



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
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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: _____



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
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Joann Unit 1-32
Doc ID	1062026

Tops

Name	Top	Datum
Anhydrite	281	+588
Base Anhydrite	2211	+558
Heebner Sh	3958	-1189
L-KC	3997	-1228
Stark Sh	4250	-1481
Base KC	4328	-1599
Marmaton	4344	-1575
Pawnee	4445	-1676
Fort Scott	4496	-1727
Cherokee	4522	-1753
Cherokee Sand	4572	-1803
Mississippian	4608	-1839

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Joann Unit 1-32
Doc ID	1062026

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4568-72	150 Gal 7-1/2% HCl	4568-72
		300 Gal 7-1/2% HCl / 3%HF	4568-72
4	4502-04, 4447-52	250 Gal 15% NEFe	4502-04
		250 GAL 15% NE	4447-52
4	4350-54	250 Gal 15% MCA	4350-54
		400 Gal 15% NE	4350-54
		400 Gal 15% NE	4502-04



CHARGE TO: Larson Engineering
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET
20750

PAGE 1 OF 1

SERVICE LOCATIONS: 1. Nuss City, KS
 WELL/PROJECT NO. 1-32 LEASE Government COUNTY/PARISH LANE STATE KS CITY Dighton DATE 6 Jun 11 OWNER _____
 2. TICKET TYPE SERVICE SALES CONTRACTOR _____ RIG NAME/NO. _____ SHIPPED VIA CT DELIVERED TO location ORDER NO. _____
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement post collar WELL PERMIT NO. _____ WELL LOCATION 4-A 12-2 1-5
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE	40	mi	5.00		200.00
576D		1			Post Collar	1	ea	1100.00		1100.00
330		1			SAND cement		180 sk	15.00		2700.00
276		1			Fluore		50 lb	1.50		75.00
290		1			D-AIR	2	gal	35.00		70.00
581		1			service charge	35	sk	1.50		352.50
583		1			Drayage		467.70 TON	1.00		467.70
288		1			SAND	5	sk	22.00		110.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 X
 DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5075.20
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Lane TAX 6.3% 186.17
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL 5261.37
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR _____ APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 6 Jun 11 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Ladson Engineering		1-32		Joann Unit		concrete collar		20750	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
									235 sks SMD @ 1/4" floc 28" x 5 1/2" Port collar - 2159'
	1050								on loc TRK 114
	1118					1000	1000		test to 1000 psi - hold
	1130	3 1/2	3			400			ing rate
	1135								mix SMD @ 11.2 ppg
	1200	3 1/2	88			600			170 sks mixed - cement to surface. close tool
									test to 1200 psi - hold
									Run 5 joints
	1215		20						reverse back clean
									wash truck
									rack up
	1345								job complete
									170 sks - 20 top ft
									flush
									Blaw Rob & Dave



CHARGE TO:
LARSON ENGINEERING
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 20521

PAGE 1 OF 2

SERVICE LOCATIONS
 1. **Ness City, Ks**

WELL/PROJECT NO. **1-32** LEASE **JOANN UNET** COUNTY/PARISH **LAWE** STATE **Ks** CITY **NESS CITY** DATE **6-1-11** OWNER **SAME**

TICKET TYPE SERVICE SALES CONTRACTOR **H-D DRILLING #3** RIG NAME/NO. **LOCATION** SHIPPED VIA **CT** DELIVERED TO **LOCATION** ORDER NO.

WELL TYPE **OIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **5 1/2" LONGSTRING** WELL PERMIT NO. WELL LOCATION **DEIGHTON, KS - 4N, 1 1/2 E**

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 110	40		ME		5.00	200.00
578		1			PUMP CHARGE	1		JOB	4652 FT	1400.00	1400.00
221		1			LIQUID NCL	2		Gal		25.00	50.00
280		1			FLOCHECK 21	500		Gal		2.50	1250.00
419		1			ROTATING HEAD RENTAL	1		JOB		150.00	150.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X
 DATE SIGNED **6-1-11** TIME SIGNED **1830** A.M. P.M.

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	PRICE	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#1		3050.00
WE UNDERSTOOD AND MET YOUR NEEDS?						4231.50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				#2		1157.62
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				subtotal		7281.50
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TAX		321.62
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL		7603.12

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR **WAYNE WILSON** APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 6-1-11 PAGE NO. 9

CUSTOMER **LARSON ENGINEERING** WELL NO. **1-32** LEASE **JOANN UNIT** JOB TYPE **5 1/2" LONGSTRING** TICKET NO. **20521**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1830							ON LOCATION
								TD-4653 SETC 4652'
								TP-4656.35 PORT COLLAR e 2159
								ST-42.61 5 1/2 # 15.5
	2000							DROP BALL - CALCULATE ROTATE
	2105	6	15		✓		450	PUMP 15 BBLS KCL SPACER "
	2108	6	12		✓		450	PUMP 500 GAL FLOCHECK-21 "
	2110	6	5		✓		450	PUMP 5 BBLS KCL SPACER "
	2112		7					PLUG RH (30SKS)
	2115	4 1/2	30		✓		300	MAX CEMENT - 125 SKS EA-2 e 15.4 APG "
	2125							WASH OUT PUMP LINES
	2127							RELEASE LATCH DOWN PLUG
	2130	6 1/2	0		✓			DISPARE PLUG
		6 1/2	100				700	SHUT OFF ROTATING
	2147	6	109.8				1500	PLUG DOWN - PSE UP LATCH IN PLUG
	2150						OK	RELEASE PSE-HELD
								WASH TRUCK
	2230							JOB COMPLETE
								THANK YOU WAYNE, JEFF, DAVE

ALLIED CEMENTING CO., LLC. 038749

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Grant Blvd KS

DATE <u>5-17-11</u>	SEC. <u>32</u>	TWP. <u>17S</u>	RANGE <u>28W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:45 pm</u>	JOB FINISH <u>7:15 pm</u>
LEASE <u>Joann Witt</u>		WELL # <u>1-32</u>	LOCATION <u>Dighton KS 4 north to Road</u>			COUNTY <u>Lane</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>			<u>1 1/2 East South to</u>				

CONTRACTOR H.D. Billing Rig #3

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. 264

CASING SIZE 8 3/4 DEPTH 261

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 264

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 16.67

PERFS. _____

DISPLACEMENT 15.67 bbls Freshwater

OWNER Larson Engineering Inc

CEMENT
AMOUNT ORDERED 17500 Class A 3% cc 2% gel

COMMON <u>17500</u>	@ <u>16.25</u>	<u>2843.75</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 _____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING <u>184</u>	@ <u>2.25</u>	<u>414.00</u>
MILEAGE <u>184 x 90 x .11</u>		<u>1821.00</u>
TOTAL		<u>5492.30</u>

EQUIPMENT

PUMP TRUCK CEMENTER Bobby Bolter

224 HELPER Bobby Bolter

BULK TRUCK

462-186 DRIVER Kevin W / Larry S

BULK TRUCK

_____ DRIVER _____

REMARKS:

Break circulation with org mud
Heed up to cement pump and
mix 17500 com 3% cc 2% gel
Cement out - start displacement with
15.67 bbls Freshwater stop pump
short on cement did circulator

SERVICE

DEPTH OF JOB <u>261</u>		
PUMP TRUCK CHARGE _____		<u>1125.00</u>
EXTRA FOOTAGE _____	@ _____	_____
MILEAGE <u>180</u>	@ <u>7.00</u>	<u>1260.00</u>
MANIFOLD _____	@ _____	_____
<u>light truck 180</u>	@ <u>4.00</u>	<u>720.00</u>
_____	@ _____	_____

TOTAL 3105.00

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 <u>3105.00</u>		
DISCOUNT <u>0.00</u>		

IF PAID IN 30 DAYS

PRINTED NAME LEWAYNE TRESNER

SIGNATURE Lewayne Tresner

Thank You



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43187 **DST#: 1**
Test Start: 2011.05.23 @ 22:42:00

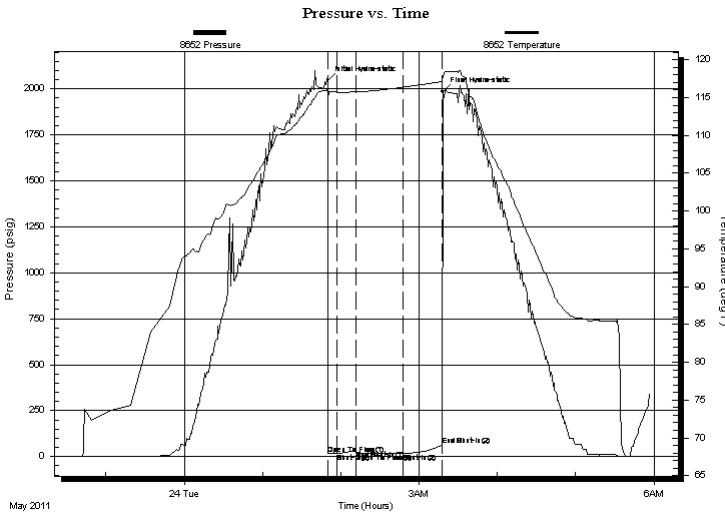
GENERAL INFORMATION:

Formation: **Lansing H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:50:15
Time Test Ended: 05:57:00
Interval: **4148.00 ft (KB) To 4177.00 ft (KB) (TVD)**
Total Depth: 4177.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole
Tester: Bradley Walter
Unit No: 40
Reference Elevations: 2769.00 ft (KB)
2762.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8652 **Inside**
Press @ Run Depth: 17.75 psig @ 4149.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.05.23 End Date: 2011.05.24 Last Calib.: 2011.05.24
Start Time: 22:42:05 End Time: 05:56:59 Time On Btm: 2011.05.24 @ 01:50:00
Time Off Btm: 2011.05.24 @ 03:18:15

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: No blow .
FSI No return blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2045.55	116.13	Initial Hydro-static
1	15.47	114.82	Open To Flow (1)
8	17.59	115.72	Shut-In(1)
22	36.89	115.75	End Shut-In(1)
22	17.12	115.74	Open To Flow (2)
58	17.75	116.37	Shut-In(2)
88	63.92	117.14	End Shut-In(2)
89	1985.35	117.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud (oil spots)	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43187 **DST#: 1**
Test Start: 2011.05.23 @ 22:42:00

Mud and Cushion Information

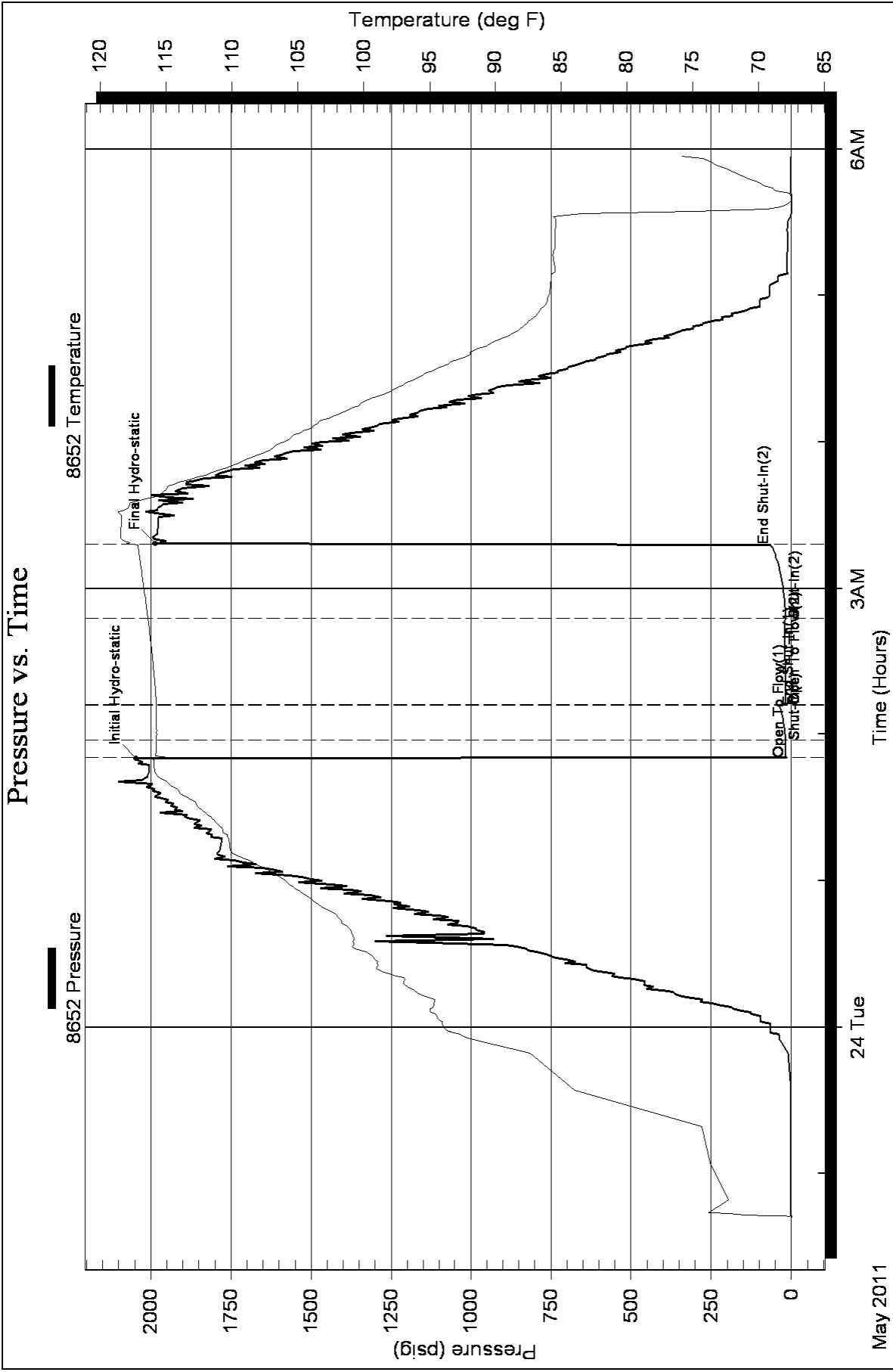
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud (oil spots)	0.014

Total Length: 3.00 ft Total Volume: 0.014 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
562 West State Road 4
Olmitz, Ks 67564
ATTN: Bob Lew ellyn

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43188 **DST#: 2**
Test Start: 2011.05.24 @ 15:08:00

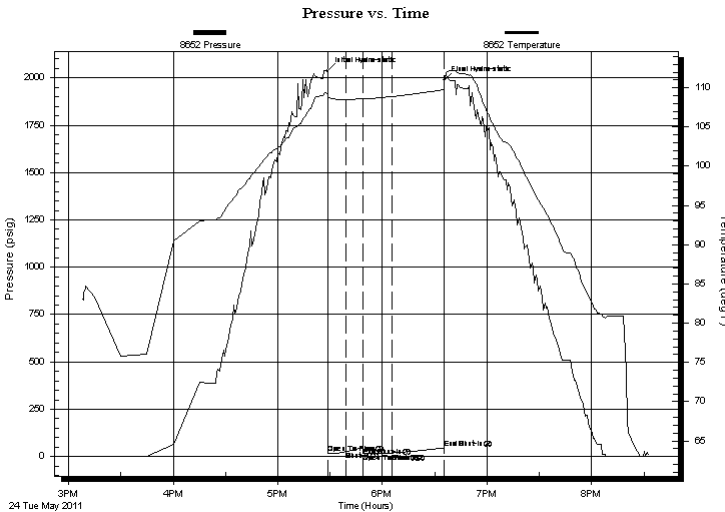
GENERAL INFORMATION:

Formation: **Lansing I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:28:45
Time Test Ended: 20:33:45
Test Type: Conventional Bottom Hole
Tester: Bradley Walter
Unit No: 40
Interval: **4180.00 ft (KB) To 4210.00 ft (KB) (TVD)**
Reference Elevations: 2769.00 ft (KB)
Total Depth: 4210.00 ft (KB) (TVD) 2762.00 ft (CF)
Hole Diameter: 7.85 inches Hole Condition: Poor KB to GR/CF: 7.00 ft

Serial #: 8652 Inside
Press @ Run Depth: 19.11 psig @ 4181.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.05.24 End Date: 2011.05.24 Last Calib.: 2011.05.24
Start Time: 15:08:05 End Time: 20:33:44 Time On Btm: 2011.05.24 @ 17:28:30
Time Off Btm: 2011.05.24 @ 18:35:30

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: No blow .
FS: No return blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.91	109.29	Initial Hydro-static
1	17.18	108.43	Open To Flow (1)
11	25.96	108.51	Shut-In(1)
21	47.42	108.59	End Shut-In(1)
21	17.76	108.57	Open To Flow (2)
37	19.11	108.86	Shut-In(2)
67	45.88	109.76	End Shut-In(2)
67	1987.67	110.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud (oil spots)	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43188

DST#: 2

ATTN: Bob Lew ellyn

Test Start: 2011.05.24 @ 15:08:00

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: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud (oil spots)	0.024

Total Length: 5.00 ft Total Volume: 0.024 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

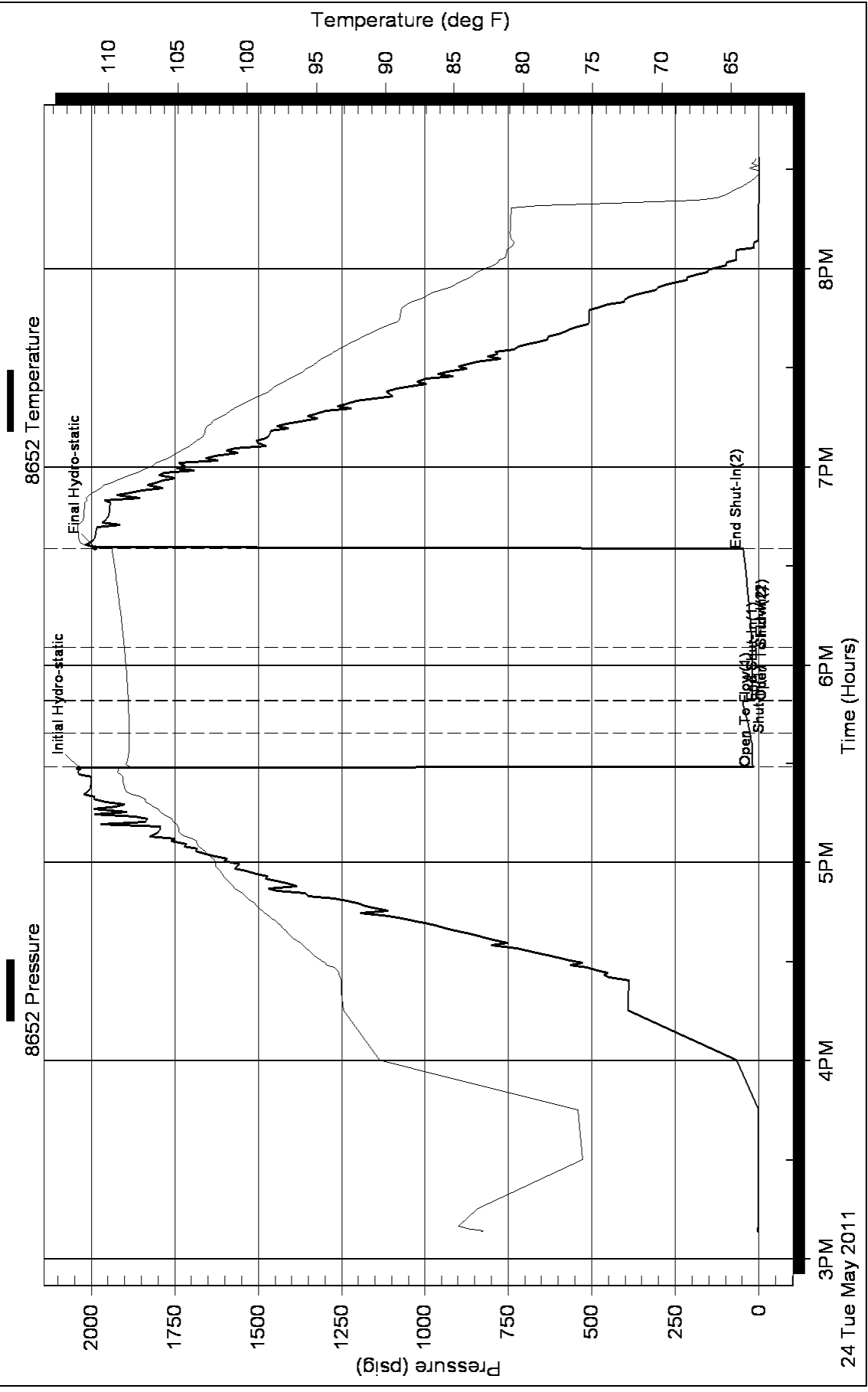
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43189 **DST#: 3**
Test Start: 2011.05.25 @ 05:14:00

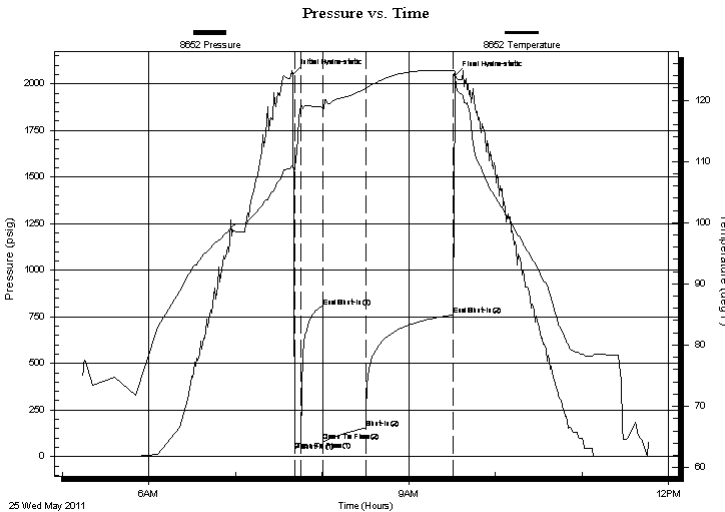
GENERAL INFORMATION:

Formation: **Lansing J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:40:45
Time Test Ended: 11:46:45
Interval: **4210.00 ft (KB) To 4242.00 ft (KB) (TVD)**
Total Depth: 4242.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole
Tester: Bradley Walter
Unit No: 40
Reference Elevations: 2769.00 ft (KB)
2762.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8652 Inside
Press @ Run Depth: 154.01 psig @ 4211.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.05.25 End Date: 2011.05.25 Last Calib.: 2011.05.25
Start Time: 05:14:05 End Time: 11:46:44 Time On Btm: 2011.05.25 @ 07:40:15
Time Off Btm: 2011.05.25 @ 09:32:00

TEST COMMENT: IF: 5 inches blow .
IS: No return blow .
FF: BOB @ 15minutes .
FS: No return blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.36	109.23	Initial Hydro-static
1	33.93	108.66	Open To Flow (1)
6	74.40	119.10	Shut-In(1)
20	800.82	118.83	End Shut-In(1)
21	82.55	118.38	Open To Flow (2)
50	154.01	121.89	Shut-In(2)
111	759.29	124.80	End Shut-In(2)
112	2045.85	123.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
295.00	mcw 10m 90w	3.07
5.00	oil 100o	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43189 **DST#: 3**
Test Start: 2011.05.25 @ 05:14:00

Mud and Cushion Information

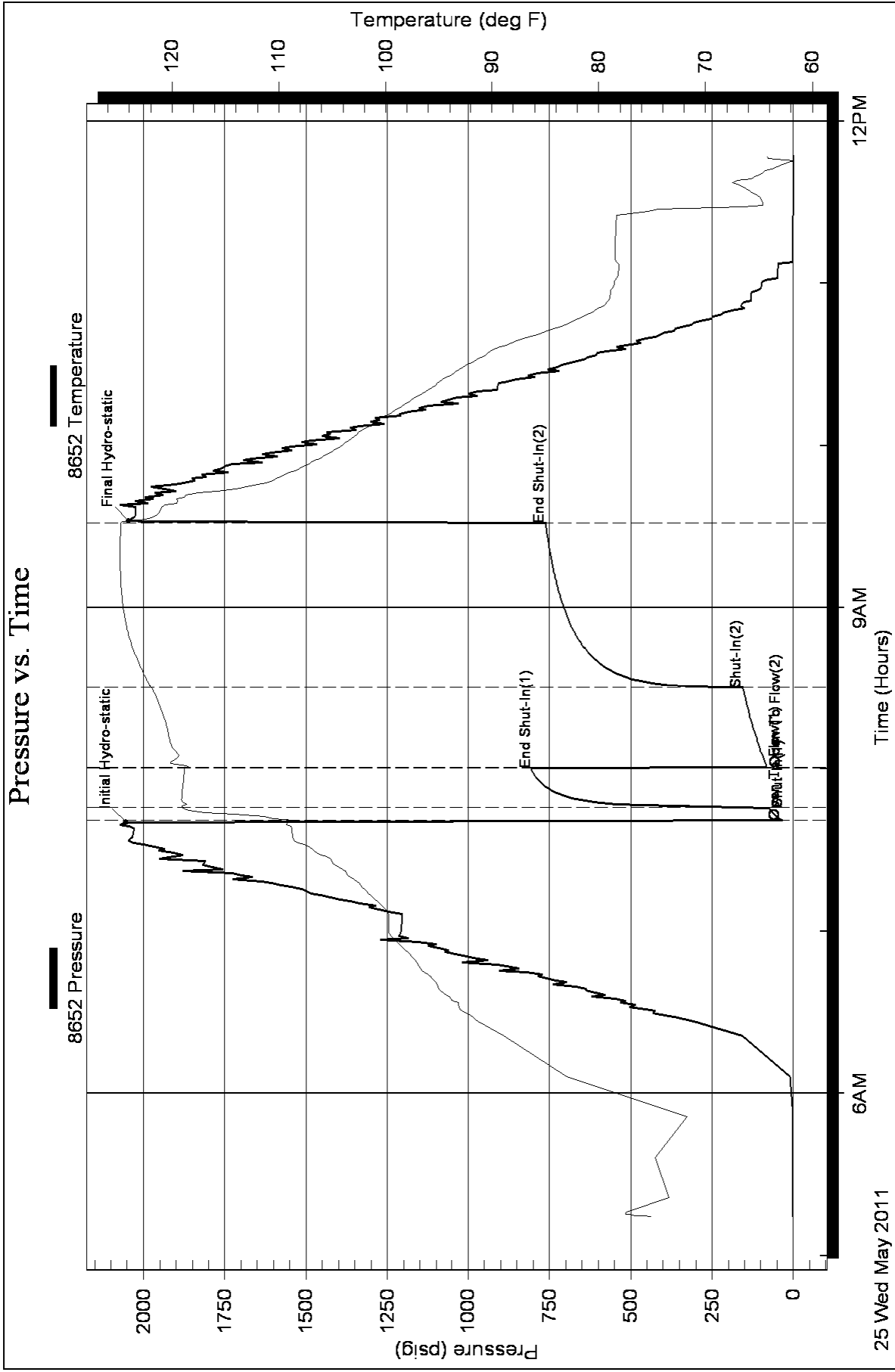
Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 71000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1700.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
295.00	mcw 10m 90w	3.066
5.00	oil 100o	0.070

Total Length: 300.00 ft Total Volume: 3.136 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw is .117 @ 65f = 71000ppm





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

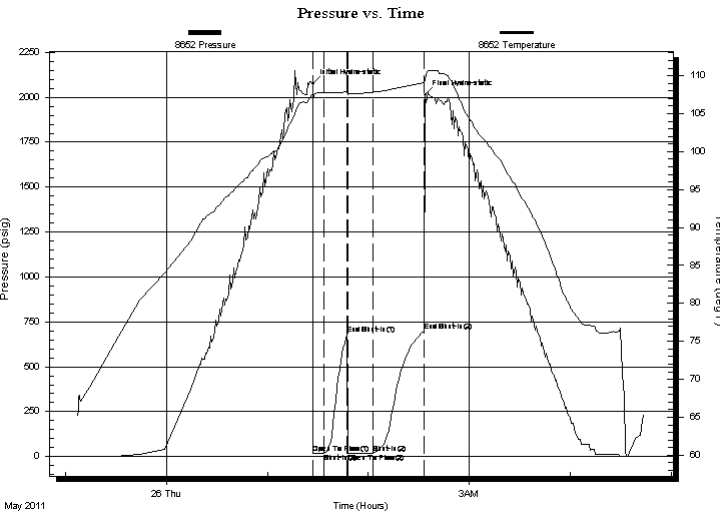
JoAnn Unit #1-32
32 17s 28w Lane Ks
 Job Ticket: 43190 **DST#: 4**
 Test Start: 2011.05.25 @ 23:07:00

GENERAL INFORMATION:

Formation: **Lansing K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:27:15
 Time Test Ended: 04:44:15
 Interval: **4242.00 ft (KB) To 4289.00 ft (KB) (TVD)**
 Total Depth: 4269.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Bradley Walter
 Unit No: 40
 Reference Elevations: 2769.00 ft (KB)
 2762.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8652 Inside
 Press @ Run Depth: 21.35 psig @ 4243.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.05.25 End Date: 2011.05.26 Last Calib.: 2011.05.26
 Start Time: 23:07:05 End Time: 04:44:14 Time On Btm: 2011.05.26 @ 01:27:00
 Time Off Btm: 2011.05.26 @ 02:33:45

TEST COMMENT: IF: Surface blow .
 IS: No return blow .
 FF: Surface blow , died @ 5 minutes.
 FS: No return blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.84	107.64	Initial Hydro-static
1	18.20	106.47	Open To Flow (1)
7	20.83	107.77	Shut-In(1)
21	683.01	107.85	End Shut-In(1)
21	19.73	107.50	Open To Flow (2)
36	21.35	107.83	Shut-In(2)
66	698.44	109.08	End Shut-In(2)
67	2012.12	109.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud (oil spots in tool)	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43190 **DST#: 4**
Test Start: 2011.05.25 @ 23:07:00

Mud and Cushion Information

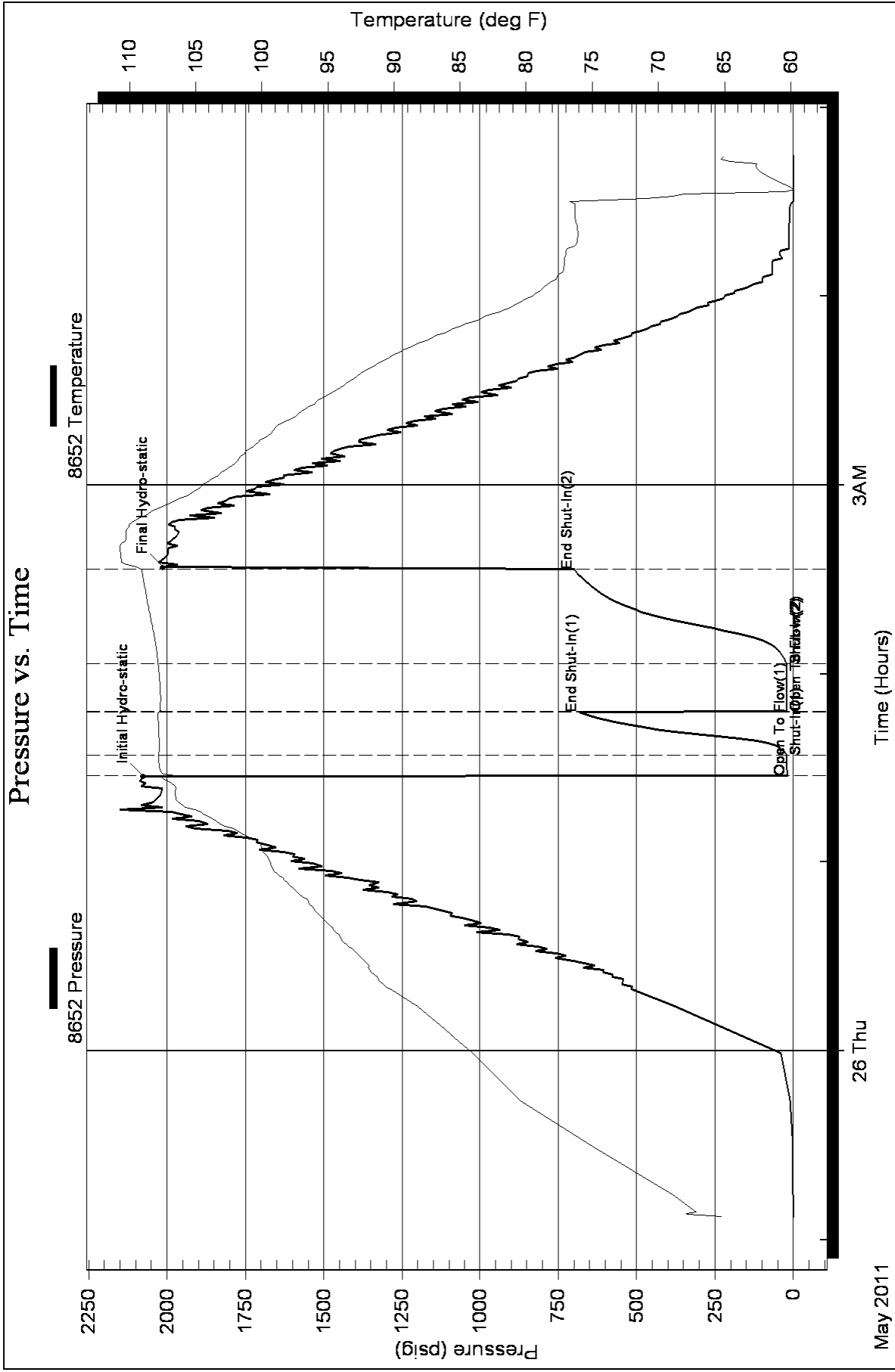
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud (oil spots in tool)	0.014

Total Length: 3.00 ft Total Volume: 0.014 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
 562 West State Road 4
 Olmitz, Ks 67564
 ATTN: Bob Lew ellyn

JoAnn Unit #1-32
32 17s 28w Lane Ks
 Job Ticket: 43191 **DST#: 5**
 Test Start: 2011.05.26 @ 15:09:00

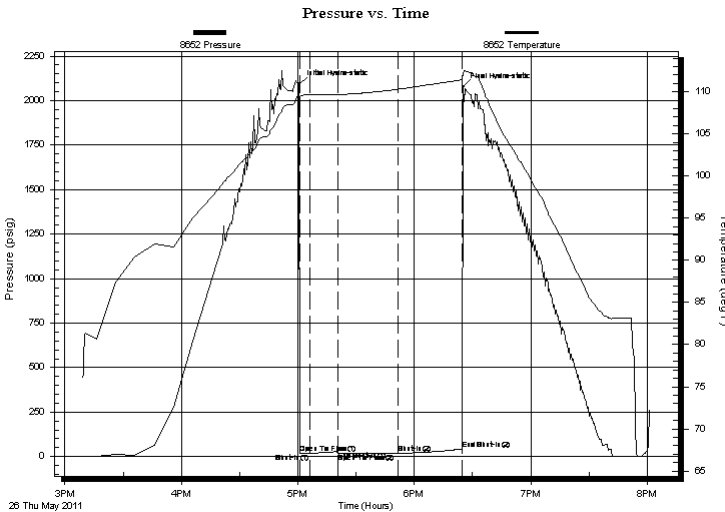
GENERAL INFORMATION:

Formation: **Lansing L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:01:00
 Time Test Ended: 20:01:15
 Interval: **4276.00 ft (KB) To 4301.00 ft (KB) (TVD)**
 Total Depth: 4301.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole
 Tester: Bradley Walter
 Unit No: 40
 Reference Elevations: 2769.00 ft (KB)
 2762.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8652 Inside
 Press @ Run Depth: 18.47 psig @ 4277.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.05.26 End Date: 2011.05.26 Last Calib.: 2011.05.26
 Start Time: 15:09:05 End Time: 20:01:14 Time On Btm: 2011.05.26 @ 17:00:45
 Time Off Btm: 2011.05.26 @ 18:25:15

TEST COMMENT: IF: Surface blow .
 IS: No return blow .
 FF: No blow .
 FS: No return blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2092.67	109.68	Initial Hydro-static
1	17.82	108.96	Open To Flow (1)
6	18.04	109.67	Shut-In(1)
20	28.59	109.69	End Shut-In(1)
20	17.08	109.69	Open To Flow (2)
51	18.47	110.32	Shut-In(2)
84	43.51	111.44	End Shut-In(2)
85	2076.20	112.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud (oil spots)	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43191

DST#: 5

ATTN: Bob Lew ellyn

Test Start: 2011.05.26 @ 15:09:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 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 (oil spots)	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

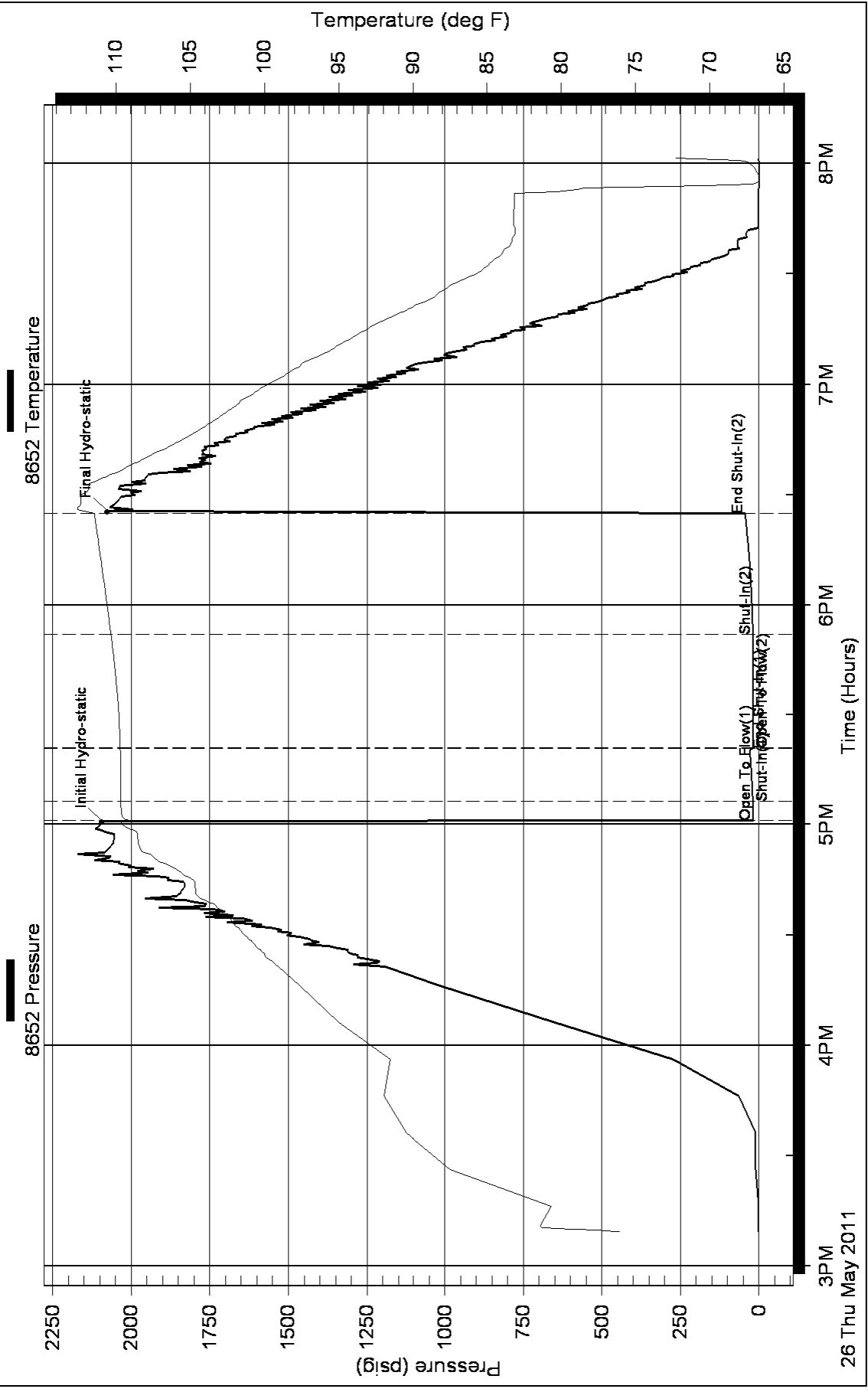
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
 Job Ticket: 43192 **DST#: 6**
 Test Start: 2011.05.27 @ 02:49:00

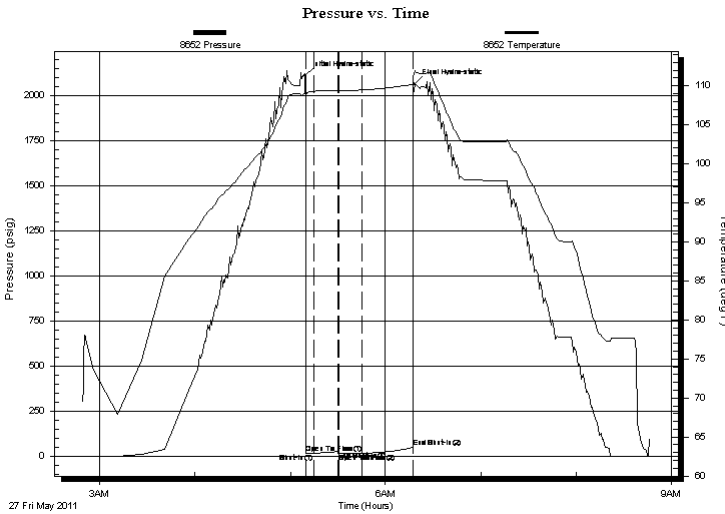
GENERAL INFORMATION:

Formation: **Lansing L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:10:00
 Time Test Ended: 08:47:00
 Interval: **4278.00 ft (KB) To 4311.00 ft (KB) (TVD)**
 Total Depth: 4311.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole
 Tester: Bradley Walter
 Unit No: 40
 Reference Elevations: 2769.00 ft (KB)
 2762.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8652 Inside
 Press @ Run Depth: 18.78 psig @ 4279.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.05.27 End Date: 2011.05.27 Last Calib.: 2011.05.27
 Start Time: 02:49:05 End Time: 08:46:59 Time On Btm: 2011.05.27 @ 05:09:30
 Time Off Btm: 2011.05.27 @ 06:18:30

TEST COMMENT: IF: Surface blow .
 IS: No return blow .
 FF: No blow .
 FS: No return blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.34	109.21	Initial Hydro-static
1	18.36	108.63	Open To Flow (1)
6	18.67	109.29	Shut-In(1)
21	27.72	109.37	End Shut-In(1)
22	17.28	109.37	Open To Flow (2)
36	18.78	109.47	Shut-In(2)
68	49.72	110.15	End Shut-In(2)
69	2062.57	111.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud (oil spots)	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc

JoAnn Unit #1-32

562 West State Road 4
Olmitz, Ks 67564

32 17s 28w Lane Ks

Job Ticket: 43192

DST#: 6

ATTN: Bob Lew ellyn

Test Start: 2011.05.27 @ 02:49:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.70 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud (oil spots)	0.009

Total Length: 2.00 ft Total Volume: 0.009 bbl

Num Fluid Samples: 0

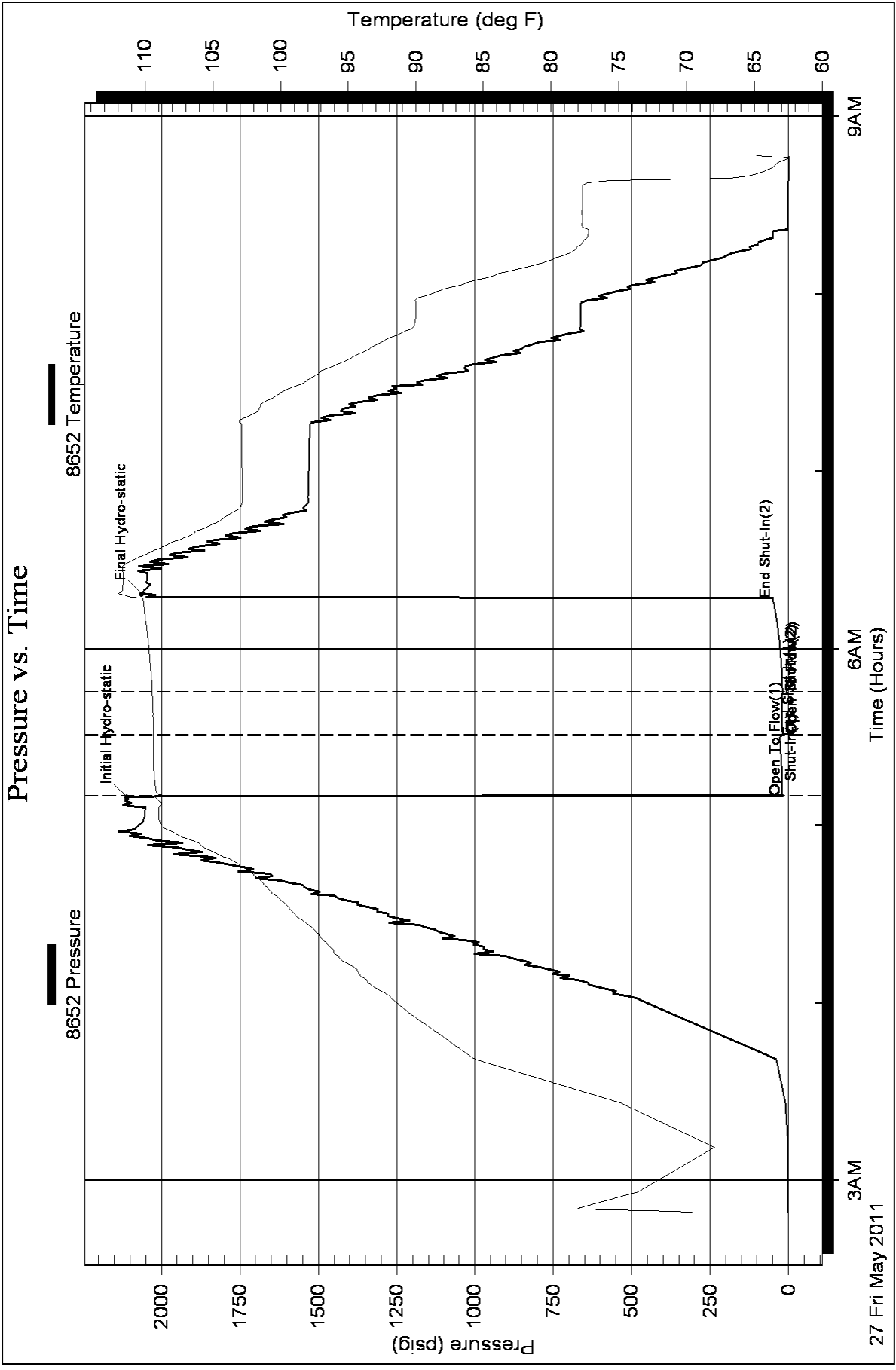
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43193 **DST#: 7**
Test Start: 2011.05.28 @ 02:13:00

GENERAL INFORMATION:

Formation: **Marmaton - Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:19:45

Time Test Ended: 09:08:00

Test Type: Conventional Bottom Hole

Tester: Bradley Walter

Unit No: 40

Interval: 4316.00 ft (KB) To 4410.00 ft (KB) (TVD)

Reference Elevations: 2769.00 ft (KB)

Total Depth: 4410.00 ft (KB) (TVD)

2762.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8652

Inside

Press @ Run Depth: 112.82 psig @ 4317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.28

End Date:

2011.05.28

Last Calib.: 2011.05.28

Start Time: 02:13:05

End Time:

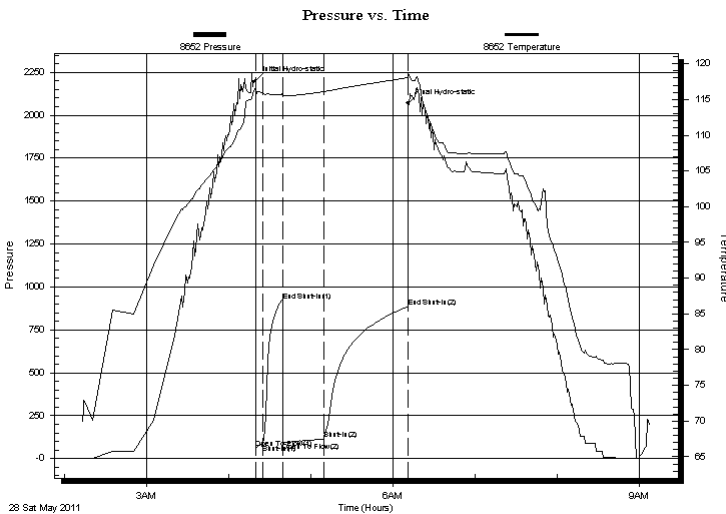
09:07:59

Time On Btm: 2011.05.28 @ 04:19:30

Time Off Btm: 2011.05.28 @ 06:10:45

TEST COMMENT: IF: 4 inches blow .
IS: No return blow .
FF: BOB@ 11 minutes.
FS: Surfacw blow , died @ 15 minutes.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2201.20	116.64	Initial Hydro-static
1	62.34	115.44	Open To Flow (1)
6	85.63	115.95	Shut-In(1)
20	916.64	115.74	End Shut-In(1)
20	95.36	115.41	Open To Flow (2)
50	112.82	116.08	Shut-In(2)
111	883.07	118.04	End Shut-In(2)
112	2068.47	118.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	ocm 50o 50m	1.03
20.00	oil 100o	0.28
0.00	70 ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43193 **DST#: 7**
Test Start: 2011.05.28 @ 02:13:00

Mud and Cushion Information

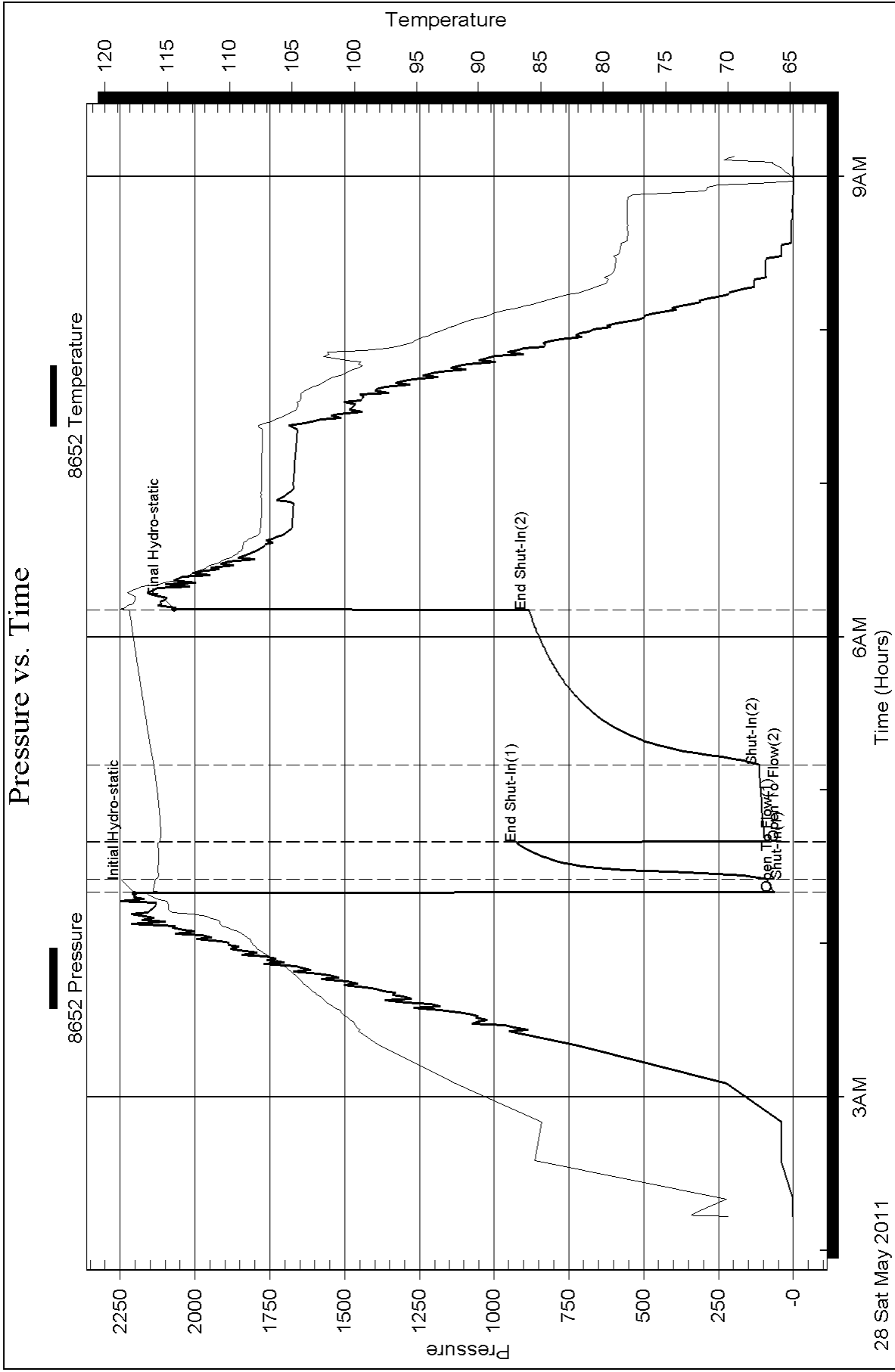
Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	ocm 50o 50m	1.032
20.00	oil 100o	0.281
0.00	70 ft GIP	0.000

Total Length: 170.00 ft Total Volume: 1.313 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
562 West State Road 4
Olmitz, Ks 67564
ATTN: Bob Lew ellyn

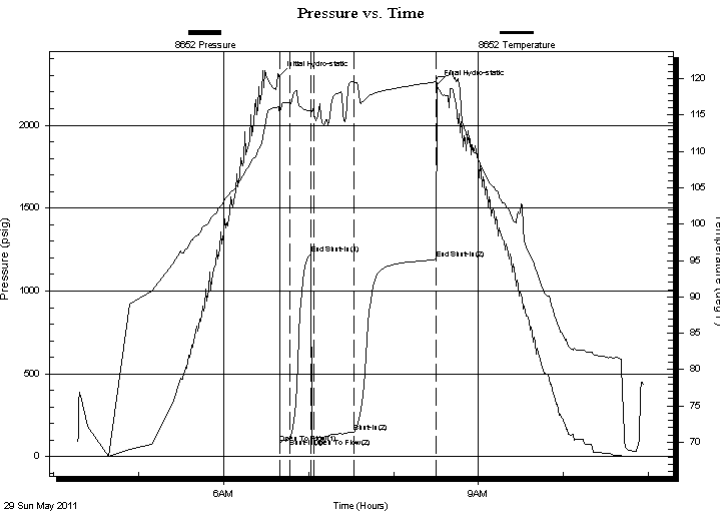
JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43194 **DST#: 8**
Test Start: 2011.05.29 @ 04:17:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:39:45
Time Test Ended: 10:57:15
Interval: **4413.00 ft (KB) To 4520.00 ft (KB) (TVD)**
Total Depth: 4520.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole
Tester: Bradley Walter
Unit No: 40
Reference Elevations: 2769.00 ft (KB)
2762.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8652 Inside
Press @ Run Depth: 148.08 psig @ 4521.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.05.29 End Date: 2011.05.29 Last Calib.: 2011.05.29
Start Time: 04:17:05 End Time: 10:57:14 Time On Btm: 2011.05.29 @ 06:39:30
Time Off Btm: 2011.05.29 @ 08:31:00

TEST COMMENT: IF: 4 inches blow .
IS: No return blow .
FF: BOB @ 7 minutes.
FS: 1/2 inch return blow , died @ 40 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.04	116.23	Initial Hydro-static
1	80.35	114.85	Open To Flow (1)
8	112.15	116.65	Shut-In(1)
22	1224.81	115.65	End Shut-In(1)
24	110.22	115.31	Open To Flow (2)
53	148.08	119.53	Shut-In(2)
111	1190.83	119.60	End Shut-In(2)
112	2246.36	120.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 10o 90m	0.28
165.00	gocm 45g 20o 35m	1.80
0.00	495 ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43194 **DST#: 8**
Test Start: 2011.05.29 @ 04:17:00

Mud and Cushion Information

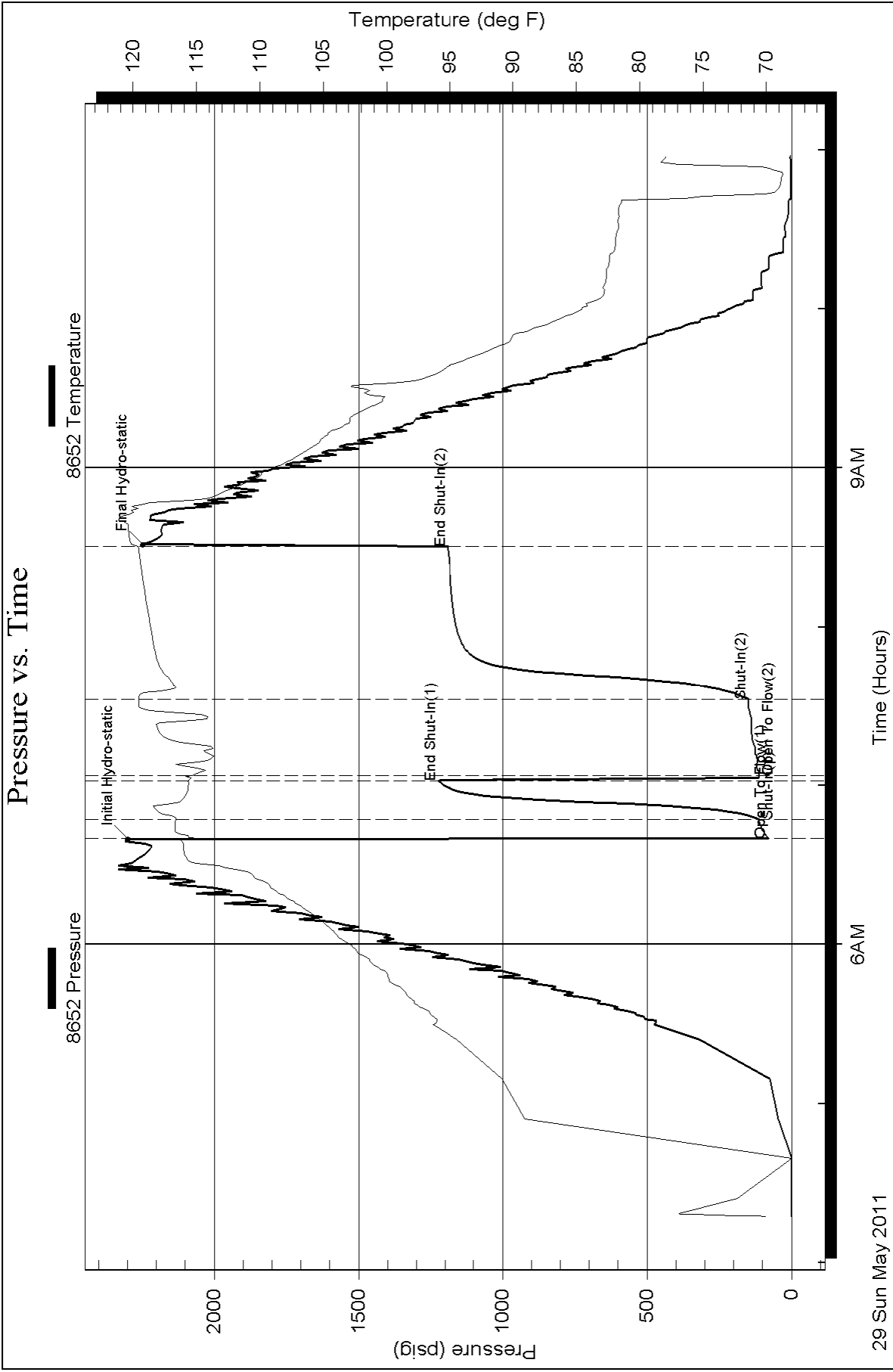
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	ocm 10o 90m	0.282
165.00	gocm 45g 20o 35m	1.802
0.00	495 ft GIP	0.000

Total Length: 225.00 ft Total Volume: 2.084 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
562 West State Road 4
Olmitz, Ks 67564
ATTN: Bob Lew ellyn

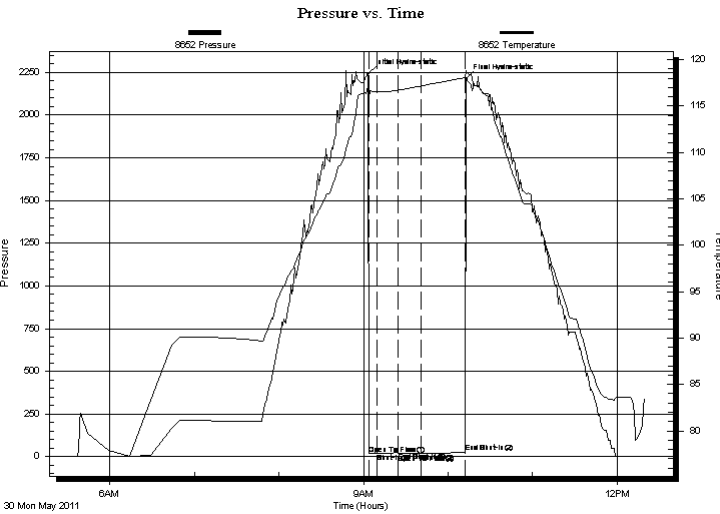
JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43195 **DST#: 9**
Test Start: 2011.05.30 @ 05:37:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:03:45
Time Test Ended: 12:20:00
Interval: **4525.00 ft (KB) To 4560.00 ft (KB) (TVD)**
Total Depth: 4560.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Bradley Walter
Unit No: 40
Reference Elevations: 2769.00 ft (KB)
2762.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8652 Inside
Press @ RunDepth: 18.05 psig @ 4526.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.05.30 End Date: 2011.05.30 Last Calib.: 2011.05.30
Start Time: 05:37:05 End Time: 12:19:59 Time On Btm: 2011.05.30 @ 09:03:30
Time Off Btm: 2011.05.30 @ 10:13:00

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: No blow ..
FS: No return blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.31	117.29	Initial Hydro-static
1	16.85	115.84	Open To Flow (1)
7	18.16	116.54	Shut-In(1)
21	23.65	116.71	End Shut-In(1)
21	16.94	116.71	Open To Flow (2)
37	18.05	117.16	Shut-In(2)
69	25.60	118.06	End Shut-In(2)
70	2212.56	118.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud (oil spots)	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43195 **DST#: 9**
Test Start: 2011.05.30 @ 05:37:00

Mud and Cushion Information

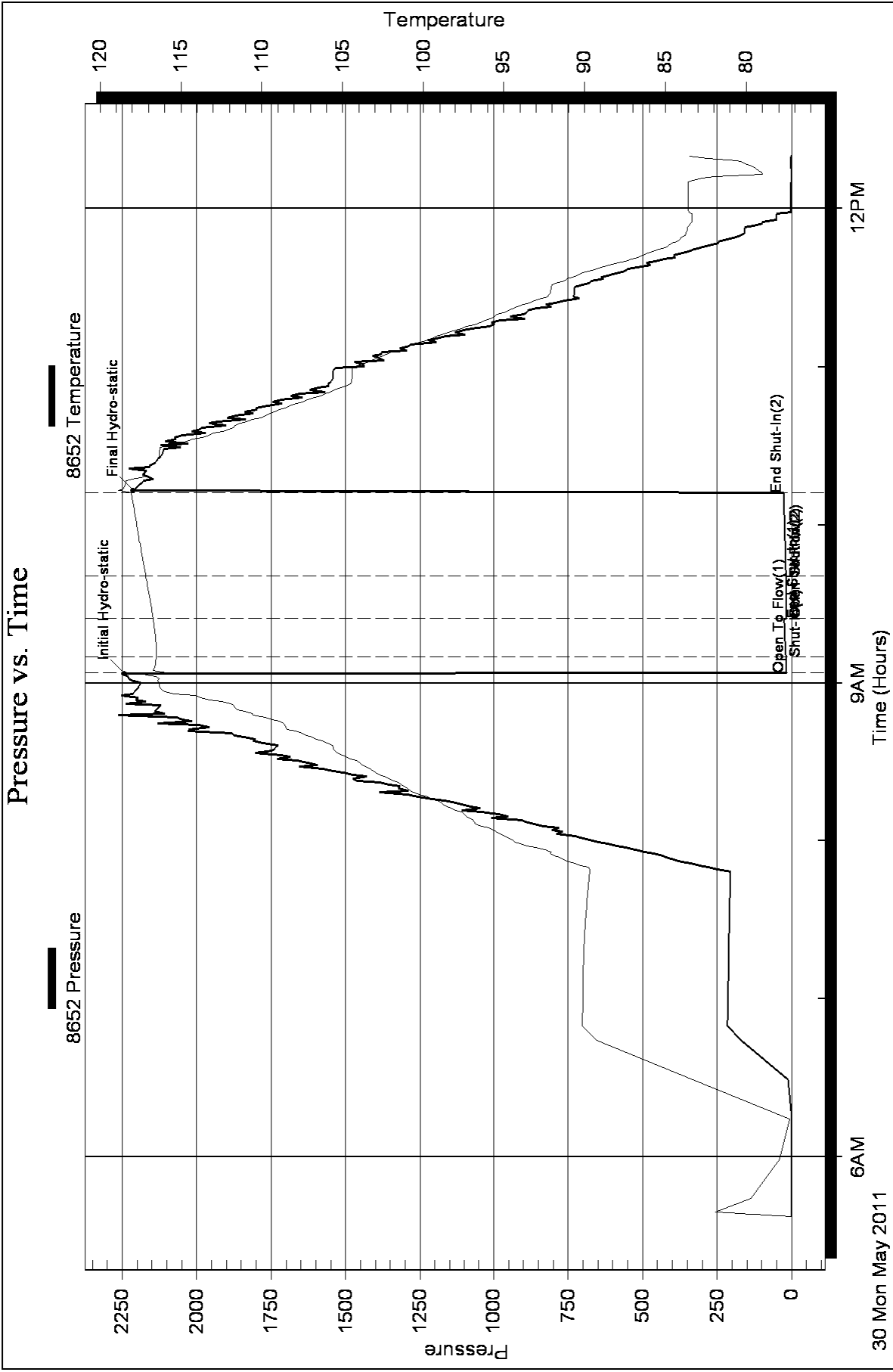
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud (oil spots)	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:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43196 **DST#: 10**
Test Start: 2011.05.31 @ 01:18:00

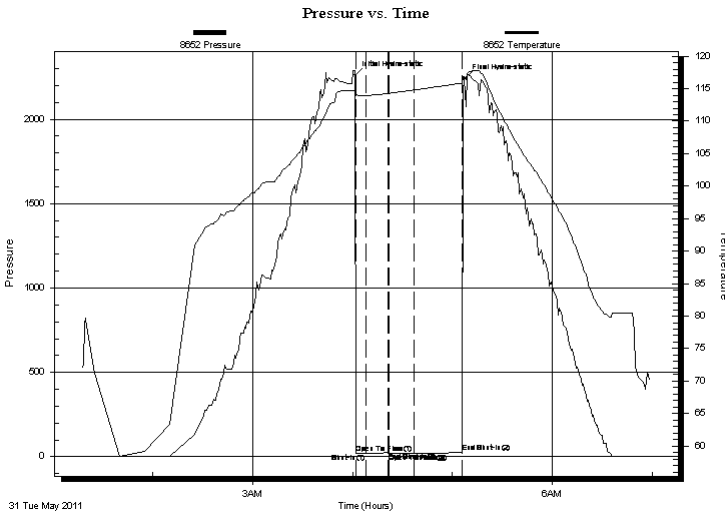
GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:01:45
Time Test Ended: 06:58:15
Interval: **4557.00 ft (KB) To 4580.00 ft (KB) (TVD)**
Total Depth: 4580.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole
Tester: Bradley Walter
Unit No: 40
Reference Elevations: 2769.00 ft (KB)
2762.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8652 Inside
Press @ RunDepth: 17.99 psig @ 4558.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.05.31 End Date: 2011.05.31 Last Calib.: 2011.05.31
Start Time: 01:18:05 End Time: 06:58:14 Time On Btm: 2011.05.31 @ 04:01:30
Time Off Btm: 2011.05.31 @ 05:07:15

TEST COMMENT: IF: Surface blow .
IS: No return blow .
FF: No blow .
FS: No return blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.05	114.61	Initial Hydro-static
1	18.79	113.86	Open To Flow (1)
7	19.14	113.95	Shut-In(1)
20	23.02	114.27	End Shut-In(1)
21	17.76	114.28	Open To Flow (2)
36	17.99	114.79	Shut-In(2)
65	25.68	115.85	End Shut-In(2)
66	2243.74	116.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100m (oil spots in tool)	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

JoAnn Unit #1-32
32 17s 28w Lane Ks
Job Ticket: 43196 **DST#: 10**
Test Start: 2011.05.31 @ 01:18:00

Mud and Cushion Information

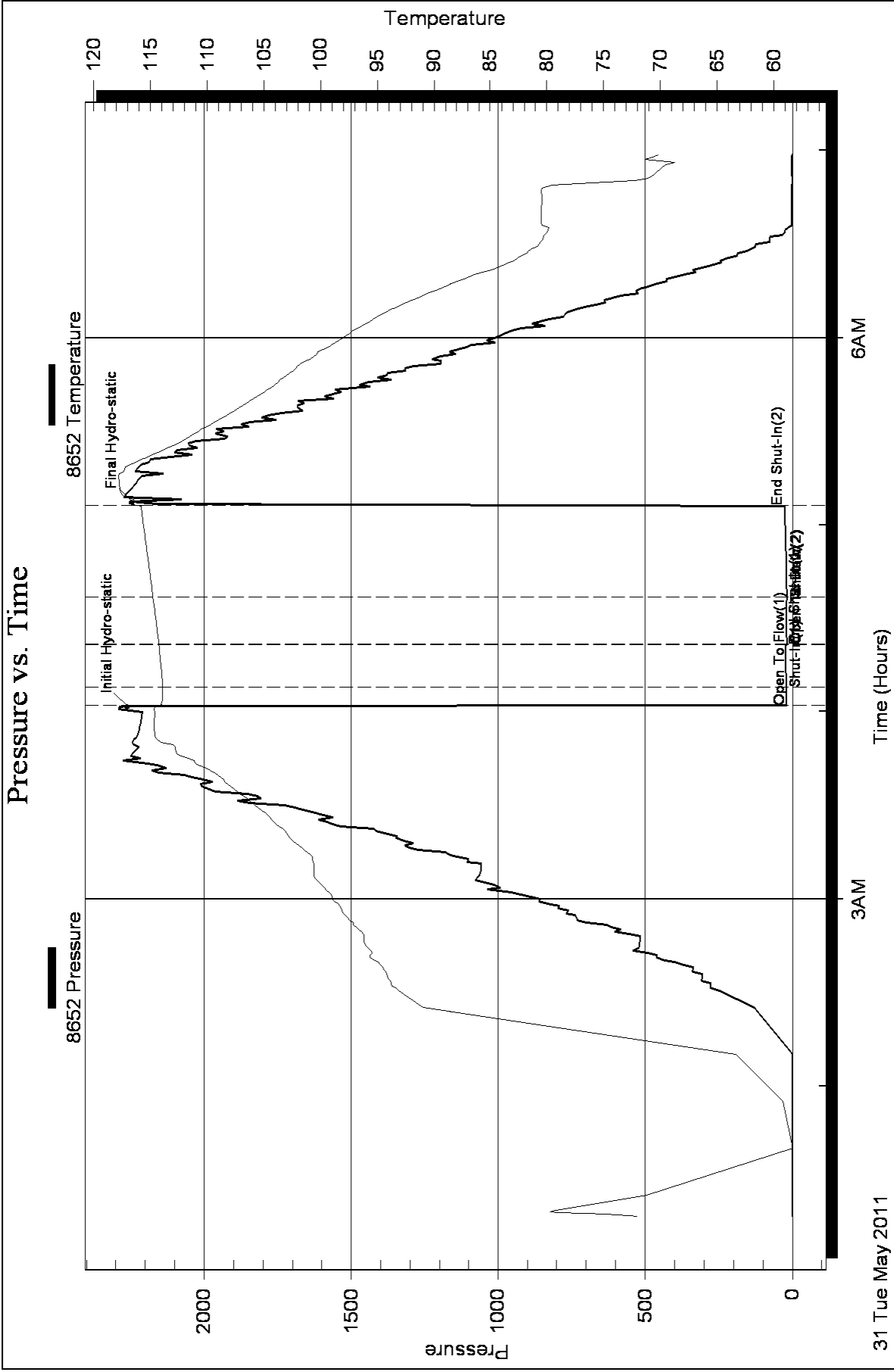
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2300.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100m (oil spots in tool)	0.009

Total Length: 2.00 ft Total Volume: 0.009 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. 1-32 Joann Unit
1800' FSL & 2475' FEL Sec. 32-17S-28W
Lane County, Kansas

CONTRACTOR: H D Drilling, LLC, rig 3
SPUDDED: May 17, 2011
DRILLING COMPLETED: June 01, 2011
SURFACE CASING: 8 5/8" @ 261 KBM/175 sx.
ELECTRIC LOGS: DIL CNL/CDL MEL
ELEVATIONS: 2769 KB 2762 GL

FORMATION TOPS: (Electric Log)

Anhydrite	2181 (+ 588)
Base Anhydrite	2211 (+ 558)
Heebner Shale	3958 (-1189)
Lansing-Kansas City Group	3997 (-1228)
Muncie Creek Shale	4158 (-1389)
Stark Shale	4250 (-1481)
Hushpuckney Shale	4282 (-1513)
Base Kansas City	4328 (-1599)
Marmaton (Lenapah)	4344 (-1575)
Altamont	4368 (-1599)
Pawnee	4445 (-1676)
Myrick Station	4470 (-1701)
Fort Scott	4496 (-1727)
Cherokee	4522 (-1753)
Cherokee Sand	4572 (-1803)
Detrital Zone	4589 (-1820)
Mississippian	4608 (-1839)
Electric Log Total Depth	4653 (-1884)
Rotary Total Depth	4650 (-1881)

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. Depths on drill stem tests were corrected downhole three feet to correlate with electric log depths. 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:

3997-4018 (A Zone)

Limestone, cream to buff, dense to finely crystalline with much chalky, rare trace of very poor intercrystalline porosity, no show of oil.

4027-4031 (B Zone)

Limestone, cream to buff, dense to finely crystalline, partly chalky, partly fossiliferous, scattered poor intercrystalline porosity, no show of oil.

4047-4070 (C/D Zone)

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

4073-4084 (E Zone)

Limestone, cream to buff, some tan, dense to finely crystalline and fossiliferous, some fair intercrystalline and interfossil porosity, trace of scattered dead stain, no show of live oil.

4086-4099 (F Zone)

Limestone, cream to buff to tan, dense to finely crystalline, trace of light gray fresh chert, zone is mostly tight with rare trace of dead oil stain, no show of live oil.

4101-4158 (G Zone)

The top of this interval contained a foot or two of finely crystalline limestone, slightly oolitic, with poor intercrystalline and scattered interoolitic porosity. The remainder of the section was dense, chalky, and tight. No shows of oil were present in this section.

4169-4174 (H Zone)

Limestone, buff to tan, finely crystalline and fossiliferous, poor to fair intercrystalline and interfossil porosity, trace of fossil-cast porosity, poor to fair spotted stain, slight to fair show of free oil, faint odor, poor fluorescence, poor to fair cut, trace of finely oolitic with poor ooliticastic porosity and show of oil as above.

Drill Stem Test No. 1

4151-4180

5-15-35-30; surface blow on first flow period, no blowback; blow did not return on second flow period.

Recovered three feet of mud with oil spots. ISIP 37# FSIP 64# IFP 15-18# FFP 17-18# IHP 2046# FHP 1985# BHT 117 degrees F.

4199-4204 (I Zone)

Limestone, buff to tan, some light gray, dense to finely crystalline and partly fossiliferous, fair intercrystalline porosity, some scattered vugular porosity, scattered poor interfossil porosity, fair spotted stain, fair show of free oil, good odor, poor to fair fluorescence, fair to good cut.

Drill Stem Test No. 2 4183-4213

5-15-15-30; surface blow through first flow period, no blowback; blow did not return on second flow period. Recovered five feet of mud with oil spots. ISIP 47# FSIP 46# IFP 17-26# FFP 18-19# IHP 2036# FHP 1988# BHT 110 degrees F.

4226-4233 (J Zone)

Limestone, white to cream, some buff, finely crystalline and finely oolitic, fair intercrystalline, interoolitic, and ooliticastic porosity, fair spotted stain, fair show of free oil, fair odor, poor to fair fluorescence, fair to good cut.

Drill Stem Test No. 3 4213-4247

5-15-30-60; five inch blow on first flow period, no blowback; built to bottom of bucket in 15 minutes on second flow, no blowback. Recovered five feet of clean oil and 295 feet of mud cut water (90% water, 10% mud). ISIP 801# FSIP 759# IFP 34-74# FFP 83-154# IHP 2054# FHP 2046# BHT 125 degrees F.

4264-4270 (K Zone)

Limestone, buff to tan, dense to finely crystalline and oolitic, scattered poor to fair intercrystalline and interoolitic porosity, poor to fair spotted stain, very slight show of free oil, faint odor, poor fluorescence, poor cut. Some buff, tight oolitic limestone with dark gray to black oolites.

Drill Stem Test No. 4 4245-4271

5-15-15-30; surface blow on first flow period, no blowback; blow did not return on second flow. Recovered three feet of mud with oil spots in the tool. ISIP 683# FSIP 698# IFP 18-21# FFP 20-21# IHP 2075# FHP 2012# BHT N/A.

4284-4295 (Middle Creek Zone)

Limestone, buff, finely crystalline, some dense, slightly fossiliferous, poor to fair intercrystalline porosity, trace of poor spotted stain, trace of dead stain, trace of free oil, poor to fair odor, no fluorescence, poor cut.

4298-4304 (L Zone)

Limestone, buff, dense to finely crystalline, trace of medium crystalline, slightly fossiliferous, poor to fair intercrystalline porosity, poor to fair spotted stain, slight show of free oil, faint to fair odor, poor fluorescence, poor to fair cut, trace of scattered calcite crystal overgrowth.

Drill Stem Test No. 5 4279-4304

5-15-30-30; surface blow on first flow period, no blowback; blow did not return on second flow. Recovered one foot of mud with oil spots. ISIP 29# FSIP 44# IFP 18-18# FFP 17-18# IHP 2093# FHP 2076# BHT 111 degrees F.

4304-4314

Limestone, buff, some tan, dense to finely crystalline and slightly fossiliferous, poor to fair intercrystalline and interfossil porosity, very slight show of free oil, faint odor, poor fluorescence, poor to fair cut.

Drill Stem Test No. 6 4281-4314

5-15-15-30; surface blow on first flow period, no blowback; blow did not return on second flow period. Recovered two feet of mud with oil spots. ISIP 28# FSIP 50# IFP 18-19# FFP 17-19# IHP 2109# FHP 2063 BHT 110 degrees F.

4314-4328 (Lower L Zone)

The remaining L Zone section consisted of limestone, buff to tan, dense to finely crystalline, mostly tight with traces of very poor spotted stain, no free oil, no odor, no fluorescence, no cut.

4330-4344 (Pleasanton Zone)

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

4344-4358 (Marmaton Lenapah Zone)

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

4410-4412 (Altamont "A" Zone)

Limestone, cream to buff, some tan, dense to finely crystalline and fossiliferous, fair vugular, intercrystalline and interfossil porosity, fair spotted stain, fair show of free oil, fair odor, fair fluorescence, fair cut.

Drill Stem Test No. 7 4319-4413

5-15-30-60; built to four inch blow on first flow period, no blowback; built to bottom of bucket in 11 minutes of second flow, surface blowback died in 5 minutes. Recovered 70 feet of gas in drill pipe, 20 feet of oil, 150 feet of oil cut mud (50% oil, 50% mud). ISIP 917# FSIP 883# IFP 62-86# FFP 95-113# IHP 2201# FHP 2068# BHT 118 degrees F.

4421-4441 (Lower Altamont Zone)

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

4445-4450 (Pawnee Zone)

Limestone, buff to tan, some brown, some cream, dense to finely crystalline, poor to fair intercrystalline porosity, trace of poor vugular porosity, scattered poor to fair spotted stain, show of free oil, fair odor, fair fluorescence, fair cut.

4470-4492 (Myrick Station Zone)

Limestone, buff to tan to brown, dense to finely crystalline, slightly fossiliferous, zone is mostly tight with just a trace of poor spotted stain on dense pieces, no free oil, no odor, no fluorescence, no cut.

4496-4504 (Upper Fort Scott Zone)

Limestone, buff to tan, some brown, some mottled, dense to finely crystalline, oolitic in part, fair scattered intercrystalline porosity, scattered poor spotted stain, very slight show of free oil, faint odor, poor fluorescence, poor cut.

4517-4521 (Lower Fort Scott Zone)

Limestone, buff to tan, dense to finely crystalline, slightly oolitic, trace of poor scattered intercrystalline porosity with traces of poor spotted stain, no free oil, no odor, no fluorescence, no cut.

Drill Stem Test No. 8 4416-4523

5-15-30-60; built to four-inch blow on first flow period, no blowback; blow off bottom of bucket in seven minutes of second flow period, blowback built to ½ inch and died in 40 minutes. Recovered 165 feet of gassy oil cut mud (45% gas, 20% oil, 35% mud), and 60 feet of oil cut mud (10% oil, 90% mud). ISIP 1225# FSIP 1191# IFP 80-112# FFP 110-148# IHP 2298# FHP 2246# BHT 120 degrees F.

4525-4555 (Cherokee Zones)

This interval consisted of limestone, tan to brown, mostly dense, some scattered finely crystalline, very poor vugular porosity, rare trace of spotted stain, no free oil, no odor, no fluorescence, no cut.

4555-4570 (Johnson Zone)

Limestone, buff to brown, some gray, dense to finely crystalline and partly oolitic, scattered poor to fair intercrystalline porosity with scattered poor interoolitic porosity, poor to fair spotted stain, slight show of free oil, faint odor, poor fluorescence, poor to fair cut, some stain of fracture faces on dense lime.

Drill Stem Test No. 9 4528-4563

5-15-15-30; surface blow through first flow period, no blowback; blow did not return on second flow period. Recovered one foot of mud with a few oil spots. ISIP 24# FSIP 26# IFP 17-18# FFP 17-18# IHP 2242# FHP 2213# BHT 118 degrees F

4572-4582 (Cherokee Sand Zone)

Sand, buff, medium grained, subround to partly subangular, fairly well-cemented to friable, fair intergranular porosity, fair to good spotted stain, some saturated stain, good show of free oil, good odor, fair to good fluorescence, good cut, some scattered tight sand present in section.

Drill Stem Test No. 10 4560-4583

Surface blow though first flow, no blowback; blow did not return on second flow. Recovered two feet of mud with a few oil spots in tool. ISIP 23# FSIP 26# IFP 19-19# FFP 18-18# IHP 2260# FHP 2243# BHT 116 degrees F.

4584-4589 (Lower Cherokee Sand Zone)

Sand, white, very fine-grained, well-cemented and tight, subround, hard, no visible porosity and no shows of oil.

4589-4608 (Detrital Zone)

This section consisted of sand as above with white to varicolored, fresh to weathered cherts and various and varicolored shales. No reservoir quality and no shows of oil were present in the section.

4608-4625 (Mississippian Zone)

Limestone, dolomitic, tan to brown, medium crystalline, slightly oolitic, slightly fossiliferous, fair to good intercrystalline porosity, some light gray fresh chert, no shows of oil.

4625-4653 (Lower Mississippian)

Dolomite, tan, some brown, medium crystalline, fair to good intercrystalline porosity, no show of oil.

4653 Electric Log Total Delpth

Conclusions and recommendations:

Production casing was cemented in the No. 1-32 Joann Unit. The well should be completed with treatment as necessary to facilitate production as per Tom Larson and Kyle Carter.

Respectfully submitted,

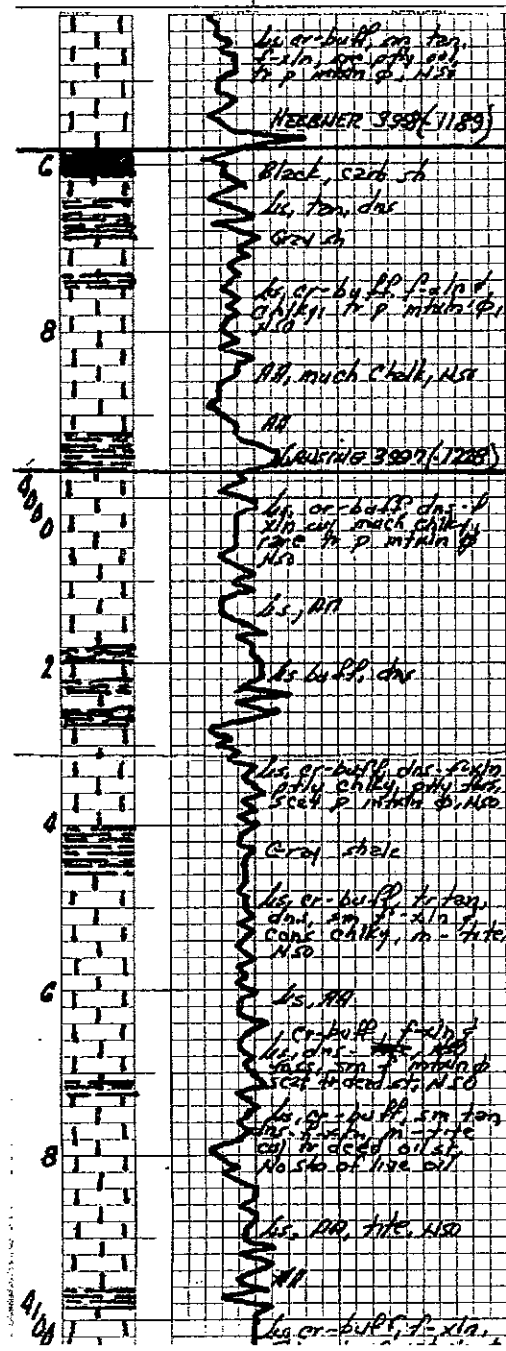
Robert C. Lewellyn
Petroleum Geologist

RCL:me

STATE KANSAS		COMPANY LARSON ENGINEERING, Inc	
COUNTY LANE	FARM Joann Unit No. 1-32	WELL NO.	
BLOCK 1800 FSL & 2475 FEL	SURVEY		
SEC. 32		TOTAL DEPTH 4650	
T. 17S	R. 28W	CONTRACTOR H.D. Drilling, LLC	
ALTIMITUDE 2769 KB		COMMENCED 5-17-11	
PRODUCTION OIL		COMPLETED 6-01-11	
REMARKS Robert C. Lowell, geologist			

CASING RECORD

8 5/8" @ 261 RPM/175 ft



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

September 14, 2011

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

Re: ACO1
API 15-101-22292-00-00
Joann Unit 1-32
SE/4 Sec.32-17S-28W
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