



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1080585
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

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
- Plug Back Conv. to GSW Conv. to Producer
- 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1080585

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Paris 1-7
Doc ID	1080585

Tops

Name	Top	Datum
Anhydrite	2144	+662
Base Anhydrite	2174	+632
Heebner	3964	-1156
Lansing	4006	-1200
Stark Sh	4289	-1488
Marmaton	4400	-1594
Pawnee	4496	-1690
Ft Scott	4546	-1740
Cherokee Sh	4569	-1763
Mississippi	4636	-1830



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

TICKET
 No 22065

PAGE 1 OF

SERVICE LOCATIONS:
 1. **NESS CITY, KS.** WELL/PROJECT NO. LEASE **PARIS 1-7** COUNTY/PARISH **LANE** STATE **KS** CITY **DIGHTON, KS** DATE **6 MAR 12** OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR **WILD WEST WELL SERV** RIG NAME/NO. SHIPPED VIA DELIVERED TO ORDER NO.
 3. WELL TYPE **OIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **CEMENT PORT COLLAR** WELL PERMIT NO. WELL LOCATION **425 E INTO**
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		UM	UM				
575					MILEAGE #110	40	mi			6.75	270.00
576D					Pump CHARGE					1250	1250.00
276					FLOCELE	50	lbs			2.00	100.00
29D					D-AIR	2	gal			35.00	70.00
33D					SWIFT MULTI DENSITY	190	sy			16.50	3135.00
581					SERVICE CHARGE CEMENT	235	sy			2.00	470.00
583					DRAYAGE	23320	lbs	466.4	tm	1.00	466.40

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 MAR 12** TIME SIGNED **1345** A.M. P.M.

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

SURVEY

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

PAGE TOTAL	5731	40
Lane TAX @ 6.3%	208	22
TOTAL	5939	62

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR *[Signature]* APPROVAL *[Signature]* Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 6/17/12 PAGE NO.

CUSTOMER LARSON ENGINEERING WELL NO. LEASE PARIS 1-7 JOB TYPE CEMENT PORT COLLAR TICKET NO. 22065

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							ON LOCATION
								PORT COLLAR @ 2105
	1220				✓		1000	TEST HELD
	1225	3			✓		500	OPEN PORT COLLAR - TAKE INS. RATE.
	1230	4	105	✓			700	MIX 190 SX SMD
		3	7	✓	✓			DISPLACE CEMENT
								CIRCULATE 20SX TO PT
	1302				✓		1000	CLOSE PORT COLLAR PSI UP - HELD
	1309							RUN 5 JTS
	1313	3	27		✓		300	REVERSE CEMENT OUT OF TUBING
	1315							WASH TRUCK
	1345							JOB COMPLETE.
								THANKS B 110
								JASON JEFF SHANE



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

TICKET
 No 22058

SERVICE LOCATION: 1. **NESS CITY, KS** WELL/PROJECT NO.: LEASE: **PARIS 1-7** COUNTY: **PARSON** STATE: **KS** CITY: **DIGHTON, KS** DATE: **27 FEB 12** OWNER:
 2. TICKET TYPE: SERVICE SALES CONTRACTOR: **HD DRILLING RIG #3** RIG NAME/NO.: **LANE** SHIPPED VIA: DELIVERED TO: ORDER NO.:
 3. WELL TYPE: **OIL** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **S LONGSTRING** WELL PERMIT NO.: WELL LOCATION: **4S, E/S JWD**
 4. REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #110	40	mi			6.00	240.00
578					Pump CHARGE	1.500	ft	4699		1500.00	1500.00
280					FLOCHECK 21	500	gal			2.50	1250.00
221					LICWWD KCL	2	gal			25.00	50.00
H19					ROTATING HEAD RENTAL	1	job			200.00	200.00

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: **27 FEB 12** TIME SIGNED: **2:00** 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		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL 1	3240.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	4883.90
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	8123.90
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Lane TAX 6.3%	360.83
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	8484.73
<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: *Jan E. Harloff* APPROVAL: _____

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 22058

CUSTOMER **LARSON ENGINEERING** WELL **PARIS 1-7** DATE **27 FEB 12** PAGE **2** OF **2**

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY. U.M.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U.M.		
276						FLOCELE	40	lbs	2.00	80.00
283						SALT	800	lbs	.20	160.00
284						COAL SEAL	7	bx	35.00	245.00
277						COAL SEAL	1100	lbs	.75	825.00
286						HALAD-1	110	lbs	7.50	825.00
325						STANDARD CEMENT	155	bx	13.50	2092.50
581						SERVICE CHARGE		CUBIC FEET	2.00	310.00
583						MILEAGE CHARGE	1.520	TOTAL WEIGHT	1.00	346.40
						LOADED MILES	40			
						TON MILES	346.40			
CONTINUATION TOTAL										4883.90

JOB LOG

SWIFT Services, Inc.

DATE 27 FEB 12 PAGE NO.

CUSTOMER LARSON ENGINEERING

WELL NO.

LEASE PARIS 1-7

JOB TYPE 5 1/2 LONGSTRING

TICKET NO. 22058

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1830							ON LOCATION 5 1/2 #5.5 RTD @ 4700 SET @ 4699 SHOE JT. 42.00' PORT COLLAR @ 2104
	1950							DROP BALL CIRCULATE
	1948	6	15		✓		300	Pump 15 BBL KCL FLUSH
		6	12		✓		300	Pump 500 gal FUDCHECK
		6	5		✓		300	Pump 5 BBL KCL FLUSH
	1956		7					PLUG RH (3DSX)
	1959	4	30		✓			MIX 125SX EA2
	2011							WASH OUT PUMPING LINES.
	2014	6			✓			START DISPLACEMENT
	2032	Ø	111		✓		1500	PLUG DOWN PSI UP LATCH PLUG IN
	2034							RELEASE PSI - DRY
	2037							WASH TRUCK
	2100							JOB COMPLETE
								THANKS #110
								JASON JEFF ISAAC WAYNE.



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676



FIELD TICKET & TREATMENT REPORT

TICKET NUMBER 33852
LOCATION Oakley
FOREMAN Kelly Gabel

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-13-12	4802	Paris #1-7	7	19	28	Lane KS
CUSTOMER			Dighton			
MAILING ADDRESS			4 1/2 S E into			
CITY			TRUCK #	DRIVER	TRUCK #	DRIVER
STATE			399	Damon M		
ZIP CODE			566	Corey D		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 264 CASING SIZE & WEIGHT 8 5/8 28#
 CASING DEPTH 264 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 148 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 15 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting. Rigged up on HD drilling #3 hooked up to circulate. mixed 175 sks com 3% cc & 2% gel, displaced with 15 1/2 bbl water, shut in, washed out pumps & lines, Rigged down & left location.

Cement did circulate

approx 1 bbl to pit

Thank You Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085 ⁰⁰	1085 ⁰⁰
54106	30	MILEAGE	5 ⁰⁰	150 ⁰⁰
11045	125 sks	Class A cement	17 ⁶⁵	3088 ²⁵
1102	493 #	Calcium chloride	.89	438 ²⁷
11183	329 #	Bentonite	.25	82 ²⁵
5407A	8.2	Ton Mileage	167	110 ⁷⁰
				5255 ⁴⁷
			Lead 1090 disc	525 ⁵⁵
				4729 ⁹²
		247837	SALES TAX	704 ⁶⁷
			ESTIMATED TOTAL	4934 ⁵⁹

Revin 3737

11:00 AM AUTHORIZATION Brad Doherty

TITLE _____ DATE 2-13-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering LLC**

562 West St. Rd. 4
Olmitz, KS 67564

ATTN: Vern Schrag

Paris #1-7

7-19s-28w Lane,KS

Start Date: 2012.02.19 @ 04:19:15

End Date: 2012.02.19 @ 07:07:00

Job Ticket #: 45106 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.29 @ 09:47:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

ATTN: Vern Schrag

Job Ticket: 45106

DST#: 1

Test Start: 2012.02.19 @ 04:19:15

GENERAL INFORMATION:

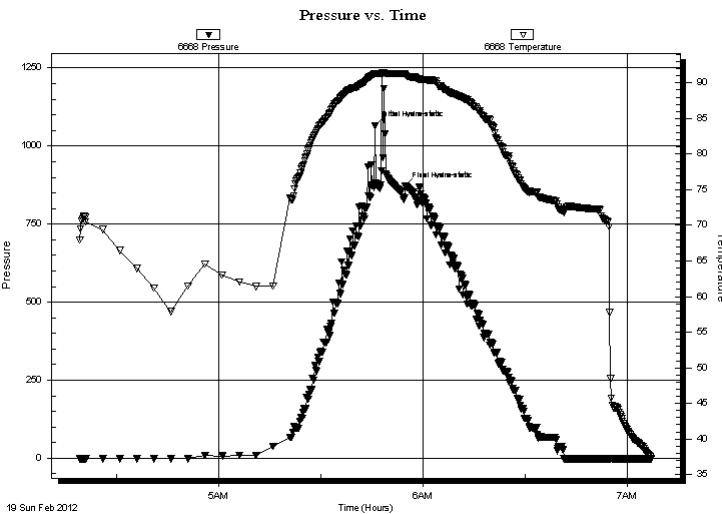
Formation: **"F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended: 07:07:00
 Interval: **4087.00 ft (KB) To 4113.00 ft (KB) (TVD)**
 Total Depth: 4113.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Mike Roberts
 Unit No: 48
 Reference Elevations: 2806.00 ft (KB)
 2801.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6668

Outside

Press @ Run Depth: psig @ 4088.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.19 End Date: 2012.02.19 Last Calib.: 2012.02.19
 Start Time: 04:19:15 End Time: 07:07:00 Time On Btm: 2012.02.19 @ 05:45:45
 Time Off Btm: 2012.02.19 @ 05:54:45

TEST COMMENT: IF: MISRUN
 IS:
 FF:
 FS:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1063.89	91.31	Initial Hydro-static
9	871.13	91.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	misrun hit bride on stand 28	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45106

DST#: 1

ATTN: Vern Schrag

Test Start: 2012.02.19 @ 04:19:15

GENERAL INFORMATION:

Formation: **"F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 07:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 4087.00 ft (KB) To 4113.00 ft (KB) (TVD)

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4113.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8358 Inside

Press @ Run Depth: psig @ 4088.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.19

End Date:

2012.02.19

Last Calib.:

1899.12.30

Start Time: 04:19:15

End Time:

07:33:38

Time On Btm:

Time Off Btm:

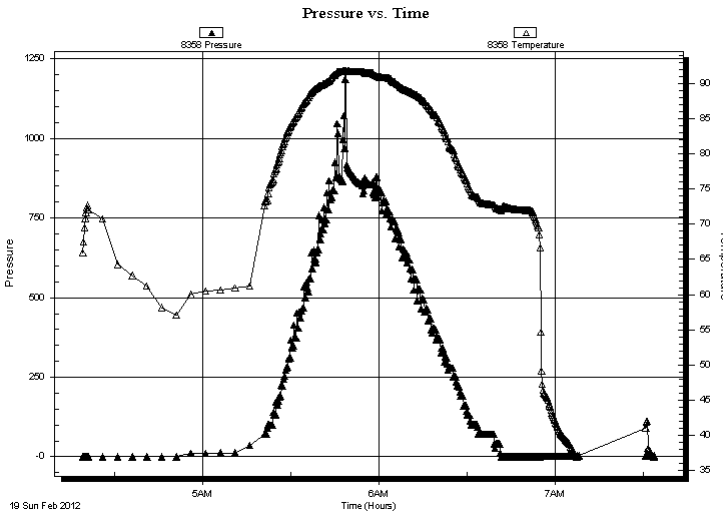
TEST COMMENT: IF:MISRUN

IS:

FF:

FS:

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	misrun hit bride on stand 28	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45106

DST#: 1

ATTN: Vern Schrag

Test Start: 2012.02.19 @ 04:19:15

Tool Information

Drill Pipe:	Length: 3933.00 ft	Diameter: 3.80 inches	Volume: 55.17 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 151.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 55.91 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	lb
Depth to Top Packer:	4087.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	54.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4060.00	
Shut In Tool	5.00			4065.00	
Hydraulic tool	5.00			4070.00	
Jars	5.00			4075.00	
Safety Joint	3.00			4078.00	
Packer	5.00			4083.00	28.00 Bottom Of Top Packer
Packer	4.00			4087.00	
Stubb	1.00			4088.00	
Recorder	0.00	8358	Inside	4088.00	
Recorder	0.00	6668	Outside	4088.00	
Perforations	20.00			4108.00	
Bullnose	5.00			4113.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45106

DST#: 1

ATTN: Vern Schrag

Test Start: 2012.02.19 @ 04:19:15

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.68 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	misrun hit bride on stand 28	0.000

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

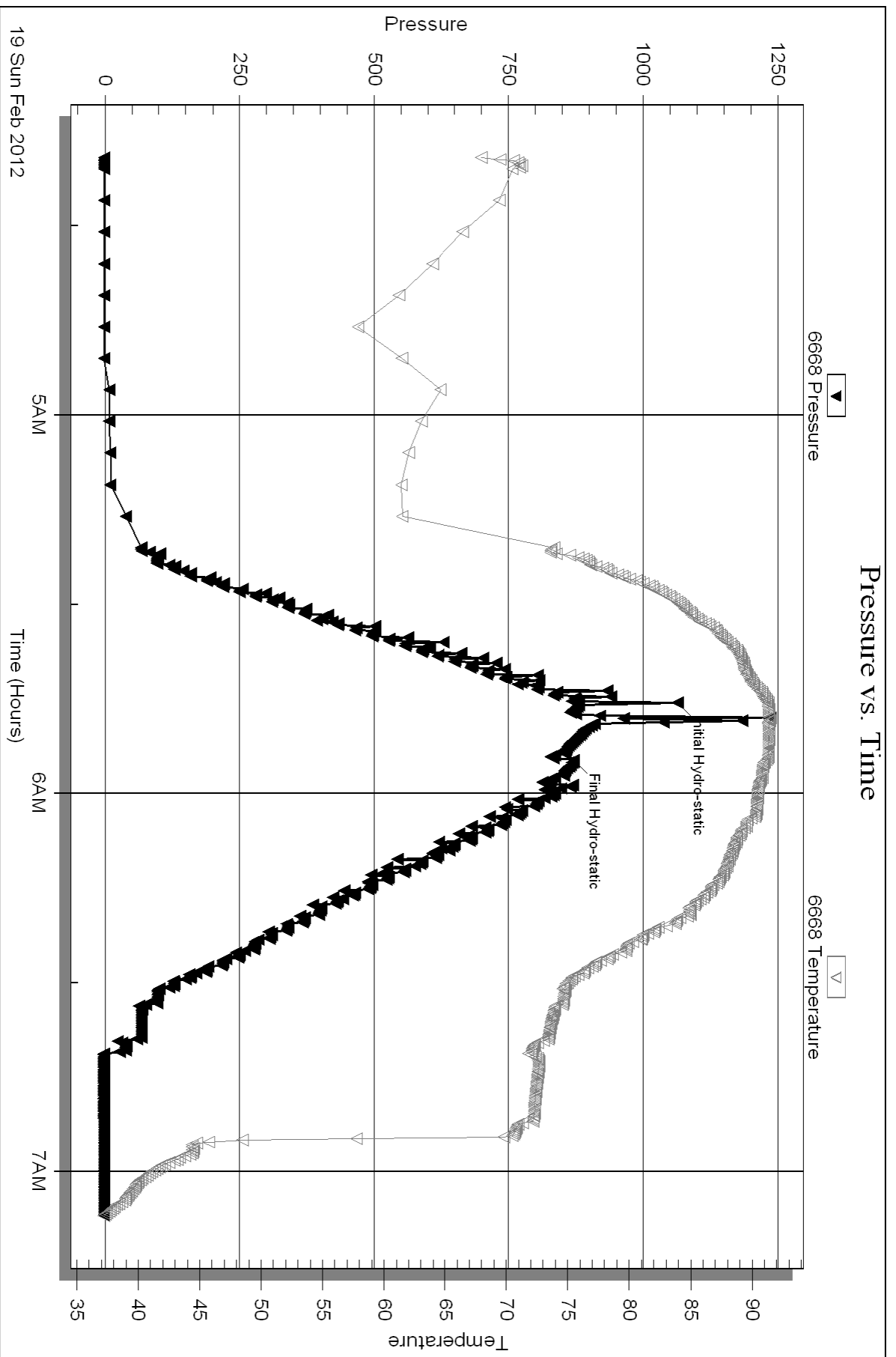
Num Gas Bombs: 0

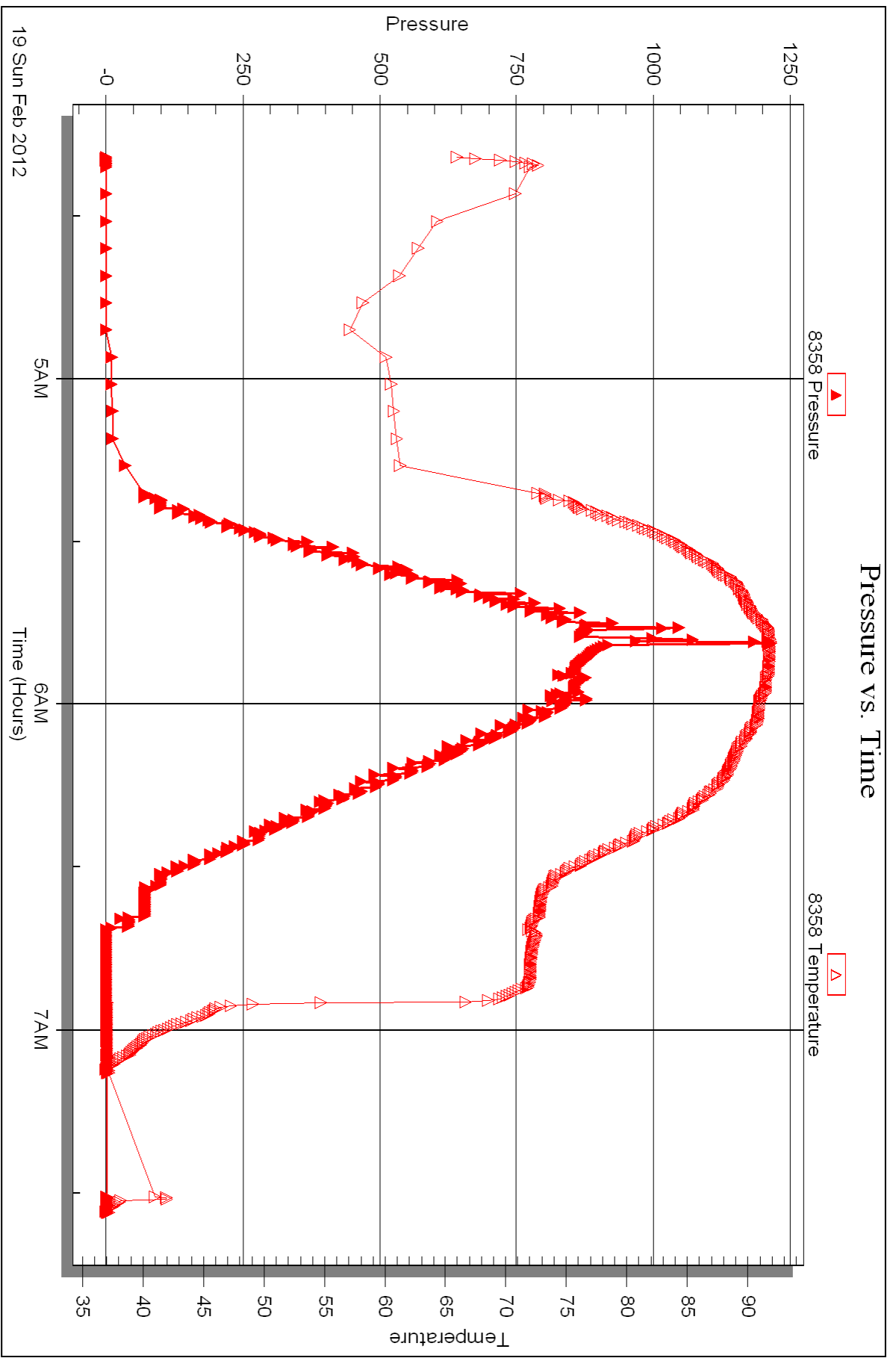
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering LLC**

562 West St. Rd. 4
Olmitz, KS 67564

ATTN: Vern Schrag

Paris #1-7

7-19s-28w Lane,KS

Start Date: 2012.02.20 @ 18:47:15

End Date: 2012.02.21 @ 00:45:30

Job Ticket #: 45107 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.29 @ 09:46:07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

ATTN: Vern Schrag

Job Ticket: 45107

DST#: 2

Test Start: 2012.02.20 @ 18:47:15

GENERAL INFORMATION:

Formation: "I"
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:55:30
 Time Test Ended: 00:45:30
 Interval: **4226.00 ft (KB) To 4245.00 ft (KB) (TVD)**
 Total Depth: 4245.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 48
 Reference Elevations: 2806.00 ft (KB)
 2801.00 ft (CF)
 KB to GR/CF: 5.00 ft

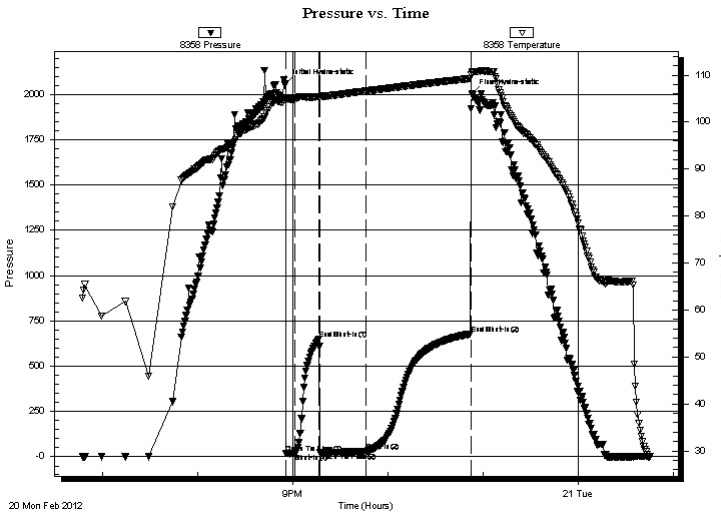
Serial #: 8358

Inside

Press @ Run Depth: 28.90 psig @ 4227.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.20 End Date: 2012.02.21 Last Calib.: 2012.02.21
 Start Time: 18:47:15 End Time: 00:45:30 Time On Btm: 2012.02.20 @ 20:55:15
 Time Off Btm: 2012.02.20 @ 22:53:00

TEST COMMENT: IF: Built to 1/2" blow
 IS: No return blow
 FF: Built to 1" blow
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.38	105.24	Initial Hydro-static
1	17.95	104.57	Open To Flow (1)
6	21.07	104.85	Shut-In(1)
21	649.49	105.42	End Shut-In(1)
22	22.71	105.28	Open To Flow (2)
51	28.90	106.62	Shut-In(2)
117	677.79	109.30	End Shut-In(2)
118	2003.70	110.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	free oil	0.01
10.00	mud w ith oil spots	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

ATTN: Vern Schrag

Job Ticket: 45107

DST#: 2

Test Start: 2012.02.20 @ 18:47:15

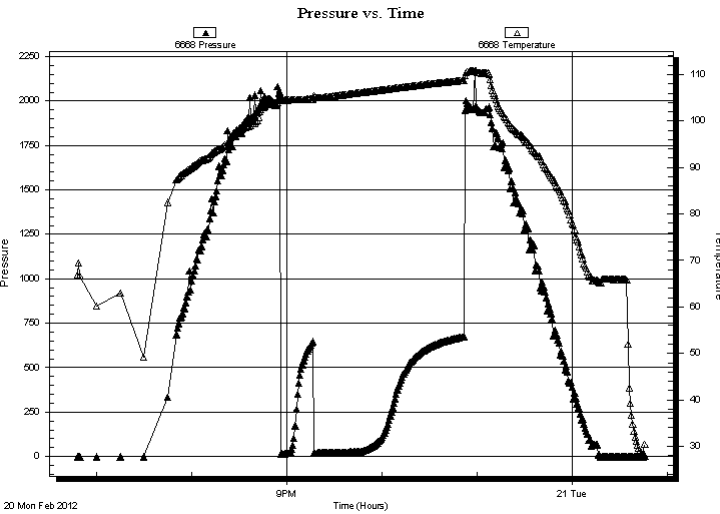
GENERAL INFORMATION:

Formation: "I"	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Mike Roberts
Time Tool Opened: 20:55:30	Unit No: 48
Time Test Ended: 00:45:30	Reference Elevations: 2806.00 ft (KB)
Interval: 4226.00 ft (KB) To 4245.00 ft (KB) (TVD)	2801.00 ft (CF)
Total Depth: 4245.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition:

Serial #: 6668 Outside

Press @ Run Depth: psig @ 4227.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.02.20	End Date: 2012.02.21
Start Time: 18:47:45	End Time: 00:45:30
	Last Calib.: 2012.02.21
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: Built to 1/2" blow
 IS: No return blow
 FF: Built to 1" blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
3.00	free oil	0.01
10.00	mud w ith oil spots	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45107

DST#: 2

ATTN: Vern Schrag

Test Start: 2012.02.20 @ 18:47:15

Tool Information

Drill Pipe:	Length: 4056.00 ft	Diameter: 3.80 inches	Volume: 56.90 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 151.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4226.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4199.00	
Shut In Tool	5.00			4204.00	
Hydraulic tool	5.00			4209.00	
Jars	5.00			4214.00	
Safety Joint	3.00			4217.00	
Packer	5.00			4222.00	28.00 Bottom Of Top Packer
Packer	4.00			4226.00	
Stubb	1.00			4227.00	
Recorder	0.00	8358	Inside	4227.00	
Recorder	0.00	6668	Outside	4227.00	
Perforations	13.00			4240.00	
Bullnose	5.00			4245.00	19.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45107

DST#: 2

ATTN: Vern Schrag

Test Start: 2012.02.20 @ 18:47:15

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.30 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	free oil	0.015
10.00	mud with oil spots	0.049

Total Length: 13.00 ft Total Volume: 0.064 bbl

Num Fluid Samples: 0

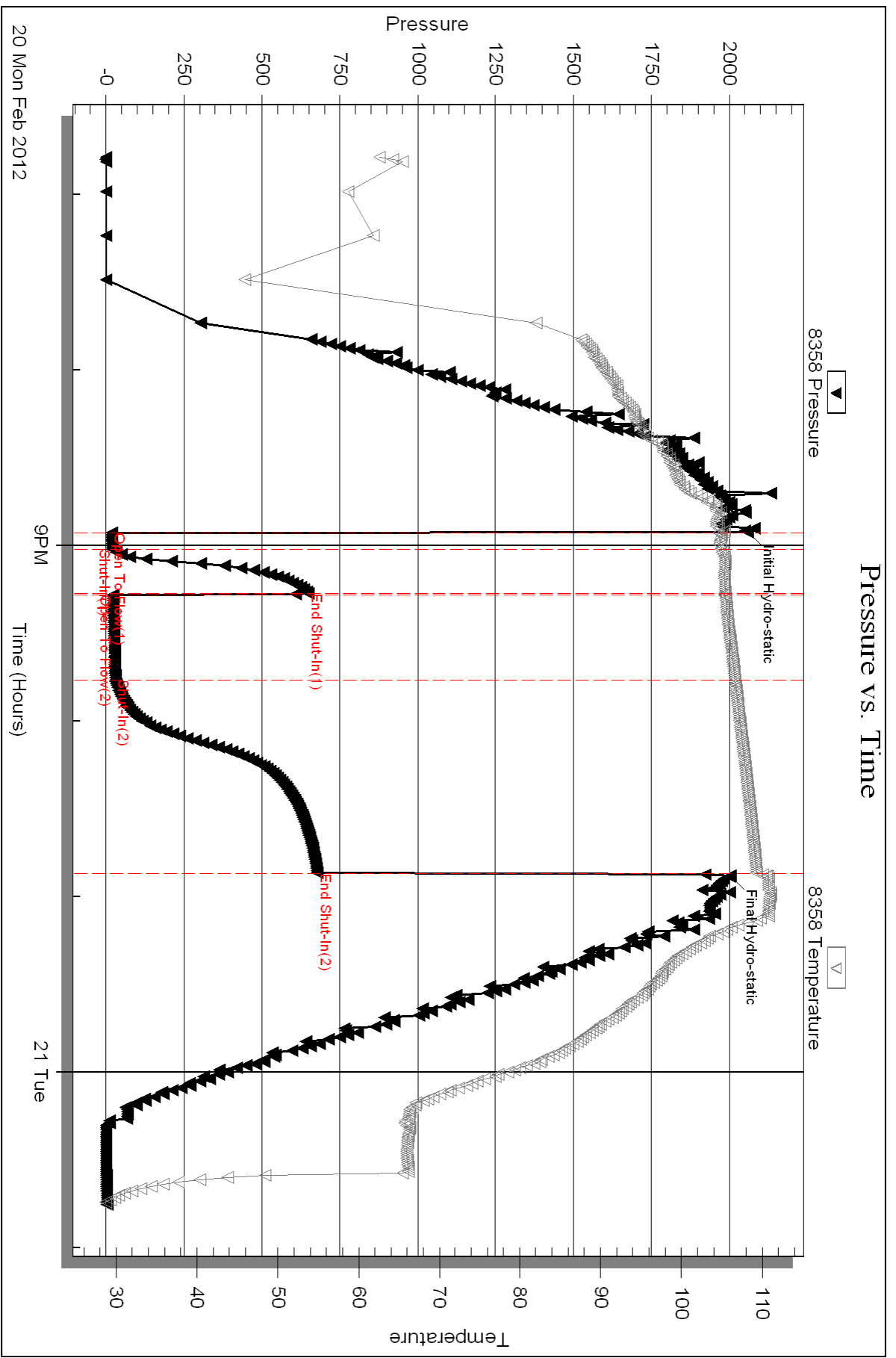
Num Gas Bombs: 0

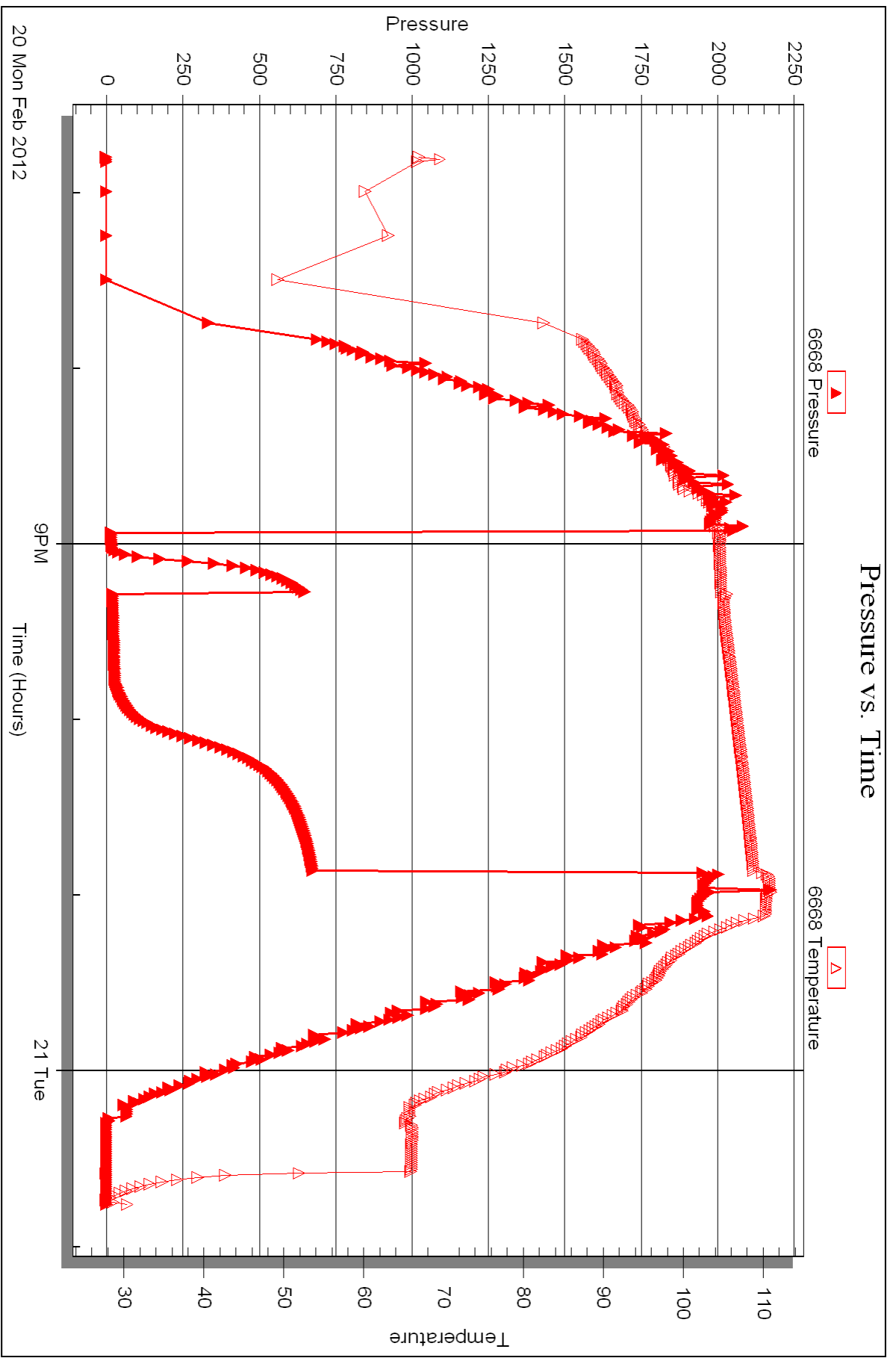
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering LLC**

562 West St. Rd. 4
Olmitz, KS 67564

ATTN: Vern Schrag

Paris #1-7

7-19s-28w Lane,KS

Start Date: 2012.02.21 @ 12:04:15

End Date: 2012.02.21 @ 17:21:53

Job Ticket #: 45108 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.29 @ 09:45:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

ATTN: Vern Schrag

Job Ticket: 45108

DST#: 3

Test Start: 2012.02.21 @ 12:04:15

GENERAL INFORMATION:

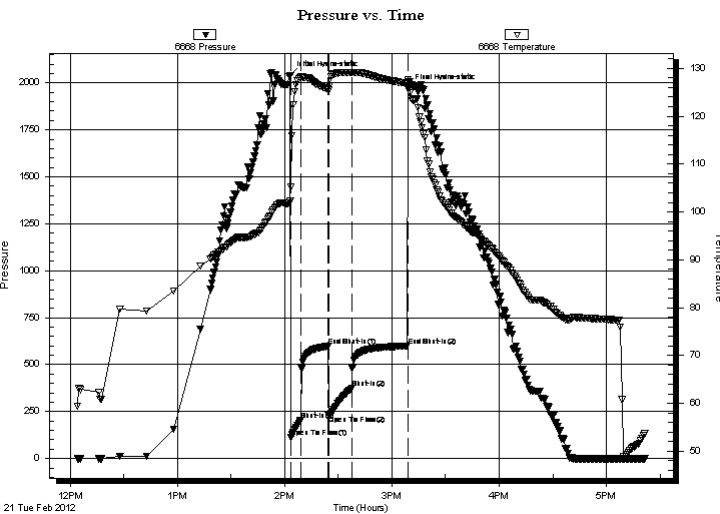
Formation: **"J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:03:38
 Time Test Ended: 17:21:53
 Interval: **4246.00 ft (KB) To 4268.00 ft (KB) (TVD)**
 Total Depth: 4246.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 48
 Reference Elevations: 2806.00 ft (KB)
 2801.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6668

Outside

Press @ Run Depth: 374.21 psig @ 4247.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.21 End Date: 2012.02.21 Last Calib.: 2012.02.21
 Start Time: 12:04:15 End Time: 17:21:53 Time On Btm: 2012.02.21 @ 14:03:08
 Time Off Btm: 2012.02.21 @ 15:09:08

TEST COMMENT: IF:BOB in 2 min.
 IS:Return blow built to a surface blow and died in 14 min.
 FF:BOB in 3 min.
 FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2039.25	102.27	Initial Hydro-static
1	111.82	105.17	Open To Flow (1)
6	202.99	128.14	Shut-In(1)
22	596.19	125.66	End Shut-In(1)
22	229.10	125.43	Open To Flow (2)
35	374.21	129.12	Shut-In(2)
66	598.81	126.84	End Shut-In(2)
66	1969.56	127.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
523.00	mcw with oil spots 10%m 90%w	5.96
124.00	mcw with oil spots 20%m 80%w	1.74
124.00	w cm with oil spots 20%w 80%m	1.74

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45108

DST#: 3

ATTN: Vern Schrag

Test Start: 2012.02.21 @ 12:04:15

GENERAL INFORMATION:

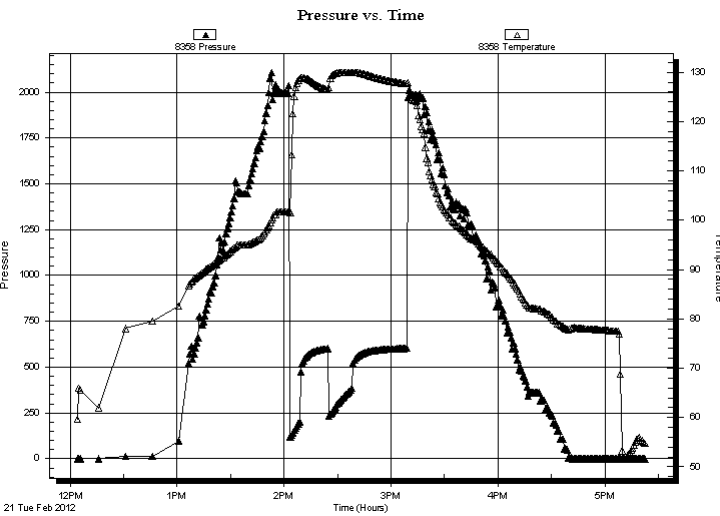
Formation: "J"			
Deviated: No	Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 14:03:38		Tester: Mike Roberts	
Time Test Ended: 17:21:53		Unit No: 48	
Interval: 4246.00 ft (KB) To 4268.00 ft (KB) (TVD)		Reference Elevations: 2806.00 ft (KB)	
Total Depth: 4246.00 ft (KB) (TVD)		2801.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 5.00 ft	

Serial #: 8358

Inside

Press @ RunDepth: psig @ 4247.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.02.21	End Date: 2012.02.21
Start Time: 12:04:15	End Time: 17:22:15
	Last Calib.: 2012.02.21
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF:BOB in 2 min.
IS:Return blow built to a surface blow and died in 14 min.
FF:BOB in 3 min.
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
523.00	mcw with oil spots 10% m 90% w	5.96
124.00	mcw with oil spots 20% m 80% w	1.74
124.00	w cm w ith oil spots 20% w 80% m	1.74

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45108

DST#: 3

ATTN: Vern Schrag

Test Start: 2012.02.21 @ 12:04:15

Tool Information

Drill Pipe:	Length: 4087.00 ft	Diameter: 3.80 inches	Volume: 57.33 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 151.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4246.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4219.00	
Shut In Tool	5.00			4224.00	
Hydraulic tool	5.00			4229.00	
Jars	5.00			4234.00	
Safety Joint	3.00			4237.00	
Packer	5.00			4242.00	28.00 Bottom Of Top Packer
Packer	4.00			4246.00	
Stubb	1.00			4247.00	
Recorder	0.00	8358	Inside	4247.00	
Recorder	0.00	6668	Outside	4247.00	
Perforations	16.00			4263.00	
Bullnose	5.00			4268.00	22.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45108

DST#: 3

ATTN: Vern Schrag

Test Start: 2012.02.21 @ 12:04:15

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:

30000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.31 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
523.00	mcw with oil spots 10%m 90%w	5.961
124.00	mcw with oil spots 20%m 80%w	1.739
124.00	w cm with oil spots 20%w 80%m	1.739

Total Length: 771.00 ft Total Volume: 9.439 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

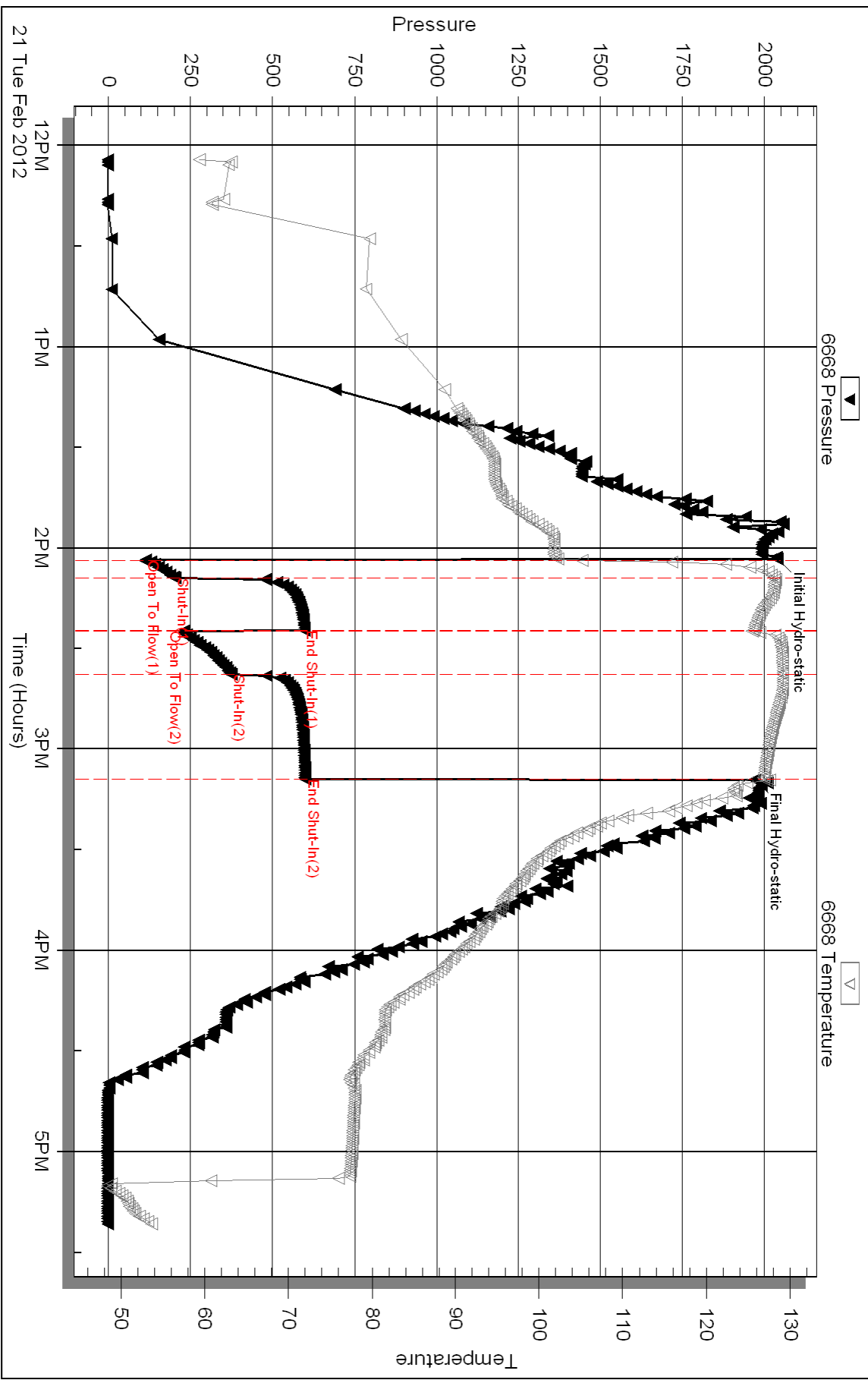
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .258@59.2*=30,000 ppm

Pressure vs. Time



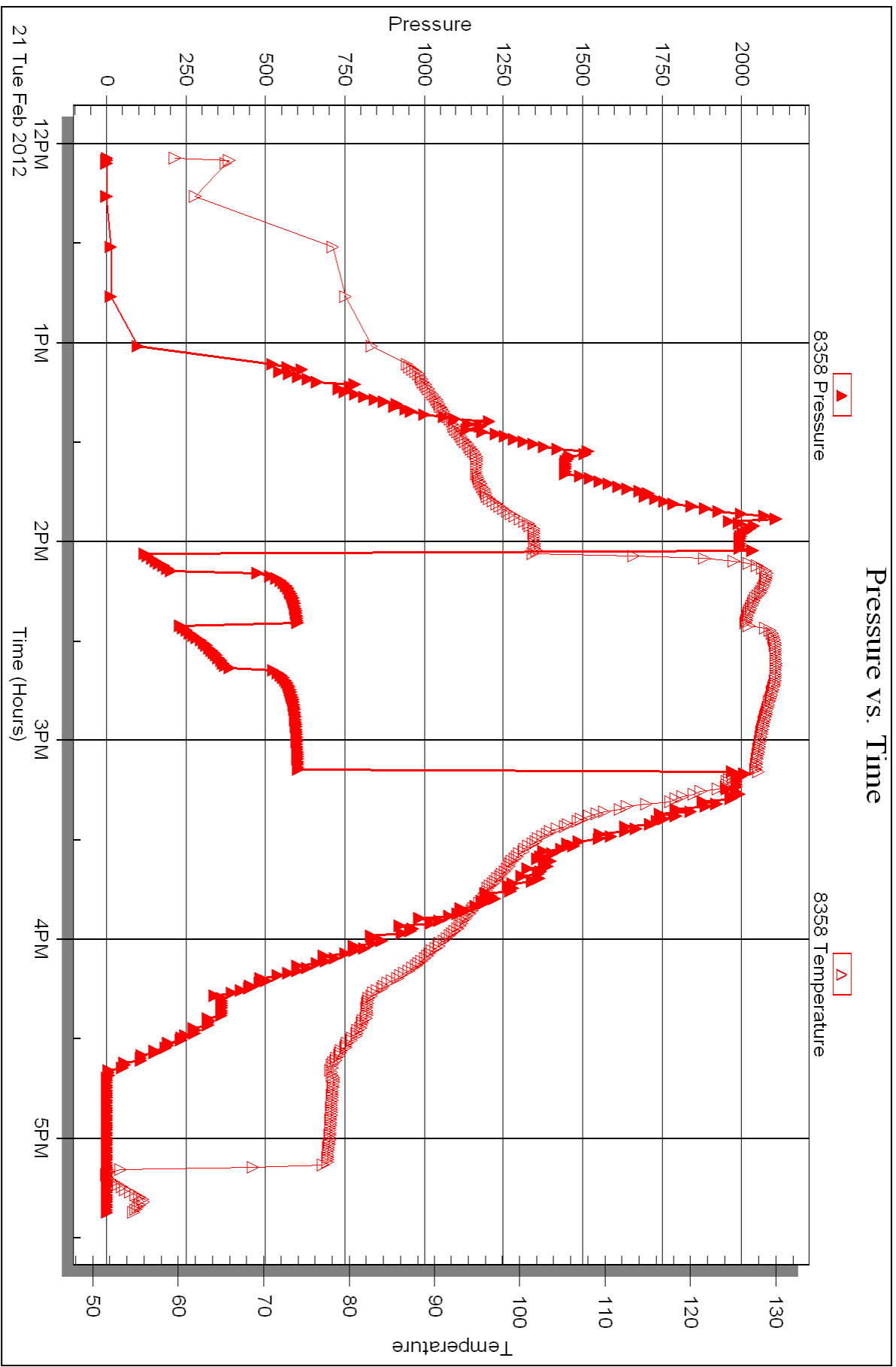
Serial #: 8358

Inside

Larson Engineering LLC

Paris #1-7

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 45108

Printed: 2012.02.29 @ 09:45:21



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering LLC**

562 West St. Rd. 4
Olmitz, KS 67564

ATTN: Vern Schrag

Paris #1-7

7-19s-28w Lane,KS

Start Date: 2012.02.22 @ 01:42:15

End Date: 2012.02.22 @ 06:33:00

Job Ticket #: 45109 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.29 @ 09:44:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

ATTN: Vern Schrag

Job Ticket: 45109

DST#: 4

Test Start: 2012.02.22 @ 01:42:15

GENERAL INFORMATION:

Formation: "K"
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:40:15
 Tester: Mike Roberts
 Time Test Ended: 06:33:00
 Unit No: 48
 Interval: 4288.00 ft (KB) To 4302.00 ft (KB) (TVD)
 Reference Elevations: 2806.00 ft (KB)
 Total Depth: 4302.00 ft (KB) (TVD)
 2801.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

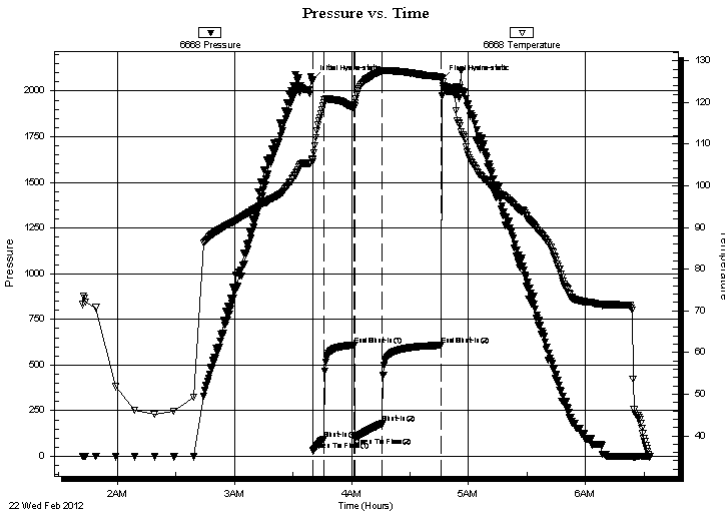
Serial #: 6668

Outside

Press @ RunDepth: 179.17 psig @ 4289.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2012.02.22
 End Date: 2012.02.22
 Last Calib.: 2012.02.22
 Start Time: 01:42:15
 End Time: 06:33:00
 Time On Btm: 2012.02.22 @ 03:40:00
 Time Off Btm: 2012.02.22 @ 04:46:30

TEST COMMENT: IF: Built to 8" blow
 IS: No return blow
 FF: BOB in 9 min.
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.16	106.33	Initial Hydro-static
1	30.47	105.73	Open To Flow (1)
6	94.80	120.02	Shut-In(1)
21	609.62	118.78	End Shut-In(1)
22	102.03	119.14	Open To Flow (2)
36	179.17	127.52	Shut-In(2)
66	608.61	126.01	End Shut-In(2)
67	2061.59	125.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
213.00	sw 100%sw	1.61
124.00	mcw with oil spots	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45109

DST#: 4

ATTN: Vern Schrag

Test Start: 2012.02.22 @ 01:42:15

Tool Information

Drill Pipe:	Length: 4117.00 ft	Diameter: 3.80 inches	Volume: 57.75 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 151.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4288.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4261.00	
Shut In Tool	5.00			4266.00	
Hydraulic tool	5.00			4271.00	
Jars	5.00			4276.00	
Safety Joint	3.00			4279.00	
Packer	5.00			4284.00	28.00 Bottom Of Top Packer
Packer	4.00			4288.00	
Stubb	1.00			4289.00	
Recorder	0.00	8358	Inside	4289.00	
Recorder	0.00	6668	Outside	4289.00	
Perforations	8.00			4297.00	
Bullnose	5.00			4302.00	14.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45109

DST#: 4

ATTN: Vern Schrag

Test Start: 2012.02.22 @ 01:42:15

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:

31000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.13 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
213.00	sw 100%sw	1.612
124.00	mcw with oil spots	1.739

Total Length: 337.00 ft Total Volume: 3.351 bbl

Num Fluid Samples: 0

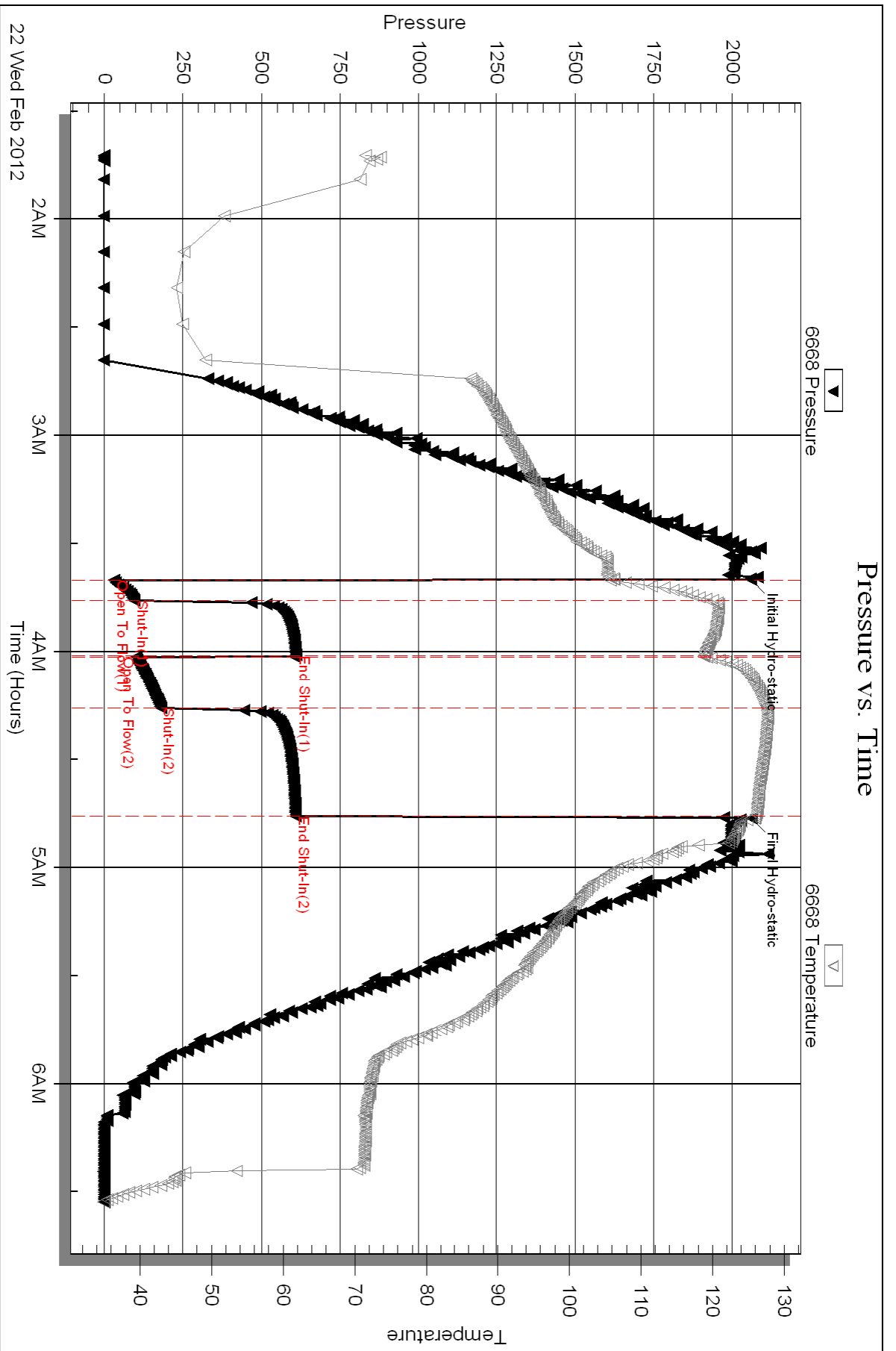
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .253@60.1*=31,000 ppm



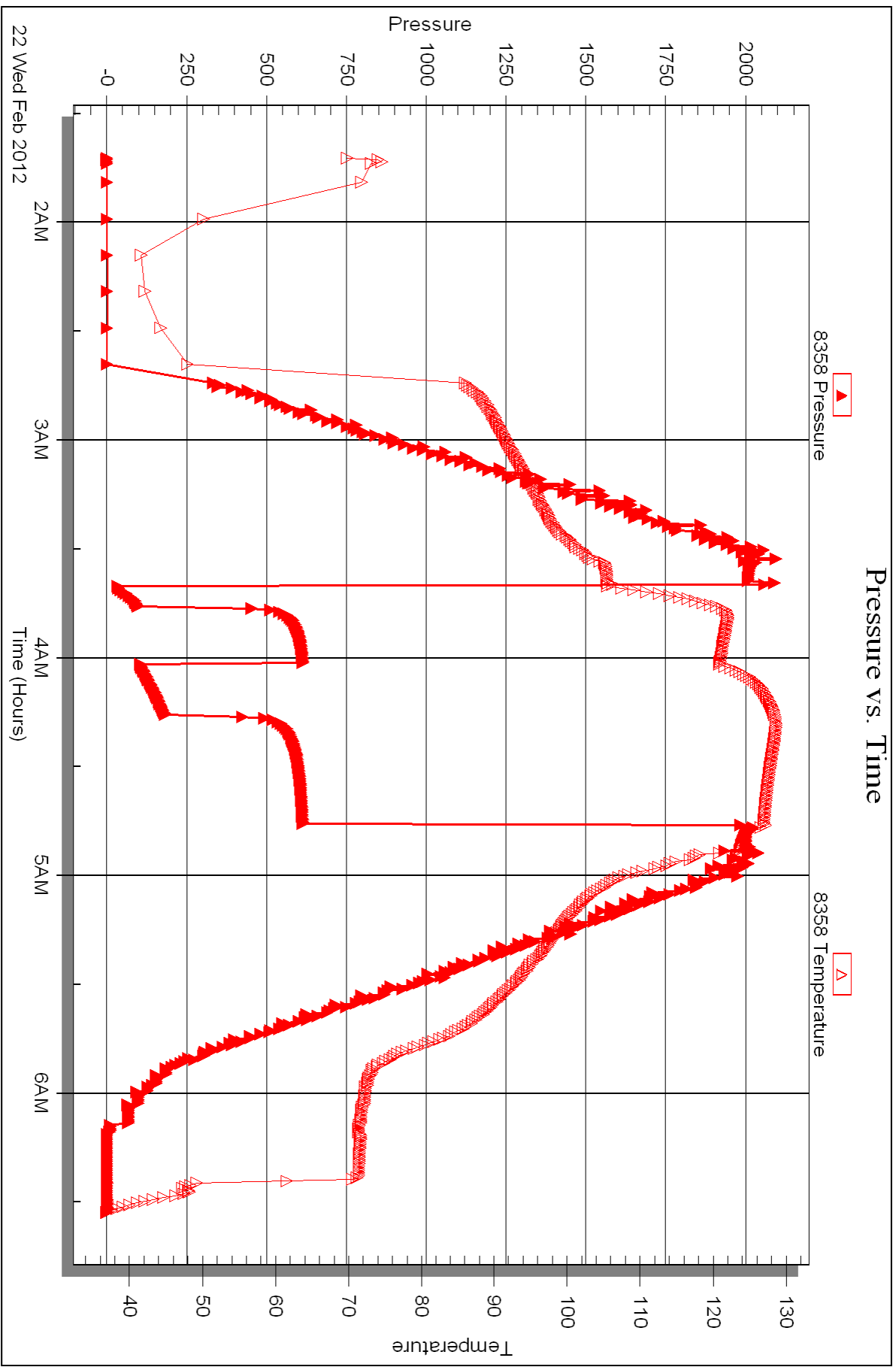
Serial #: 8358

Inside

Larson Engineering LLC

Paris #1-7

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 45109

Printed: 2012.02.29 @ 09:44:42



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering LLC**

562 West St. Rd. 4
Olmitz, KS 67564

ATTN: Vern Schrag

Paris #1-7

7-19s-28w Lane,KS

Start Date: 2012.02.22 @ 20:11:15

End Date: 2012.02.23 @ 02:39:15

Job Ticket #: 45110 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.29 @ 09:43:56



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

ATTN: Vern Schrag

Job Ticket: 45110

DST#: 5

Test Start: 2012.02.22 @ 20:11:15

GENERAL INFORMATION:

Formation: **Middle Creek**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:02:15

Time Test Ended: 02:39:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4315.00 ft (KB) To 4332.00 ft (KB) (TVD)

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4332.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @ Run Depth: 176.95 psig @ 4316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.22

End Date:

2012.02.23

Last Calib.: 2012.02.23

Start Time: 20:11:15

End Time:

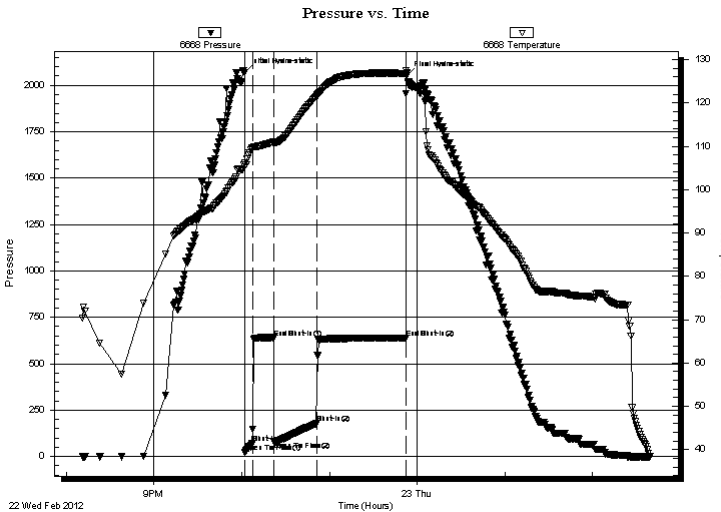
02:39:15

Time On Btm: 2012.02.22 @ 22:02:00

Time Off Btm: 2012.02.22 @ 23:53:15

TEST COMMENT: IF: Built to 6" blow
IS: No return blow
FF: BOB in 6 min.
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.00	106.17	Initial Hydro-static
1	21.59	105.30	Open To Flow (1)
6	69.68	109.60	Shut-In(1)
20	640.39	110.91	End Shut-In(1)
20	79.26	110.71	Open To Flow (2)
50	176.95	121.57	Shut-In(2)
111	638.19	126.77	End Shut-In(2)
112	2051.92	126.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	ow cm 10%o 10%w 80% m	0.30
61.00	omcw 10%o 30%m 60%w	0.30
186.00	gco 20%g 80%o	2.34
124.00	free oil 100%o	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45110

DST#: 5

ATTN: Vern Schrag

Test Start: 2012.02.22 @ 20:11:15

Tool Information

Drill Pipe:	Length: 4147.00 ft	Diameter: 3.80 inches	Volume: 58.17 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 151.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 58.91 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4315.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4288.00	
Shut In Tool	5.00			4293.00	
Hydraulic tool	5.00			4298.00	
Jars	5.00			4303.00	
Safety Joint	3.00			4306.00	
Packer	5.00			4311.00	28.00 Bottom Of Top Packer
Packer	4.00			4315.00	
Stubb	1.00			4316.00	
Recorder	0.00	8358	Inside	4316.00	
Recorder	0.00	6668	Outside	4316.00	
Perforations	11.00			4327.00	
Bullnose	5.00			4332.00	17.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45110

DST#: 5

ATTN: Vern Schrag

Test Start: 2012.02.22 @ 20:11:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.13 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
61.00	ow cm 10%o 10%w 80% m	0.300
61.00	omcw 10%o 30%m 60%w	0.300
186.00	gco 20%g 80%o	2.345
124.00	free oil 100%o	1.739

Total Length: 432.00 ft Total Volume: 4.684 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

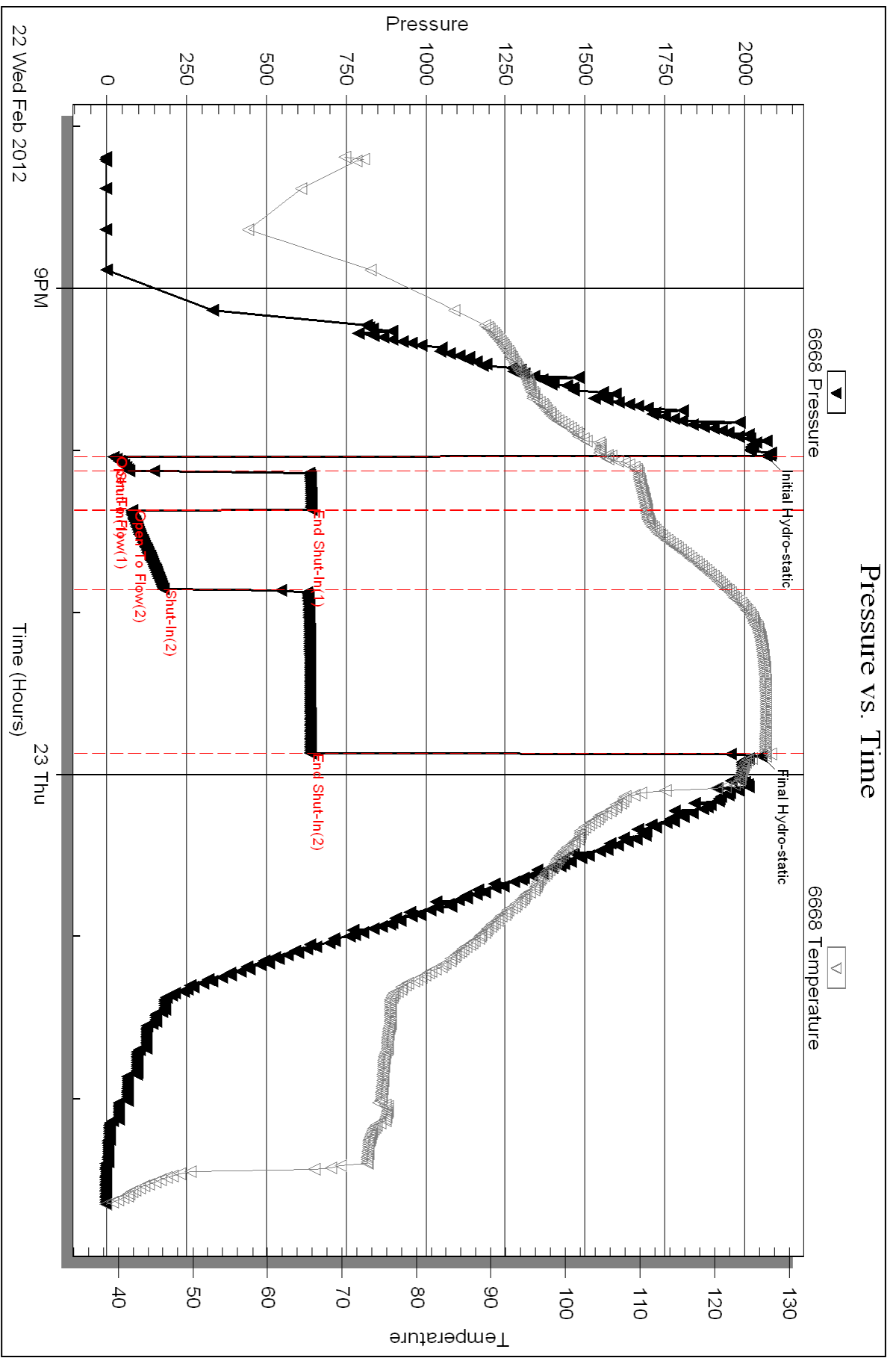
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .402@42*=32,000 ppm

API= 37@40 corrected to 35 @60



Serial #: 8358

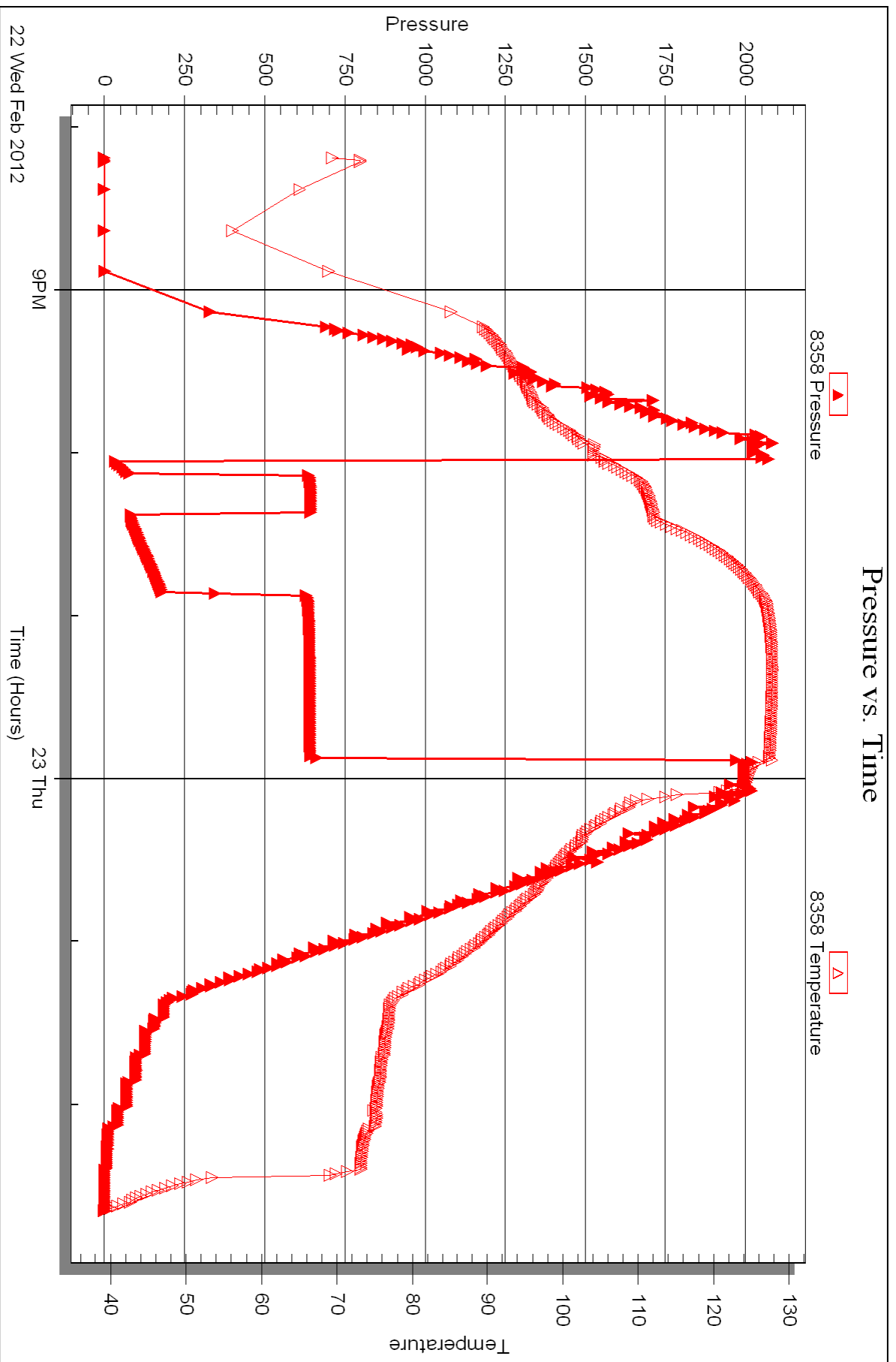
Inside

Larson Engineering LLC

Paris #1-7

DST Test Number: 5

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Larson Engineering LLC**

562 West St. Rd. 4
Olmitz, KS 67564

ATTN: Vern Schrag

Paris #1-7

7-19s-28w Lane,KS

Start Date: 2012.02.23 @ 12:13:00

End Date: 2012.02.23 @ 17:48:30

Job Ticket #: 45111 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.29 @ 09:43:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45111

DST#: 6

ATTN: Vern Schrag

Test Start: 2012.02.23 @ 12:13:00

GENERAL INFORMATION:

Formation: "L"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:53:00

Time Test Ended: 17:48:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4332.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8358

Inside

Press @ Run Depth: 118.30 psig @ 4333.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.23

End Date:

2012.02.23

Last Calib.:

2012.02.23

Start Time: 12:13:15

End Time:

17:48:30

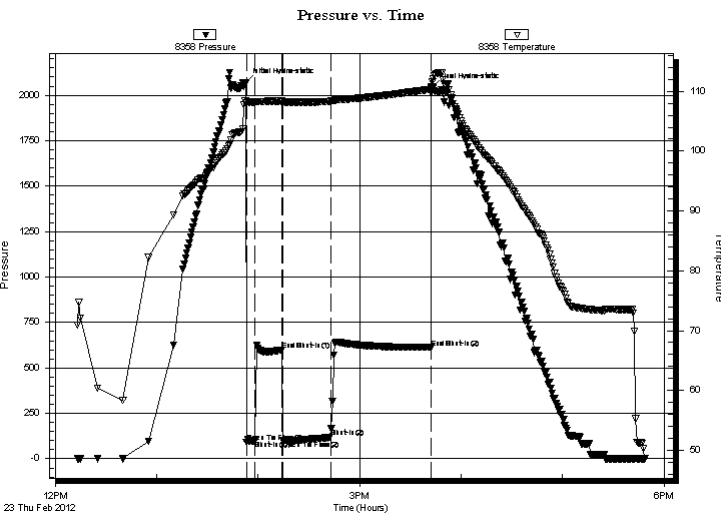
Time On Btm:

2012.02.23 @ 13:52:30

Time Off Btm:

2012.02.23 @ 15:43:00

TEST COMMENT: IF: Built to 6" blow
IS: No return blow
FF: Built to 7" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.57	108.40	Initial Hydro-static
1	90.73	108.09	Open To Flow (1)
6	99.95	108.16	Shut-In(1)
22	599.28	108.32	End Shut-In(1)
22	100.21	108.22	Open To Flow (2)
51	118.30	108.31	Shut-In(2)
110	608.91	110.35	End Shut-In(2)
111	2040.04	111.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
121.00	gcmo 20%g 20%m 60%o	0.60
62.00	gcom 10%g 40%m 50%o	0.60
65.00	gcom 5%g 45%o 50%m	0.91

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45111

DST#: 6

ATTN: Vern Schrag

Test Start: 2012.02.23 @ 12:13:00

GENERAL INFORMATION:

Formation: "L"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:53:00

Time Test Ended: 17:48:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4332.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @ Run Depth: psig @ 4333.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.23

End Date:

2012.02.23

Last Calib.:

1899.12.30

Start Time:

12:13:15

End Time:

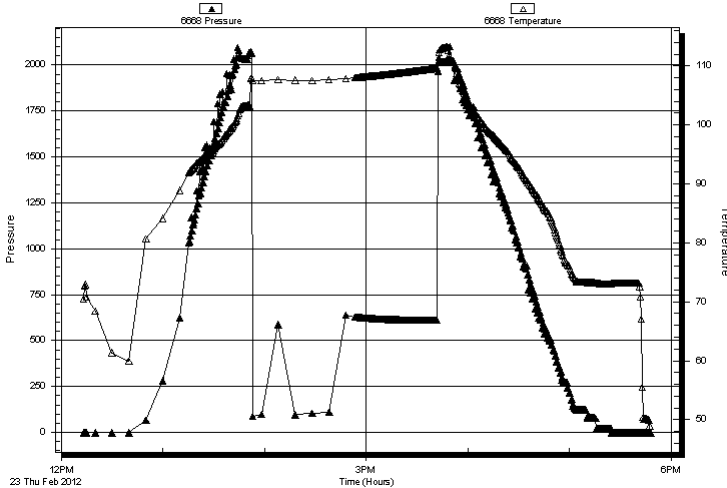
17:47:53

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 6" blow
IS: No return blow
FF: Built to 7" blow
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
121.00	gcmo 20%g 20%m 60%o	0.60
62.00	gcom 10%g 40%m 50%o	0.60
65.00	gcom 5%g 45%o 50%m	0.91

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45111

DST#: 6

ATTN: Vern Schrag

Test Start: 2012.02.23 @ 12:13:00

Tool Information

Drill Pipe:	Length: 4183.00 ft	Diameter: 3.80 inches	Volume: 58.68 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 151.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 59.42 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	4332.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	8.00 ft				
Tool Length:	36.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4305.00	
Shut In Tool	5.00			4310.00	
Hydraulic tool	5.00			4315.00	
Jars	5.00			4320.00	
Safety Joint	3.00			4323.00	
Packer	5.00			4328.00	28.00 Bottom Of Top Packer
Packer	4.00			4332.00	
Stubb	1.00			4333.00	
Recorder	0.00	8358	Inside	4333.00	
Recorder	0.00	6668	Outside	4333.00	
Perforations	2.00			4335.00	
Bullnose	5.00			4340.00	8.00 Bottom Packers & Anchor

Total Tool Length: 36.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45111

DST#: 6

ATTN: Vern Schrag

Test Start: 2012.02.23 @ 12:13:00

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:

bbbl

Water Loss: 5.93 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
121.00	gcmo 20%g 20%m 60%o	0.595
62.00	gcom 10%g 40%m 50%o	0.596
65.00	gcom 5%g 45%o 50%m	0.912

Total Length: 248.00 ft Total Volume: 2.103 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

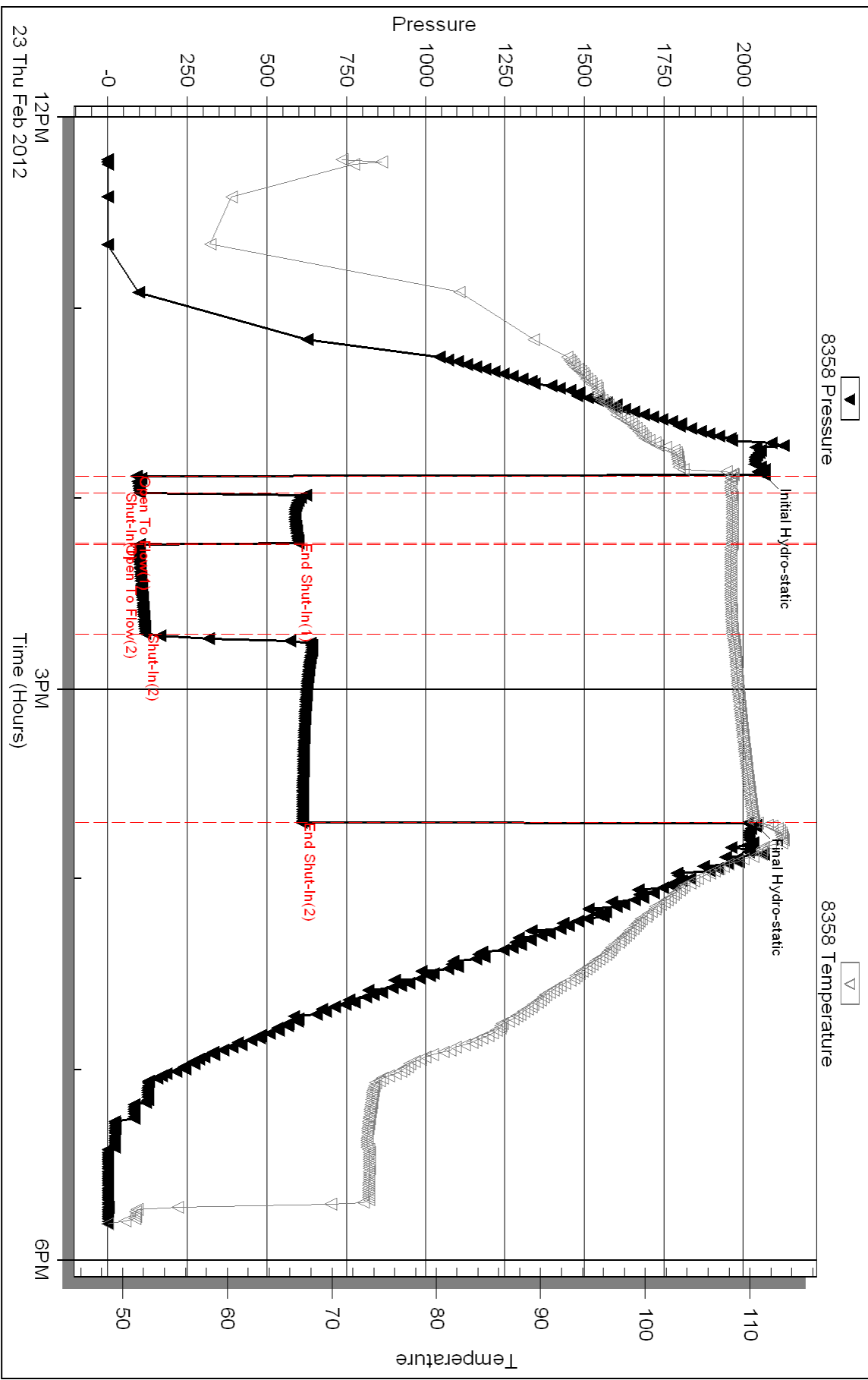
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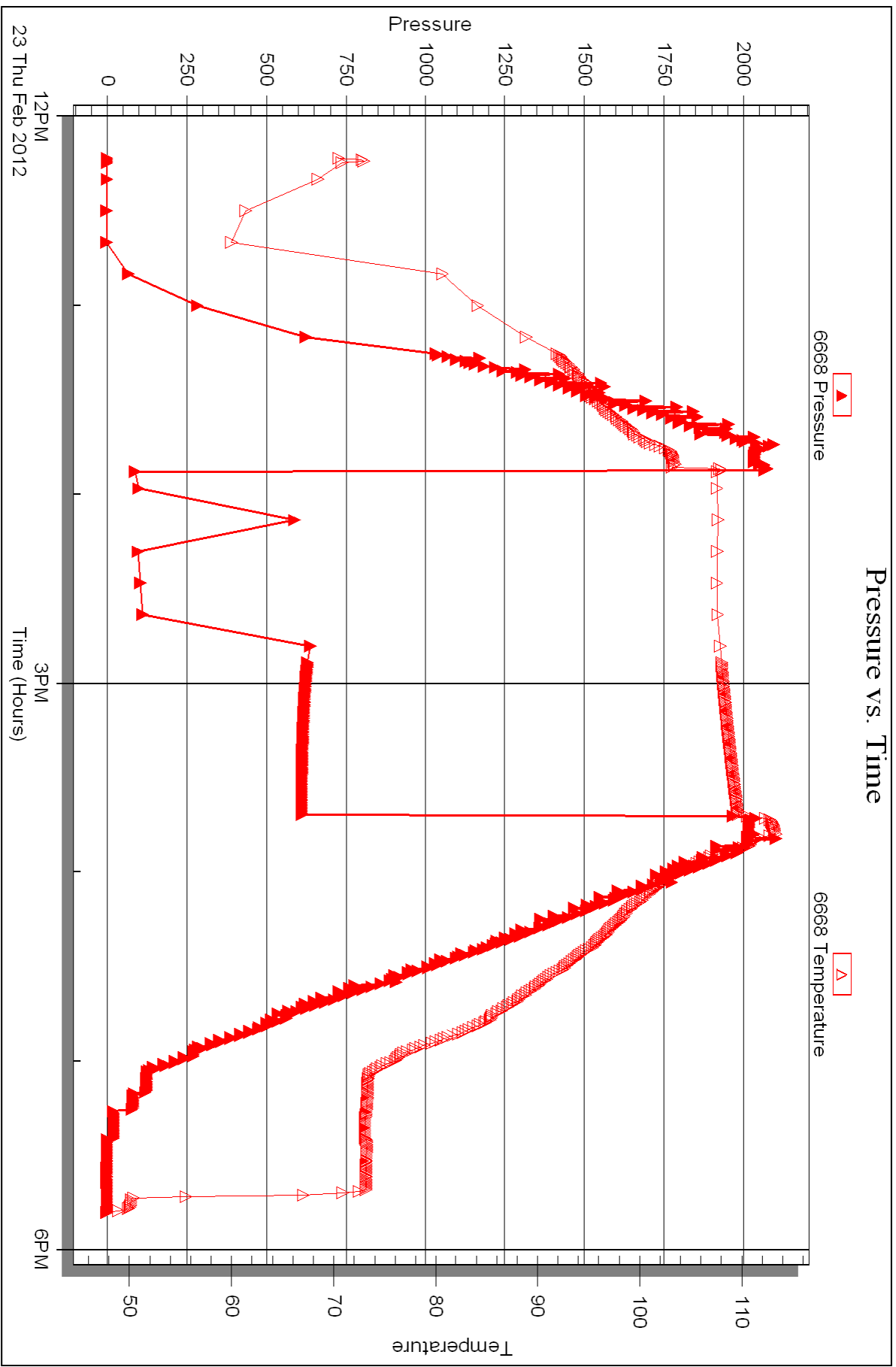
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering LLC**

562 West St. Rd. 4
Olmitz, KS 67564

ATTN: Vern Schrag

Paris #1-7

7-19s-28w Lane,KS

Start Date: 2012.02.24 @ 08:38:00

End Date: 2012.02.24 @ 14:23:00

Job Ticket #: 45112 DST #: 7

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.29 @ 09:42:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45112

DST#: 7

ATTN: Vern Schrag

Test Start: 2012.02.24 @ 08:38:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:40:00

Time Test Ended: 14:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4368.00 ft (KB) To 4405.00 ft (KB) (TVD)

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4405.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @ Run Depth: 16.27 psig @ 4369.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.24

End Date:

2012.02.24

Last Calib.:

2012.02.24

Start Time: 08:38:15

End Time:

14:23:00

Time On Btm:

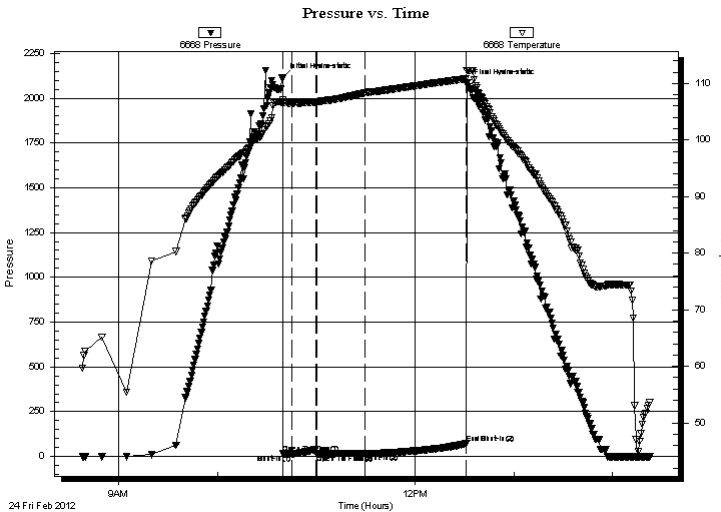
2012.02.24 @ 10:39:45

Time Off Btm:

2012.02.24 @ 12:31:30

TEST COMMENT: IF: Weak surface blow
No return blow
FF: Weak surface blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.88	107.02	Initial Hydro-static
1	15.38	106.35	Open To Flow (1)
6	14.55	106.45	Shut-In(1)
21	40.52	106.71	End Shut-In(1)
21	14.49	106.71	Open To Flow (2)
50	16.27	108.32	Shut-In(2)
111	71.42	110.80	End Shut-In(2)
112	2082.98	112.29	Final Hydro-static

Recovery

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

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45112

DST#: 7

ATTN: Vern Schrag

Test Start: 2012.02.24 @ 08:38:00

Tool Information

Drill Pipe:	Length: 4211.00 ft	Diameter: 3.80 inches	Volume: 59.07 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 151.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4368.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4345.00	
Shut In Tool	5.00			4350.00	
Hydraulic tool	5.00			4355.00	
Jars	5.00			4360.00	
Safety Joint	3.00			4363.00	
Packer	5.00			4368.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4368.00	
Stubb	1.00			4369.00	
Recorder	0.00	8358	Inside	4369.00	
Recorder	0.00	6668	Outside	4369.00	
Perforations	35.00			4404.00	
Bullnose	5.00			4409.00	41.00 Anchor Tool

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45112

DST#: 7

ATTN: Vern Schrag

Test Start: 2012.02.24 @ 08:38:00

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:

bbbl

Water Loss: 5.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud w ith oil spots	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

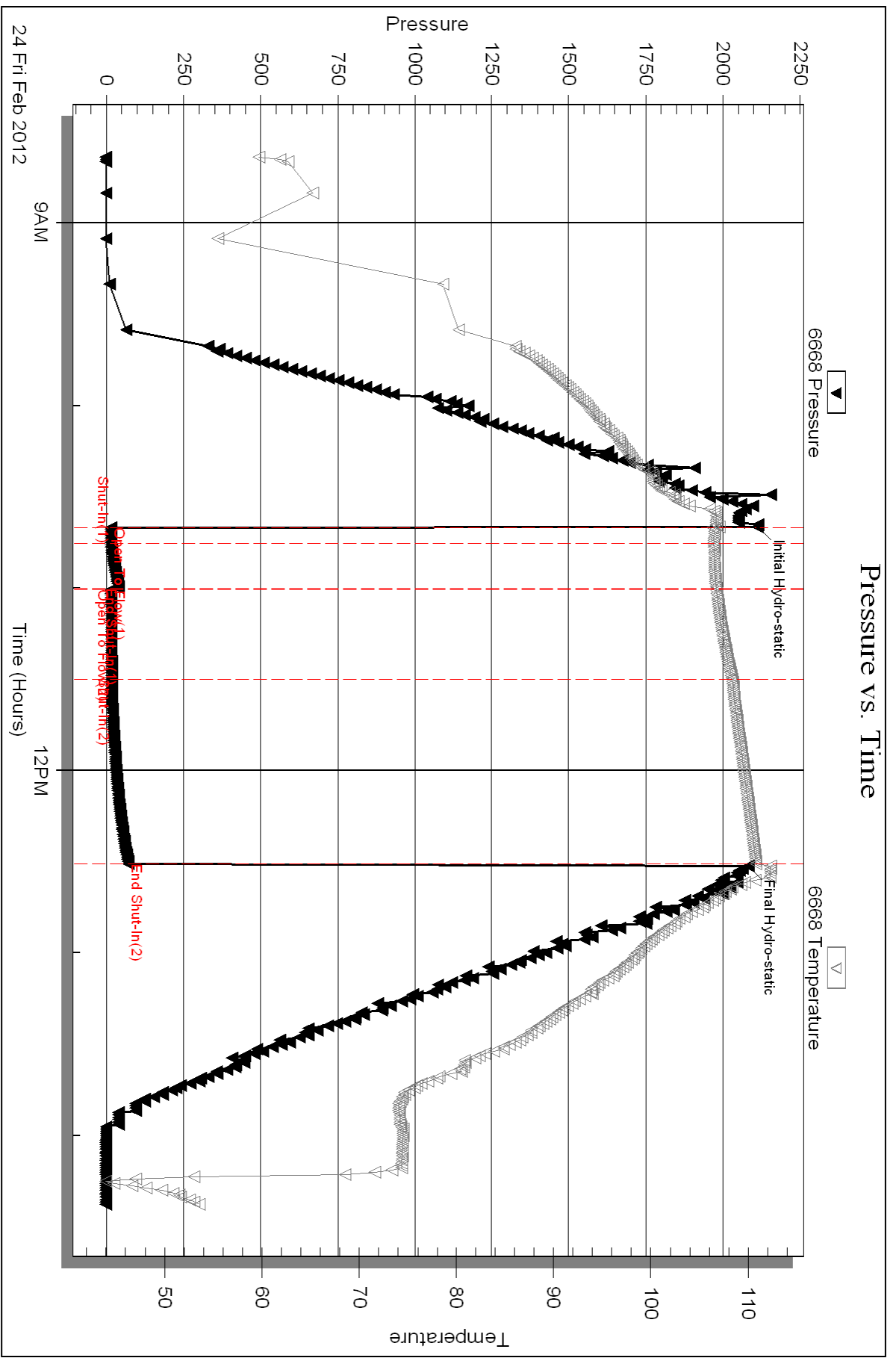
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



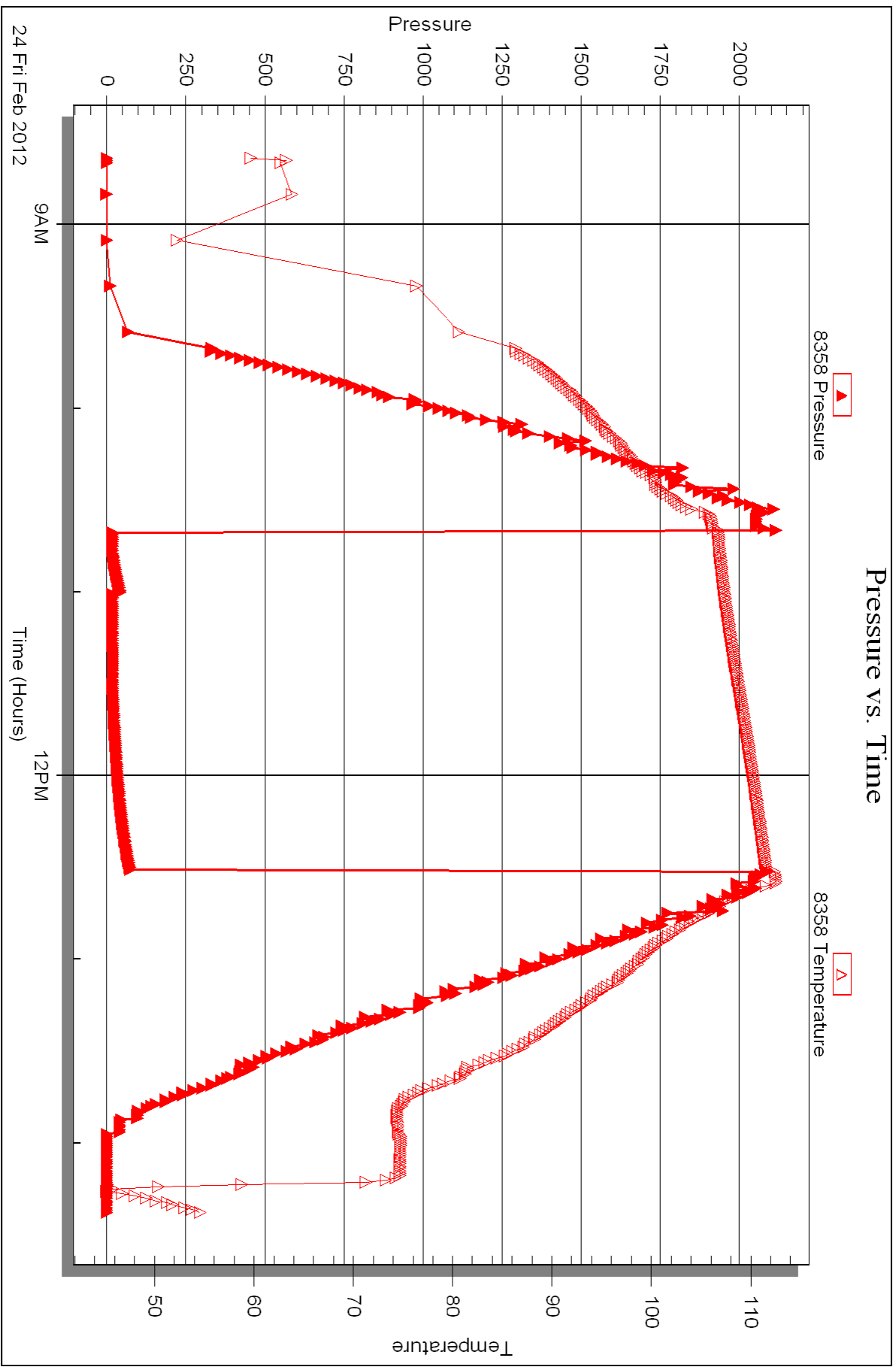
Serial #: 8358

Inside

Larson Engineering LLC

Paris #1-7

DST Test Number: 7



Triobite Testing, Inc

Ref. No: 45112

Printed: 2012.02.29 @ 09:42:06



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering LLC**

562 West St. Rd. 4
Olmitz, KS 67564

ATTN: Vern Schrag

Paris #1-7

7-19s-28w Lane,KS

Start Date: 2012.02.25 @ 00:34:15

End Date: 2012.02.25 @ 06:15:53

Job Ticket #: 45113 DST #: 8

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.29 @ 09:41:04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45113

DST#: 8

ATTN: Vern Schrag

Test Start: 2012.02.25 @ 00:34:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:54:08

Time Test Ended: 06:15:53

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4404.00 ft (KB) To 4455.00 ft (KB) (TVD)

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4455.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @ Run Depth: 34.36 psig @ 4440.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.25

End Date:

2012.02.25

Last Calib.:

2012.02.25

Start Time: 00:34:15

End Time:

06:15:53

Time On Btm:

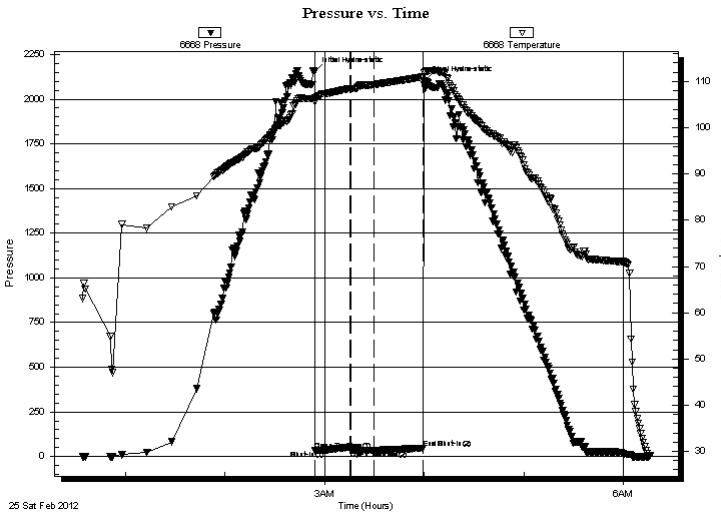
2012.02.25 @ 02:53:53

Time Off Btm:

2012.02.25 @ 04:00:08

TEST COMMENT: IF:Weak surface blow
IS:No return blow
FF:Weak surface blow
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.35	106.38	Initial Hydro-static
1	32.66	105.54	Open To Flow (1)
6	33.20	107.38	Shut-In(1)
22	51.68	108.46	End Shut-In(1)
22	33.67	108.49	Open To Flow (2)
36	34.36	109.35	Shut-In(2)
66	46.46	111.00	End Shut-In(2)
67	2105.46	111.87	Final Hydro-static

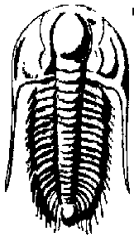
Recovery

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

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45113

DST#: 8

ATTN: Vern Schrag

Test Start: 2012.02.25 @ 00:34:15

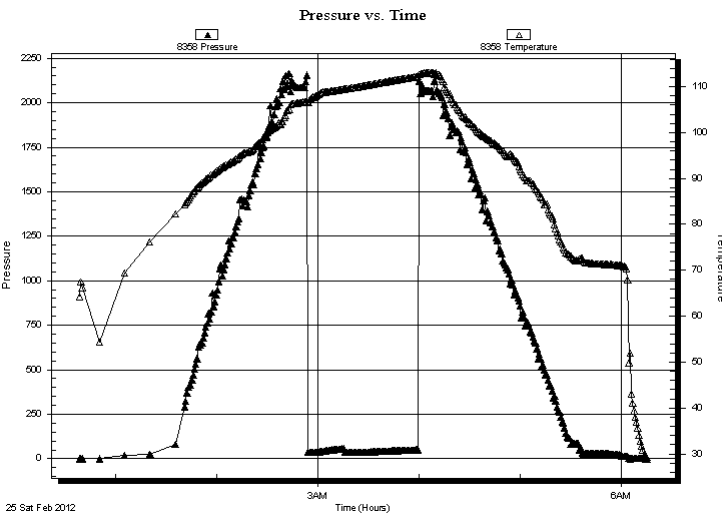
GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:54:08
Time Test Ended: 06:15:53
Interval: 4404.00 ft (KB) To 4455.00 ft (KB) (TVD)
Total Depth: 4455.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 48
Reference Elevations: 2806.00 ft (KB)
2801.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8358 Inside
Press @ Run Depth: psig @ 4440.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.02.25 End Date: 2012.02.25 Last Calib.: 2012.02.25
Start Time: 00:38:23 End Time: 06:15:38 Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Weak surface blow
IS:No return blow
FF:Weak surface blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

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

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45113

DST#: 8

ATTN: Vern Schrag

Test Start: 2012.02.25 @ 00:34:15

Tool Information

Drill Pipe:	Length: 4241.00 ft	Diameter: 3.80 inches	Volume: 59.49 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 151.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4404.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4381.00	
Shut In Tool	5.00			4386.00	
Hydraulic tool	5.00			4391.00	
Jars	5.00			4396.00	
Safety Joint	3.00			4399.00	
Packer	5.00			4404.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4404.00	
Stubb	1.00			4405.00	
Perforations	2.00			4407.00	
Change Over Sub	1.00			4408.00	
Drill Pipe	31.00			4439.00	
Change Over Sub	1.00			4440.00	
Recorder	0.00	8358	Inside	4440.00	
Recorder	0.00	6668	Outside	4440.00	
Perforations	10.00			4450.00	
Bullnose	5.00			4455.00	51.00 Anchor Tool
Total Tool Length:	75.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45113

DST#: 8

ATTN: Vern Schrag

Test Start: 2012.02.25 @ 00:34:15

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:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

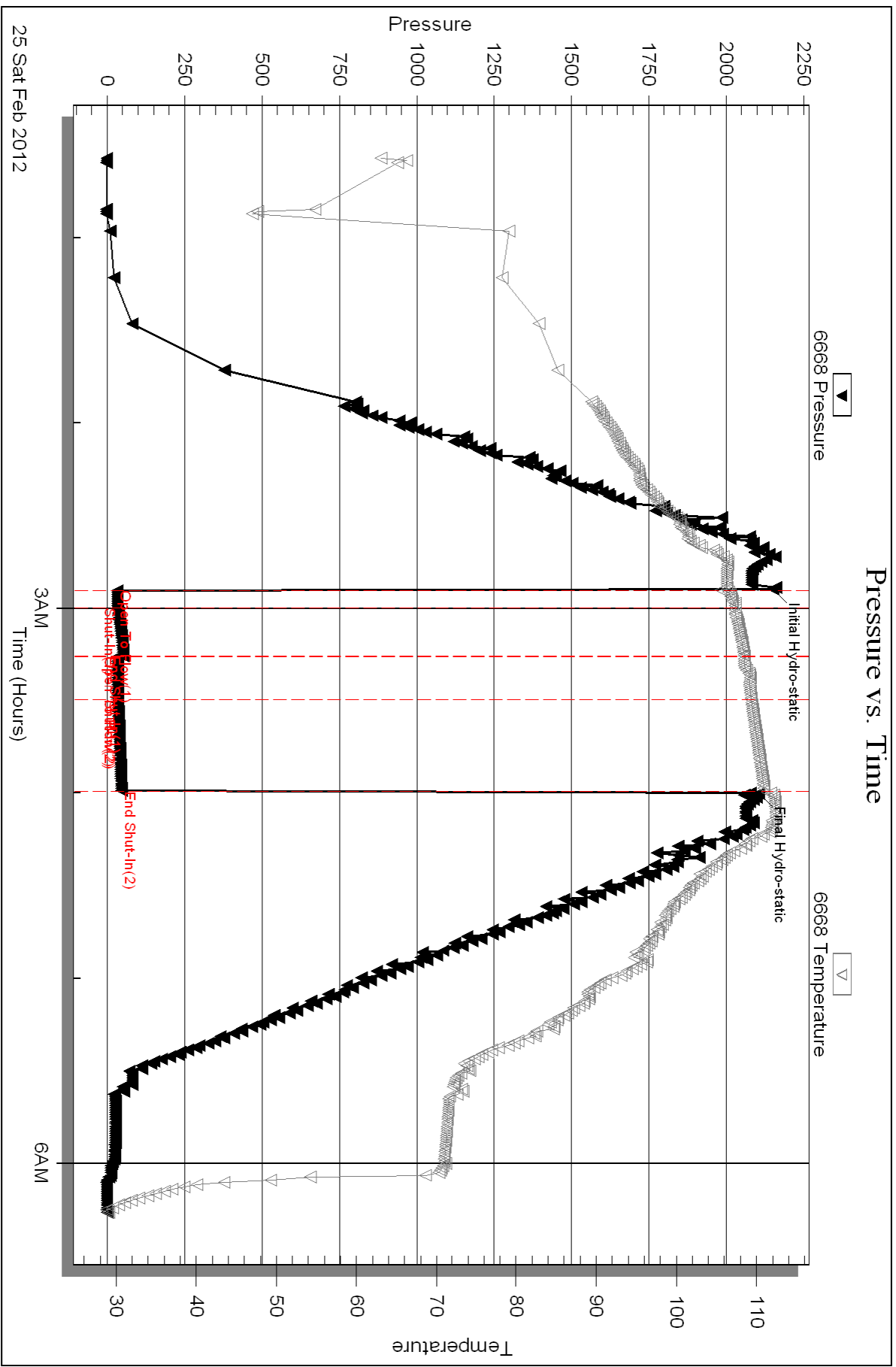
Num Gas Bombs: 0

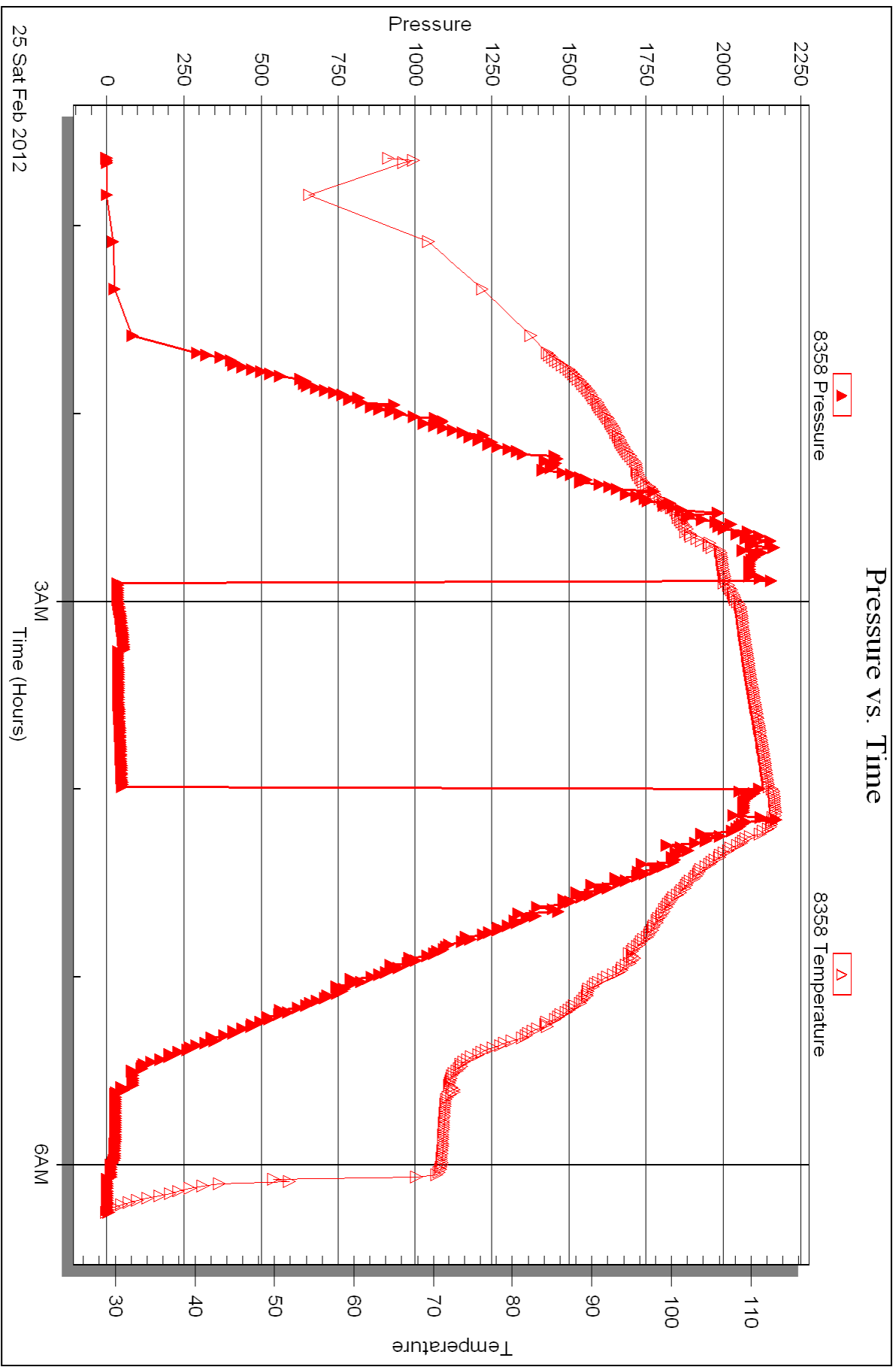
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering LLC**

562 West St. Rd. 4
Olmitz, KS 67564

ATTN: Vern Schrag

Paris #1-7

7-19s-28w Lane,KS

Start Date: 2012.02.26 @ 01:38:15

End Date: 2012.02.25 @ 08:19:45

Job Ticket #: 45114 DST #: 9

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.29 @ 09:40:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering LLC

7-19s-28w Lane, KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

ATTN: Vern Schrag

Job Ticket: 45114

DST#: 9

Test Start: 2012.02.26 @ 01:38:15

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:12:45

Time Test Ended: 08:19:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4454.00 ft (KB) To 4567.00 ft (KB) (TVD)

Reference Elevations: 2806.00 ft (KB)

Total Depth: 4567.00 ft (KB) (TVD)

2801.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6668 Outside

Press @ Run Depth: 82.45 psig @ 4552.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.26

End Date:

2012.02.26

Last Calib.:

2012.02.26

Start Time: 01:38:15

End Time:

08:19:45

Time On Btm:

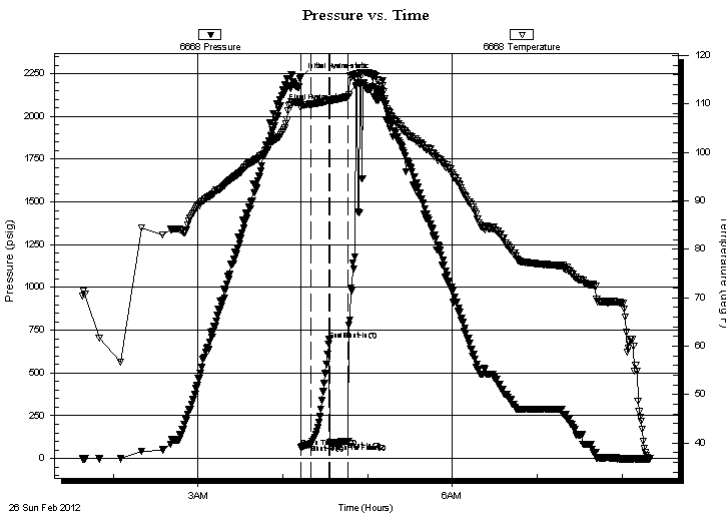
2012.02.26 @ 04:12:30

Time Off Btm:

2012.02.26 @ 04:51:30

TEST COMMENT: IF: Built to 2" blow
IS: No return blow
FF: Packer failure 21 min into open.. Pulled test
FS: Pulled test

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.50	110.32	Initial Hydro-static
1	65.05	109.28	Open To Flow (1)
7	82.45	109.94	Shut-In(1)
21	694.61	110.73	End Shut-In(1)
21	86.31	110.70	Open To Flow (2)
34	102.11	111.50	Shut-In(2)
39	2180.05	116.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil spots	0.02
895.00	mud 100% m	11.22

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45114

DST#: 9

ATTN: Vern Schrag

Test Start: 2012.02.26 @ 01:38:15

Tool Information

Drill Pipe:	Length: 4309.00 ft	Diameter: 3.80 inches	Volume: 60.44 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 151.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4454.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	113.00 ft			
Tool Length:	137.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4431.00	
Shut In Tool	5.00			4436.00	
Hydraulic tool	5.00			4441.00	
Jars	5.00			4446.00	
Safety Joint	3.00			4449.00	
Packer	5.00			4454.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4454.00	
Stubb	1.00			4455.00	
Perforations	1.00			4456.00	
Change Over Sub	1.00			4457.00	
Drill Pipe	94.00			4551.00	
Change Over Sub	1.00			4552.00	
Recorder	0.00	8358	Inside	4552.00	
Recorder	0.00	6668	Outside	4552.00	
Perforations	10.00			4562.00	
Bullnose	5.00			4567.00	113.00 Anchor Tool
Total Tool Length:	137.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering LLC

7-19s-28w Lane,KS

562 West St. Rd. 4
Olmitz, KS 67564

Paris #1-7

Job Ticket: 45114

DST#: 9

ATTN: Vern Schrag

Test Start: 2012.02.26 @ 01:38:15

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w ith oil spots	0.025
895.00	mud 100% m	11.225

Total Length: 900.00 ft Total Volume: 11.250 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

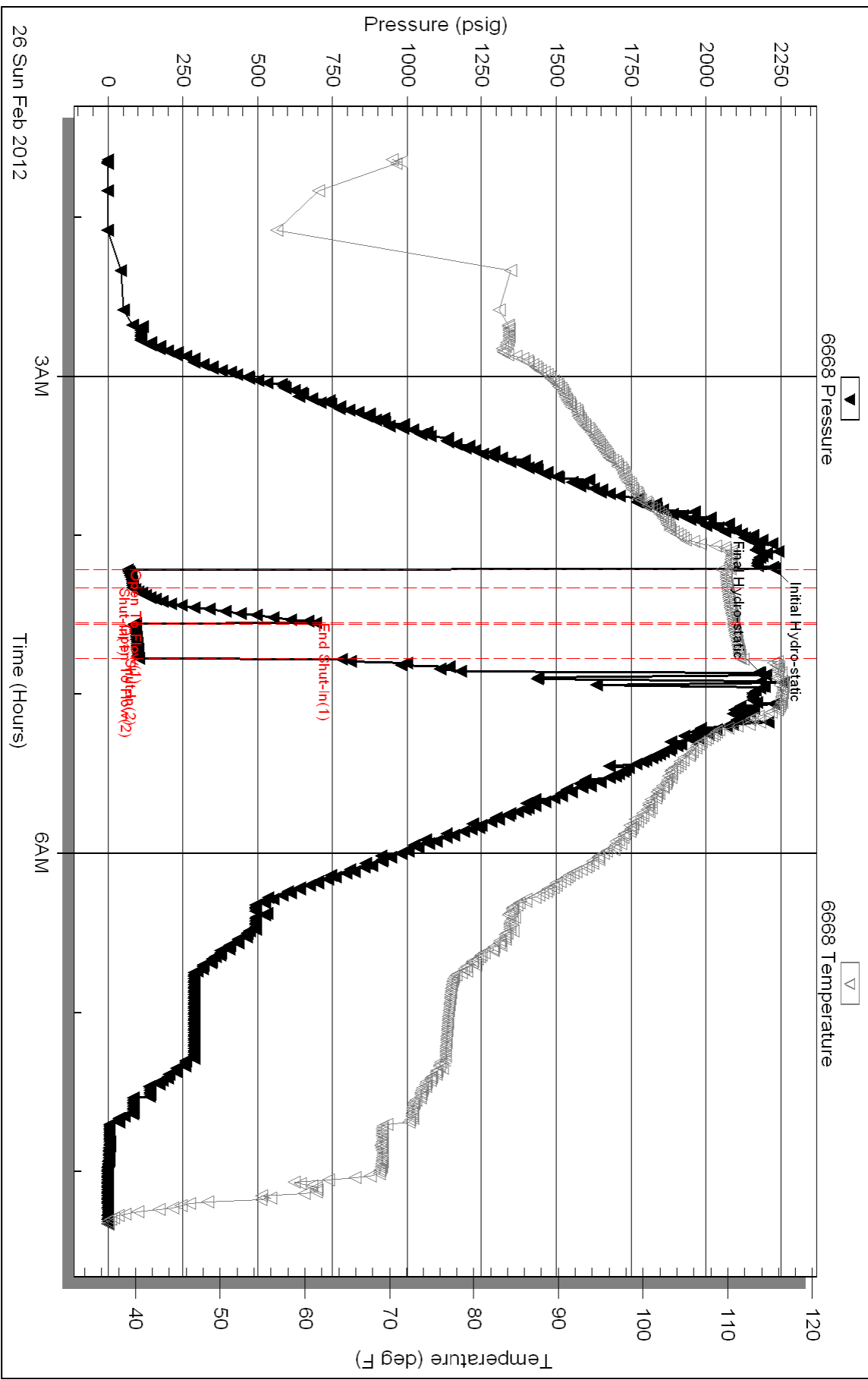
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



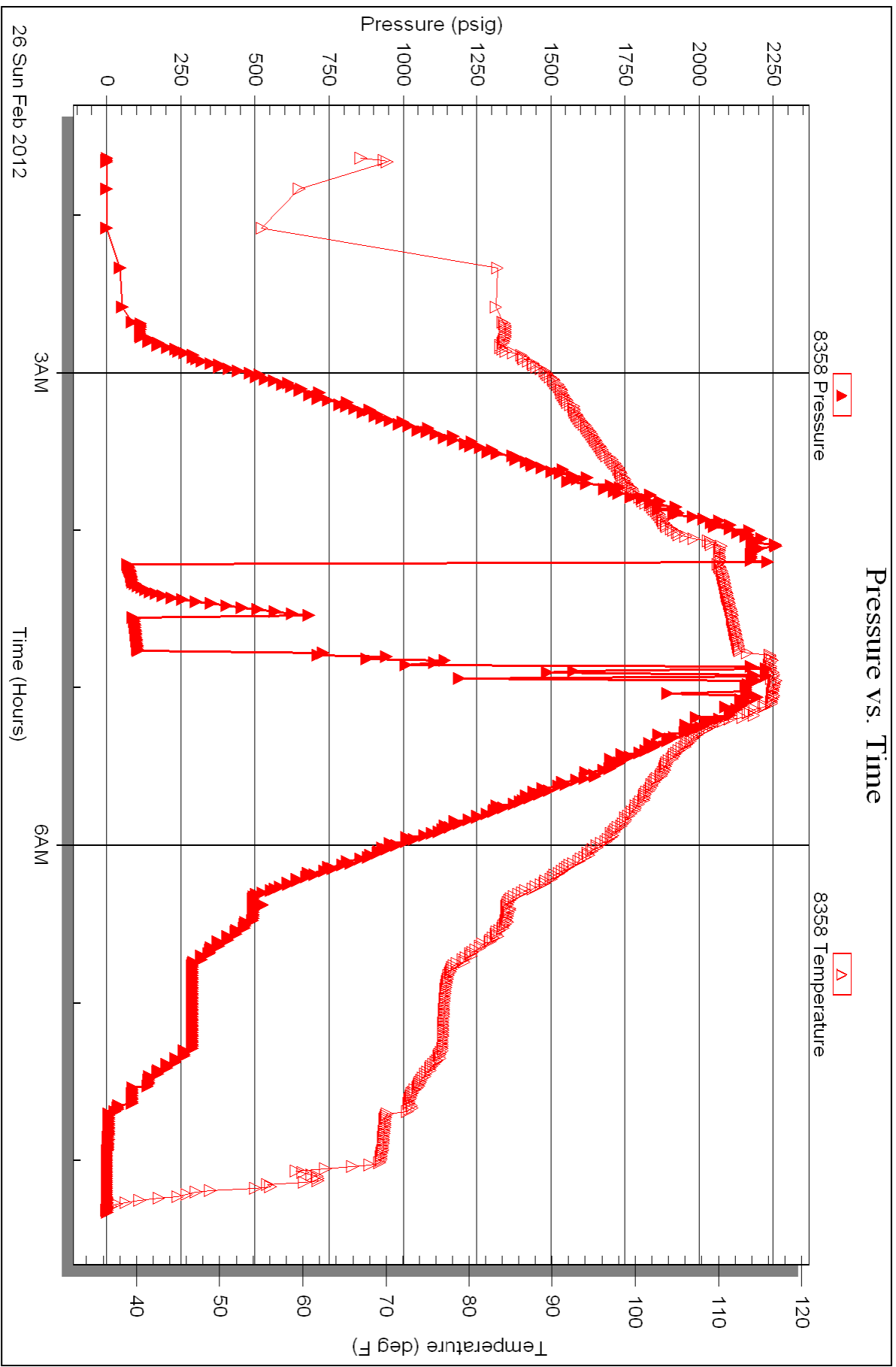
Serial #: 8358

Inside

Larson Engineering LLC

Paris #1-7

DST Test Number: 9



Triobite Testing, Inc

Ref. No: 45114

Printed: 2012.02.29 @ 09:40:30



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 24 2012

Test Ticket

NO. 45106

Well Name & No. PARIS 1-7 Test No. 1 Date 2-19-12
 Company Larson Engineering LLC Elevation 2806 KB 2801 GL
 Address 562 West State Road 4 Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD #3
 Location: Sec. 7 Twp. 19s Rge. 28W Co. LANE State KS

Interval Tested 4087-4113 Zone Tested "F"
 Anchor Length 26 Drill Pipe Run 3933 Mud Wt. 9.0
 Top Packer Depth 4083 Drill Collars Run 251 Vis 6/
 Bottom Packer Depth 4087 Wt. Pipe Run 0 WL 6.8
 Total Depth 4113 Chlorides 3200 ppm System LCM 1
 Blow Description IF!
IS!
FF: MIS RUN
FS!

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total ✓ BHT ✓ Gravity ✓ API RW ✓ @ ✓ ° F Chlorides ✓ ppm

(A) Initial Hydrostatic ✓ Test 1025.00 T-On Location 02:25
 (B) First Initial Flow ✓ Jars 250.00 T-Started 04:19
 (C) First Final Flow ✓ Safety Joint 75.00 T-Open MIS RUN
 (D) Initial Shut-In ✓ Circ Sub NC T-Pulled MIS RUN
 (E) Second Initial Flow ✓ Hourly Standby ✓ T-Out ✓
 (F) Second Final Flow ✓ Mileage 60RT 84 ~~92~~ Comments Hit Bridge
 (G) Final Shut-In ✓ Sampler ✓ going in with
 (H) Final Hydrostatic ✓ Straddle ✓ tool
 Shale Packer ✓ Ruined Shale Packer ✓
 Shale Packer ✓ Ruined Packer ✓
 Extra Packer ✓ Extra Copies ✓
 Extra Recorder ✓ Sub Total 0
 Day Standby ✓ Total 1434
 Accessibility ✓ MP/DST Disc't ✓
 Sub Total 1634.00

Approved By Vernon C. Schrag Our Representative Mike Roberts

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 24 2012

Test Ticket

NO. 45107

Well Name & No. PARIS 1-7 Test No. 2 Date 2-20-12
 Company LARSON Engineering LLC Elevation 2806 KB 2801 GL
 Address 562 West State Rd 4 Olmitz 69564
 Co. Rep / Geo. Vern Schrag Rig HD#3
 Location: Sec. 7 Twp. 99s Rge. 28w Co. LANE State KS

Interval Tested 4226-4245 Zone Tested "I"
 Anchor Length 19' Drill Pipe Run 4056 Mud Wt. 9.4
 Top Packer Depth 4222 Drill Collars Run 151 Vis 67
 Bottom Packer Depth 4224 Wt. Pipe Run Ø WL 6.4
 Total Depth 4245 Chlorides 2600 ppm System LCM 1
 Blow Description IF: Built to 1/2" Blow
IS: No Return Blow
FF: Built to 1" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Free Oil</u>	<u>100</u>			
<u>10</u>	<u>Mud with oil spots</u>			<u>100</u>	

Rec Total 13 BHT 110 Gravity 1 API RW 1 @ 1 °F Chlorides 1 ppm
 (A) Initial Hydrostatic 2058 Test 1225.00 T-On Location 17:45
 (B) First Initial Flow 17 Jars 250.00 T-Started 18:47
 (C) First Final Flow 21 Safety Joint 75.00 T-Open 20:55
 (D) Initial Shut-In 649 Circ Sub NC T-Pulled 22:45
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 12:45
 (F) Second Final Flow 28 Mileage 60 RT = 84.00 Comments _____
 (G) Final Shut-In 677 Sampler _____
 (H) Final Hydrostatic 2003 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 5 Extra Recorder _____ Sub Total Ø
 Initial Shut-In 15 Day Standby _____ Total 1634
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1634.00/-

Approved By Vernon Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 24 2012

Test Ticket

NO. 45108

Well Name & No. PARIS 1-7 BY: _____ Test No. 3 Date 2-21-12
 Company Larson Engineering LLC Elevation 2806 KB 2801 GL
 Address 562 West St. Rd. #4 Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD#3
 Location: Sec. 7 Twp. 19S Rge. 28W Co. LANE State KS

Interval Tested 4246-4268 Zone Tested "5"
 Anchor Length 22 Drill Pipe Run 4087 Mud Wt. 9.4
 Top Packer Depth 4442 Drill Collars Run 151 Vis 67
 Bottom Packer Depth 4246 Wt. Pipe Run Ø WL 6.4
 Total Depth 4268 Chlorides 2600 ppm System LCM 1
 Blow Description IF: BOB in 2 Min
IS: Return Blow Boiled to Surface Blow + Dried in 14 Min.
FF: BOB in 3 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
124	Feet of WCM with oil spots		20	80	
124	Feet of MCW with oil spots		80	20	
523	Feet of MCW with oil spots		90	10	

Rec Total 771 BHT 124 Gravity 1 API RW 258 @ 59.2° F Chlorides 30,000 ppm
 (A) Initial Hydrostatic 2039 Test 1225.00 T-On Location 11:45
 (B) First Initial Flow 111 Jars 250.00 T-Started 12:04
 (C) First Final Flow 202 Safety Joint 75.00 T-Open 14:03
 (D) Initial Shut-In 596 Circ Sub NC T-Pulled 15:08
 (E) Second Initial Flow 229 Hourly Standby _____ T-Out 17:21
 (F) Second Final Flow 374 Mileage 60RT = 84.00 Comments _____
 (G) Final Shut-In 598 Sampler _____
 (H) Final Hydrostatic 1969 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 5 Ruined Shale Packer _____
 Initial Shut-In 15 Ruined Packer _____
 Final Flow 15 Extra Copies _____
 Final Shut-In 30 Sub Total Ø
 Total 1634
 MP/DST Disc't _____
 Sub Total 1634.00/-

Approved By Vernon C Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 24 2012

Test Ticket

NO. 45109

4/10

BY: _____

Well Name & No. PARIS 1-7 Test No. 4 Date 2-22-12

Company LALSON Engineering LLC Elevation 2806 KB 2801 GL _____

Address 562 West St. Rd 4 Olmitz KS 67564

Co. Rep / Geo. Vern Schrag Rig HD# 3

Location: Sec. 7 Twp. 19S Rge. 28W Co. LANE State KS

Interval Tested 4288-4302 Zone Tested "K"

Anchor Length 14 Drill Pipe Run 4117 Mud Wt. 9.0

Top Packer Depth 4284 Drill Collars Run 151 Vis 59

Bottom Packer Depth 4288 Wt. Pipe Run 0 WL 5.2

Total Depth 4302 Chlorides 2600 ppm System LCM 1

Blow Description IF: Blow Built to 8"

IS: No Return Blow

FF: BOB in 9 Min.

FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>mcw with oil spots</u>			<u>90%</u>	<u>10%</u>
<u>213</u>	<u>SW</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 337 BHT 125 Gravity - API RW 1253 @ 60.1° F Chlorides 31,000 ppm

(A) Initial Hydrostatic 2060 Test 1225.00 T-On Location 01:08

(B) First Initial Flow 30 Jars 250.00 T-Started 01:42

(C) First Final Flow 94 Safety Joint 75.00 T-Open 03:40

(D) Initial Shut-In 609 Circ Sub NC T-Pulled 04:45

(E) Second Initial Flow 102 Hourly Standby _____ T-Out 06:33

(F) Second Final Flow 179 Mileage 60RT 84.00 Comments _____

(G) Final Shut-In 608 Sampler _____

(H) Final Hydrostatic 2061 Straddle _____ Ruined Shale Packer _____

Initial Open 5 Shale Packer _____ Ruined Packer _____

Initial Shut-In 15 Extra Packer _____ Extra Copies _____

Final Flow 15 Extra Recorder _____ Sub Total 0

Final Shut-In 30 Day Standby _____ Total 11634

Accessibility _____ MP/DST Disc't _____

Sub Total \$11634.00

Approved By Vernon C Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 24 2012

Test Ticket

NO. 45110

4/10

BY: _____

Well Name & No. PARIS 1-7 Test No. 5 Date 2-22-12
 Company LARSON Engineering LLC Elevation 2806 KB 2801 GL
 Address 562 West St Rd 4 Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD#3
 Location: Sec. 7 Twp. 19S Rge. 28W Co. LANE State KS

Interval Tested 4315-4332 Zone Tested Middle Creek
 Anchor Length 17 Drill Pipe Run 4147 Mud Wt. 9.2
 Top Packer Depth 4311 Drill Collars Run 151 Vis 48
 Bottom Packer Depth 4315 Wt. Pipe Run Ø WL 5.2
 Total Depth 4332 Chlorides 4000 ppm System LCM 1
 Blow Description IF: Built to 6" Blow
IS: No Return Blow
FF: BOB in 6 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>Feet of Free oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>186</u>	<u>Feet of gco</u>	<u>20</u>	<u>80</u>	<u>0</u>	<u>0</u>
<u>61</u>	<u>Feet of OM CW</u>	<u>10</u>	<u>0</u>	<u>60</u>	<u>30</u>
<u>61</u>	<u>Feet of OWCm</u>	<u>10</u>	<u>0</u>	<u>10</u>	<u>80</u>

Rec Total 432 BHT 126 Gravity 35 API RW .402 @ 42 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic 2068 Test 1225.00% T-On Location 19:30
 (B) First Initial Flow 21 Jars 250.00% T-Started 20:11
 (C) First Final Flow 69 Safety Joint 75.00% T-Open 22:02
 (D) Initial Shut-In 640 Circ Sub NC T-Pulled 23:52
 (E) Second Initial Flow 79 Hourly Standby _____ T-Out 02:39
 (F) Second Final Flow 176 Mileage 60RT = 84.00% Comments _____
 (G) Final Shut-In 638 Sampler _____
 (H) Final Hydrostatic 2051 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total \$1634.00/-

Initial Open 5
 Initial Shut-In 15
 Final Flow 30
 Final Shut-In 60

Sub Total Ø
 Total 1634
 MP/DST Disc't _____

Approved By Vernon C Schrag Our Representative Mike Roberts

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVE Test Ticket

FEB 28 2012

NO. 45111

4/10

BY: _____

Well Name & No. PARIS 1-7 Test No. 6 Date 2-23-12
 Company Harson Engineering LLC Elevation 2806 KB 2801 GL
 Address 562 West St. Rd #4 Olathe KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD#3
 Location: Sec. 7 Twp. 19s Rge. 28W Co. LANE State KS

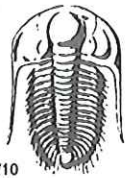
Interval Tested 4332-4340 Zone Tested "L"
 Anchor Length 8' Drill Pipe Run 4183 Mud Wt. 9.0
 Top Packer Depth 4328 Drill Collars Run 151 Vis 59
 Bottom Packer Depth ~~4340~~ 4332 Wt. Pipe Run 0 WL 6.0
 Total Depth 4340 Chlorides 3300 ppm System LCM 1
 Blow Description IF: Built to 6" Blow
IS: No Return Blow
FF: Built to 7" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>gcom</u>	<u>5</u>	<u>45</u>	<u>50</u>	<u>0</u>
<u>62</u>	<u>gcom</u>	<u>10</u>	<u>50</u>	<u>40</u>	<u>0</u>
<u>121</u>	<u>gcmo</u>	<u>20</u>	<u>60</u>	<u>20</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 248 BHT 111 Gravity 1 API RW 1 @ 1 ° F Chlorides 1 ppm
 (A) Initial Hydrostatic 2066 Test 1225.00 T-On Location 11:55 Am
 (B) First Initial Flow 90 Jars 250.00 T-Started 12:13
 (C) First Final Flow 99 Safety Joint 75.00 T-Open 13:53
 (D) Initial Shut-In 599 Circ Sub NL T-Pulled 15:43
 (E) Second Initial Flow 100 Hourly Standby _____ T-Out 17:48
 (F) Second Final Flow 118 Mileage 60 RT = 84.00 Comments _____
 (G) Final Shut-In 608 Sampler _____
 (H) Final Hydrostatic 2040 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 5
 Initial Shut-In 15
 Final Flow 30
 Final Shut-In 60
 Sub Total 0
 Total 1634
 MP/DST Disc't _____

Approved By Vernon C Schrag Our Representative Mike Roberts
 Sub Total # 1634.00



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 28 2012

Test Ticket

NO. 45112

Well Name & No. Paris 1-7 Test No. 7 Date 2-24-12
 Company Larson Engineering INC Elevation 2806 KB 2801 GL
 Address 562 West St. Rd #4 Olathe KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD#3
 Location: Sec. 7 Twp. P9S Rge. 28W Co. LANE State KS

Interval Tested 4368-4405 Zone Tested Pleasanton-Marmaton
 Anchor Length 37 Drill Pipe Run 4211 Mud Wt. 9.0
 Top Packer Depth 4464 Drill Collars Run 151 Vis 59
 Bottom Packer Depth 4468 Wt. Pipe Run Ø WL 6.0
 Total Depth 4405 Chlorides 3300 ppm System LCM 1
 Blow Description IF: Weak Surface Blow
IS: No Return Blow
FF: Weak Surface Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud with oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 111 Gravity / API RW / @ / ° F Chlorides / ppm

(A) Initial Hydrostatic <u>2112</u>	<input checked="" type="checkbox"/> Test <u>1225.00/-</u>	T-On Location <u>07:30</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250.00/-</u>	T-Started <u>08:38</u>
(C) First Final Flow <u>14</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00/-</u>	T-Open <u>10:40</u>
(D) Initial Shut-In <u>40</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>12:30</u>
(E) Second Initial Flow <u>14</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:23</u>
(F) Second Final Flow <u>16</u>	<input checked="" type="checkbox"/> Mileage <u>60 RT = 84.00</u>	Comments
(G) Final Shut-In <u>21</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2082</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>250.00/-</u>	<input type="checkbox"/> Ruined Packer
Initial Open <u>5</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>4884.00/-</u>	

Approved By Vern Schrag Our Representative Mike Roberts

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 28 2012

Test Ticket

NO. 45113

4/10

BY: _____

Well Name & No. PARIS 1-7 Test No. 8 Date 2-24-12
 Company Larson Engineering Inc Elevation 2806 KB 2801 GL
 Address 562 West St. Rd #4 Olmitz KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD#3
 Location: Sec. 7 Twp. 19S Rge. 28W Co. LANE State KS

Interval Tested 4404-4455 Zone Tested Marmaton
 Anchor Length 51 Drill Pipe Run 4241 Mud Wt. 9.0
 Top Packer Depth 4400 Drill Collars Run 151 Vis 59
 Bottom Packer Depth 4404 Wt. Pipe Run 0 WL 6.0
 Total Depth 4455 Chlorides 3300 ppm System LCM 1

Blow Description IF: Weak Surface Blow
IS: No Return Blow
FF: Weak Surface Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Feet of Mud.</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 113 Gravity / API RW / @ / ° F Chlorides / ppm

(A) Initial Hydrostatic	<u>2152</u>	<input checked="" type="checkbox"/> Test	<u>1225.00/-</u>	T-On Location	<u>22:30</u>
(B) First Initial Flow	<u>32</u>	<input checked="" type="checkbox"/> Jars	<u>250.00/-</u>	T-Started	<u>22:39</u>
(C) First Final Flow	<u>33</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75.00/-</u>	T-Open	<u>02:50</u>
(D) Initial Shut-In	<u>51</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NL</u>	T-Pulled	<u>03:55</u>
(E) Second Initial Flow	<u>33</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>06:15</u>
(F) Second Final Flow	<u>34</u>	<input checked="" type="checkbox"/> Mileage <u>60 RT</u>	<u>84.00/-</u>	Comments	
(G) Final Shut-In	<u>46</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2105</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open 5 Shale Packer 250.00/- Ruined Packer
 Initial Shut-In 15 Extra Packer Extra Copies
 Final Flow 15 Extra Recorder Sub Total
 Final Shut-In 30 Day Standby Total
 Accessibility MP/DST Disc't
 Sub Total 1884.00/-

Approved By Vernon Schrag Our Representative Mike Robot

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 28 2012

Test Ticket

NO. 45114

4/10

BY: _____

Well Name & No. PARIS 1-7 Test No. 9 Date 2-25-12

Company Larson Engineering INC Elevation 2806 KB 2801 GL

Address 562 West St. Rd #4 Olmitz KS 67564

Co. Rep / Geo. Vern Schrag Rig HD #3

Location: Sec. 7 Twp. 19S Rge. 28W Co. LANE State KS

Interval Tested 4454-4567 Zone Tested ~~Paris~~ Pawnee

Anchor Length 113 Drill Pipe Run 4309 Mud Wt. 9.3

Top Packer Depth 4450 Drill Collars Run 151 Vis 58

Bottom Packer Depth 4454 Wt. Pipe Run 0 WL 6.4

Total Depth 4567 Chlorides 3000 ppm System LCM 1

Blow Description IF: Built to 2" Blow
IS: No Return
FF: Packer failure

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Feet of mud with oil spots</u>			<u>100</u>	
<u>895</u>	<u>Feet of mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 900 BHT 111 Gravity 1 API RW 1 @ 1 ° F Chlorides 1 ppm

(A) Initial Hydrostatic 2227 Test 1225.00/- T-On Location 12:25 AM

(B) First Initial Flow 65 Jars 250.00/- T-Started 01:38

(C) First Final Flow 82 Safety Joint 75.00/- T-Open 04:12

(D) Initial Shut-In 694 Circ Sub NC T-Pulled 04:55

(E) Second Initial Flow 84 Hourly Standby _____ T-Out 08:19

(F) Second Final Flow 102 Mileage 60 RT = 84.00/- Comments Mileage x 2

(G) Final Shut-In Pulled test Sampler 1100 Load tools

(H) Final Hydrostatic 2180 Straddle _____ Ruined Shale Packer 350.00

Shale Packer 250.00/- Ruined Packer _____

Initial Open 5 Extra Packer _____ Extra Copies _____

Initial Shut-In 15 Extra Recorder _____ Sub Total 350

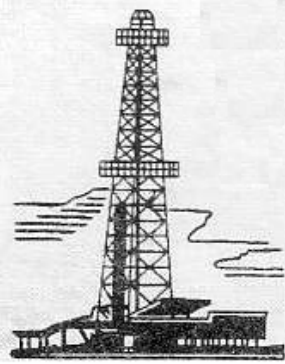
Final Flow 21 min 30 packer Day Standby _____ Total 2318

Final Shut-In pull 60 failure Accessibility _____ MP/DST Disc't _____

Sub Total 19108

Approved By Vern Schrag Our Representative Mike Rohut

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



Scale 1:240 (5"=100') Imperial

Well Name: Paris #1-7
Location: NE SE SW NW SEC 07-19S-28W
Licence Number: API: 15-101-22345
Spud Date: February 13, 2012
Surface Coordinates: 2030' FNL & 1200' FWL

Region: Lane Co., Kansas
Drilling Completed: February 27, 2012

Bottom Hole Vertical Hole
Coordinates:
Ground Elevation (ft): 2799' K.B. Elevation (ft): 2806'
Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4700'
Formation: Mississippi
Type of Drilling Fluid: Chemical Premix (Displaced)

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR:

Company: Larson Engineering, Inc.
Address: 562 West State Road 4
Olmitz, KS 67564-8561

DRILLING CONTRACTOR:

H. D. Drilling, LLC, Rig #3

DP 4.5" XH (16.6#); DC 6.25" x 2-1/4" (ave) x 574.87', Kelly + Bit 41.30', Tool Joint 5.5" ; Bit: JZ, 7-7/8", jets 15-15-15; rpm 80, WOB 35k; Kelly Bushing 7' above ground level; LeWayne "Lew" Tresner (tool pusher).

Set 8-5/8" at 261' (20#)

CIRCULATION SYSTEM:

Pump: EMSCO D-300, duplex, 6 x 14 x 2, SPP: 625-800 psi; Pump rate was increased from about 56 spm to 61 spm after 4245'. Chemical, premix, displaced about 3600'; Morgan Mud, Inc., McCook, Nebraska, David Lines, Cade Lines.

GAS DETECTION SYSTEM:

USB-1208LS-41, portable hot-wire, Delphian 3.0 volt catalytic bead combustible gas detector.

OPEN HOLE LOGS:

DN (DGA), DI (SP) (Run-1); ML (Run-2); 5" detail LTD-3600; 2" DI to surface casing; No Sonic Log; LogTech-Pioneer Wireline, Hays, KS, Chris Desaire,

Log total depth (4700') was flat to rotary total depth (4700'), however, a two or four foot uphole correction of rotary measurements appears to be required to bring most formation tops into alignment with the logs.

COMPLETION:

Oil Well

7AM DAILY ACTIVITY:

02/13: MIRT, SPUD
02/14: 264' WOC
02/15: 1702' Drilling
02/16: 2815' Drilling
02/17: 3415' Drilling, Call 5:54 am 3400'
02/18: 3895' Drilling
02/19: 4113' DST #1
02/20: 4245' Stuck in hole
02/21: 4255' CFS
02/22: 4302' DST-4
02/23: 4333' Drilling
02/24: 4405' DST-7
02/25: 4455' DST-8
02/26: 4567 DST-9, RTD 10:02 pm
02/27: Released 7:15 am

DRILL STEM TEST #1:

Lansing "F": 4087-4113 (26'): Hit bridge when going in hole with 28 stands still on bank, This after pulling tight with 40 stands on bank when tripping out of hole for test. Trilobite Testing, Inc. Scott City, KS, Mike

DRILL STEM TEST #2:

Kans. City "I": 4226-4245 (19'): Weak blow incr 1/2" IFP, no RB, weak incr 1" FFP, no RB; Times: 5-15-30-60; Recovery: 13' TF, 3' Oil (100%O), 10' mud with oil spots (100%M); HP: 2058-2003, SIP: 649-677, FP: 17-21, 22-28; BHT: 110 F; dual packers, jars, joints, 151' DC; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #3:

Kans. City "J": 4246-4268 (22'): BOB 2 min IFP, surf RB died 14 min ISIP, BOB 3 min FFP, no RB; 5-15-15-30; Recovery: 771' TF, 124' WCM with oil spots (20%W, 80%M), 124' MCW with oil spots (20%M, 80%W), 523' MCW with oil spots (10%M, 90%W, R_w 0.258 at 59 F, chl 30k); HP: 2039-1969, SIP: 596-598, FP: 111-202, 229-374; BHT: 126 F, dual packers, jars, joints, 151' DC; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #4:

Kans. City "K": 4288-4302 (14'): weak incr blow to 8" IFP, no RB, BOB 9 min FFP, no RB; 5-15-15-30; Recovery: 337' TF, 124' MCW with oil spots (10%M, 90%W), 213' SW (100%W, R_w 0.253 at 60 F, chl 31k); HP: 2060-2061, FP: 30-94, 102-179, BHT 125 F; dual packers, jars, joints, 151' DC; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #5:

Kans. City Middle Creek & Lower "K": 4315-4332 (17'): 6" incr blow IFP, no RB, BOB 6 min FFP, no RB; 5-15-30-60; Recovery: 432' TF, 124' Oil (100% O, 35 grav.), 186' GCO (20%G, 80%O), 61' OMCW (10%O, 30%M, 60%W, Rw 0.402 at 42 F, chl 32k), 61' OWCM (10%O, 10%W, 80%M); HP: 2068-2051, SIP: 640-638, FP: 21-69, 79-176; BHT: 126 F; dual packers, jars, joints, 151' DC; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #6:

Kans. City "L": 4332-4340 (8'): incr 6" blow IFP, no RB, incr 7" FFP, no RB; 5-15-15-30; Recovery: 248' TF, 65' GCMO (5%G, 45%O, 50%M), 62' GCMO (10%G, 40%M, 50%O), 121' GCMO (20%G, 20%M, 60%O); HP: 2066-2040, SIP: 599-608, FP: 90-99, 100-118; BHT: 111 F; lost about 10' mud when packers were set; ran dual packers, jars, joints, 151' DC; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #7:

Pleasanton & Top of Marmaton: 4368-4405 (37'): weak surf blow IFP, no RB, weak surf blow FFP, no RB; 5-15-30-60; Recovery: 2' mud w/ oil spots; HP: 2112-282, SIP: 40-71, FP: 15-14, 14-16; BHT: 111 F; dual packers (w/shale packer), jars, joints, 151' DC; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

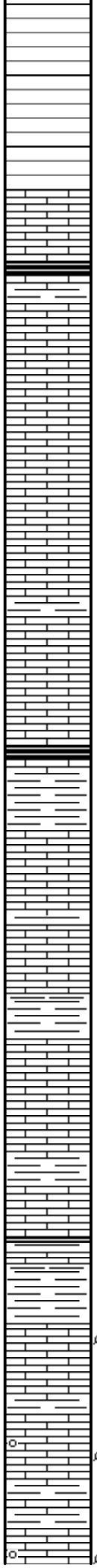
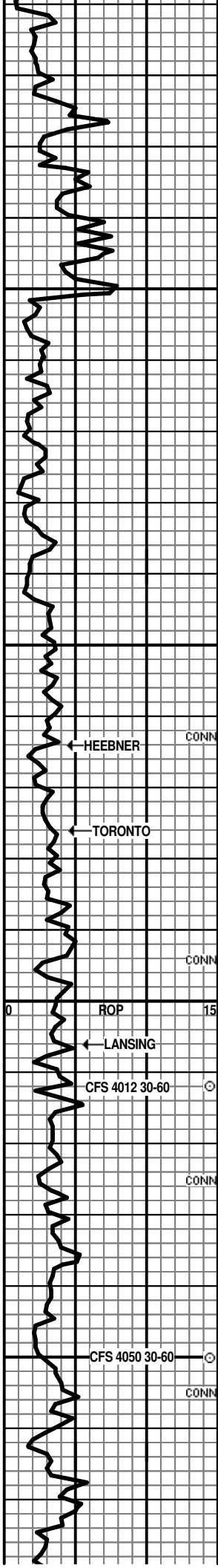
DRILL STEM TEST #8:

Marmaton (Altamont): 4404-4455 (51'): weak surf blow both flow periods, no RB; 5-15-15-30; Recovery: 5' mud (no show); HP: 2152-2105; SIP: 51-46, FP: 32-33, 33-34; BHT: 113 F; dual packers (w/shale packer), jars, joints, 151' DC; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

DRILL STEM TEST #9:

Lower Altamont, Ft. Scott: 4454-457 (113'): weak incr 2" blow IFP, no RB, incr blow 5", packer failure 21 min FFP, 5-15-21-TOH, Recovery: 900' TF, 5' mud w/oil spots, 895' mud; HP: 2227-2180, SIP: 694, FP: 65-82, 86-102, BHT: 111 F, dual packers (w/shale packer), jars, joints, 151' DC; Trilobite Testing, Inc., Scott City, KS, Mike Roberts.

ROP ROP (min/ft) _____		DST	Lithology	Porosity and Show Depth	Geological Descriptions	Total Gas TG (units) _____	
0	15					0	200
START 10' WET SAMPLES				3800	ANHYDRITE 2144 (+662) B/ANHY 2174 (+632) LS: lt-md brown, tan; vf-xtal; drab; sli fos; scattere pin point & fine vug porosity; N.S.	REFERENCE LOG: RITCHIE EXPLORATION, INC., #1 H. - THOMAS, NE NE SW SEC 7-19S-28W.	
DIGITAL ROP				3850	Shale: gray, greenish; soft; calcareous in part; marly; LS: lt-md brown; vf-xtal; dense; sli cherty; poor apparent porosity; N.S. LS: lt-md grayish brown, vf-xtal; dense; no visible porosity; N.S. LS: lt-md brown; vf-xtal; rough textured; fair vug porosity; N.S.		



3900

3950

4000

4050

LS: lt-md brown; vf-xtal; sli fos; scattered vug porosity; N.S.

LS: lt-brown; mic-vf xtal; dense; no visible porosity; N.S.

LS: lt-brown; vf-xtal; scatter vug porosity; N.S.

LS: lt brown; vf-xtal; dense; sli chalky in part; crinoids; poor apparent porosity; N.S.

LS: lt-md brown; vf-xtal; rough textured; fos in part; scattered vug porosity; N.S.

LS: lt-brown; vf-xtal; chalky in part; poor apparent porosity; N.S.

LS: lt-md brown; vf-xtal; minor white, opa q chert; rough; scatter vug porosity; N.S.

LS: as above;

LS: md gray & brown, mottled; vf-xtal; shaley in part; fos; poor apparent porosity; N.S.

HEEBNER 3964 (-1156)

Shale: black; carbon; trc 3980, incr 3990.

Shale: green, gray; silty in part;

LS: white, lt brown; mic-vf xtal; smooth; dense to chalky in part; poor apparent porosity; N.S.

LS: as above;

LANSING 4006 (-1200)

LS: v-lt brown; vf-xtal; dense, platey oolite; no visible porosity; no shows; 4012-30.

LS: white, lt brown; mic-vf xtal; dense to chalky in part; no visible porosity; N.S.

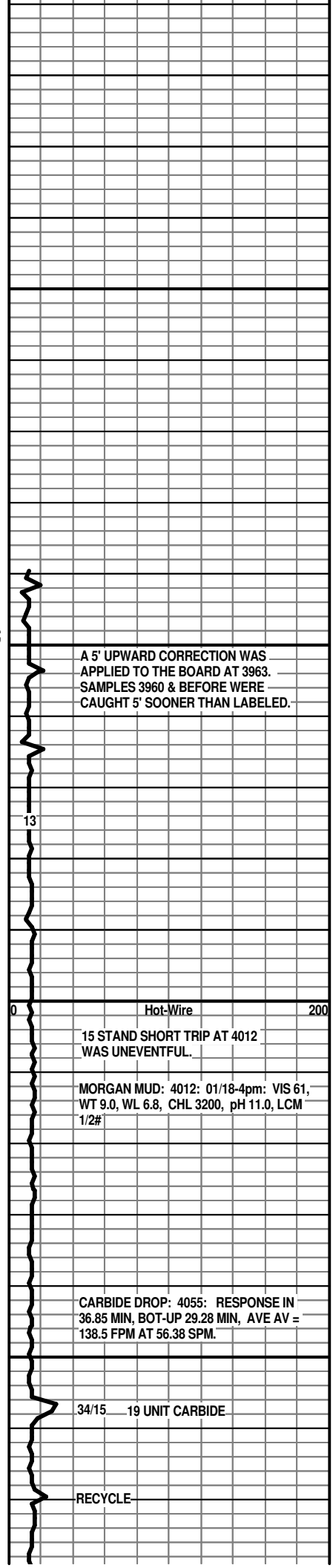
LS: white, lt-med brn; mic-vf xtal; sli fos; dense to chalky in part; N.S.

Shale: gray, w/lime fossils, free crinoids;

LS: white, v-lt brown; vf-xtal; white, opa q chert; mostly dense but some md-crs vug porosity; N.S. 4050-60.

LS: lt brown; vf-xtal; fine-med oolite with scattered oomoldic porosity; N.S.

LS: as above but seems more chalky in part;



A 5' UPWARD CORRECTION WAS APPLIED TO THE BOARD AT 3963. SAMPLES 3960 & BEFORE WERE CAUGHT 5' SOONER THAN LABELED.

Hot-Wire

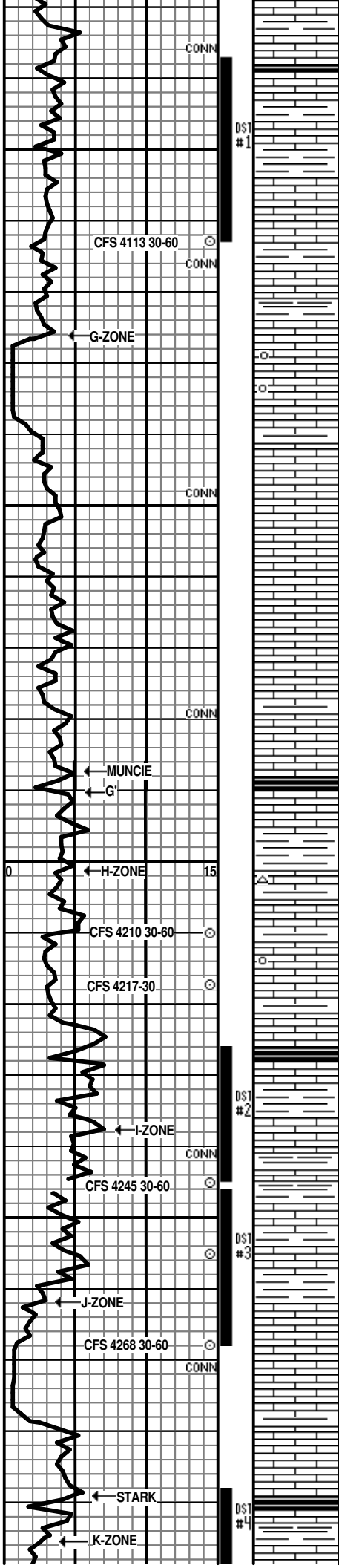
15 STAND SHORT TRIP AT 4012 WAS UNEVENTFUL.

MORGAN MUD: 4012: 01/18-4pm: VIS 61, WT 9.0, WL 6.8, CHL 3200, pH 11.0, LCM 1/2#

CARBIDE DROP: 4055: RESPONSE IN 36.85 MIN, BOT-UP 29.28 MIN, AVE AV = 138.5 FPM AT 56.38 SPM.

34/15 19 UNIT CARBIDE

RECYCLE



4100
 LS: It brown; vf-xtal; dense; no visible porosity; N.S.
 LS: It brown; vf-xtal; fine oolite; trc tight int ool porosity w/dk brn spotted stain; few micro-drops after crushing; no odor; 4113-stop.

4150
 LS: It-brown; vf-xtal; trace pin point vug porosity w/spotted dk brn stain & few micro- drops after crushing; no odor; 4113-30, 60.

4150
 LS: It-brown; vf-xtal; fair-good med oomoldic porosity; N.S. 4150.
 LS: It brown; vf-xtal; oomoldic as abv; incr soft white chalk; 4160.

4150
 LS: It brown, tan; mic-vf xtal; dense; smooth; no visible porosity; N.S.

4150
 LS: It-brown; vf-xtal; w/ mic-xtal, soft, white chalk; no apparent porosity; N.S.

4150
 LS: It-med brown; vf-xtal; dense; no visible por; N.S.

4200
 LS: It-med gray; vf-xtal; dense; no vis por; N.S. 4200.

MUNCIE CREEK 4188 (-1382)
 Shale: black; carbon; trace 4200 after 50 min.
 LS: md-dk brown w/few dk gray ~ blk grains & lt-dk brn fos grains; vf-xtal; dense; no vis por; N.S. 4210.

4200
 LS: even lt-brown; mic-vf xtal; mostly dense; minor tan-brn opa q chert; trc finely ool & poor oom por; N.S. 4210-30,60.

4200
 LS: even lt brown; vf-xtal; oomoldic to chalky in part; N.S. 4217-30, white wash 4220.

4200
 LS: even lt-md grayish-brn; vf-xtal; dense; sli fos-frag; no visible porosity; N.S. 4240.

4200
 Shale: black; carbon; trc 4240.

4200
 LS: dk brown; vf-xtal; trc fos; dense; no vis porosity; N.S. 4240.

4250
 I-Zone: LS: It brn, vf-xtal; trc grain suptd md-oolite w/tight int ool por & dk brn stain, crush sli show oil; also several dk brn dense lime w/fine vug & micro-drops on break; sptd stains dry; faint odor at stove; 4245-30, incr 60.

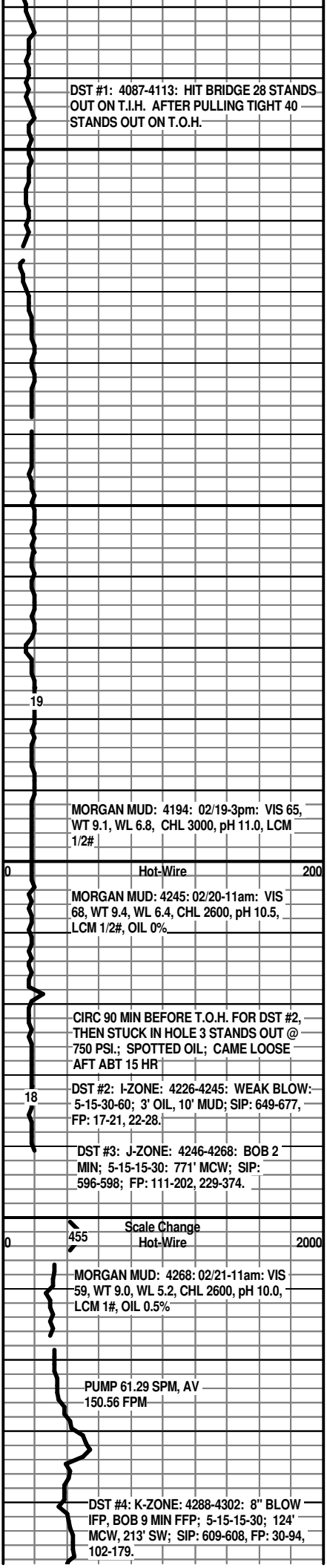
4250
 LS: It brn; vf-xtal; trace tight int gran & fine vug w/spotted stain; similar to above but decr; 4355-60.

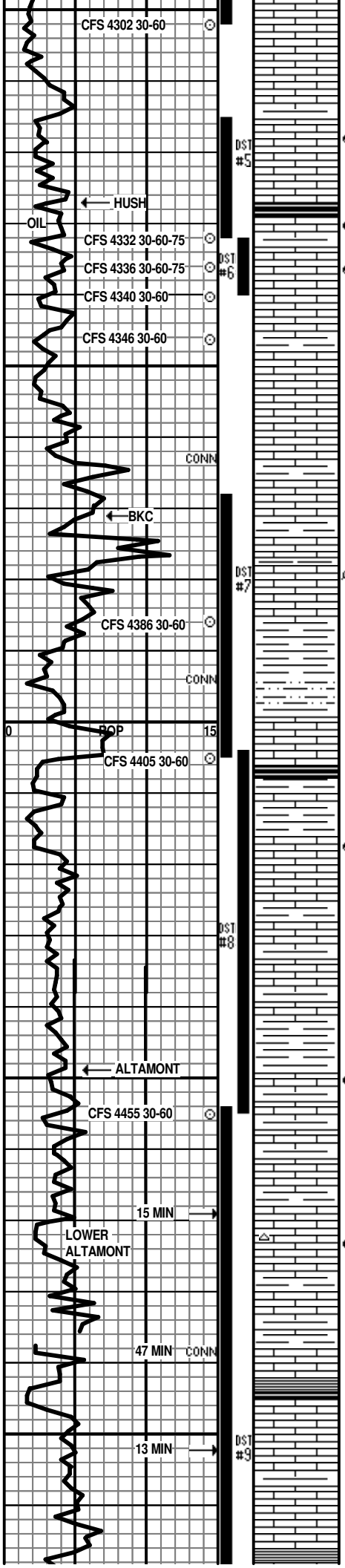
4250
 J-zone: LS: It-brown; vf-xtal; fair-good oom porosity; 5-10% of por w/spotted stain, sli show oil & faint odor; 4268-60.

4250
 LS: It gray, off-white; vf-xtal; chalky in part; poor apparent porosity; N.S.

STARK SH 4289 (-1488)
 Shale: black; carbon; good expression 4302-30.
 LS: dk grayish-brown; vf-xtal; dense; N.S.

4250
 K-zone: LS: It grayish-brown; vf-xtal; oolitic-oom in





4300
 part; poor-fair oomoldic & vugular porosity; spotted stain & fluor; some soft fluor chalk; sli show oil; no odor; 4302-60.

LS: lt-gray, lt brn; vf-xtal; chalky; white opa chert; trc vug por w/spotted lt brn stain; no vis oil; no odor; 4330, 4332-30.

HUSHPUCKNEY 4327 (-1521)
 Shale: black; carbon; 4332-60.
 Mid Crk LS: lt-med brn; most vf-xtal, trc m-c euhedral druse w/stain, trc free crs anhedral calcite; various f-m stained vugs; sli show oil; no odor; spotted bright fluor; 4332-60.
 L-zone: LS: lt brn; vf-xtal; trc med oomoldic por & trc med druse w/sptd stain; no visible oil; 4336-60 & 4340-60. chalky in part; sli ool; N.S. 4346-60.

4350
 LS: off-white w/lt brn grains; mic-vf xtal; chalky; trc imbedded calcites; poor apparent porosity; N.S.

LS: md-brown; vf-xtal; granular in part; no apparent porosity; N.S. 4380.

LS: dk-brown; mic-vf-xtal; trc blu-smokey chert; granular in part; dense; N.S. 4386.

LS: lt-grayish brn; vf-xtal; mostly dense; trc fine oom porosity; N.S.

Shale & Calc. Silst.: gray, green; coarse pyrites;

MARMATON 4400 (-1594)
 LS: lt grayish brown; mic-vf xtal; dense; smooth; no visible porosity; N.S.

4400
 LS: lt-md brn; vf-xtal; fos, possible coral; scattered fine-med vug porosity w/spotted stains; no live oil but will cut; 4430.

LS: lt-gray; mic-vf xtal; chalky in part; poor apparent porosity; N.S. starts 4440.

4450
 LS: as above.

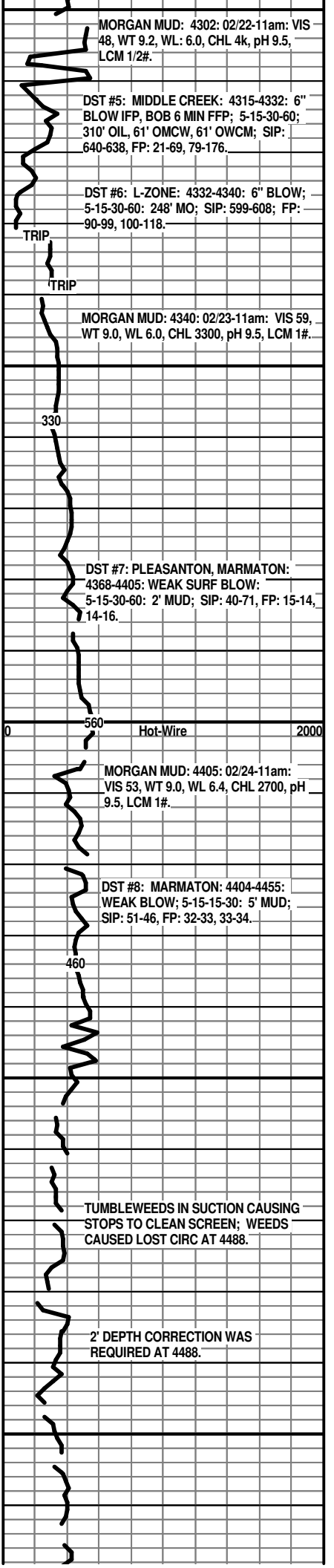
LS: lt-gray, lt brn; vf-xtal; tough; f-m vug por; mostly sli show oil, trc fair show; no odor; 4455-60.

4450
 LS: lt-md grayish brown; vf-f xtal; sli fos; trc orange-red chert; fine-med vug porosity w/sli druse & spotted to sat med brn stain; sli show oil; no odor; trc 4480, incr 4490.

LS: lt grayish brown; vf-xtal; tan-orange semi-trans chert; orange red brach; poor apparent porosity; N.S. 4500.

PAWNEE 4496 (-1690)
 LS: mostly md-brown, some white; mic-vf xtal; dense; w/gray-white semi-opaq chert; no visible porosity; N.S. 4510.

4500
 LS: lt-brown, lt gray; mic-vf xtal; dense; no visible porosity; N.S.



MORGAN MUD: 4302: 02/22-11am: VIS 48, WT 9.2, WL: 6.0, CHL 4k, pH 9.5, LCM 1/2#.

DST #5: MIDDLE CREEK: 4315-4332: 6" BLOW IFF, BOB 6 MIN FFP; 5-15-30-60; 310' OIL, 61' OMCW, 61' OWCM; SIP: 640-638, FP: 21-69, 79-176.

DST #6: L-ZONE: 4332-4340: 6" BLOW; 5-15-30-60: 248' MO; SIP: 599-608; FP: 90-99, 100-118.

MORGAN MUD: 4340: 02/23-11am: VIS 59, WT 9.0, WL 6.0, CHL 3300, pH 9.5, LCM 1#.

4330

TRIP

TRIP

DST #7: PLEASANTON, MARMATON: 4368-4405: WEAK SURF BLOW; 5-15-30-60: 2' MUD; SIP: 40-71, FP: 15-14, 14-16.

4400
 Hot-Wire

MORGAN MUD: 4405: 02/24-11am: VIS 53, WT 9.0, WL 6.4, CHL 2700, pH 9.5, LCM 1#.

DST #8: MARMATON: 4404-4455: WEAK BLOW; 5-15-15-30: 5' MUD; SIP: 51-46, FP: 32-33, 33-34.

4460

TUMBLEWEEDS IN SUCTION CAUSING STOPS TO CLEAN SCREEN; WEEDS CAUSED LOST CIRC AT 4488.

2' DEPTH CORRECTION WAS REQUIRED AT 4488.

DST #9: LOWER ALTAMONT, FT. SCOTT:
4454-4567: INCR BLOW 2" IFP, PACKER
FAILED FFP, 5-15- 21-TOH; 900' MUD,
SIP: 694, FP: 65-82, 86-102.

LS: lt-brown; vf-xtal; trc tight int oolite porosity w/lt brown stain; no visible oil; no odor; trc oom w/N.S., 4540.

Shale: black; carbon; 4560.

FT. SCOTT 4546 (-1740)

LS: md-dk brown; vf-xtal; med grain suptd oolite; trc gray-brn ool chert; dense; N.S.

LS: lt grayish-brn; vf xtal; sli chalky & shaley; gray, opa q chert; poor apparent porosity; N.S.

LS: lt-brown; vf-xtal; sli chalky; fine vug porosity w/ spotted bright fluor, stain & sli show oil; no odor; no dry stain; 4567-60.

CHEROKEE SH 4569 (-1763)

LS: lt-brown; mic-vf xtal; dense to chalky in part; no visible porosity; N.S.

LS: lt grayish-brn; vf-xtal; trace oomoldic por w/sli stain; no visible oil; 4600.

LS: grayish-brn, dk brn, mixed; dense; no apparent porosity; N.S. also shales

LS & Shales as above.

LS: lt-brn; vf-xtal; packed fine oolite w/tight int ool por & black stain; along w/gray lime w/ f-m vug por & black stain; sli show oil; faint odor?; 4620-60.

Sand: fine quartz; angular clusters; black int grain stain w/ sli show oil; no odor; 4620-60.

Congl: weathered chert, various lime & siltst; speckled black stains; no live oil; no odor; 4644-30, 60.

EROS. MISS. 4636 (-1830)

(Corrected Top)

MUCH SHALE & VARIOUS LIME IN SAMPLES DOWN THRU 4650.

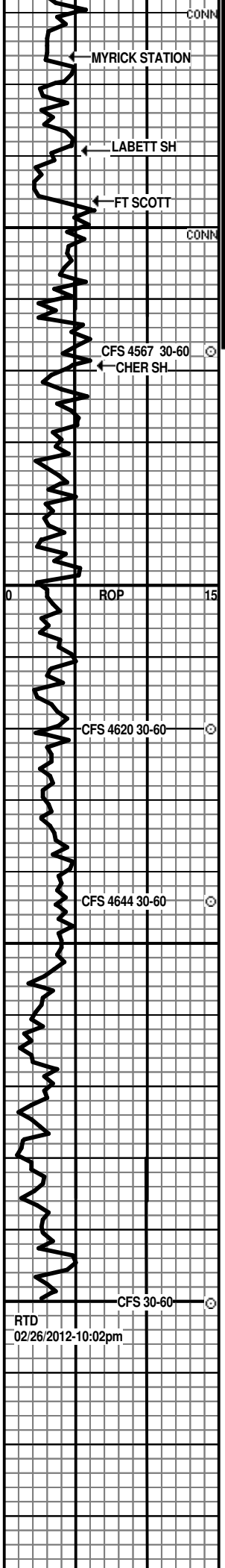
LS: lt-brown, cream; vf-xtal; chalky and/or oolitic in part; no visible porosity; N.S. 4660

LS: as above.

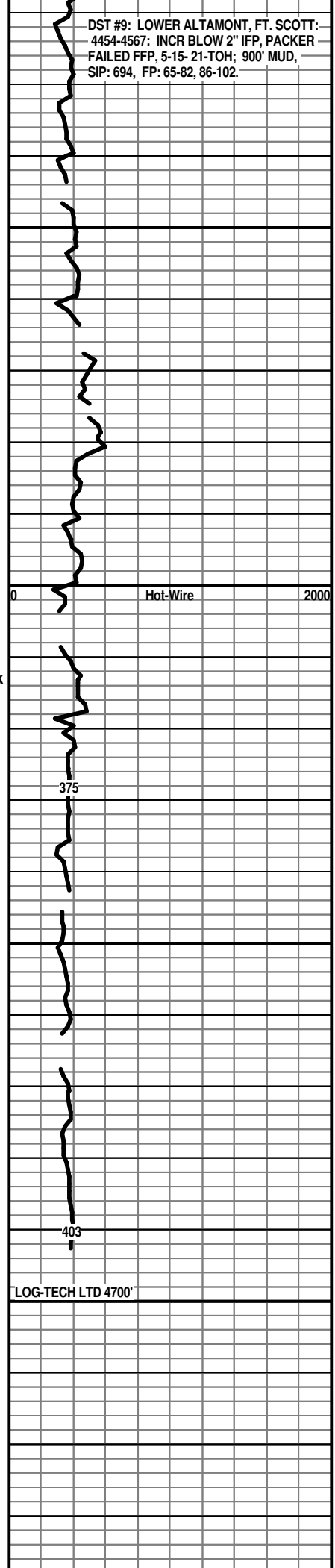
DOL: tan-brown; f-xtal; tight int xtal porosity; N.S. trace 4690, incr 4700.

LS: dolomitic; tan-brown w/dk gray streaks; vf-xtal; v-tight int xtal porosity; N.S. 4700.

ROTARY TOTAL DEPTH 4700 (-1894)



4550
4600
4650
4700



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



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

Sam Brownback, Governor

June 12, 2012

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

Re: ACO1
API 15-101-22345-00-00
Paris 1-7
NW/4 Sec.07-19S-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