



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1177297
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: _____

1177297

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Phyllis B 1-4
Doc ID	1177297

Tops

Name	Top	Datum
Anhydrite	2176	+665
Base Anhydrite	2202	+637
Heebner	3957	-1116
Lansing	4000	-1159
Stark Sh	4283	-1442
Marmaton	4412	-1571
Pawnee	4468	-1627
Ft Scott	4521	-1680
Cherokee Sh	4545	-1704
Mississippi	4613	-1772

ALLIED OIL & GAS SERVICES, LLC 061121

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley, KS

DATE	SEC	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
10-8-13	4	19	29		9:00 AM	9:30 AM	10:00 AM
LEASE	WELL #	LOCATION		COUNTY	STATE		
Phyllis B	1-4	Dighton to Fire Rd 3 1/2 S W-into		Lane	KS		
OLD OR NEW (Circle one)							

CONTRACTOR HD OWNER Jayne

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 277 CEMENT AMOUNT ORDERED 175 SKS com 3% acc 2% gel

CASING SIZE 8 5/8 DEPTH 277

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 16 1/2

EQUIPMENT

PUMP TRUCK CEMENTER Kelly Oabel
422 HELPER Wayne McElshy
BULK TRUCK
396A306 DRIVER Juan (TWO)
BULK TRUCK
DRIVER

COMMON 175 SKS @ 17.90 3132.50

POZMIX @

GEL 4 SKS @ 23.00 93.00

CHLORIDE 6 SKS @ 64.00 384.00

ASC @

@

@

@

@

@

@

@

@

HANDLING 189.23 cft @ 2.48 469.29

MILEAGE 8.23 to 235 mi. x 2.50 20.58

TOTAL 4828.32

REMARKS:

safety meeting rigged up
mixed 175 SKS com 3% acc 2% gel
displaced, shut in
rigged down

Cement did circulate

Thank You
Kelly & Juan

SERVICE

DEPTH OF JOB 277

PUMP TRUCK CHARGE 1512.35

EXTRA FOOTAGE @

MILEAGE MiLV 35 @ 4.40 154.00

MANIFOLD @

MiHV 35 @ 7.70 269.50

@

TOTAL 1935.75

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 LEWAYNE TRESNER

SIGNATURE Phyllis B. Jensen

SALES TAX (If Any) _____

TOTAL CHARGES 6,764.07

DISCOUNT 1,691.01 IF PAID IN 30 DAYS

5,073.05 Net.

ALLIED OIL & GAS SERVICES, LLC 061793

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Great Bend

DATE <u>10-23-13</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>8:30 AM</u>	JOB START <u>9:00</u>	JOB FINISH <u>10:00</u>	
LEASE <u>Phyllis</u>			WELL # <u>B-1-Y</u>		LOCATION <u>Dighton 3 west T8</u>		COUNTY <u>Lincoln</u>	
OLD OR <u>NEW</u> (Circle one)			TRK RD <u>4504th west T8</u>					STATE <u>KS</u>

CONTRACTOR Cheyenne
 TYPE OF JOB Port Callouts
 HOLE SIZE 7 1/4 T.D.
 CASING SIZE 4 1/2 DEPTH
 TUBING SIZE 2 3/4 DEPTH 2150
 DRILL PIPE DEPTH
 TOOL DEPTH 2150
 PRES. MAX 1500 MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT 7 BBLs Fresh water

OWNER hanson
 CEMENT
 AMOUNT ORDERED 480 BX 65/35+
9% 6cl + 1/4 Hoses
 COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC @
480 BX white wt + 8% @ 16.55 7,944.00
flashed 120 @ 2.97 356.40
 HANDLING 543.68 @ 2.48 1,348.32
 MILEAGE 22.61 X 30 @ 2.60 1,763.28
 TOTAL 11,412.30

EQUIPMENT
 PUMP TRUCK CEMENTER Wayne Davis
 # 597 HELPER Tim Dickson
 BULK TRUCK
 # 544/198 DRIVER Dan Casper
 BULK TRUCK
 # DRIVER

REMARKS:
on job site had safety
meeting Rig up
Pressure Test 1200 ps. Released
to 500 ps. open tool Start mix
Cement 480 BX 65/35 + 9% + 1/4 H
at 13.5 Displace 7 BBLs close
port put 500 ps pressure 1500 ps.
Released Raw 5 Juts Revenue out
with 22 BBLs

CHARGE TO: hanson
 STREET _____
 CITY _____ STATE _____ ZIP _____

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 _____
 SIGNATURE John Dawson

SERVICE
 DEPTH OF JOB 2150
 PUMP TRUCK CHARGE 2,483.59
 EXTRA FOOTAGE @
 MILEAGE Hvm 30 @ 7.70 231.00
 MANIFOLD @
Lvm 30 @ 4.40 132.00
 TOTAL 2,846.59

PLUG & FLOAT EQUIPMENT
 @
 @
 @
 @
 @
 TOTAL _____

SALES TAX (if Any) _____
 TOTAL CHARGES 14,258.89
2,851.21
 DISCOUNT _____ IF PAID IN 30 DAYS
11,407.68

ALLIED OIL & GAS SERVICES, LLC 061896

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Forest Bend K3

DATE <u>10-17-13</u>	SEC. <u>4</u>	TWP. <u>19</u>	RANGE <u>29</u>	CALLED OUT <u>4:00 AM</u>	ON LOCATION <u>8:00 AM</u>	JOB START <u>9:30 AM</u>	JOB FINISH <u>10:30 AM</u>
LEASE <u>Pl. 1115 B</u>	WELL # <u>1-4</u>	LOCATION <u>Duffston 310, 4 1/2 S, W/4</u>			COUNTY <u>Deer</u>	STATE <u>Ka</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)							

CONTRACTOR HD Daily
TYPE OF JOB Production
HOLE SIZE 7 1/8 T.D. 4670'
CASING SIZE 4 1/2 11.6 * DEPTH 4669'
TUBING SIZE _____ DEPTH _____
DRILL PIPE _____ DEPTH _____
TOOL JOINT Carbon DEPTH 2150-32
PRES. MAX 1500* MINIMUM 400 FF
MEAS. LINE _____ SHOE JOINT 44-32
CEMENT LEFT IN CSG. 44-32
PERFS. _____
DISPLACEMENT 71.3/4
EQUIPMENT _____

OWNER Same
CEMENT
AMOUNT ORDERED 125 sh. Asc 5* Kolbead
Per Sech 30 sh 60/40 450 ASD
500 gal DV 1100
COMMON 18 @ 17.90 322.30
POZMIX 12 @ 9.35 112.20
GEL 23 @ 23.40 76.20
CHLORIDE _____ @ _____
ASC 125 3x @ 20.90 2,612.50
Kolbead 625 @ 9.98 6250.50
CD-31 94 @ 10.30 968.20
DF 17 @ 9.80 166.60
DV-1100 500 @ 1.27 635.00
_____ @ _____
_____ @ _____
_____ @ _____
HANDLING 194.17 @ 2.48 481.54
MILEAGE 8.36 x 30 x 2.60 653.08
TOTAL 6,633.02

PUMP TRUCK CEMENTER Tom Dichen
597 HELPER Charles Kuyper
BULK TRUCK
599 DRIVER Don Cayer
BULK TRUCK
_____ DRIVER Wayne Davis

REMARKS:

Ran 4669' of 4 1/2" casing. Brake circulation.
Created 1 hr Pumped 5 bbls H2O -
500 gal DV 1100 - 15 bbls H2O. Mixed 125 sh.
Asc. 5* Kolbead. Washed line clean.
Released Plug. Displaced with #20.
Loaded Plug BT 1500*. Released and
float held. Plugged bathole with
30 sh 60/40 450 ASD.

SERVICE

DEPTH OF JOB 4669'
PUMP TRUCK CHARGE 2,810.84
EXTRA FOOTAGE _____ @ _____
MILEAGE Hum 30 @ 7.70 231.00
MANIFOLD Head @ 375.00/1/c
Hum 30 @ 4.40 132.00
_____ @ _____

TOTAL 3,173.84

CHARGE TO: Lasson Engineering
STREET _____
CITY _____ STATE _____ ZIP _____

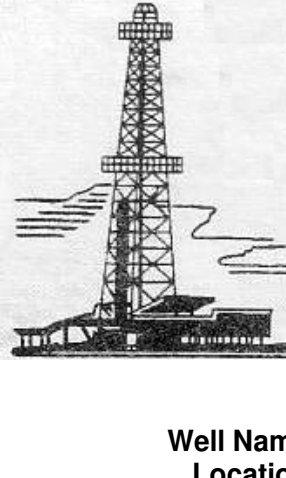
PLUG & FLOAT EQUIPMENT

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
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.

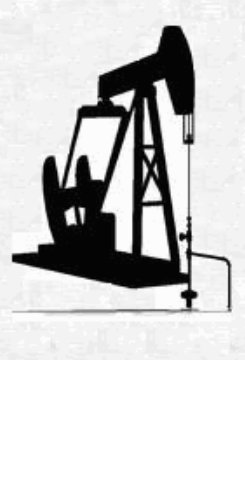
PRINTED NAME LEWYNE TRESNER
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES 9,806.86
1,961.31
DISCOUNT _____ IF PAID IN 30 DAYS
\$ 7,845.55



WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: **Phyllis B #1-4**
 Location: **SW SE SE NE SEC. 04-19s-29w**
 Licence Number: **API: 15-101-22466**
 Spud Date: **October 8, 2013**
 Surface Coordinates: **2550' FNL & 340' FEL**

Region: **Lane Co., KS**
 Drilling Completed: **October 16, 2013**

Bottom Hole Coordinates:
 Ground Elevation (ft): **2834'**
 Logged Interval (ft): **3800'**
 Formation: **Mississippi**
 Type of Drilling Fluid: **Chemical Premix (Displaced)**

K.B. Elevation (ft): **2841'**
 Total Depth (ft): **4670'**

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**
Olmits, KS 67564-8561

DRILLING CONTRACTOR:

H. D. Drilling, LLC, Rig #3 (Co. Tools)

DP 4.5" XH (16.6#); DC 6.25" x 2.25" x 560', Kelly 40.30', Tool Joint 5.5" ; Bit: JZ-HA20-Q, 7-7/8" , extended jets 14-14-15; rpm 80, WOB 35k; Kelly Bushing 7' above ground level; LeWayne "Lew" Tresner (tool pusher).

CASING:

Set 8-5/8" casing at 276'
Set 4-1/2" production casing

CIRCULATION SYSTEM:

Continental EMSCO D-300, duplex, 6 x 14, 60 spm, Chemical, premix, displaced 3420 to 3440'; earth pits, Morgan Mud, Inc., Cade Lines, David Lines.

OPEN HOLE LOGS:

DN, DI (SP) (Run-1); ML (Run-2); No Sonic; 5" detail LTD-3600; 2" DI to surface casing; LogTech-Pioneer Wireline, Hays, KS, Daylon Kerr, Log total depth (4670') was equal to rotary total depth (4670').

DRILL STEM TEST #1:

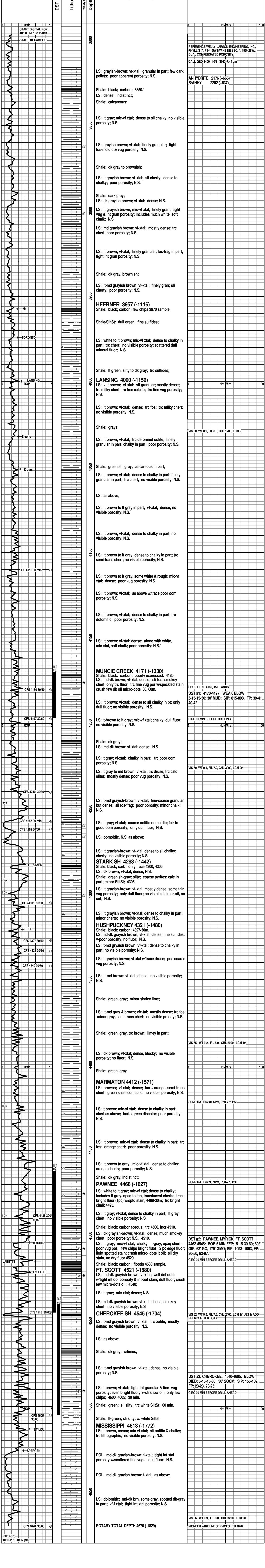
LKC "H-zone": Interval: 4170-4197 (27'); Blow: weak incr to 1/2" IFP, no RB, very weak surf blow, no RB; FFP, surf RB built to 1/8" FSIP; Times: 5-15-30-60; Recovery: 242' TF, 693' GIP; 5' CO (100%O, 41 grav.), 58' GO (10%G, 90%O), 179' GMO (40%G, 30%O, 30%M); Pressures: HP: 2293-2192, SIP: 1091-1091, FP: 30-50, 62-97; BHT: 123 F; Trilobite Testing, Inc., Scott City, KS, Cornelio "Corndog" Landa III.

DRILL STEM TEST #2:

Pawnee, Myrick Station, Ft. Scott: Interval: 4462-4545 (83'); Blow: weak incr 7" IFP, surf RB ISIP, BOB 5 min. FFP, surf RB built to 1/8" FSIP; Times: 5-15-30-60; Recovery: 242' TF, 693' GIP; 5' CO (100%O, 41 grav.), 58' GO (10%G, 90%O), 179' GMO (40%G, 30%O, 30%M); Pressures: HP: 2293-2192, SIP: 1091-1091, FP: 30-50, 62-97; BHT: 123 F; Trilobite Testing, Inc., Scott City, KS, Cornelio "Corndog" Landa III.

DRILL STEM TEST #3:

Cherokee Lime: Interval: 4540-4605 (65'); Blow: weak incr 1/2" IFP; weak surf RB ISIP, weak surf died 8 min FFP; no RB; Times: 5-15-30-60; Recovery: 30' SOCM (5%O, 95%M); Pressures: HP: 2228-2214, SIP: 155-109, FP: 23-23, 23-25; BHT: 113 F; Trilobite Testing, Inc., Scott City, KS, Cornelio "Corndog" Landa III.





DRILL STEM TEST REPORT

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

562 West State Rd 4
Olmitz, KS 67564

ATTN: Vern Schrag

Phyllis "B" #1-4

4-19s-29w Lane,KS

Start Date: 2013.10.13 @ 05:29:00

End Date: 2013.10.13 @ 10:18:15

Job Ticket #: 54738 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.16 @ 09:52:44



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering, Inc.

4-19s-29w Lane, KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

Job Ticket: 54738

DST#: 1

ATTN: Vern Schrag

Test Start: 2013.10.13 @ 05:29:00

GENERAL INFORMATION:

Formation: " H "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:27:30

Time Test Ended: 10:18:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Sam Esparza

Unit No: 64

Interval: 4170.00 ft (KB) To 4197.00 ft (KB) (TVD)

Reference Elevations: 2841.00 ft (KB)

Total Depth: 4197.00 ft (KB) (TVD)

2834.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 42.32 psig @ 4171.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.13

End Date:

2013.10.13

Last Calib.: 2013.10.13

Start Time: 05:29:05

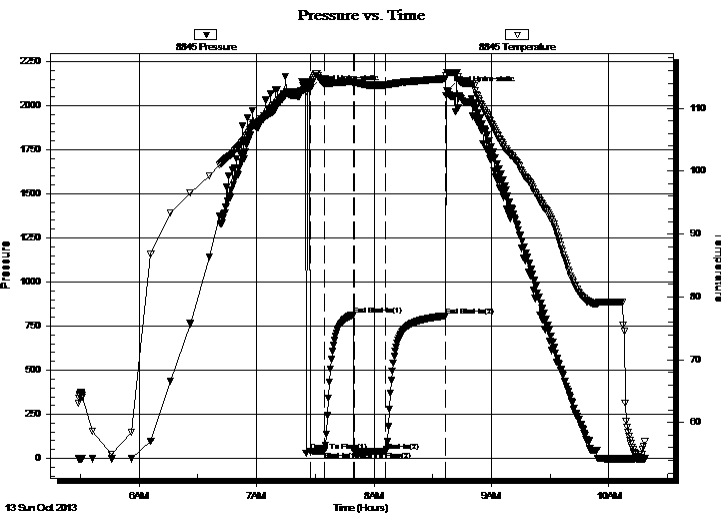
End Time:

10:18:14

Time On Btm: 2013.10.13 @ 07:27:15

Time Off Btm: 2013.10.13 @ 08:37:15

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2091.06	114.20	Initial Hydro-static
1	38.84	113.27	Open To Flow (1)
8	40.92	113.98	Shut-In(1)
23	814.67	114.26	End Shut-In(1)
23	39.54	113.86	Open To Flow (2)
39	42.32	113.71	Shut-In(2)
69	808.24	114.70	End Shut-In(2)
70	2086.99	115.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100m	0.15

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc.

4-19s-29w Lane, KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

Job Ticket: 54738

DST#: 1

ATTN: Vern Schrag

Test Start: 2013.10.13 @ 05:29:00

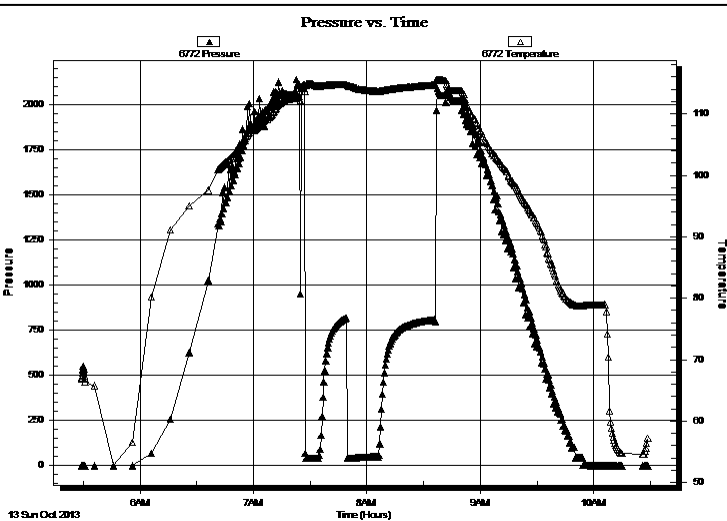
GENERAL INFORMATION:

Formation:	" H "		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened:	07:27:30		Tester: Sam Esparza
Time Test Ended:	10:18:15		Unit No: 64
Interval:	4170.00 ft (KB) To 4197.00 ft (KB) (TVD)		Reference Elevations: 2841.00 ft (KB)
Total Depth:	4197.00 ft (KB) (TVD)		2834.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 7.00 ft

Serial #: 6772 Inside

Press @ Run Depth:	psig @ 4171.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2013.10.13	End Date:	2013.10.13
Start Time:	05:29:05	End Time:	10:28:44
		Time On Btm:	
		Time Off Btm:	

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



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100m	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering, Inc.

4-19s-29w Lane,KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

Job Ticket: 54738

DST#: 1

ATTN: Vern Schrag

Test Start: 2013.10.13 @ 05:29:00

Tool Information

Drill Pipe:	Length: 4014.00 ft	Diameter: 3.80 inches	Volume: 56.31 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:	30000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 57.04 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4170.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	55.00 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			4143.00	
Shut In Tool	5.00			4148.00	
Hydraulic tool	5.00			4153.00	
Jars	5.00			4158.00	
Safety Joint	3.00			4161.00	
Packer	5.00			4166.00	28.00 Bottom Of Top Packer
Packer	4.00			4170.00	
Stubb	1.00			4171.00	
Recorder	0.00	6772	Inside	4171.00	
Recorder	0.00	8845	Outside	4171.00	
Perforations	21.00			4192.00	
Bullnose	5.00			4197.00	27.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc.

4-19s-29w Lane, KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

Job Ticket: 54738

DST#: 1

ATTN: Vern Schrag

Test Start: 2013.10.13 @ 05:29:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

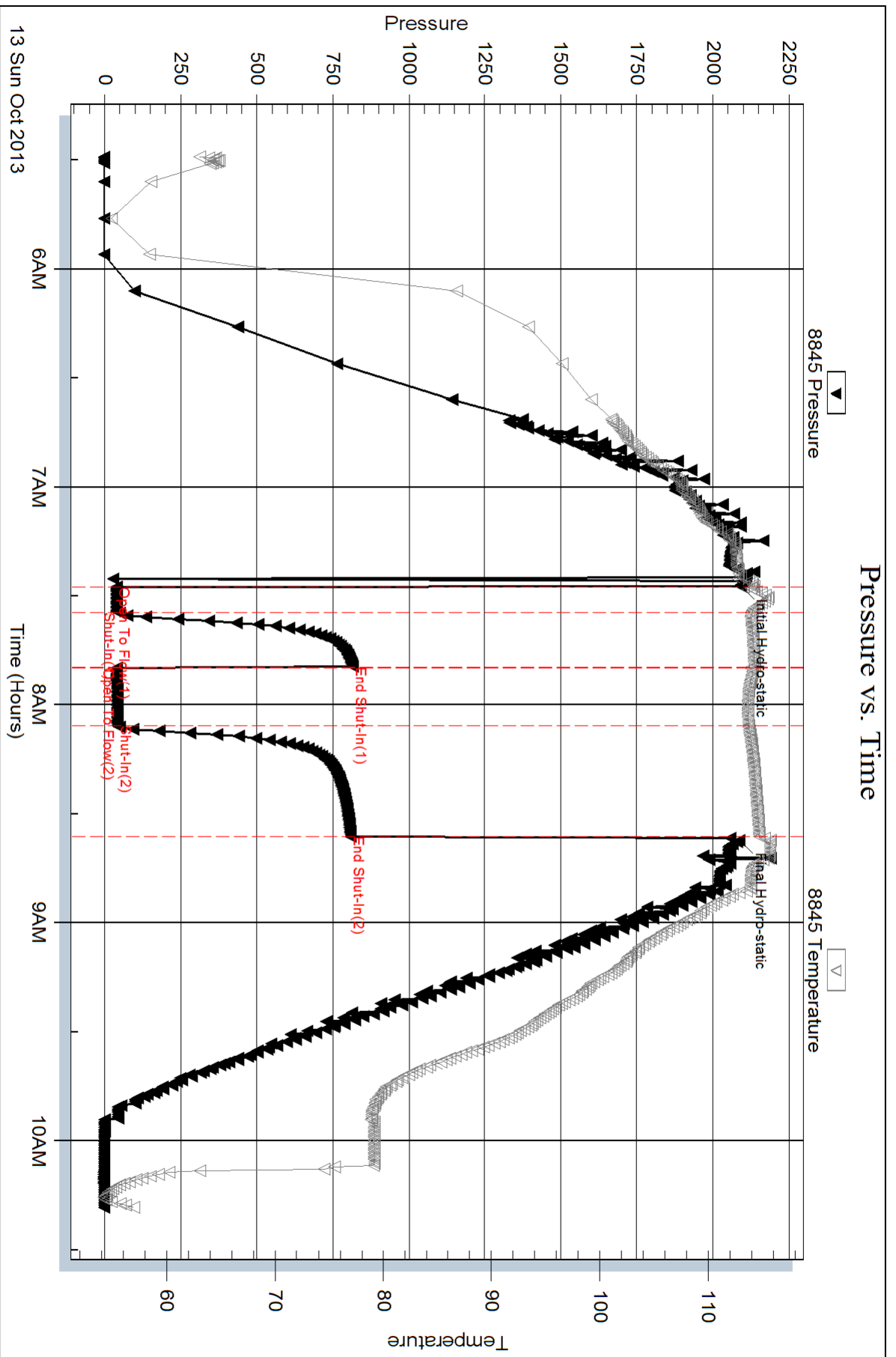
Num Gas Bombs: 0

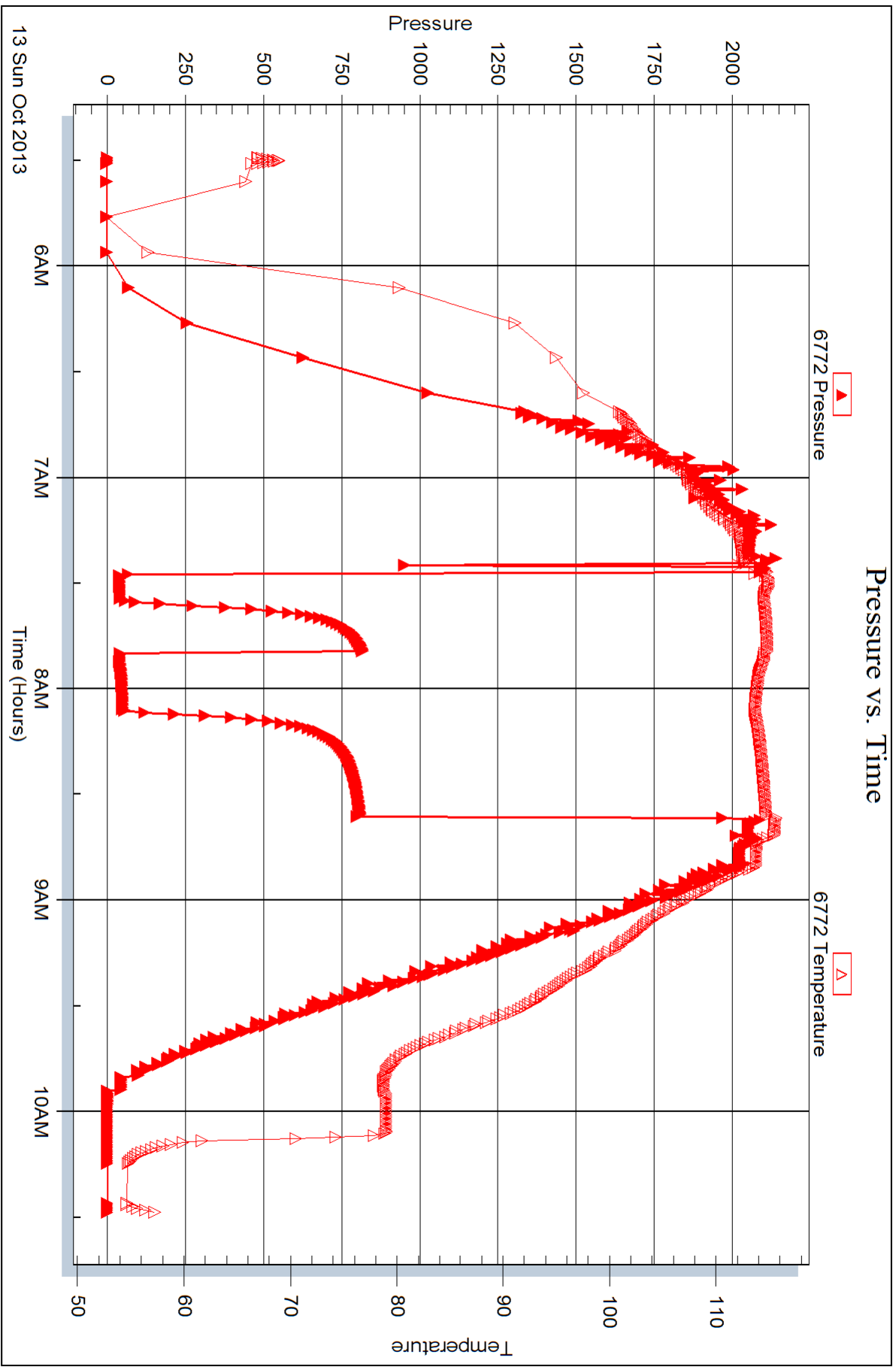
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

562 West State Rd 4
Olmitz, KS 67564

ATTN: Vern Schrag

Phyllis "B" #1-4

4-19s-29w Lane,KS

Start Date: 2013.10.15 @ 07:41:00

End Date: 2013.10.15 @ 13:56:00

Job Ticket #: 54520 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.16 @ 09:52:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc.

4-19s-29w Lane, KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

ATTN: Vern Schrag

Job Ticket: 54520

DST#: 2

Test Start: 2013.10.15 @ 07:41:00

GENERAL INFORMATION:

Formation: **Pawnee-Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:33:45

Time Test Ended: 13:56:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III (

Unit No: 64

Interval: 4462.00 ft (KB) To 4545.00 ft (KB) (TVD)

Reference Elevations: 2841.00 ft (KB)

Total Depth: 4545.00 ft (KB) (TVD)

2834.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6772 Inside

Press @ Run Depth: 97.79 psig @ 4465.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.15 End Date: 2013.10.15

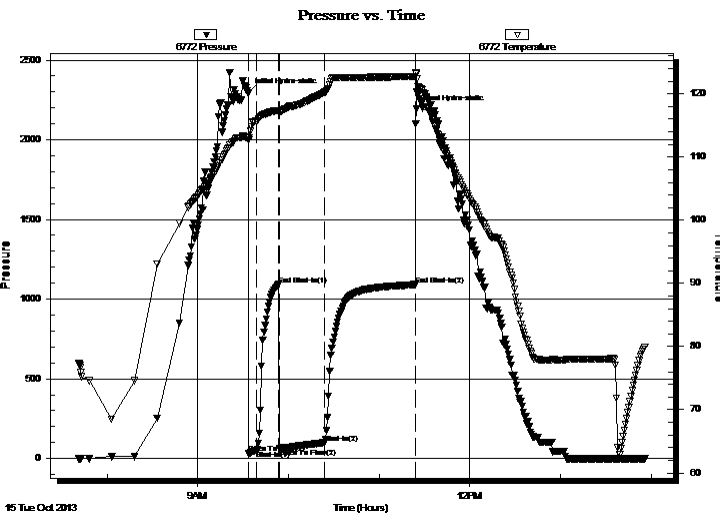
Last Calib.: 2013.10.15

Start Time: 07:41:05 End Time: 13:55:59

Time On Btm: 2013.10.15 @ 09:33:15

Time Off Btm: 2013.10.15 @ 11:24:30

TEST COMMENT: IF: 7" blow
IS: Bled off in 2 mins.- Surface blow back
FF: BOB in 5 mins.-
FS: Bled off in 3 mins.- Surface blow back-built to 1/8"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2293.67	113.07	Initial Hydro-static
1	30.01	112.72	Open To Flow (1)
6	50.96	115.67	Shut-In(1)
21	1091.60	117.39	End Shut-In(1)
21	62.86	116.98	Open To Flow (2)
51	97.79	120.17	Shut-In(2)
111	1091.75	122.74	End Shut-In(2)
112	2192.07	123.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
148.00	Mog 30m 30o 40g	0.73
31.00	Mog 30m 30o 40g	0.43
58.00	Go 10g 90o	0.81
5.00	Oil 100o	0.07

* 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.

4-19s-29w Lane, KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

Job Ticket: 54520

DST#: 2

ATTN: Vern Schrag

Test Start: 2013.10.15 @ 07:41:00

Tool Information

Drill Pipe:	Length: 4294.00 ft	Diameter: 3.80 inches	Volume: 60.23 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4462.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 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			4436.00	
Shut In Tool	5.00			4441.00	
Hydraulic tool	5.00			4446.00	
Jars	5.00			4451.00	
Safety Joint	2.00			4453.00	
Packer	5.00			4458.00	27.00 Bottom Of Top Packer
Packer	4.00			4462.00	
Stubb	1.00			4463.00	
Perforations	2.00			4465.00	
Recorder	0.00	6772	Inside	4465.00	
Recorder	0.00	8845	Outside	4465.00	
Perforations	10.00			4475.00	
Change Over Sub	1.00			4476.00	
Drill Pipe	63.00			4539.00	
Change Over Sub	1.00			4540.00	
Bullnose	5.00			4545.00	83.00 Bottom Packers & Anchor
Total Tool Length:	110.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc.

4-19s-29w Lane,KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

Job Ticket: 54520

DST#: 2

ATTN: Vern Schrag

Test Start: 2013.10.15 @ 07:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
148.00	Mog 30m 30o 40g	0.728
31.00	Mog 30m 30o 40g	0.435
58.00	Go 10g 90o	0.814
5.00	Oil 100o	0.070

Total Length: 242.00 ft

Total Volume: 2.047 bbl

Num Fluid Samples: 0

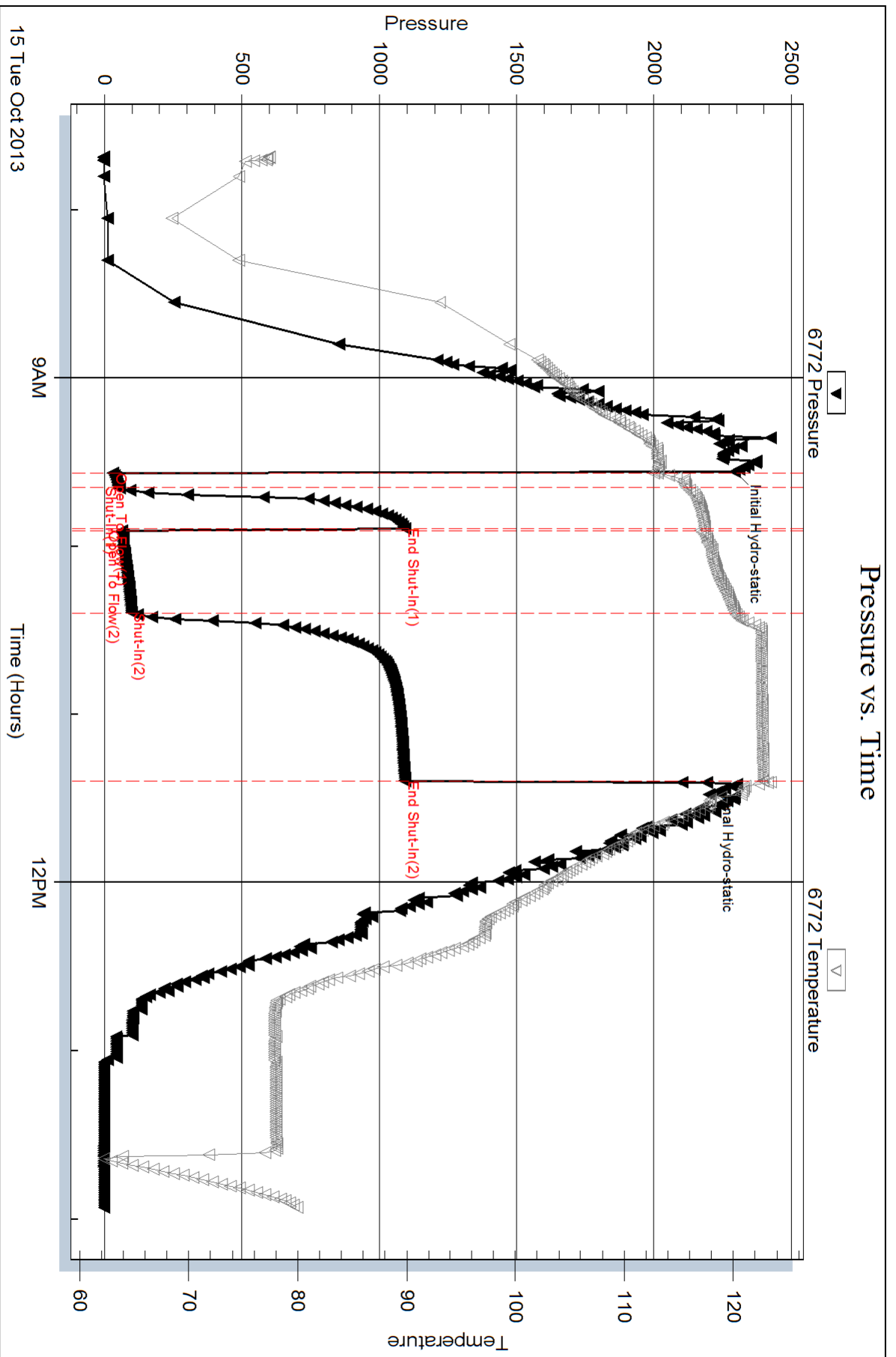
Num Gas Bombs: 0

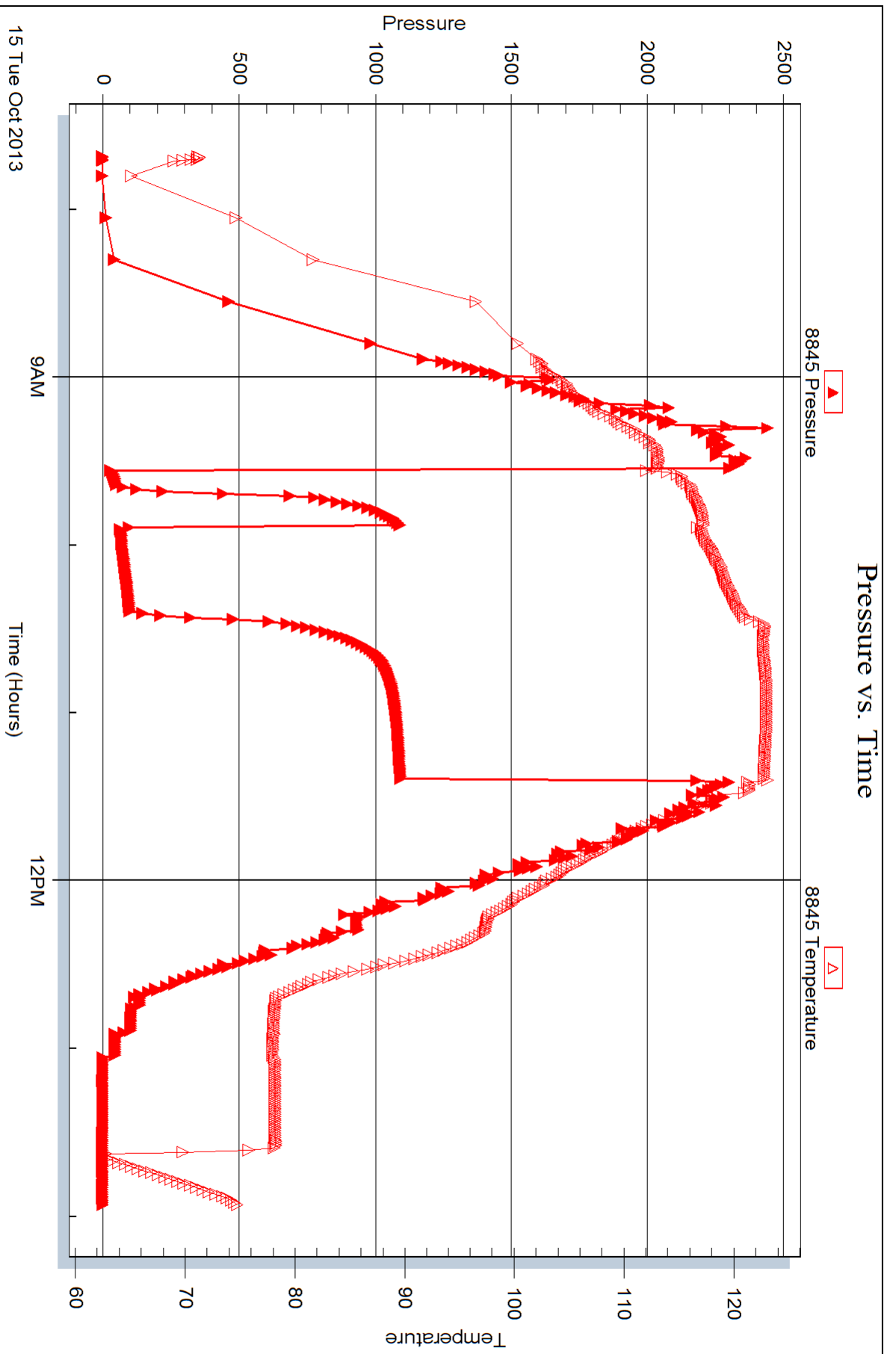
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

562 West State Rd 4
Olmitz, KS 67564

ATTN: Vern Schrag

Phyllis "B" #1-4

4-19s-29w Lane,KS

Start Date: 2013.10.16 @ 01:20:51

End Date: 2013.10.16 @ 07:05:36

Job Ticket #: 54521 DST #: 3

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

Printed: 2013.10.16 @ 09:51:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc.

4-19s-29w Lane, KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

ATTN: Vern Schrag

Job Ticket: 54521

DST#: 3

Test Start: 2013.10.16 @ 01:20:51

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:52:06
 Time Test Ended: 07:05:36
 Interval: **4540.00 ft (KB) To 4605.00 ft (KB) (TVD)**
 Total Depth: 4605.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cornelio Landa III (
 Unit No: 64
 Reference Elevations: 2841.00 ft (KB)
 2834.00 ft (CF)
 KB to GR/CF: 7.00 ft

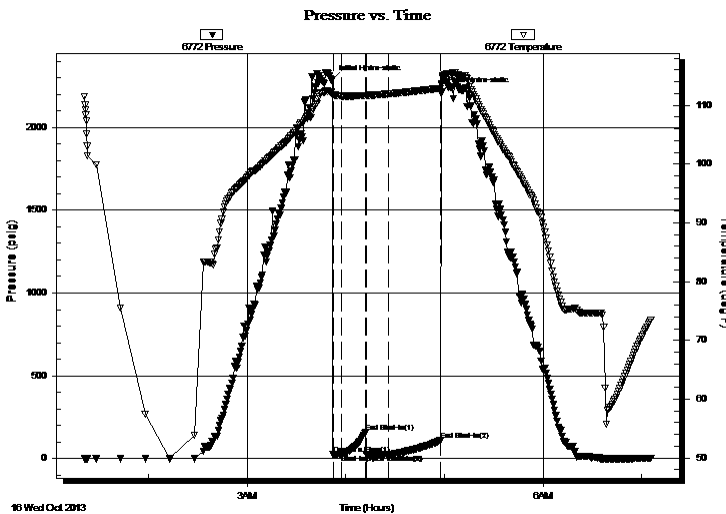
Serial #: 6772

Inside

Press @ Run Depth: 25.06 psig @ 4547.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.16 End Date: 2013.10.16 Last Calib.: 2013.10.16
 Start Time: 01:20:56 End Time: 07:05:35 Time On Btm: 2013.10.16 @ 03:51:36
 Time Off Btm: 2013.10.16 @ 04:58:21

TEST COMMENT: IF: 1/2" Blow
 IS: Weak surface Blow back
 FF: Weak surface blow -died in 8 mins.
 FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2288.36	112.24	Initial Hydro-static
1	23.02	111.76	Open To Flow (1)
6	23.61	111.57	Shut-In(1)
21	155.71	111.70	End Shut-In(1)
21	23.66	111.66	Open To Flow (2)
35	25.06	111.93	Shut-In(2)
66	109.06	112.89	End Shut-In(2)
67	2214.27	113.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Ocm 5o 95m	0.15

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering, Inc.

4-19s-29w Lane, KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

Job Ticket: 54521

DST#: 3

ATTN: Vern Schrag

Test Start: 2013.10.16 @ 01:20:51

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:52:06

Time Test Ended: 07:05:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III (

Unit No: 64

Interval: **4540.00 ft (KB) To 4605.00 ft (KB) (TVD)**

Reference Elevations: 2841.00 ft (KB)

Total Depth: 4605.00 ft (KB) (TVD)

2834.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8845 Outside

Press @ RunDepth: psig @ 4547.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.16 End Date: 2013.10.16

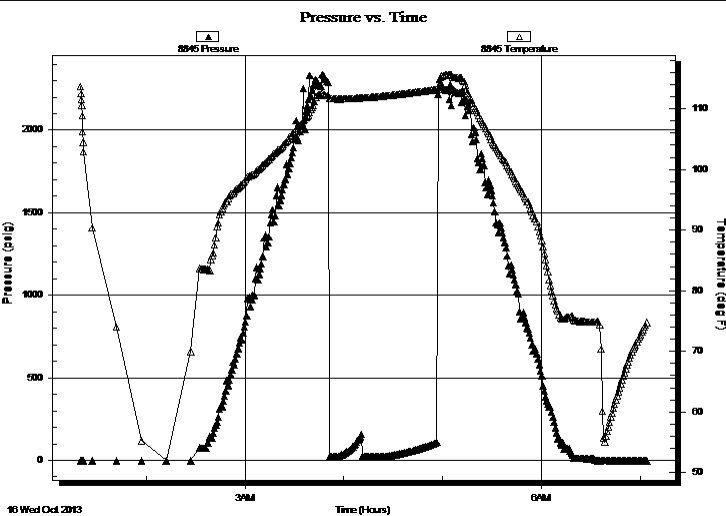
Last Calib.: 2013.10.16

Start Time: 01:20:05 End Time: 07:04:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/2" Blow
IS: Weak surface Blow back
FF: Weak surface blow -died in 8 mins.
FS: No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Ocm 5o 95m	0.15

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.

4-19s-29w Lane,KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

Job Ticket: 54521

DST#: 3

ATTN: Vern Schrag

Test Start: 2013.10.16 @ 01:20:51

Tool Information

Drill Pipe:	Length: 4389.00 ft	Diameter: 3.80 inches	Volume: 61.57 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	32000.00 lb
Drill Collar:	Length: 148.00 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 62.30 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4540.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	65.00 ft				
Tool Length:	92.00 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			4514.00	
Shut In Tool	5.00			4519.00	
Hydraulic tool	5.00			4524.00	
Jars	5.00			4529.00	
Safety Joint	2.00			4531.00	
Packer	5.00			4536.00	27.00 Bottom Of Top Packer
Packer	4.00			4540.00	
Stubb	1.00			4541.00	
Perforations	4.00			4545.00	
Perforations	2.00			4547.00	
Recorder	0.00	6772	Inside	4547.00	
Recorder	0.00	8845	Outside	4547.00	
Perforations	20.00			4567.00	
Change Over Sub	1.00			4568.00	
Drill Pipe	31.00			4599.00	
Change Over Sub	1.00			4600.00	
Bullnose	5.00			4605.00	65.00 Bottom Packers & Anchor
Total Tool Length:	92.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc.

4-19s-29w Lane, KS

562 West State Rd 4
Olmitz, KS 67564

Phyllis "B" #1-4

Job Ticket: 54521

DST#: 3

ATTN: Vern Schrag

Test Start: 2013.10.16 @ 01:20:51

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Ocm 5o 95m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

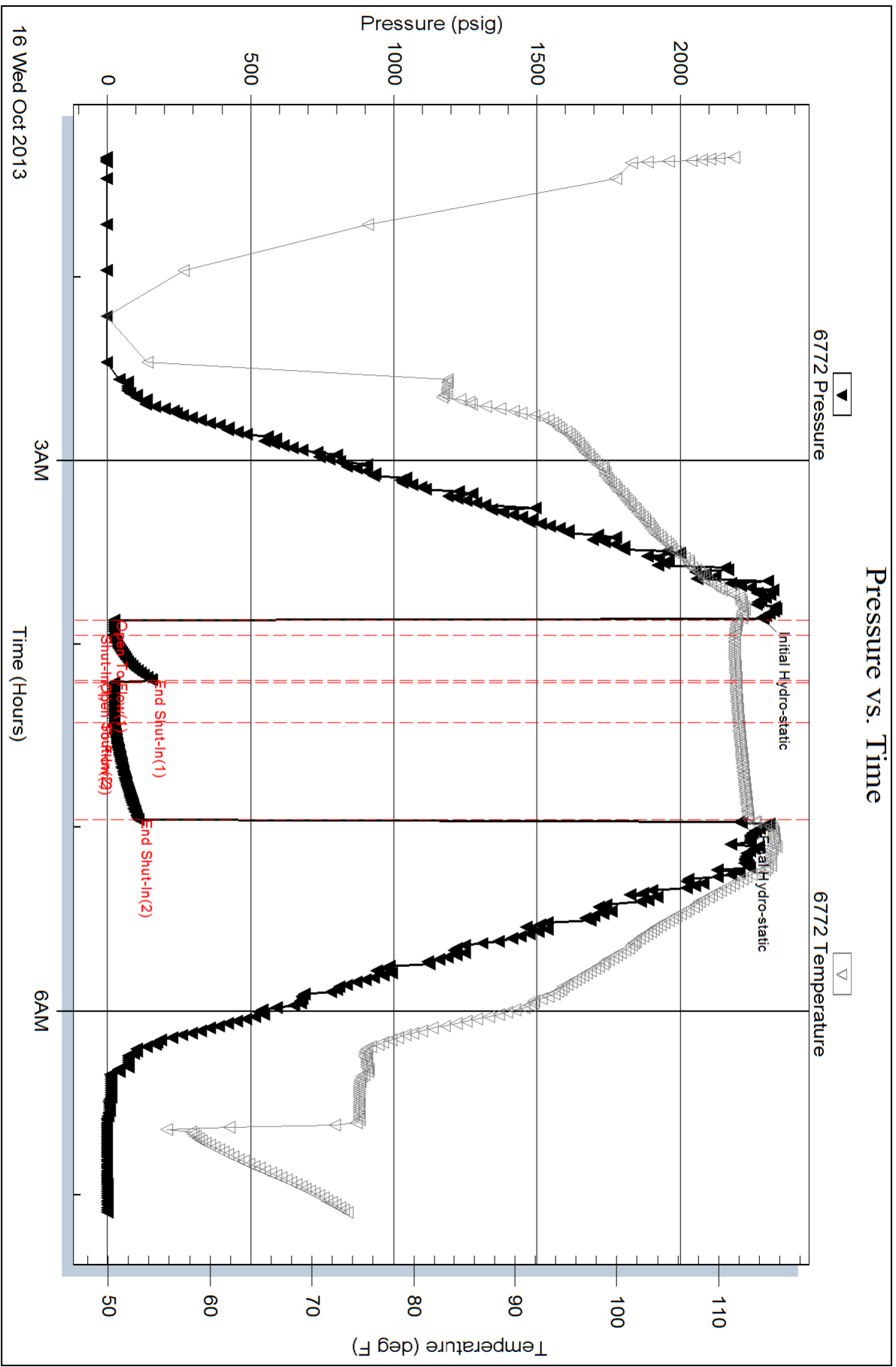
Num Gas Bombs: 0

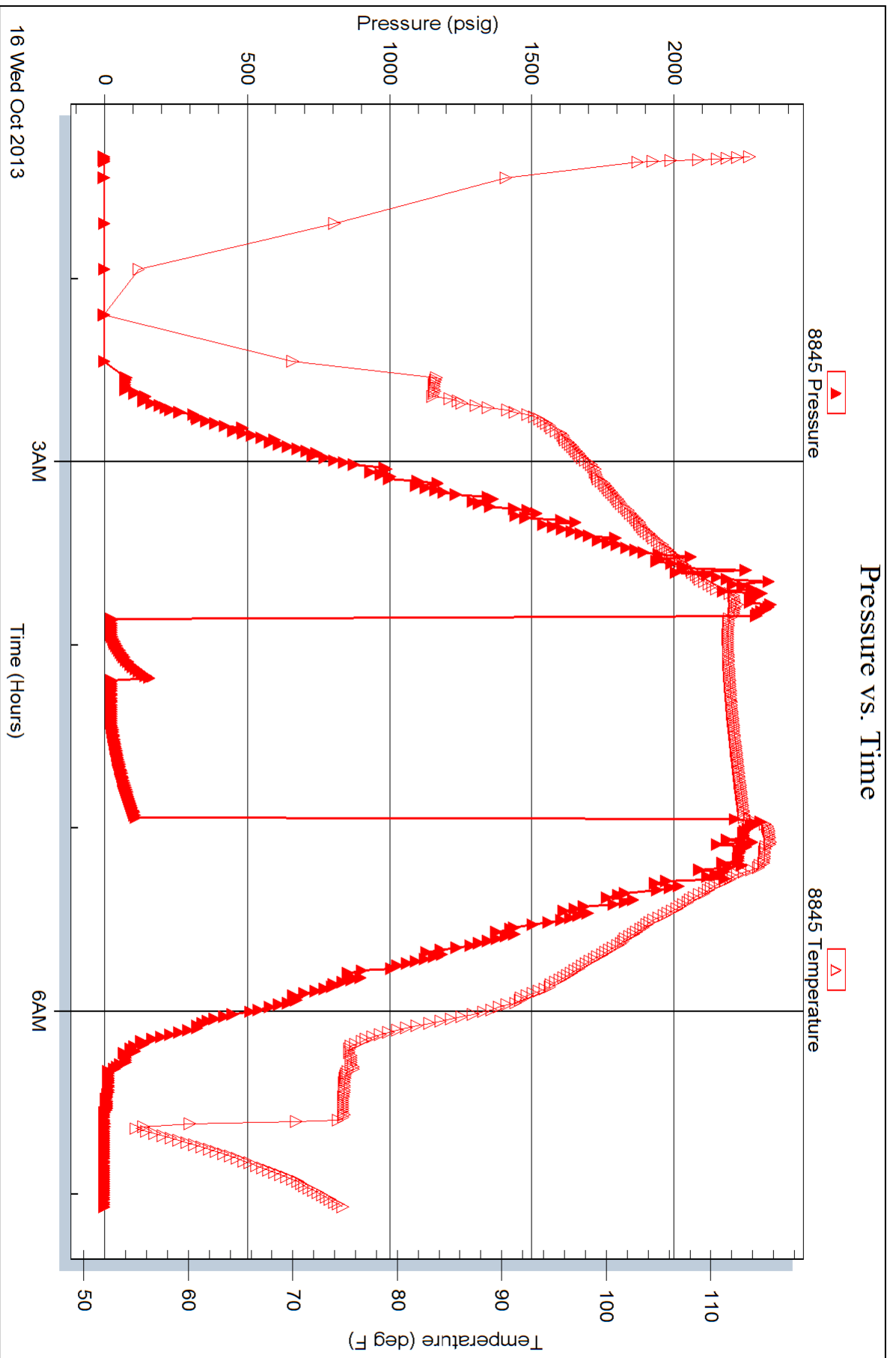
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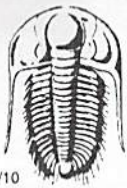
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54738**

4/10

Well Name & No. Phyllis "B" #1-4 Test No. 1 Date 10/13/13
 Company Larson Engineering, Inc. Elevation 2841 KB 2834 GL
 Address 562 West State Rd 4 Olinite, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD #3
 Location: Sec. 4 Twp. 19S Rge. 29W Co. Lane State KS

Interval Tested 4170 - 4197 Zone Tested "H"
 Anchor Length 27' Drill Pipe Run 4014 Mud Wt. 8.9
 Top Packer Depth 4166 Drill Collars Run 148 Vis 65
 Bottom Packer Depth 4170 Wt. Pipe Run 0 WL 8.0
 Total Depth 4197 Chlorides 1700 ppm System LCM 2

Blow Description IF: 1/2" Blow.
ISI: No Return.
FF: Weak surface Blow
FST: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</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 30 BHT 115 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2091</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>4:50</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:29</u>
(C) First Final Flow <u>41</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:27</u>
(D) Initial Shut-In <u>815</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/K</u>	T-Pulled <u>8:36</u>
(E) Second Initial Flow <u>40</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:18</u>
(F) Second Final Flow <u>42</u>	<input checked="" type="checkbox"/> Mileage <u>50 R/T</u> 77.50	Comments
(G) Final Shut-In <u>808</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2087</u>	<input type="checkbox"/> Straddle	

Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1652.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1652.50</u>	

Approved By Vern Schrag 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. 54520

Well Name & No. Phyllis "B" #1-4 Test No. 2 Date 10/15/13
 Company Larson Engineering Inc. Elevation 2841 KB 2834 GL
 Address 562 West State Rd 4 - Olinite, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD #3
 Location: Sec. 4 Twp. 19S Rge. 29W Co. Lane State KS

Interval Tested 4462-4545 Zone Tested Pawnee-Mynro Station - Ft. Scott
 Anchor Length 83' Drill Pipe Run 4294' Mud Wt. 9.3
 Top Packer Depth 4458 Drill Collars Run 148 Vis 64
 Bottom Packer Depth 4462 Wt. Pipe Run Ø WL 8.0
 Total Depth 4545 Chlorides 2,000 ppm System LCM #1

Blow Description FF: 7 in. of Blow

ISI: Bled off in 2 mins. - surface Blowback

FF: B.O. in 5 mins.

FSI: Bled off in 3 mins. - surface Blowback - Built to 1/2 Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>148</u>	<u>MOG</u>	<u>40</u>	<u>30</u>	<u>30</u>	<u>30</u>
<u>31</u>	<u>MOG</u>	<u>40</u>	<u>30</u>	<u>30</u>	<u>30</u>
<u>58</u>	<u>GO</u>	<u>10</u>	<u>90</u>		
<u>9</u>	<u>Clear oil</u>		<u>100</u>		
	<u>693 GIP</u>				
Rec Total	<u>242</u>	BHT	<u>123</u>	Gravity	<u>41</u>
		API RW		@	
				° F	Chlorides

(A) Initial Hydrostatic 2293 Test 1250 T-On Location 07:24
 (B) First Initial Flow 30 Jars 250 T-Started 07:41
 (C) First Final Flow 30 Safety Joint 75 T-Open 09:33
 (D) Initial Shut-In 1091 Circ Sub NTC T-Pulled 11:23
 (E) Second Initial Flow 62 Hourly Standby 21 Hrs T-Out 13:56
 (F) Second Final Flow 97 Mileage 50 RIT 77.50
 (G) Final Shut-In 1091 Sampler
 (H) Final Hydrostatic 2192 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 5
 Initial Shut-In 15
 Final Flow 30
 Final Shut-In 60
 Sub Total 708.33
 Total 2360.83
 MP/DST Disc't

Sub Total 1652.50

Approved By Vern Schrag Our Representative Carlton

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. 54521

Well Name & No. Phyllo "B" #1-4 Test No. 3 Date 10-16-13
 Company Larsen Engineering Inc. Elevation 2841 KB 2834 GL
 Address 562 West State Rd 4 - Olin, KS 67564
 Co. Rep / Geo. Vern Schrag Rig HD #3
 Location: Sec. 4 Twp. 19S Rge. 29W Co. Lanc State KS

Interval Tested 4540-4605 Zone Tested Cherokee
 Anchor Length 65' Drill Pipe Run 4389' Mud Wt. 9.1
 Top Packer Depth 4536 Drill Collars Run 148' Vis 65
 Bottom Packer Depth 4540 Wt. Pipe Run Ø WL 7.6
 Total Depth 4605 Chlorides 2400 ppm System LCM #1

Blow Description IF: 1/2 m. Blow
ISD: Weak surface Blowback
FF: Weak surface Blow - Dried in 8 mins.
ESD: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>0cm</u>		<u>5</u>	<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 113 Gravity API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2228 Test 1250 T-On Location 01:03
 (B) First Initial Flow 23 Jars 250 T-Started 01:20
 (C) First Final Flow 23 Safety Joint 75 T-Open 03:51
 (D) Initial Shut-In 155 Circ Sub N/C T-Pulled 04:56
 (E) Second Initial Flow 23 Hourly Standby T-Out 07:05
 (F) Second Final Flow 25 Mileage 77.50 Comments
 (G) Final Shut-In 109 Sampler
 (H) Final Hydrostatic 2214 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1652.50
 Accessibility MP/DST Disc't
 Sub Total 1652.50

Initial Open 5
 Initial Shut-In 15
 Final Flow 15
 Final Shut-In 30
 Approved By Vernon C. Schrag Our Representative [Signature]

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