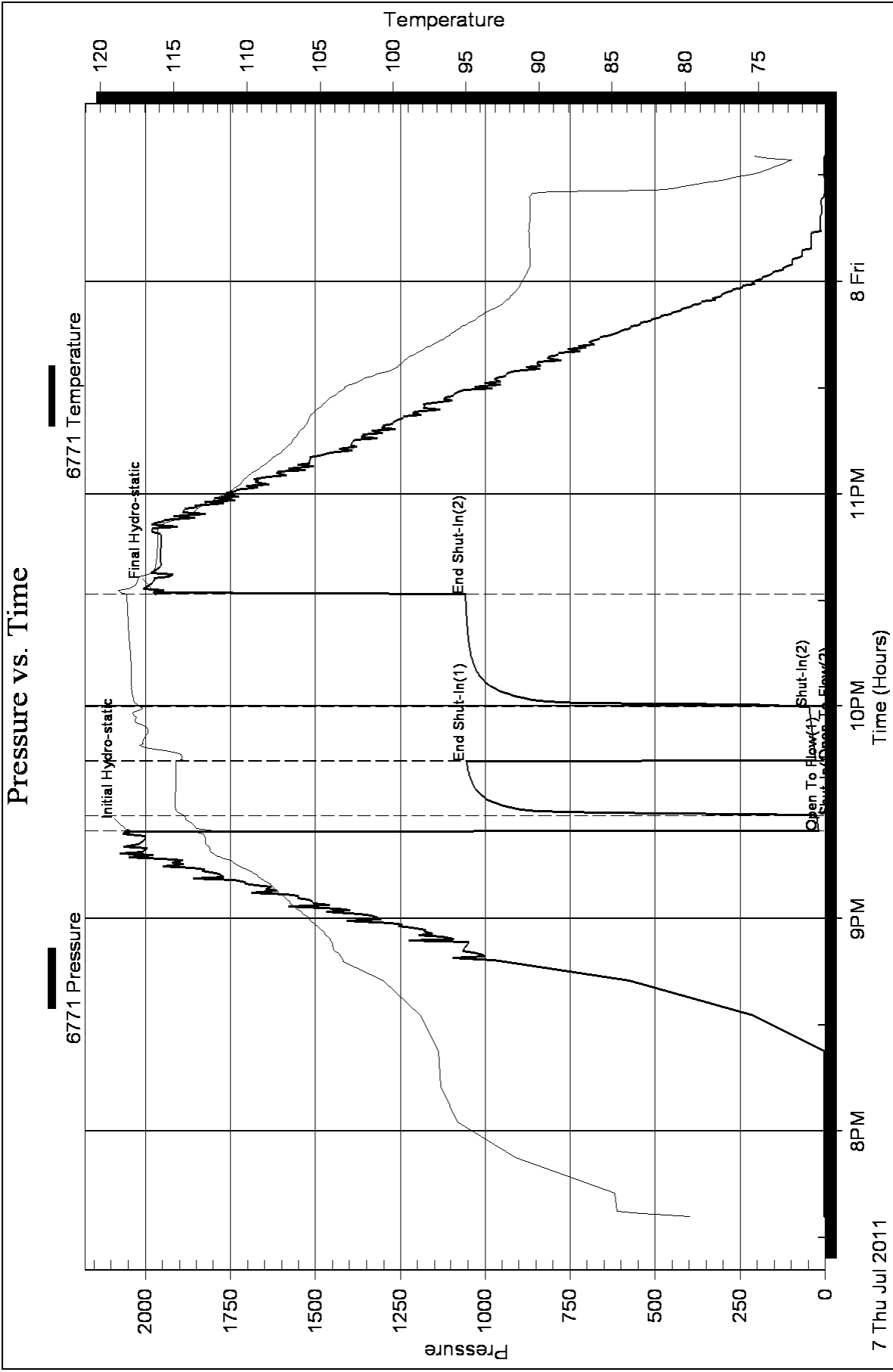
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.54	113.62	Initial Hydro-static
1	17.82	112.26	Open To Flow (1)
5	25.75	114.25	Shut-In(1)
20	1053.20	114.85	End Shut-In(1)
20	26.72	114.19	Open To Flow (2)
36	47.29	117.26	Shut-In(2)
68	1055.99	118.22	End Shut-In(2)
68	1969.27	118.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	heavy mud 100%m	0.17

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering Inc

**York #1-12**

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

**12-16-31 Scott, Ks**

Job Ticket: 43266

**DST#: 6**

Test Start: 2011.07.09 @ 15:55:00

## GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:20:30

Time Test Ended: 22:12:15

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 55

**Interval: 4248.00 ft (KB) To 4345.00 ft (KB) (TVD)**

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4345.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6667 Inside**

Press @ Run Depth: 74.02 psig @ 4346.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.09

End Date:

2011.07.09

Last Calib.:

2011.07.09

Start Time:

15:55:15

End Time:

22:12:15

Time On Btm:

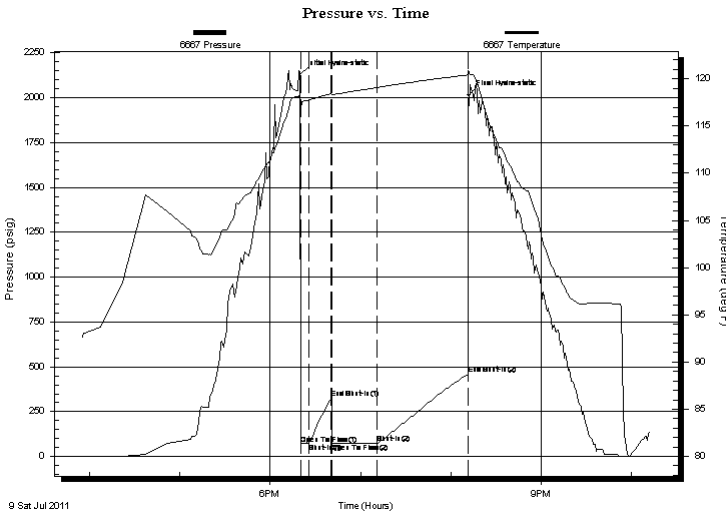
2011.07.09 @ 18:20:00

Time Off Btm:

2011.07.09 @ 20:12:00

**TEST COMMENT:** Built to 3" Blow  
No Return Blow  
Very Weak Surface Blow  
No Return Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.17	118.03	Initial Hydro-static
1	70.39	116.88	Open To Flow (1)
6	72.67	117.75	Shut-In(1)
21	325.42	118.42	End Shut-In(1)
21	72.08	118.32	Open To Flow (2)
51	74.02	119.09	Shut-In(2)
112	458.44	120.42	End Shut-In(2)
112	2015.90	120.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	m 100%M	0.32

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering Inc

**York #1-12**

562 State Rd 4  
Olmitz, Ks  
67564

**12-16-31 Scott, Ks**

Job Ticket: 43266

**DST#: 6**

ATTN: Bob Lew ellyn

Test Start: 2011.07.09 @ 15:55:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	m 100%M	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

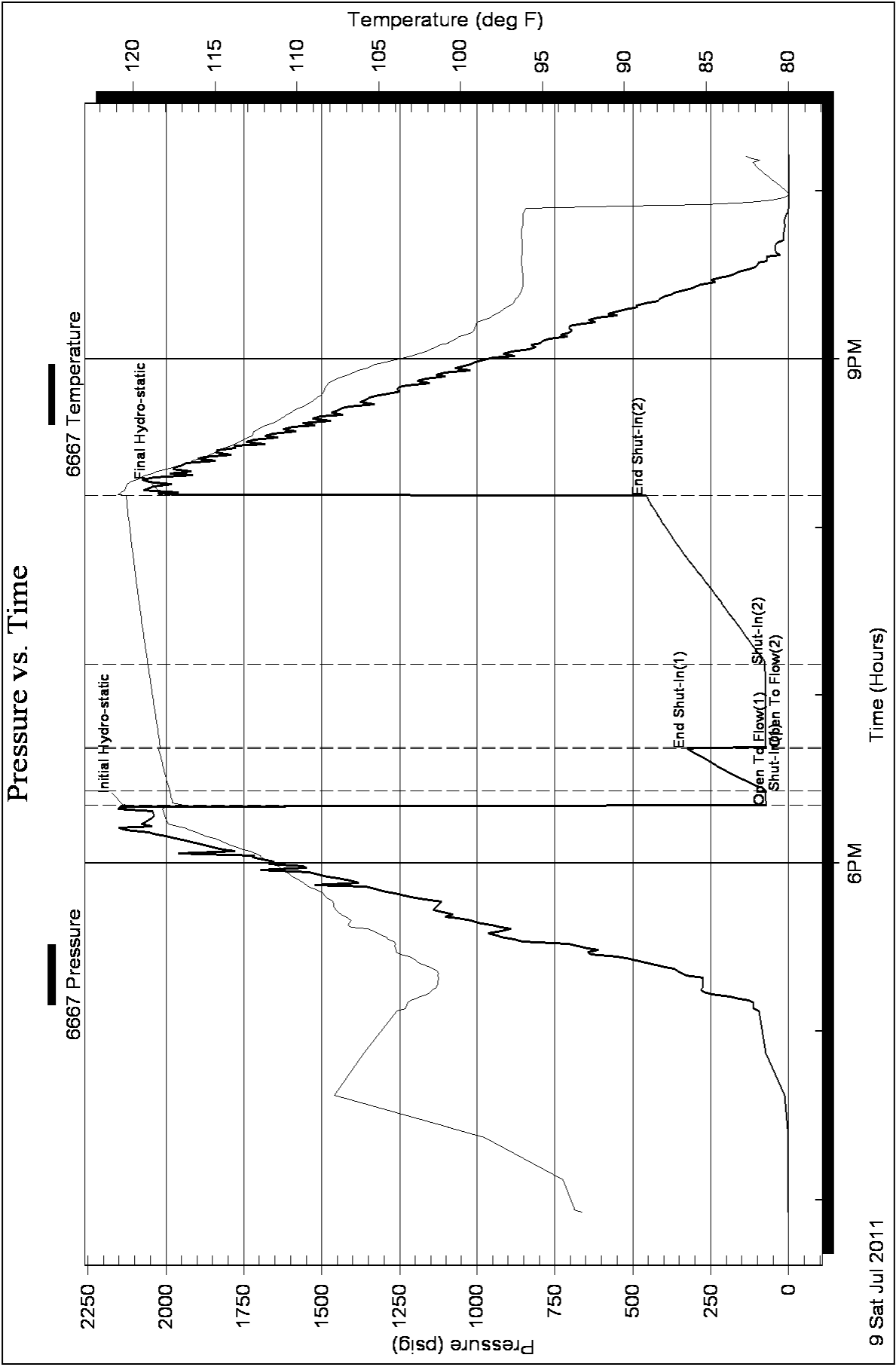
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering Inc

**York #1-12**

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

**12-16-31 Scott, Ks**

Job Ticket: 43267

**DST#: 7**

Test Start: 2011.07.10 @ 15:35:00

## GENERAL INFORMATION:

Formation: **Pawnee - Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:41:30

Time Test Ended: 20:49:00

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 55

**Interval: 4356.00 ft (KB) To 4457.00 ft (KB) (TVD)**

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4457.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6667**

**Inside**

Press @ Run Depth: 28.25 psig @ 4357.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.10

End Date:

2011.07.10

Last Calib.:

2011.07.10

Start Time: 15:35:15

End Time:

20:49:00

Time On Btm:

2011.07.10 @ 17:41:00

Time Off Btm:

2011.07.10 @ 18:47:30

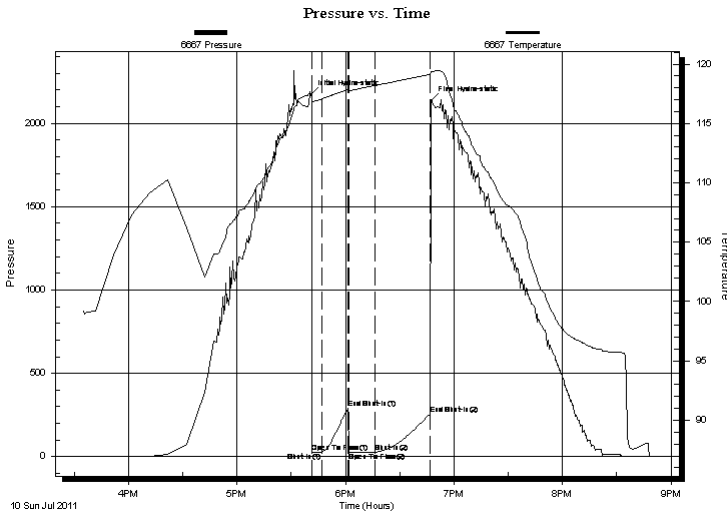
**TEST COMMENT:** Weak Surface Blow

No Return Blow

No Blow

No Return Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.32	117.44	Initial Hydro-static
1	25.47	116.87	Open To Flow (1)
6	25.61	117.05	Shut-In(1)
21	290.11	117.85	End Shut-In(1)
21	26.36	117.72	Open To Flow (2)
36	28.25	118.19	Shut-In(2)
66	256.87	119.12	End Shut-In(2)
67	2135.94	119.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100% M	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering Inc

**York #1-12**

562 State Rd 4  
Olmitz, Ks  
67564

**12-16-31 Scott, Ks**

Job Ticket: 43267

**DST#: 7**

ATTN: Bob Lew ellyn

Test Start: 2011.07.10 @ 15:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	m 100% M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

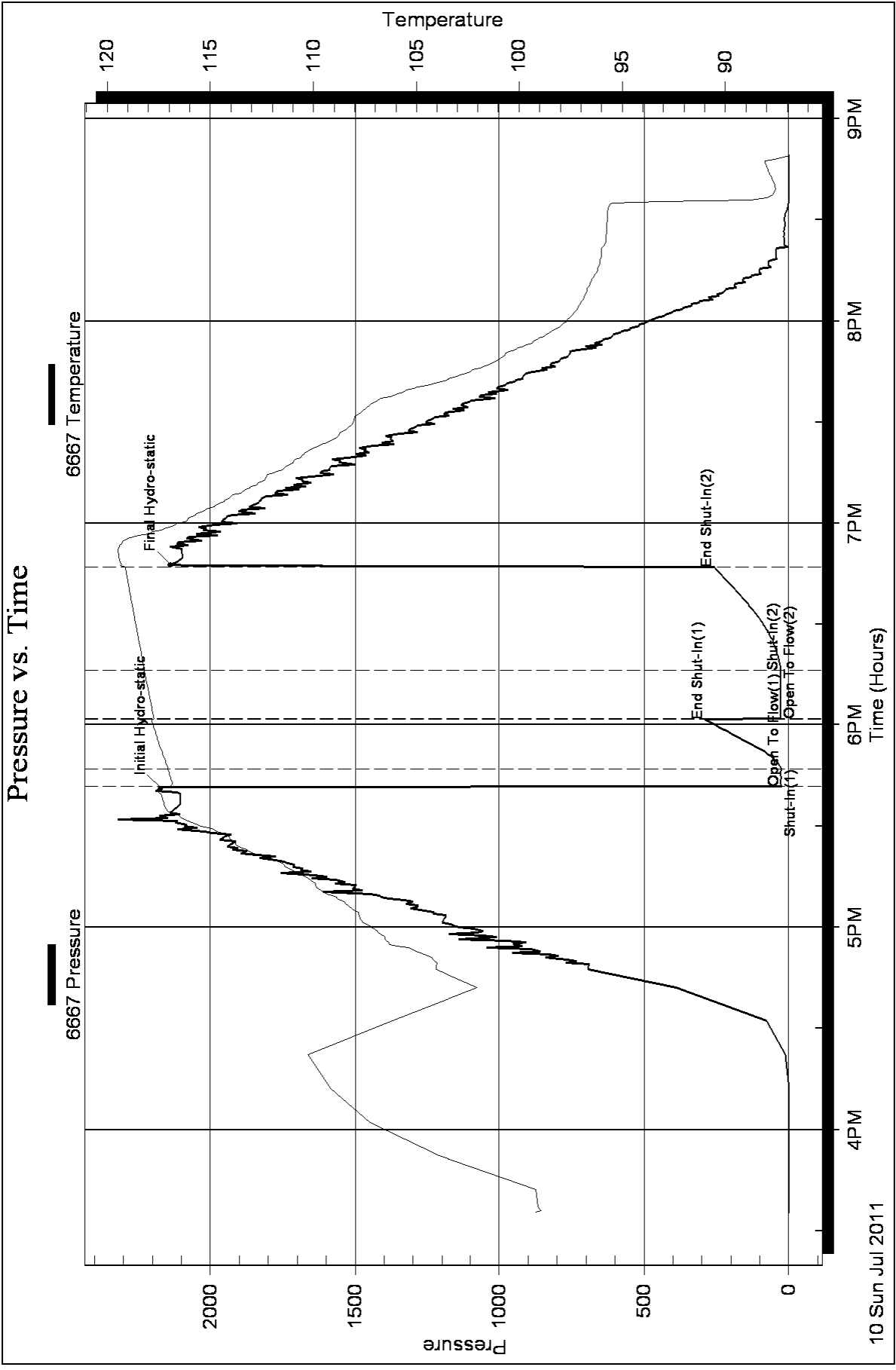
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering Inc

**York #1-12**

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

**12-16-31 Scott, Ks**

Job Ticket: 43268

**DST#: 8**

Test Start: 2011.07.11 @ 09:20:00

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:18:45

Time Test Ended: 14:48:30

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 55

**Interval: 4436.00 ft (KB) To 4515.00 ft (KB) (TVD)**

Reference Elevations: 2824.00 ft (KB)

Total Depth: 4515.00 ft (KB) (TVD)

2817.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6771 Outside**

Press @ RunDepth: 89.64 psig @ 4516.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.11

End Date: 2011.07.11

Last Calib.: 2011.07.11

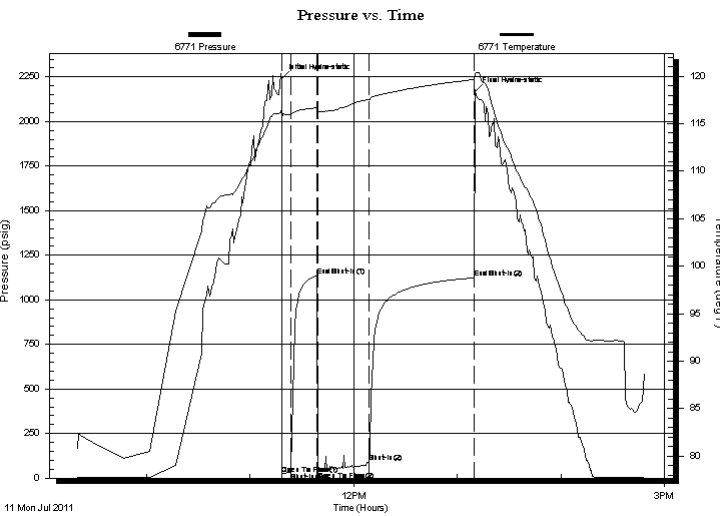
Start Time: 09:20:15

End Time: 14:48:30

Time On Btm: 2011.07.11 @ 11:18:30

Time Off Btm: 2011.07.11 @ 13:10:30

**TEST COMMENT:** Built To 1/2" Blow  
No Return Blow  
Built To 1" Blow  
No Return Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.16	116.62	Initial Hydro-static
1	23.99	115.51	Open To Flow (1)
6	32.01	115.91	Shut-In(1)
21	1134.23	116.67	End Shut-In(1)
21	37.26	116.28	Open To Flow (2)
51	89.64	117.53	Shut-In(2)
111	1123.27	119.63	End Shut-In(2)
112	2169.27	120.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	100% M	0.34

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering Inc

**York #1-12**

562 State Rd 4  
Olmitz, Ks  
67564

**12-16-31 Scott, Ks**

Job Ticket: 43268

**DST#: 8**

ATTN: Bob Lew ellyn

Test Start: 2011.07.11 @ 09:20:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.75 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	100% M	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

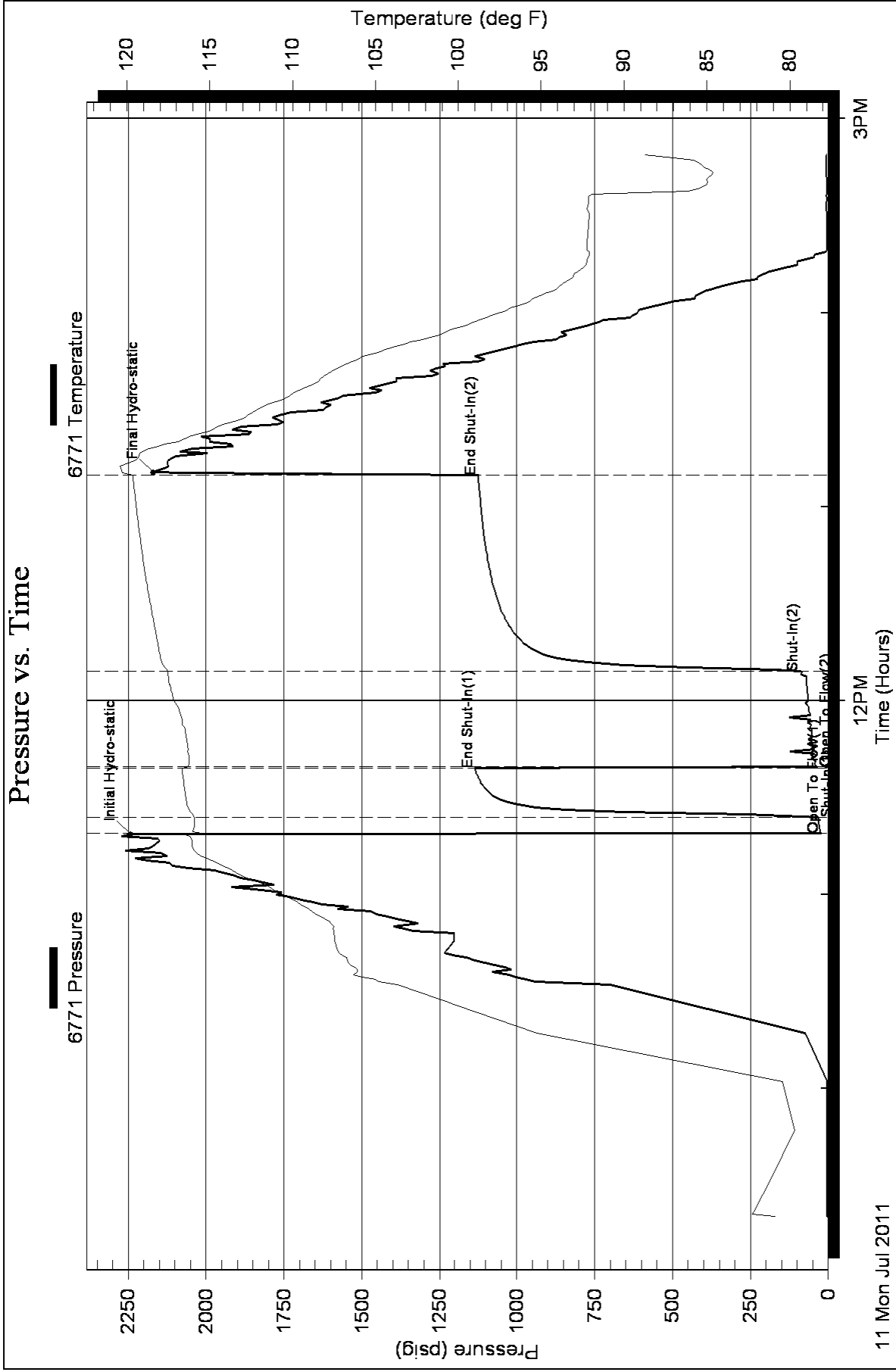
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# Robert C. Lewellyn

*Consulting Petroleum Geologist*

P. O. Box 375  
Kechi, Kansas 67067  
316-518-0495  
boblewellyn@yahoo.com

## GEOLOGICAL REPORT

### Larson Engineering, Inc.

No. 1-12 York  
1175' FNL & 2534' FWL Sec. 12-16S-31W  
Scott County, Kansas

CONTRACTOR: H D Drilling, LLC  
SPUDDED: June 30, 2011  
DRILLING COMPLETED: July 12, 2011  
SURFACE CASING: 8 5/8" @ 261 KBM/175 sx.  
ELECTRIC LOGS: DIL CNL/CDL MEL  
ELEVATIONS: 2824 KB 2817 GL

### FORMATION TOPS: (Electric Log)

Anhydrite	2210 (+ 614)
Base Anhydrite	2267 (+ 557)
Heebner Shale	3853 (-1029)
Lansing-Kansas City Group	3886 (-1062)
Muncie Creek Shale	4063 (-1239)
Stark Shale	4156 (-1332)
Hushpuckney Shale	4193 (-1369)
Base Kansas City	4236 (-1412)
Marmaton	4266 (-1442)
Altamont	4288 (-1464)
Pawnee	4359 (-1535)
Myrick Station	4386 (-1562)
Fort Scott	4412 (-1588)
Cherokee	4437 (-1613)
Cherokee Sand	4506 (-1682)
Mississippian	4516 (-1692)
Electric Log Total Depth	4560 (-1736)

Samples were examined microscopically from 3800 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.

Lansing-Kansas City Zones:

3894-3899 (A Zone)

Limestone, buff, dense, some finely crystalline, trace of scattered poor vugular and intercrystalline porosity, some scattered cream chalky, no show of oil.

3921-3923 (B Zone)

Limestone, buff, some gray, dense to finely crystalline and partly oolitic, poor scattered vugular and interoolitic porosity, scattered poor spotted stain, very slight show of free oil, faint fleeting odor, very poor fluorescence, poor cut.

Drill Stem Test No. 1            3910-3935

5-15-15-30; weak blow, died in four minutes of first flow, did not return on second flow; recovered one foot of mud. ISIP 485# FSIP 608# IFP 17-18# FFP 18-18# IHP 1908# FHP 1856# BHT 113 degrees F.

3936-3967 (C-D Zone)

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

3969-3982 (E Zone)

Limestone, buff, dense, some finely crystalline, some cream chalky, trace of very poor vugular and intercrystalline porosity, some scattered dead stain, no show of live oil.

3984-3997 (F Zone)

Limestone, cream to buff, some tan, dense to finely crystalline and slightly fossiliferous, some scattered poor vugular and intercrystalline porosity with traces of dead stain, no show of live oil.

3999-4013 (G Zone)

Limestone, tan, finely crystalline and oolitic, fair to good ooliticastic porosity, rare trace of dead stain, no show of live oil.

4076-4086 (H Zone)

Limestone, buff to gray, dense to finely crystalline and fossiliferous, scattered poor to fair small vug and interfossil porosity, some scattered poor spotted stain, trace of free oil, faint fleeting odor, poor fluorescence, poor cut.

Drill Stem Test No. 2            4060-4090

5-15-15-30; weak blow, died in two minutes, did not return on second flow; recovered one foot of mud. ISIP 242# FSIP 529# IFP 18-18# FFP 18-18# IHP 2040# FHP 1949# BHT 117 degrees F.

4106-4116 (I Zone)

Limestone, cream to buff, dense to finely crystalline slightly fossiliferous, some sucrosic, some cream finely crystalline with fair intercrystalline and scattered fair small vug porosity, scattered poor spotted stain, very slight show of free oil, faint odor, very poor fluorescence, poor cut.

Drill Stem Test No. 3            4096-4128

5-15-15-30; weak blow, died in four minutes of first flow, did not return on second flow; recovered one foot of mud. ISIP 111# FSIP 394# IFP 19-19# FFP 18-19# IHP 2015# FHP 1963# BHT 116 degrees F.

4136-4144 (J Zone)

Limestone, tan, some buff, finely crystalline and oolitic, fair to good ooliticastic porosity, rare trace of dead stain, no show of live oil.

4168-4178 (K Zone)

Limestone, cream to buff, dense to finely crystalline and partly fossiliferous, scattered fair intercrystalline and vugular porosity, poor to fair spotted stain, slight show of free oil, faint to fair odor, poor fluorescence, poor to fair cut.

Drill Stem Test No. 4            4150-4176

5-15-15-30; weak surface blow through first flow period, did not return on second flow; recovered 35 feet of heavy mud. ISIP 1053# FSIP 1055# IFP 17-25# FFP 26-47# IHP 2050# FHP 1969# BHT 118 degrees F.

4196-4201 (Middle Creek Zone)

Limestone, buff, some tan, dense, some finely crystalline, slightly fossiliferous, trace of poor vugular and intercrystalline porosity, rare trace of spotted stain, no free oil, no odor, no fluorescence, no cut.

4204-4212 (L Zone)

Limestone, buff to tan, some brown, some gray, dense to finely crystalline, slightly fossiliferous, fair intercrystalline and interfossil porosity, scattered poor spotted stain, trace of free oil, faint fleeting odor, poor fluorescence, poor cut, few pieces with calcite crystal overgrowth attached to fragments.

Drill Stem Test No. 5            4190-4215

5-15-15-30; weak blow, died in three minutes, did not return on second flow; recovered one foot of mud. ISIP 352# FSIP 613# IFP 16-15# FFP 16-17# IHP 2072# FHP 1978# BHT 116 degrees F.

4212-4236 (Lower L Zone)

Limestone, tan to brown, some gray, dense to finely crystalline, very slightly fossiliferous, mostly tight with a trace of very poor intercrystalline and small vug porosity, rare trace of very poor spotted stain, no free oil, no odor, no fluorescence, no cut, zone calculates water bearing on the electric log and warrants no further evaluation.

4238-4266 (Pleasanton)

Limestone, buff to gray, dense to finely crystalline and oolitic with dense-oolitic, buff limestone with gray oolites, partly fossiliferous, some scattered very poor intercrystalline porosity, no show of oil.

4266-4276 (Marmaton Zone)

Limestone, buff to tan, dense to finely crystalline, some tan to brown lithographic limestone, zone is mostly tight with traces of dead stain and no shows of live oil.

4308-4316 (Altamont "A" Zone)

Limestone, cream to buff, dense to finely crystalline, trace of poor intercrystalline porosity, some poor vugular porosity, trace of poor spotted stain, some stain on fracture faces on dense pieces, trace of free oil, faint fleeting odor, poor fluorescence, poor cut.

Drill Stem Test No. 6            4248-4345

5-15-30-60; built to three-inch blow on first flow; came back on second flow as very weak surface blow and lasted through the second flow period; recovered 65 feet of mud. ISIP 325# FSIP 458# IFP 70-73# FFP 72-74# IHP 2131# FHP 2016# BHT 120 degrees F.

4369-4383 (Pawnee)

Limestone, buff to tan, dense to finely crystalline, some tan lithographic limestone, scattered very poor vugular porosity, trace of light spotted stain, trace of free oil, faint fleeting odor, poor fluorescence, poor cut.

4386-4407 (Myrick Station)

Limestone, tan to brown, dense to finely crystalline, trace of sucrosic, scattered very poor intercrystalline and vugular porosity, trace of scattered very poor spotted stain, trace of free oil, faint fleeting odor, poor fluorescence, poor cut. Some cream to buff finely crystalline and chalky limestone, tight, no show of oil.

4412-4437 (Fort Scott)

Limestone, tan to brown, finely crystalline and oolitic, poor intercrystalline and interoolitic porosity, scattered poor spotted stain, very slight show of free oil, faint fleeting odor, poor fluorescence, poor cut. Lower section is limestone, buff to tan, finely crystalline and oolitic, lower section mostly tight with no show of oil.

4440-4458 (Cherokee Lime)

Limestone, tan to brown, dense, some finely crystalline, zone is mostly tight with no show of oil.

Drill Stem Test No. 7            4356-4457

5-15-15-30; built to weak surface blow, did not return on second flow; recovered five feet of mud. ISIP 290# FSIP 257# IFP 25-26# FFP 26-28# IHP 2171# FHP 2136# BHT 119 degrees F.



4460-4479 (Cherokee Lime)

Limestone, tan to brown, dense to sub-lithographic, zone is mostly tight and contained no shows of oil.

4479-4503 (Johnson Zone)

Limestone, buff to tan to brown, dense to finely crystalline, slightly fossiliferous, poor intercrystalline and interfossil porosity, scattered poor spotted stain with some dead stain, slight show of free oil, faint odor, poor fluorescence, poor cut.

4506-4509 (Cherokee sand)

Sand, white, fine-grained, calcareous, subangular to subround, well sorted and well-cemented, mostly tight, small show of tarry free oil, poor spotted stain, some dead stain, faint odor, no fluorescence, poor cut.

Drill Stem Test No. 8            4436-4515

5-15-30-60; built to one-half inch blow on first flow; built to one-inch blow on second flow, no blowback; recovered 70 feet of mud. ISIP 1134# FSIP 1123# IFP 24-32# FFP 37-90# IHP 2242# FHP 2169# BHT 120 degrees F.

4516-4560 (Mississippian)

Limestone, buff to tan, dense to finely crystalline, some sub-lithographic, some cream chalky limestone, trace of glauconitic lime, section is mostly tight with no shows of oil.

Conclusions and Recommendations:

Sample examination, drill stem testing, and electric logging revealed no zones of possible commercial production of oil. It was therefore recommended that the No. 1-12 York be plugged and abandoned.

Respectfully submitted,

Robert C. Lewellyn  
Consulting Petroleum Geologist

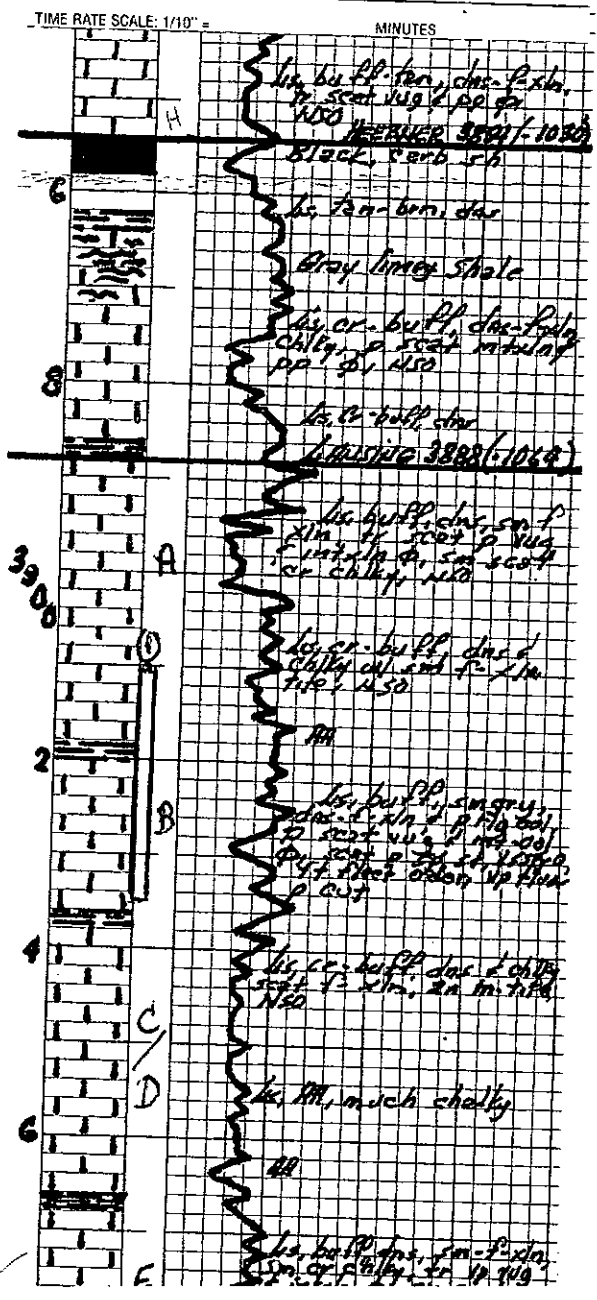
RCL:me

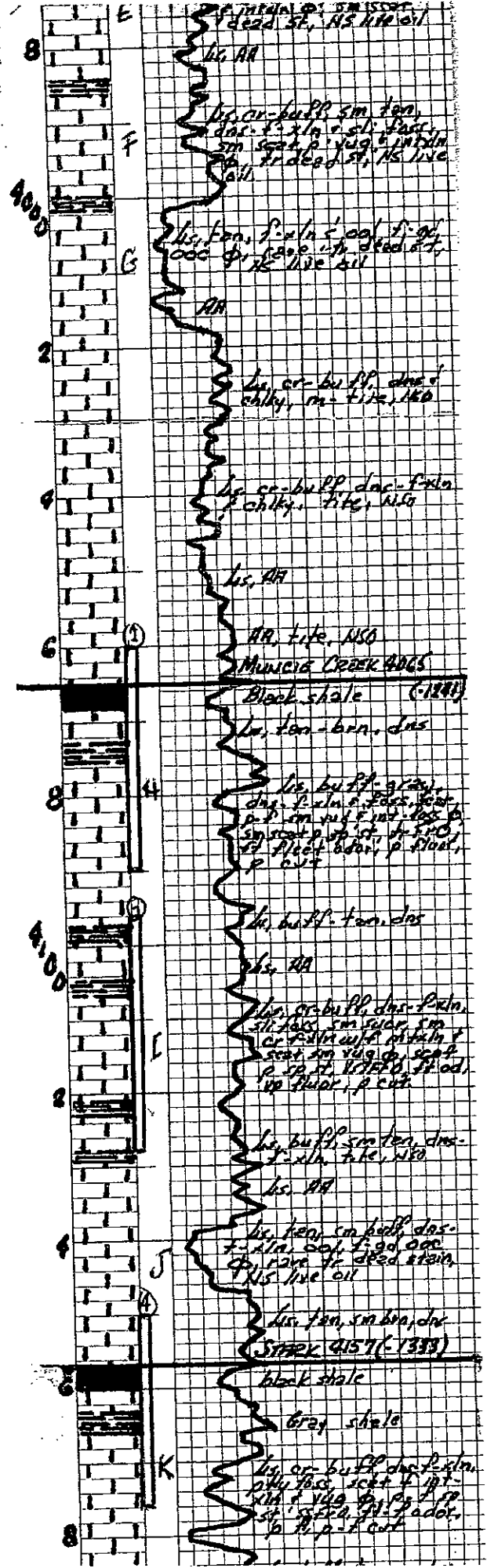
STATE <b>KANSAS</b>		COMPANY <b>LARSON ENGINEERING, Inc.</b>	
COUNTY <b>SCOTT</b>	FARM <b>YORK</b>	WELL NO. <b>1-12</b>	
BLOCK <b>12</b>	SURVEY <b>1175' FNL &amp; 2534' FNL</b>		
SEC. <b>12</b>			
T <b>165</b>	R <b>31W</b>	TOTAL DEPTH <b>4560</b>	
CONTRACTOR <b>HD Drilling, LLC</b>		COMMENCED <b>06-30-2011</b>	
COMPLETED <b>07-12-2011</b>		REMARKS <b>Robert C. Lamellen - Geologist</b>	
ALTITUDE <b>2824 KB</b>		PRODUCTION <b>25A</b>	

CASING RECORD

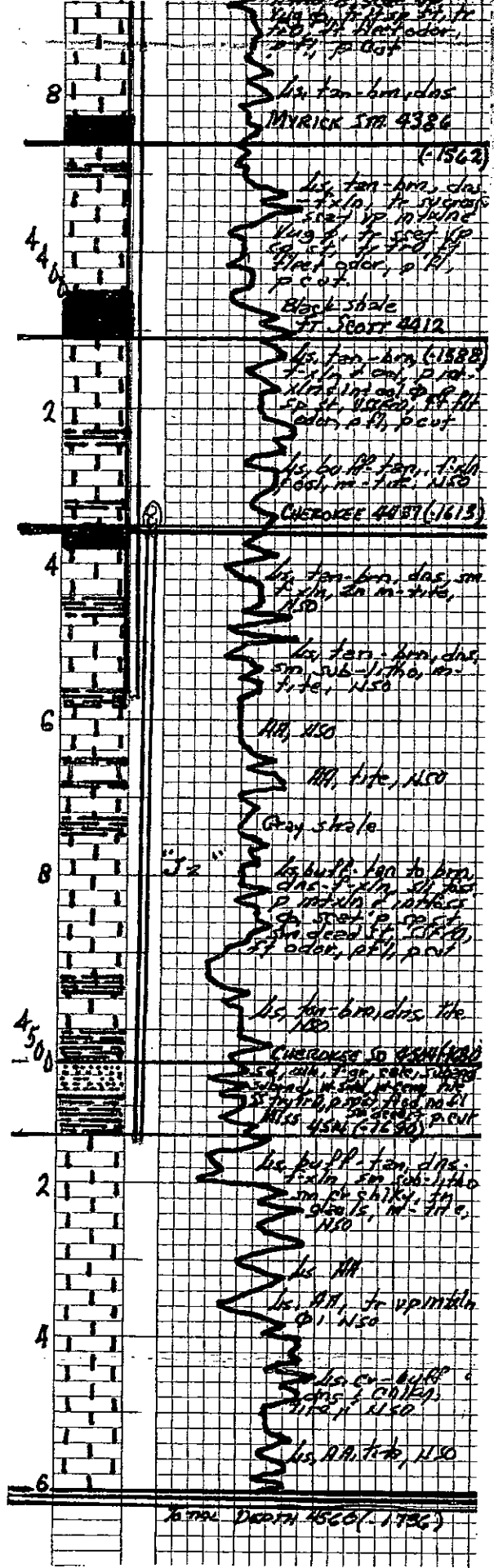
**8 3/8" @ 261 KBM/175 cc.**

SHOT QUARTS BETWEEN









KANAWHA DEPOT 4500 (1756)

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



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

October 28, 2011

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

Re: ACO1  
API 15-171-20816-00-00  
York 1-12  
NW/4 Sec.12-16S-31W  
Scott 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