



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1152893
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: _____



1152893

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Harper-James 1-22
Doc ID	1152893

Tops

Name	Top	Datum
Anhydrite	2145	+658
Base Anhydrite	2167	+636
Heebner Sh	3918	-1115
Lansing	3962	-1159
Stark Sh	4236	-1433
Pawnee	4430	-1627
Ft. Scott	4480	-1677
Cherokee	4505	-1702
Mississippi	4566	-1763



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

TICKET No 24269

PAGE 1 OF 1

SERVICE LOCATIONS: 1. Ness City KS WELL/PROJECT NO. 1-22 LEASE Harper James COUNTY/PARISH Lane STATE KS CITY Dighton DATE 25 APR 13 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR WILD WEST RIG NAME/NO. SHIPPED VIA ET DELIVERED TO location ORDER NO.
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement port collar WELL PERMIT NO. WELL LOCATION 22-18-29
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 110	40		mi		6.00	240.00
576D		1			Pump Charge	1		ea		12.50	12.50
330		1			5mD cement	210		sk		16.50	3465.00
276		1			Floacle	50		sk		2.00	100.00
290		1			D-air	2		gal		35.00	70.00
583		1			Drayage	30848	16		616.96/TM	1.00	616.96
581		1			Service charge	310		sk		2.00	620.00

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

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

X
 DATE SIGNED TIME SIGNED A.M. P.M.

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

SURVEY
 AGREE UN-DECIDED DIS-AGREE
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 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?
 YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	6361.96
Lanc TAX 7.3%	265.36
TOTAL	6627.32

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

SWIFT OPERATOR ABC APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 25 APR 13 PAGE NO. 7

CUSTOMER Laason Engineering WELL NO. 1-22 LEASE Harper - James JOB TYPE cement port collar TICKET NO. 24269

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								310sk SMD w/ 1/2" floacle
								2 3/8 x 1/2 port collar - 2110'
	0900							on loc TRK 110
	0920					1000	1000	test to 1000 psi - held open port collar
	0925	3	2			300		inj RATE 3 bpm @ 300 psi
	0930	3				300		Mix SMD cement @ 11.2 ppg
		3	30			300		- fluid to surface -
	1005	3	119			450		- cement to surface -
								{ 210sk mixed 20 to pit }
		3	7			450		Displace H ₂ O
								close port collar
	1014					1000	1000	test to 1000 psi - held
	1025		20					run 5 joints - cinco mad - Reverse hole clean - 2 cement flags -
								wash truck
								Rack up
								job complete
								Thanks Flint, Blaine, Dave, & John



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

TICKET No 24751

SERVICE LOCATION: 1. **NESS CITY, KS** WELL/PROJECT NO. **1-22** LEASE **HARPER-TALDO** COUNTY/PARISH **LANE** STATE **KS** CITY **DIGHTON, KS** DATE **30 APR 13** OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR **H.D. DRILLING RIG #3** RIG NAME/NO. SHIPPED VIA DELIVERED TO ORDER NO.
 3. WELL TYPE **OIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **4 1/2 LONGSTRING** WELL PERMIT NO. WELL LOCATION **2W, S/W I-70**
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE B115	40		MI		6.00	240.00
578					Pump CHARGE					1500.00	1500.00
280					FLOCHECK 21	2		FL		25.00	50.00
221					LIQUID RCL	2		FL		25.00	50.00
419					ROTATING HEAD RENTAL					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 *[Signature]*
 DATE SIGNED **1 May 13** TIME SIGNED **0130** A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	3240.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	6336.05
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	9576.05
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Lanc TAX 7.3%	517.11
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	10,093.16
<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 *[Signature]* APPROVAL *[Signature]* Thank You!



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

TICKET CONTINUATION

TICKET No. 24751

CUSTOMER LARSON ENGINEERING WELL HARPER-TALDOL22 DATE 30 APR 13 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOG	ACCT	DF			QTY.	UM		
276						FLOCELE	50	lbs	2 ⁰⁰	100 ⁰⁰
283						SALT	900	lbs	20 ⁰⁰	180 ⁰⁰
284						CAISEAL	8	bx	35 ⁰⁰	280 ⁰⁰
277						GILSONITE	1750	lbs	75 ⁰⁰	1312 ⁵⁰
292						HALAD 322	165	lbs	7 ⁷⁵	1278 ⁷⁵
290						D-AIR	2	gal	35 ⁰⁰	70 ⁰⁰
325						STANDARD CEMENT EA2	175	sk	13 ⁰⁰	2362 ⁵⁰
581						SERVICE CHARGE		CUBIC FEET	2 ⁰⁰	350 ⁰⁰
583						MILEAGE CHARGE	20	TON MILES	1 ⁰⁰	402 ³⁰

CONTINUATION TOTAL 6336⁰⁵

ALLIED OIL & GAS SERVICES, LLC 060406

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Great Bend, KS

DATE <u>4-21-13</u>	SEC. <u>22</u>	TWP. <u>18S</u>	RANGE <u>29W</u>	CALLED OUT <u>8:47 AM</u>	ON LOCATION <u>12:00 PM</u>	JOB START <u>12:30 PM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Harper - Talbo</u>	WELL# <u>1-22</u>	LOCATION <u>Diplon: 2 west to Jagger rd. West into location.</u>			<u>1/2 mile south (160m)</u>	COUNTY <u>Lane</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR HO#3

TYPE OF JOB Surface Casing

HOLE SIZE 12 1/4" T.D. 273ft

CASING SIZE 8 5/8" 20# DEPTH 261.06 FT

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 20 ft

CEMENT LEFT IN CSG. 20ft, 1,304 bbls, 55sf

PERFS. _____

DISPLACEMENT 16.5 bbls Fresh Water

OWNER Larsen Engineering

CEMENT AMOUNT ORDERED 175sf "A" + 30% Gel + 2% Gel

EQUIPMENT

PUMP TRUCK CEMENTER Charles Elkins

398 HELPER Josh Isaac

BULK TRUCK # 341 DRIVER Dan Casper

BULK TRUCK # _____ DRIVER _____

COMMON	<u>175</u>	@ <u>17.90</u>	<u>3,132.50</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>6</u>	@ <u>64.00</u>	<u>384.00</u>
ASC		@	
HANDLING	<u>188.2</u>	@ <u>2.48</u>	<u>466.72</u>
MILEAGE	<u>8.63 x 30x</u>	<u>2.60</u>	<u>673.80</u>
TOTAL			<u>4,727.93</u>

REMARKS:

Pump 5 bbls Fresh Water

Mix & Pump 46.5 bbls Cement (175sf)

Displace with 16.5 bbls Fresh Water

Labur 20ft, 1,304 bbls, 55sf Cement in casing

circulate 8 bbls, 33.5sf Cement to surface

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE	<u>1512.35</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>Hum 30</u>	@ <u>7.70</u>	<u>231.00</u>
MANIFOLD <u>Lum 30</u>	@ <u>4.40</u>	<u>132.00</u>
TOTAL <u>1,875.35</u>		

CHARGE TO: Larsen Engineering

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL _____		

To: Allied Oil & Gas Services, LLC.

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

PRINTED NAME LEWYNE FRESNER

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 6,602.38

DISCOUNT 32% 2,112.72

IF PAID IN 30 DAYS

4,489.55



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc.**

562 West State Road 4
Olmitz, KS 67564

ATTN: Vern Schrag

Harper-James #1-22

22-18s-29w Lane,KS

Start Date: 2013.04.13 @ 06:44:00

End Date: 2013.04.13 @ 11:36:00

Job Ticket #: 53113 DST #: 1

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

Printed: 2013.04.22 @ 11:54:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc.
 562 West State Road 4
 Olmitz, KS 67564
 ATTN: Vern Schrag

22-18s-29w Lane, KS
Harper-James #1-22
 Job Ticket: 53113 **DST#: 1**
 Test Start: 2013.04.13 @ 06:44:00

GENERAL INFORMATION:

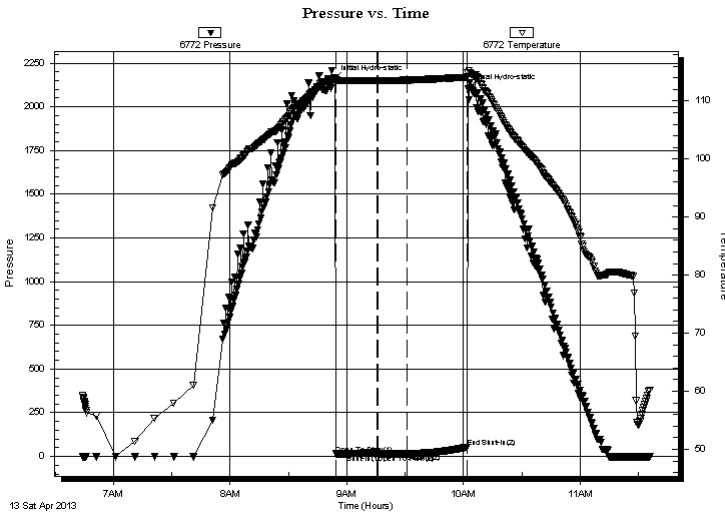
Formation: " L "
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:54:15
 Time Test Ended: 11:36:00
Interval: 4274.00 ft (KB) To 4305.00 ft (KB) (TVD)
 Total Depth: 4305.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Sam Esparza
 Unit No: 64
 Reference Elevations: 2803.00 ft (KB)
 2796.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6772 Outside

Press @ RunDepth: 15.76 psig @ 4275.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.13 End Date: 2013.04.13 Last Calib.: 2013.04.13
 Start Time: 06:44:05 End Time: 11:35:59 Time On Btm: 2013.04.13 @ 08:53:30
 Time Off Btm: 2013.04.13 @ 10:02:15

TEST COMMENT: IF: 1/4" Blow .
 IS: No return.
 FF: No blow .
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2155.58	114.07	Initial Hydro-static
1	14.44	113.61	Open To Flow (1)
7	15.25	113.54	Shut-In(1)
22	27.51	113.52	End Shut-In(1)
23	13.54	113.52	Open To Flow (2)
38	15.76	113.62	Shut-In(2)
69	54.34	114.11	End Shut-In(2)
69	2102.50	114.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering, Inc.

22-18s-29w Lane, KS

562 West State Road 4
Olmitz, KS 67564

Harper-James #1-22

Job Ticket: 53113

DST#: 1

ATTN: Vern Schrag

Test Start: 2013.04.13 @ 06:44:00

Tool Information

Drill Pipe:	Length: 4107.00 ft	Diameter: 3.80 inches	Volume: 57.61 bbl	Tool Weight: 2000.00 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: 147.00 ft	Diameter: 2.25 inches	Volume: 0.72 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4274.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	59.00 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			4247.00	
Shut In Tool	5.00			4252.00	
Hydraulic tool	5.00			4257.00	
Jars	5.00			4262.00	
Safety Joint	3.00			4265.00	
Packer	5.00			4270.00	28.00 Bottom Of Top Packer
Packer	4.00			4274.00	
Stubb	1.00			4275.00	
Recorder	0.00	6772	Outside	4275.00	
Recorder	0.00	8845	Outside	4275.00	
Perforations	25.00			4300.00	
Bullnose	5.00			4305.00	31.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc.
562 West State Road 4
Olmitz, KS 67564
ATTN: Vern Schrag

22-18s-29w Lane, KS
Harper-James #1-22
Job Ticket: 53113 **DST#: 1**
Test Start: 2013.04.13 @ 06:44:00

Mud and Cushion Information

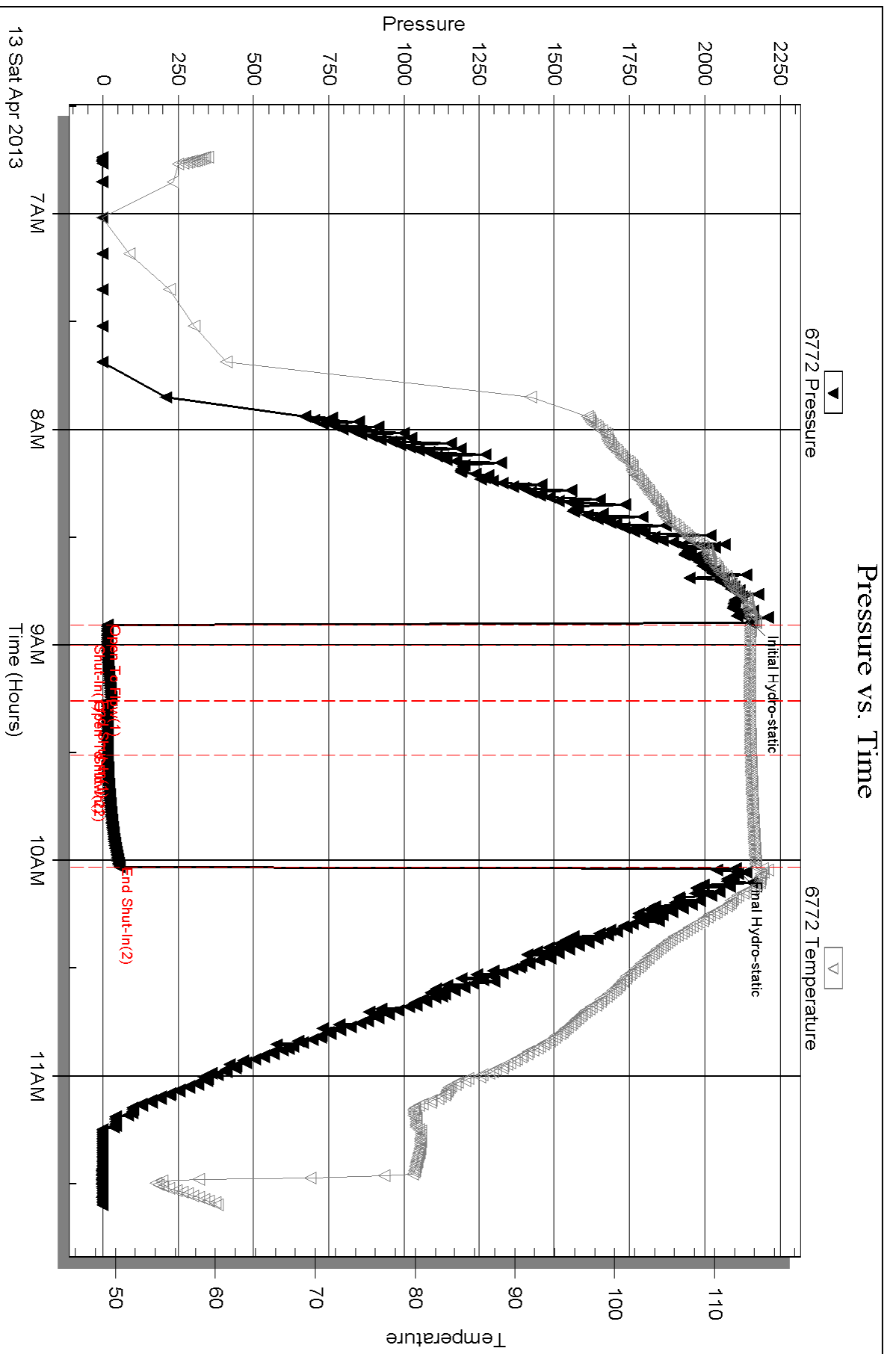
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	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, Inc.**

562 West State Road 4
Olmitz, KS 67564

ATTN: Vern Schrag

Harper-James #1-22

22-18s-29w Lane,KS

Start Date: 2013.04.14 @ 02:37:00

End Date: 2013.04.14 @ 08:51:30

Job Ticket #: 53114 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.04.22 @ 11:53:49



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc.
 562 West State Road 4
 Olmitz, KS 67564
 ATTN: Vern Schrag

22-18s-29w Lane, KS
Harper-James #1-22
 Job Ticket: 53114 **DST#: 2**
 Test Start: 2013.04.14 @ 02:37:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:52:45
 Time Test Ended: 08:51:30
 Interval: **4319.00 ft (KB) To 4400.00 ft (KB) (TVD)**
 Total Depth: 4400.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Sam Esparza
 Unit No: 64
 Reference Elevations: 2803.00 ft (KB)
 2796.00 ft (CF)
 KB to GR/CF: 7.00 ft

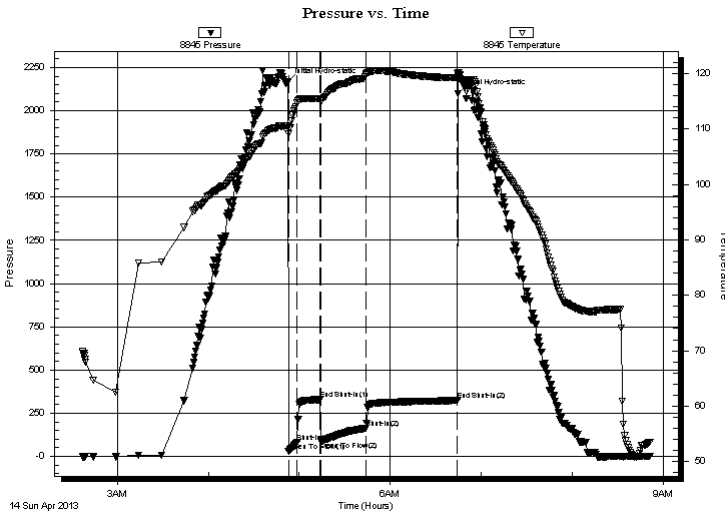
Serial #: 8845

Outside

Press @ Run Depth: 163.06 psig @ 4320.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.14 End Date: 2013.04.14 Last Calib.: 2013.04.14
 Start Time: 02:37:05 End Time: 08:51:29 Time On Btm: 2013.04.14 @ 04:52:30
 Time Off Btm: 2013.04.14 @ 06:44:30

TEST COMMENT: IF: 4 1/4" Blow.
 IS: Bled off for 2 min. No Return.
 FF: BOB @ 10 min.
 FS: Bled off for 3 min. 1/4" Return died @ 40 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2165.98	110.61	Initial Hydro-static
1	28.40	109.19	Open To Flow (1)
6	81.42	114.66	Shut-In(1)
21	328.44	115.49	End Shut-In(1)
22	87.97	115.40	Open To Flow (2)
52	163.06	119.80	Shut-In(2)
112	324.76	119.22	End Shut-In(2)
112	2099.84	120.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GMCO 20g 20m 60o	2.03
120.00	GOCM 10g 30o 60m	1.68
0.00	300' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc.

22-18s-29w Lane, KS

562 West State Road 4
Olmitz, KS 67564

Harper-James #1-22

ATTN: Vern Schrag

Job Ticket: 53114 **DST#: 2**
Test Start: 2013.04.14 @ 02:37:00

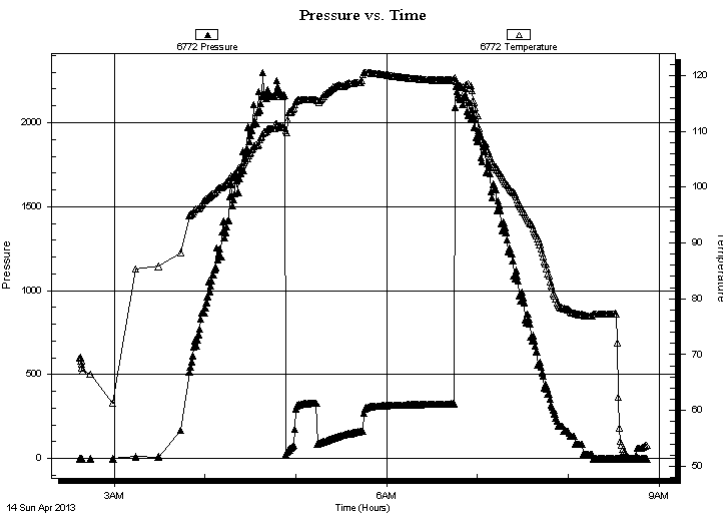
GENERAL INFORMATION:

Formation: Marmaton
Deviated: No Whipstock: ft (KB)
Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 04:52:45 **Tester:** Sam Esparza
Time Test Ended: 08:51:30 **Unit No:** 64
Interval: 4319.00 ft (KB) To 4400.00 ft (KB) (TVD) **Reference Elevations:** 2803.00 ft (KB)
Total Depth: 4400.00 ft (KB) (TVD) 2796.00 ft (CF)
Hole Diameter: 7.88 inches **Hole Condition:** Good **KB to GR/CF:** 7.00 ft

Serial #: 6772 Outside

Press @ Run Depth: psig @ 4320.00 ft (KB) **Capacity:** 8000.00 psig
Start Date: 2013.04.14 **End Date:** 2013.04.14 **Last Calib.:** 2013.04.14
Start Time: 02:37:05 **End Time:** 08:51:44 **Time On Btm:**
Time Off Btm:

TEST COMMENT: IF: 4 1/4" Blow.
 IS: Bled off for 2 min. No Return.
 FF: BOB @ 10 min.
 FS: Bled off for 3 min. 1/4" Return died @ 40 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GMCO 20g 20m 60o	2.03
120.00	GOCM 10g 30o 60m	1.68
0.00	300' GIP	0.00

* 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, Inc.

22-18s-29w Lane, KS

562 West State Road 4
Olmitz, KS 67564

Harper-James #1-22

Job Ticket: 53114

DST#: 2

ATTN: Vern Schrag

Test Start: 2013.04.14 @ 02:37:00

Tool Information

Drill Pipe:	Length: 4169.00 ft	Diameter: 3.80 inches	Volume: 58.48 bbl	Tool Weight: 2000.00 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: 147.00 ft	Diameter: 2.25 inches	Volume: 0.72 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 59.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4319.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4292.00	
Shut In Tool	5.00			4297.00	
Hydraulic tool	5.00			4302.00	
Jars	5.00			4307.00	
Safety Joint	3.00			4310.00	
Packer	5.00			4315.00	28.00 Bottom Of Top Packer
Packer	4.00			4319.00	
Stubb	1.00			4320.00	
Recorder	0.00	6772	Outside	4320.00	
Recorder	0.00	8845	Outside	4320.00	
Perforations	10.00			4330.00	
Change Over Sub	1.00			4331.00	
Drill Pipe	63.00			4394.00	
Change Over Sub	1.00			4395.00	
Bullnose	5.00			4400.00	81.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc.

22-18s-29w Lane, KS

562 West State Road 4
Olmitz, KS 67564

Harper-James #1-22

Job Ticket: 53114

DST#: 2

ATTN: Vern Schrag

Test Start: 2013.04.14 @ 02:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
240.00	GMCO 20g 20m 60o	2.027
120.00	GOCM 10g 30o 60m	1.683
0.00	300' GIP	0.000

Total Length: 360.00 ft Total Volume: 3.710 bbl

Num Fluid Samples: 0

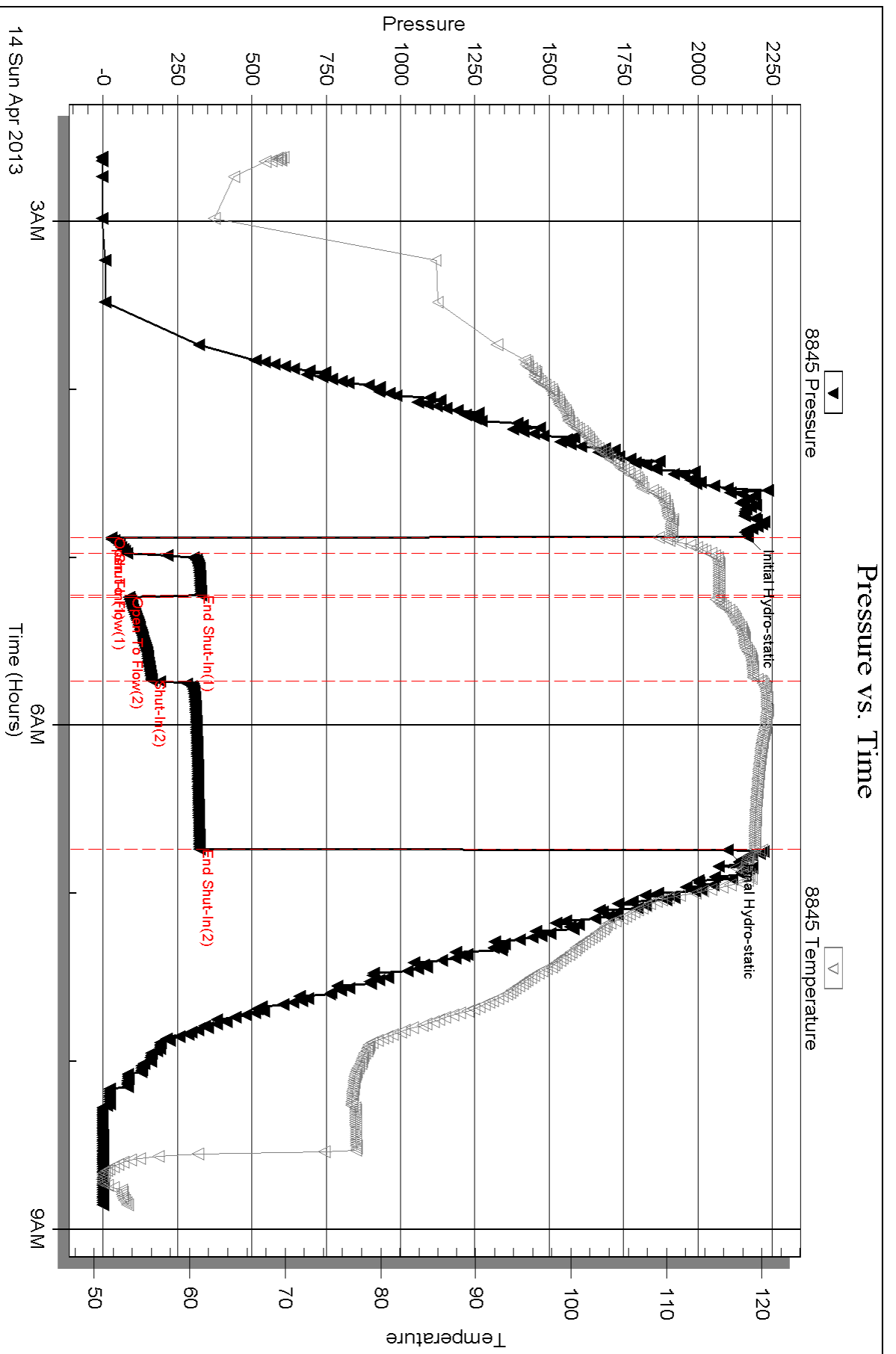
Num Gas Bombs: 0

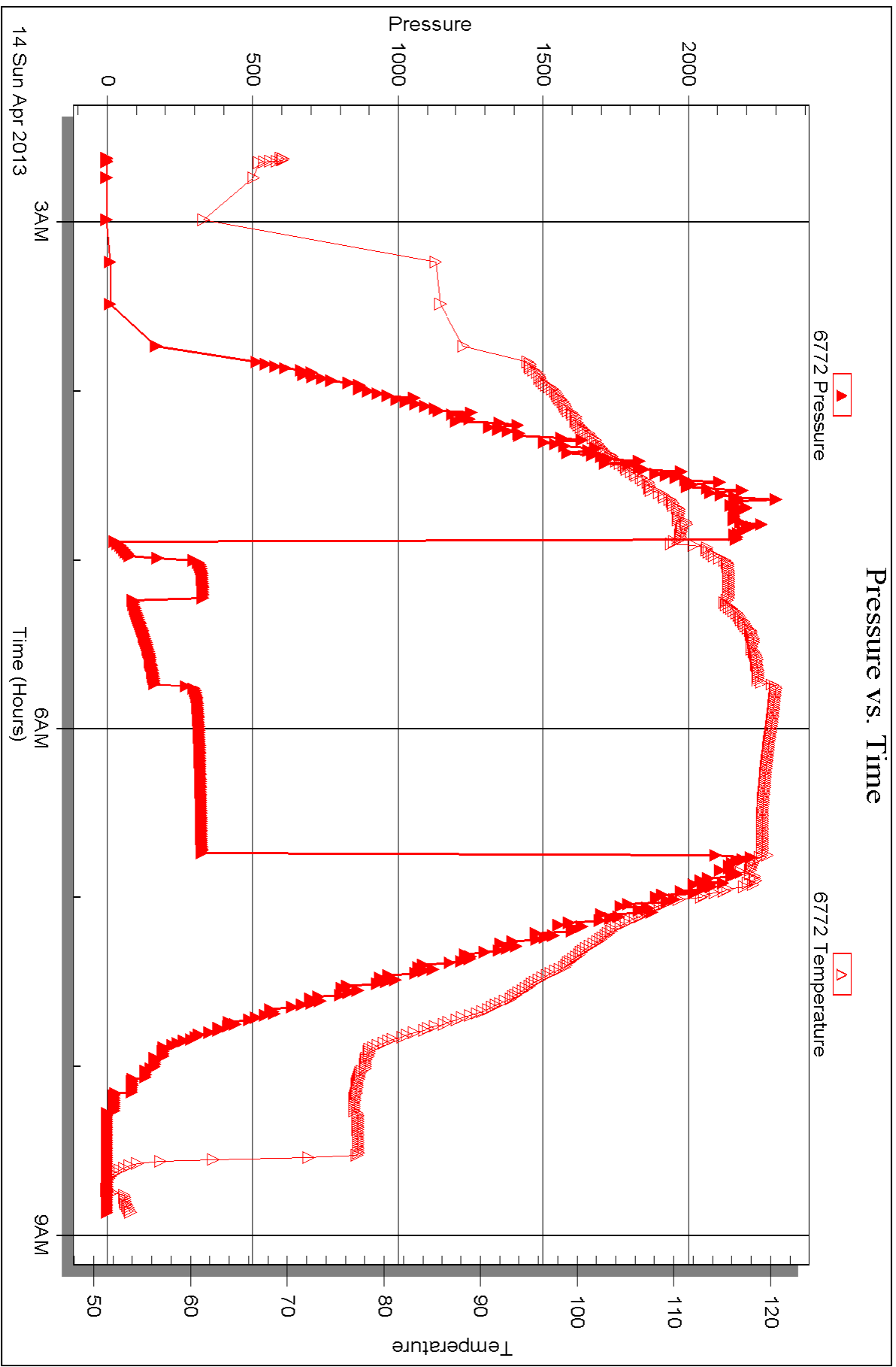
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc.**

562 West State Road 4
Olmitz, KS 67564

ATTN: Vern Schrag

Harper-James #1-22

22-18s-29w Lane,KS

Start Date: 2013.04.15 @ 04:08:00

End Date: 2013.04.15 @ 10:17:00

Job Ticket #: 53115 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.04.22 @ 11:53:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc.
 562 West State Road 4
 Olmitz, KS 67564
 ATTN: Vern Schrag

22-18s-29w Lane, KS
Harper-James #1-22
 Job Ticket: 53115 **DST#: 3**
 Test Start: 2013.04.15 @ 04:08:00

GENERAL INFORMATION:

Formation: **Pawnee- Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:27:00
 Time Test Ended: 10:17:00
 Interval: **4450.00 ft (KB) To 4565.00 ft (KB) (TVD)**
 Total Depth: 4565.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Sam Esparza
 Unit No: 64
 Reference Elevations: 2803.00 ft (KB)
 2796.00 ft (CF)
 KB to GR/CF: 7.00 ft

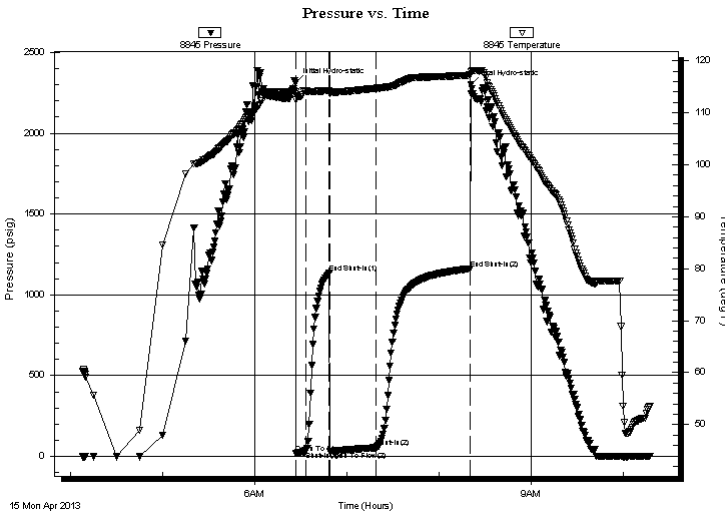
Serial #: 8845

Outside

Press @ RunDepth: 54.36 psig @ 4451.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.15 End Date: 2013.04.15 Last Calib.: 2013.04.15
 Start Time: 04:08:05 End Time: 10:16:59 Time On Btm: 2013.04.15 @ 06:26:45
 Time Off Btm: 2013.04.15 @ 08:20:45

TEST COMMENT: IF: 1/2" Blow .
 IS: No Return.
 FF: 1" Blow .
 FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.41	114.01	Initial Hydro-static
1	21.31	112.53	Open To Flow (1)
7	29.95	114.17	Shut-In(1)
22	1135.57	114.30	End Shut-In(1)
22	31.76	113.66	Open To Flow (2)
53	54.36	114.72	Shut-In(2)
113	1161.96	117.27	End Shut-In(2)
114	2300.66	118.00	Final Hydro-static

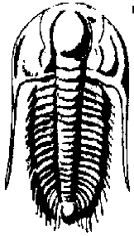
Recovery

Length (ft)	Description	Volume (bbl)
70.00	OCM 15o 85m	0.34

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering, Inc.

562 West State Road 4
Olmitz, KS 67564

ATTN: Vern Schrag

22-18s-29w Lane, KS

Harper-James #1-22

Job Ticket: 53115

DST#: 3

Test Start: 2013.04.15 @ 04:08:00

GENERAL INFORMATION:

Formation: **Pawnee- Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:27:00

Time Test Ended: 10:17:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4450.00 ft (KB) To 4565.00 ft (KB) (TVD)

Total Depth: 4565.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2803.00 ft (KB)

2796.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6772 **Outside**

Press @RunDepth: psig @ 4451.00 ft (KB)

Start Date: 2013.04.15

End Date: 2013.04.15

Start Time: 04:08:05

End Time: 10:17:14

Capacity: 8000.00 psig

Last Calib.: 2013.04.15

Time On Btm:

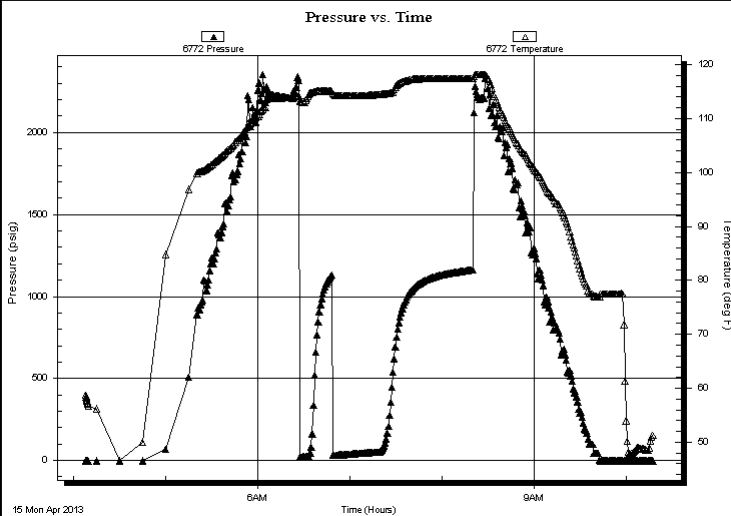
Time Off Btm:

TEST COMMENT: IF: 1/2" Blow.

IS: No Return.

FF: 1" Blow.

FS: No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	OCM 15o 85m	0.34

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, Inc.

22-18s-29w Lane, KS

562 West State Road 4
Olmitz, KS 67564

Harper-James #1-22

Job Ticket: 53115

DST#: 3

ATTN: Vern Schrag

Test Start: 2013.04.15 @ 04:08:00

Tool Information

Drill Pipe:	Length: 4295.00 ft	Diameter: 3.80 inches	Volume: 60.25 bbl	Tool Weight: 2000.00 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: 147.00 ft	Diameter: 2.25 inches	Volume: 0.72 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4450.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	115.00 ft			
Tool Length:	143.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4423.00	
Shut In Tool	5.00			4428.00	
Hydraulic tool	5.00			4433.00	
Jars	5.00			4438.00	
Safety Joint	3.00			4441.00	
Packer	5.00			4446.00	28.00 Bottom Of Top Packer
Packer	4.00			4450.00	
Stubb	1.00			4451.00	
Recorder	0.00	6772	Outside	4451.00	
Recorder	0.00	8845	Outside	4451.00	
Perforations	13.00			4464.00	
Change Over Sub	1.00			4465.00	
Drill Pipe	94.00			4559.00	
Change Over Sub	1.00			4560.00	
Bullnose	5.00			4565.00	115.00 Bottom Packers & Anchor

Total Tool Length: 143.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc.

22-18s-29w Lane, KS

562 West State Road 4
Olmitz, KS 67564

Harper-James #1-22

Job Ticket: 53115

DST#: 3

ATTN: Vern Schrag

Test Start: 2013.04.15 @ 04:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	OCM 15o 85m	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

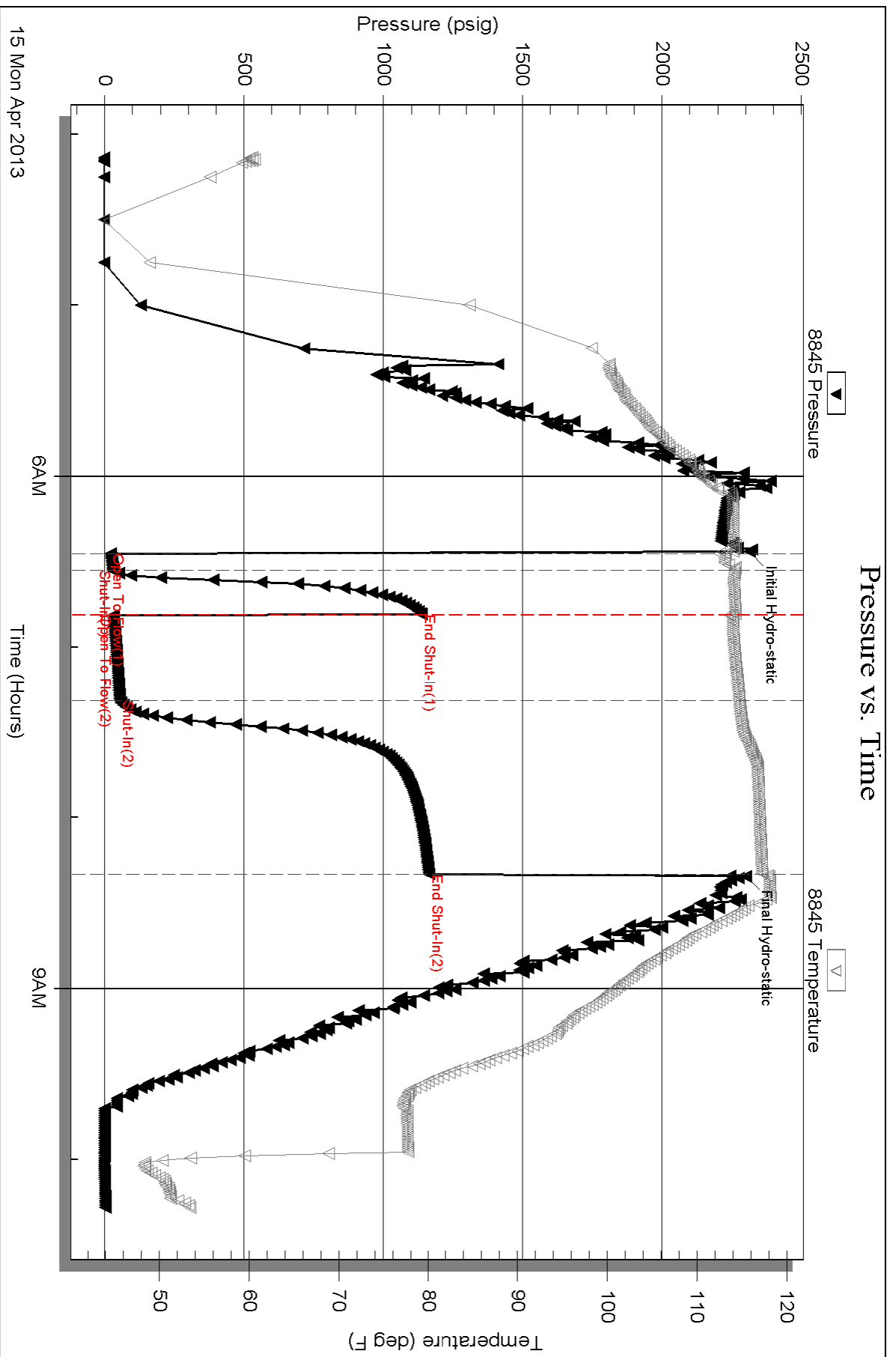
Num Gas Bombs: 0

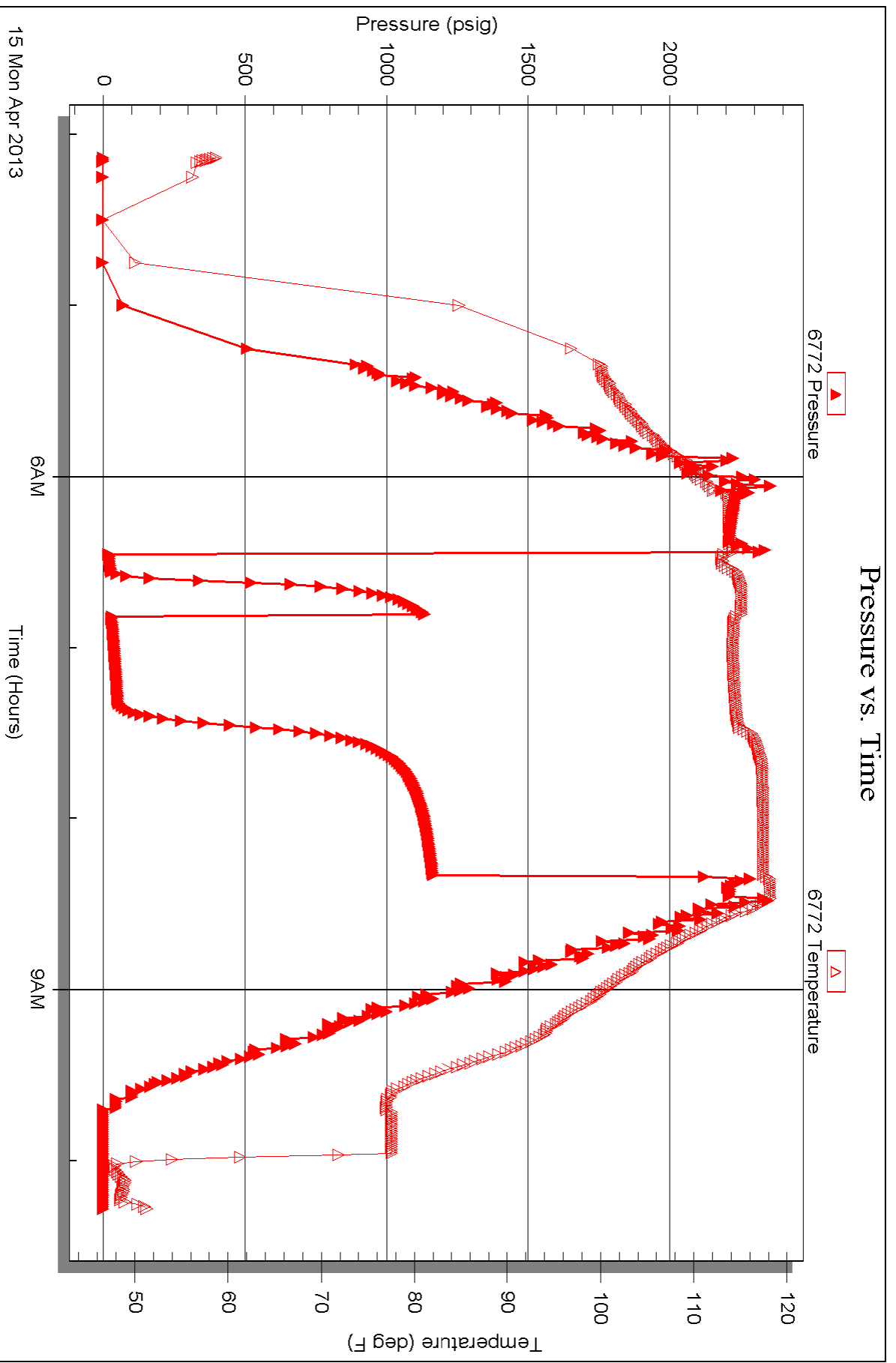
Serial #:

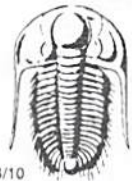
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53113

Well Name & No. Harpes-James #1-22 Test No. 1 Date 4/13/13
 Company Larson Engineering, Inc. Elevation 2803 KB 2796 GL
 Address 562 West State Road 4 Olmitz, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD#3
 Location: Sec. 22 Twp. 18S Rge. 29W Co. Lane State KS

Interval Tested 4274-4305 Zone Tested "L"
 Anchor Length 31' Drill Pipe Run 4107 Mud Wt. 9.2
 Top Packer Depth 4270 Drill Collars Run 147 Vis 54
 Bottom Packer Depth 4274 Wt. Pipe Run Ø WL 8.0
 Total Depth 4305 Chlorides 3100 ppm System LCM 1
 Blow Description IF: 4" Blow.
ISI: No Return.
FF: No Blow.
FSI: No Return.

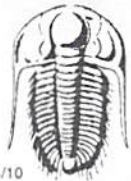
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 114 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2156</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>6:00</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:44</u>
(C) First Final Flow <u>15</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:54</u>
(D) Initial Shut-In <u>28</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>10:01</u>
(E) Second Initial Flow <u>14</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:36</u>
(F) Second Final Flow <u>16</u>	<input checked="" type="checkbox"/> Mileage <u>44 R/T</u> 68.20	Comments
(G) Final Shut-In <u>54</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2103</u>	<input type="checkbox"/> Straddle	
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1643.20</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1643.20</u>	

Approved By [Signature] Our Representative [Signature]

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53114

Well Name & No. Harper-James #1-22 Test No. 2 Date 4/14/13
 Company Larson Engineering, Inc. Elevation 2803 KB 2796 GL
 Address 562 West State Road 4 Olmitz, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD #3
 Location: Sec. 22 Twp. 18S Rge. 29W Co. Lane State KS

Interval Tested 4319-4400 Zone Tested Marmaton
 Anchor Length 81' Drill Pipe Run 4169 Mud Wt. 9.2
 Top Packer Depth 4315 Drill Collars Run 147 Vis 56
 Bottom Packer Depth 4319 Wt. Pipe Run Ø WL 7.6
 Total Depth 4400 Chlorides 2100 ppm System LCM 1

Blow Description IF: 4 1/4" Blow.
ISI: Bled off for 2 min. No Return.
FF: BOB @ 10 Min.
FSI: Bled off for 3 min. 1/4" Return died @ 40 min.

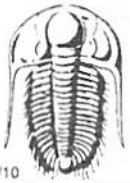
Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>70CM</u>	<u>10</u>	<u>30</u>	<u>60</u>	<u>0</u>
<u>240</u>	<u>7MCO</u>	<u>20</u>	<u>60</u>	<u>20</u>	<u>0</u>
<u>300</u>	<u>GIP</u>				

Rec Total 360 BHT 119 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2166</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>2:00</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2:37</u>
(C) First Final Flow <u>81</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:53</u>
(D) Initial Shut-In <u>328</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>6:45</u>
(E) Second Initial Flow <u>88</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>8:52</u>
(F) Second Final Flow <u>163</u>	<input checked="" type="checkbox"/> Mileage <u>44 R/T</u> 68.20	Comments _____
(G) Final Shut-In <u>325</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2100</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Total <u>1643.20</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1643.20</u>	

Approved By _____ Our Representative [Signature]

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53115

4/10

Well Name & No. Harper-James #1-22 Test No. 3 Date 4/15/13
 Company Larsen Engineering, Inc Elevation 2803 KB 2796 GL
 Address 562 West State Road 4 Okmütz, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD#3
 Location: Sec. 22 Twp. 18S Rge. 29W Co. Lane State KS

Interval Tested 4450-4565 Zone Tested Pawnee-Ft. Scott
 Anchor Length 115 Drill Pipe Run 4295 Mud Wt. 9.2
 Top Packer Depth 4446 Drill Collars Run 147 Vis 57
 Bottom Packer Depth 4450 Wt. Pipe Run Ø WL 7.2
 Total Depth 4565 Chlorides 2500 ppm System LCM 1

Blow Description IF: 3" Blow.
ISI: No Return.
FF: 1" Blow.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>OCM</u>		<u>15</u>		<u>85</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70 BHT 117 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2315</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>3:50</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:08</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>6:27</u>
(D) Initial Shut-In <u>1136</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>8:19</u>
(E) Second Initial Flow <u>32</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:17</u>
(F) Second Final Flow <u>54</u>	<input checked="" type="checkbox"/> Mileage <u>44 R/T</u> 68.20	Comments <u>Loaded tools</u>
(G) Final Shut-In <u>1162</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2301</u>	<input type="checkbox"/> Straddle	
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1893.20</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1893.20</u>	

Approved By Vern Schrag Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or person 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.

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

August 01, 2013

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

Re: ACO1
API 15-101-22432-00-00
Harper-James 1-22
NW/4 Sec.22-18S-29W
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