



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1155341
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: _____



1155341

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)* _____

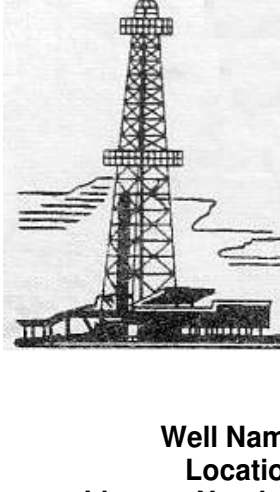
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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	Harper-Taldo 1-22
Doc ID	1155341

Tops

Name	Top	Datum
Anhydrite	2153	+652
Base Anhydrite	2181	+624
Heebner	3929	-1124
Lansing	3973	-1168
Stark	4245	-1440
Pawnee	4442	-1637
Ft Scott	4494	-1689
Cherokee	4519	-1714
Mississippi	4609	-1804



WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: Harper-Taldo #1-22
Location: SE SW SE NE SEC. 22-18s-29w
Licence Number: API: 15-101-22435
Spud Date: April 21, 2013
Surface Coordinates: 2483' FNL & 926' FEL
Region: Lane Co., KS
Drilling Completed: April 30, 2013

Bottom Hole Coordinates:
Ground Elevation (ft): 2798' K.B. Elevation (ft): 2805'
Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4676'
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
Olmits, KS 67564-8561

DRILLING CONTRACTOR:

H. D. Drilling, LLC, Rig #3

DP 4.5" XH (16.6#); DC 6.25" x 2.25" x 560', Kelly 40.30', Tool Joint 5.5" ; Bit: MD-23M to RTD, 7-7/8" jets 15-15-15; rpm 80, WOB 35k; Kelly Bushing 7' above ground level; LeWayne "Lew" Tresner (tool pusher).

CASING:

Set 8-5/8" casing at 270'

CIRCULATION SYSTEM:

Continental EMSCO D-300, duplex, 6 x 14, 60 spm, Chemical, premix, displaced 3357 to 3371"; earth pits, Morgan Mud, Inc., David Lines, Cade 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, Chris Desaire, Log total depth (4678') was two feet long to rotary total depth (4676').

DRILL STEM TEST #1:

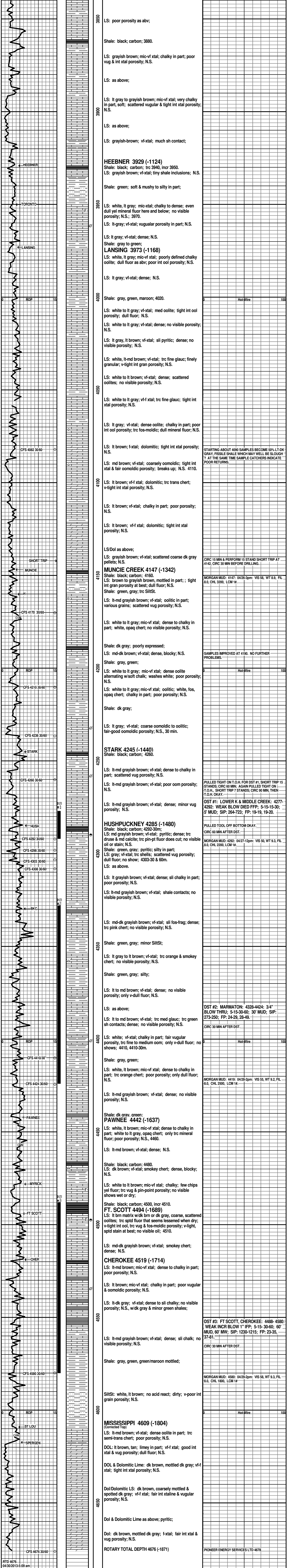
LKC: Lower K & Middle Creek: Interval: 4277-4292 (15'); Blow: weak surf IFF, no RB, no blow FFP; Times: 5-15-30-60; Recovery: 5' mud w/oil spots (100%M); Pressures: HP: 2163-2135; SIP: 264-723; FP: 19-19, 19-20; BHT: 112 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.

DRILL STEM TEST #2:

Marmaton: Interval: 4328-4424 (96'); Blow weak incr to 3/4" IFF, no RB, weak incr to 3/4" FFP, no RB; Times: 5-15-30-60; Recovery: 30' mud w/oil spots in tool (100%M); Pressures: HP: 2193-2173; SIP: 273-250; FP: 24-29, 28-49; BHT: 114 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.

DRILL STEM TEST #3:

Ft. Scott thru Cherokee: Interval: 4488-4580 (92'); Blow: weak incr to 1" IFF, no RB, weak incr to 3.5" FFP, no RB; Times: 5-15-30-60; Recovery: 120' TF, no GIP; 60' mud (100%M), 60' muddy water w/oil spots in tool (50%W, 50%M, Rw 0.25 at 70 F, chlorides 30k); Pressures: HP: 2294-2229, SIP: 1230-1215; FP: 23-35, 37-81; BHT: 114 F; Trilobite Testing, Inc., Scott City, KS, Jace McKinney.



RTD 4676
04/30/2013 5:09 am



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Vern Schrag

Harper-Taldo #1-22

22-18s-29w Lane,KS

Start Date: 2013.04.27 @ 14:00:00

End Date: 2013.04.27 @ 19:56:30

Job Ticket #: 53057 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.30 @ 09:38:33



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering, Inc
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Vern Schrag

22-18s-29w Lane, KS

Harper-Taldo #1-22

Job Ticket: 53057

DST#: 1

Test Start: 2013.04.27 @ 14:00:00

GENERAL INFORMATION:

Formation: **Middle Creek**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:55:15

Time Test Ended: 19:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 4277.00 ft (KB) To 4292.00 ft (KB) (TVD)

Reference Elevations: 2805.00 ft (KB)

Total Depth: 4292.00 ft (KB) (TVD)

2798.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 20.17 psig @ 4278.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.27

End Date:

2013.04.27

Last Calib.:

2013.04.27

Start Time: 14:00:15

End Time:

19:56:30

Time On Btm:

2013.04.27 @ 16:55:00

Time Off Btm:

2013.04.27 @ 18:00:30

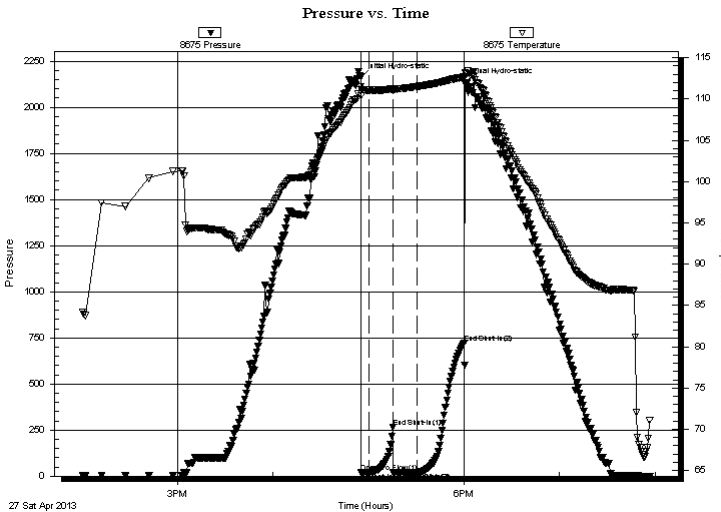
TEST COMMENT: Weak surface blow

No return blow

No blow

No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.10	111.53	Initial Hydro-static
1	18.90	110.39	Open To Flow (1)
6	19.41	111.06	Shut-In(1)
21	264.36	111.25	End Shut-In(1)
21	19.42	111.04	Open To Flow (2)
36	20.17	111.50	Shut-In(2)
65	722.86	112.67	End Shut-In(2)
66	2134.92	113.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud w ith oil spots	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 W State Rd 4
Olmitz KS 67564-8561

Harper-Taldo #1-22

Job Ticket: 53057

DST#: 1

ATTN: Vern Schrag

Test Start: 2013.04.27 @ 14:00:00

Tool Information

Drill Pipe:	Length: 4106.02 ft	Diameter: 3.80 inches	Volume: 57.60 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: 147.46 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 58.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.98 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4277.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	42.50 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			4250.50	
Shut In Tool	5.00			4255.50	
Hydraulic tool	5.00			4260.50	
Jars	5.00			4265.50	
Safety Joint	2.50			4268.00	
Packer	5.00			4273.00	27.50 Bottom Of Top Packer
Packer	4.00			4277.00	
Stubb	1.00			4278.00	
Recorder	0.00	8675	Inside	4278.00	
Recorder	0.00	8650	Outside	4278.00	
Perforations	11.00			4289.00	
Change Over Sub	0.00			4289.00	
Drill Pipe	0.00			4289.00	
Change Over Sub	0.00			4289.00	
Bullnose	3.00			4292.00	15.00 Bottom Packers & Anchor

Total Tool Length: 42.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc

22-18s-29w Lane, KS

562 W State Rd 4
Olmitz KS 67564-8561

Harper-Taldo #1-22

Job Ticket: 53057

DST#: 1

ATTN: Vern Schrag

Test Start: 2013.04.27 @ 14:00:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud with oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

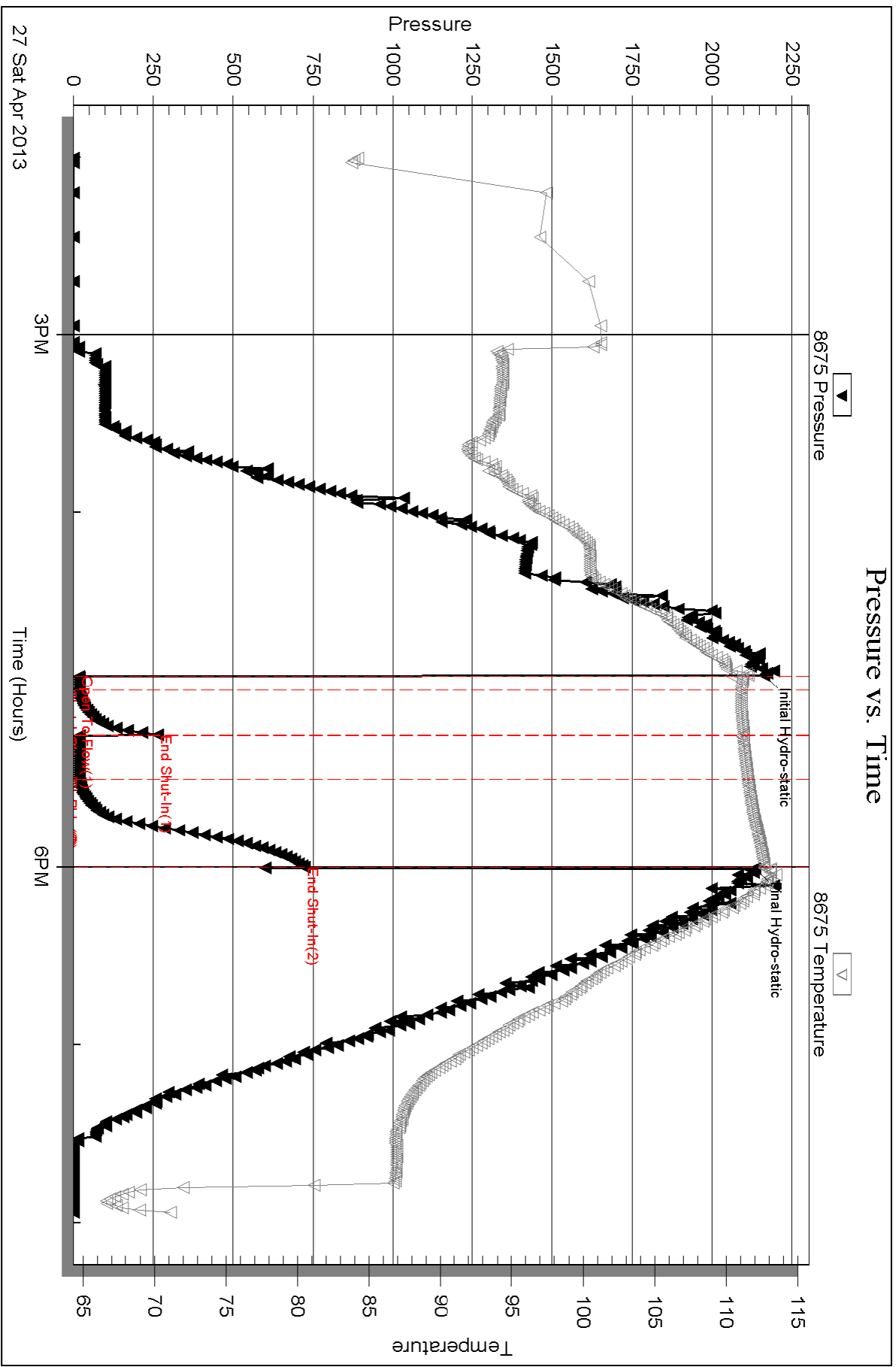
Num Gas Bombs: 0

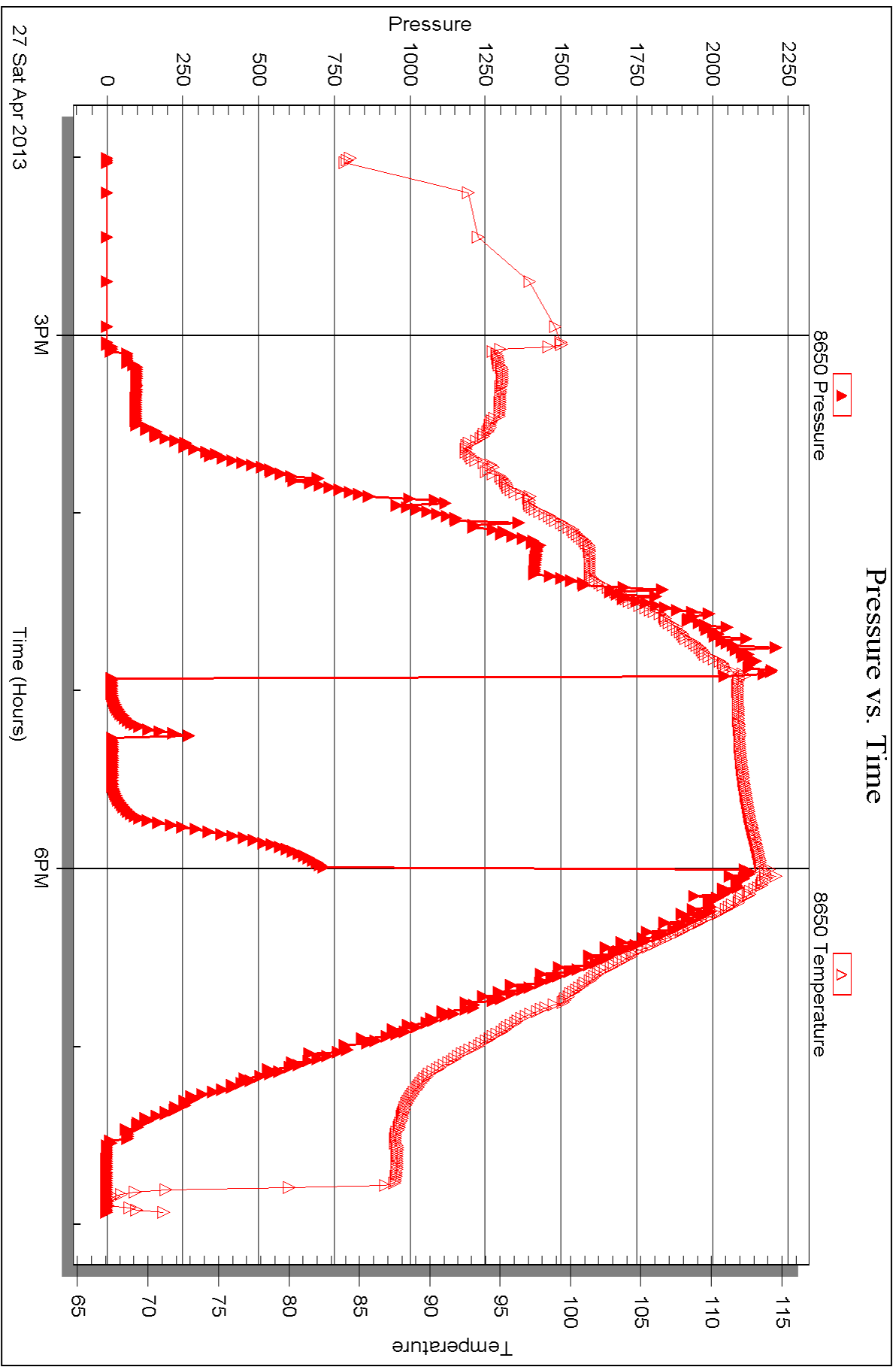
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Vern Schrag

Harper-Taldo #1-22

22-18s-29w Lane,KS

Start Date: 2013.04.28 @ 18:21:00

End Date: 2013.04.28 @ 23:50:30

Job Ticket #: 53058 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.30 @ 09:37:22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering, Inc
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Vern Schrag

22-18s-29w Lane, KS

Harper-Taldo #1-22

Job Ticket: 53058

DST#: 2

Test Start: 2013.04.28 @ 18:21:00

GENERAL INFORMATION:

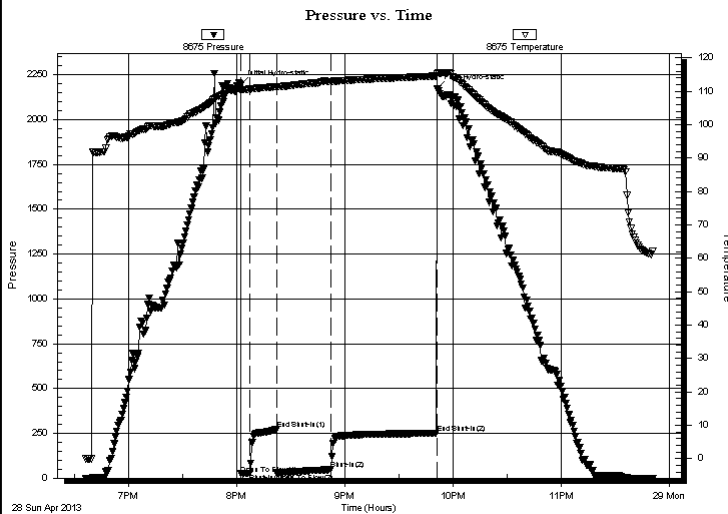
Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:02:15
 Time Test Ended: 23:50:30
 Interval: **4328.00 ft (KB) To 4424.00 ft (KB) (TVD)**
 Total Depth: 4424.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jace McKinney
 Unit No: 46
 Reference Elevations: 2805.00 ft (KB)
 2798.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 48.87 psig @ 4329.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.28 End Date: 2013.04.28 Last Calib.: 2013.04.28
 Start Time: 18:36:15 End Time: 23:50:30 Time On Btm: 2013.04.28 @ 20:02:00
 Time Off Btm: 2013.04.28 @ 21:51:15

TEST COMMENT: Built to 3/4" blow
 No return blow
 Built to 3/4" blow
 No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.14	110.93	Initial Hydro-static
1	23.80	110.23	Open To Flow (1)
6	28.68	110.61	Shut-In(1)
20	273.20	111.38	End Shut-In(1)
21	28.47	111.20	Open To Flow (2)
50	48.87	112.82	Shut-In(2)
109	249.73	114.54	End Shut-In(2)
110	2172.68	115.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100% Mud with oil spots in tool	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

22-18s-29w Lane, KS

562 W State Rd 4
Olmitz KS 67564-8561

Harper-Taldo #1-22

Job Ticket: 53058

DST#: 2

ATTN: Vern Schrag

Test Start: 2013.04.28 @ 18:21:00

Tool Information

Drill Pipe:	Length: 4168.73 ft	Diameter: 3.80 inches	Volume: 58.48 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: 147.46 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 59.21 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.69 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4328.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	96.00 ft				
Tool Length:	123.50 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			4301.50	
Shut In Tool	5.00			4306.50	
Hydraulic tool	5.00			4311.50	
Jars	5.00			4316.50	
Safety Joint	2.50			4319.00	
Packer	5.00			4324.00	27.50 Bottom Of Top Packer
Packer	4.00			4328.00	
Stubb	1.00			4329.00	
Recorder	0.00	8675	Inside	4329.00	
Recorder	0.00	8650	Outside	4329.00	
Perforations	3.00			4332.00	
Change Over Sub	1.00			4333.00	
Drill Pipe	62.00			4395.00	
Change Over Sub	1.00			4396.00	
Bullnose	28.00			4424.00	96.00 Bottom Packers & Anchor

Total Tool Length: 123.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Vern Schrag

22-18s-29w Lane, KS
Harper-Taldo #1-22
Job Ticket: 53058 **DST#: 2**
Test Start: 2013.04.28 @ 18:21:00

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 2.00 inches			

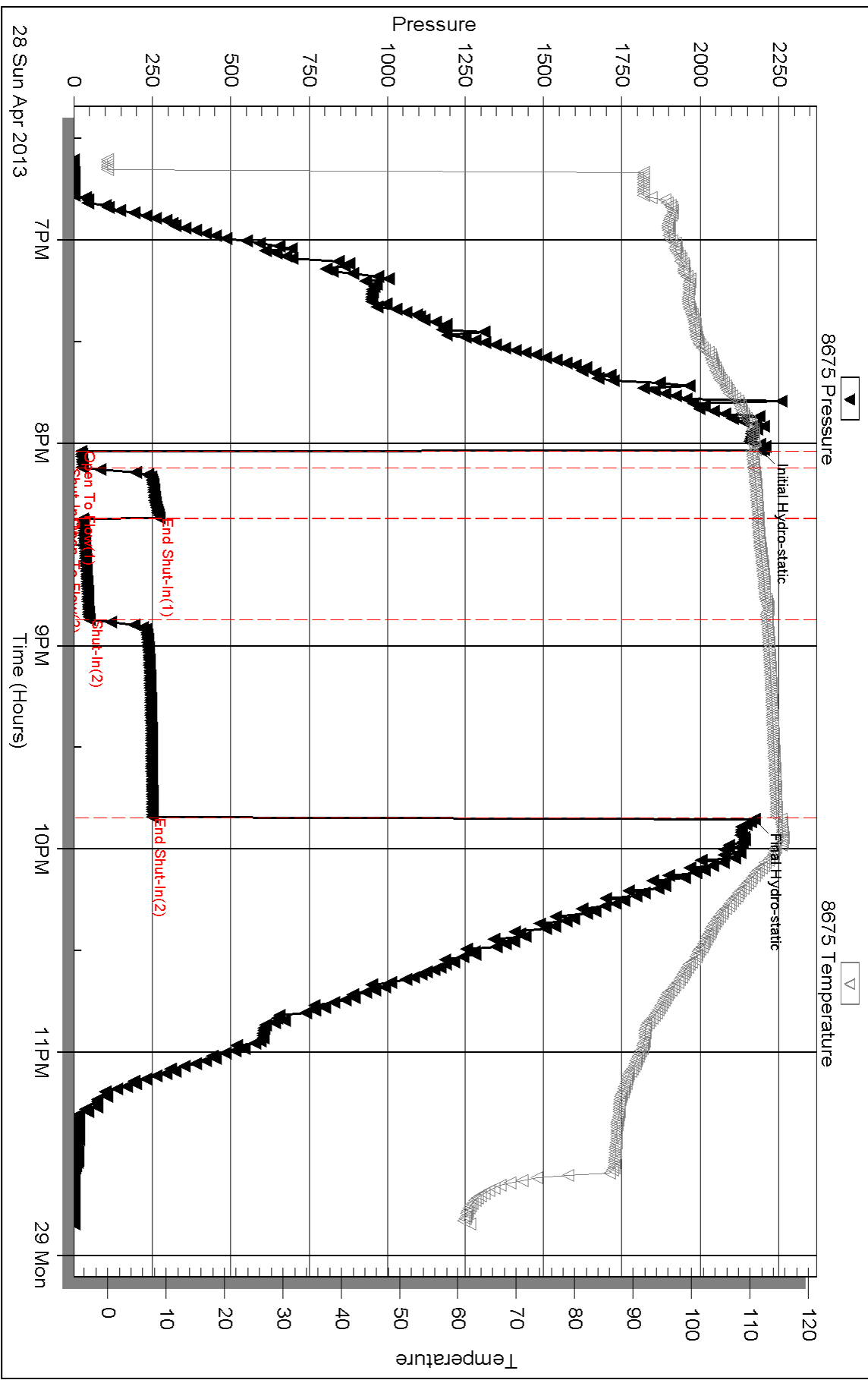
Recovery Information

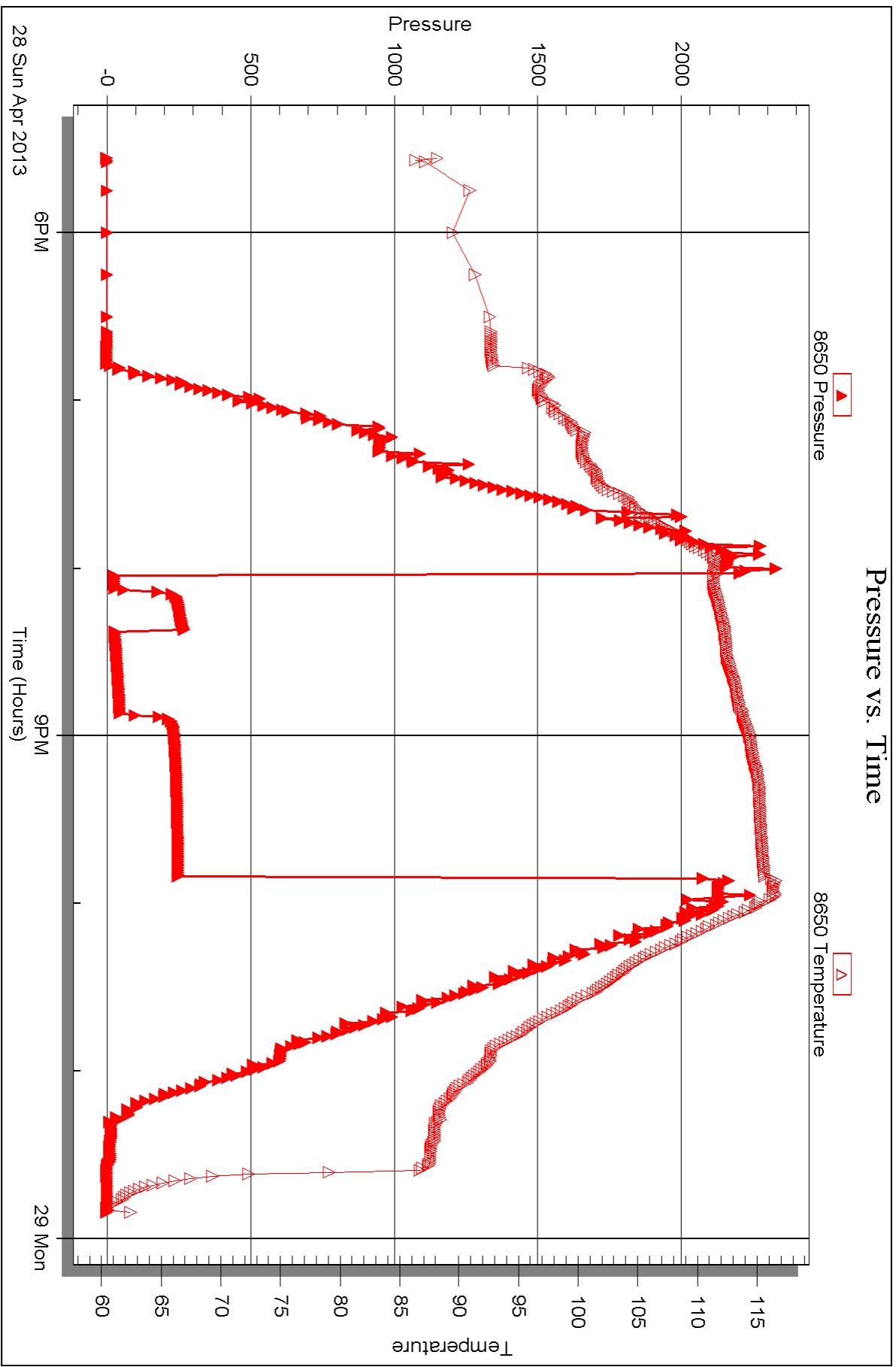
Recovery Table

Length ft	Description	Volume bbl
30.00	100% Mud with oil spots in tool	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:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering, Inc**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Vern Schrag

Harper-Taldo #1-22

22-18s-29w Lane,KS

Start Date: 2013.04.29 @ 16:40:00

End Date: 2013.04.29 @ 22:21:53

Job Ticket #: 53059 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.30 @ 09:36:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering, Inc
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Vern Schrag

22-18s-29w Lane, KS

Harper-Taldo #1-22

Job Ticket: 53059

DST#: 3

Test Start: 2013.04.29 @ 16:40:00

GENERAL INFORMATION:

Formation: **Fort Scott - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:37:00

Time Test Ended: 22:21:53

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4488.00 ft (KB) To 4580.00 ft (KB) (TVD)

Reference Elevations: 2805.00 ft (KB)

Total Depth: 4580.00 ft (KB) (TVD)

2798.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 81.19 psig @ 4489.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.29

End Date: 2013.04.29

Last Calib.: 2013.04.29

Start Time: 16:40:15

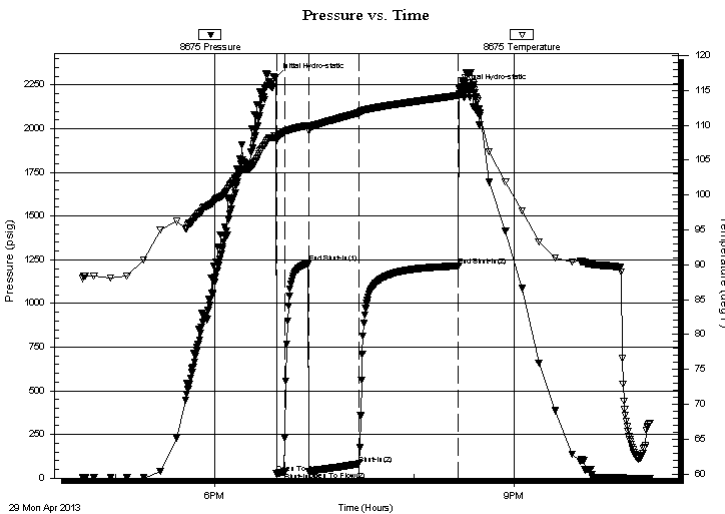
End Time: 22:21:53

Time On Btm: 2013.04.29 @ 18:36:45

Time Off Btm: 2013.04.29 @ 20:27:15

TEST COMMENT: Built to 1" blow
No return blow
Built to 3 1/2" blow
No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2294.36	108.54	Initial Hydro-static
1	25.03	107.74	Open To Flow (1)
5	35.48	108.95	Shut-In(1)
20	1230.14	110.00	End Shut-In(1)
20	37.05	109.18	Open To Flow (2)
50	81.19	111.78	Shut-In(2)
110	1214.71	114.28	End Shut-In(2)
111	2228.71	114.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	100% Mud	0.30
60.00	mcw 50%M 50%W w ith oil spots in too	0.30

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 W State Rd 4
Olmitz KS 67564-8561

Harper-Taldo #1-22

Job Ticket: 53059

DST#: 3

ATTN: Vern Schrag

Test Start: 2013.04.29 @ 16:40:00

Tool Information

Drill Pipe:	Length: 4325.28 ft	Diameter: 3.80 inches	Volume: 60.67 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: 147.46 ft	Diameter: 2.25 inches	Volume: 0.73 bbl	Weight to Pull Loose: 104000.0 lb
			<u>Total Volume: 61.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.24 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4488.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	119.50 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			4461.50	
Shut In Tool	5.00			4466.50	
Hydraulic tool	5.00			4471.50	
Jars	5.00			4476.50	
Safety Joint	2.50			4479.00	
Packer	5.00			4484.00	27.50 Bottom Of Top Packer
Packer	4.00			4488.00	
Stubb	1.00			4489.00	
Recorder	0.00	8675	Inside	4489.00	
Recorder	0.00	8650	Outside	4489.00	
Perforations	3.00			4492.00	
Change Over Sub	1.00			4493.00	
Drill Pipe	62.00			4555.00	
Change Over Sub	1.00			4556.00	
Bullnose	24.00			4580.00	92.00 Bottom Packers & Anchor

Total Tool Length: 119.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering, Inc
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Vern Schrag

22-18s-29w Lane, KS
Harper-Taldo #1-22
Job Ticket: 53059 **DST#: 3**
Test Start: 2013.04.29 @ 16:40:00

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: 2.00 inches			

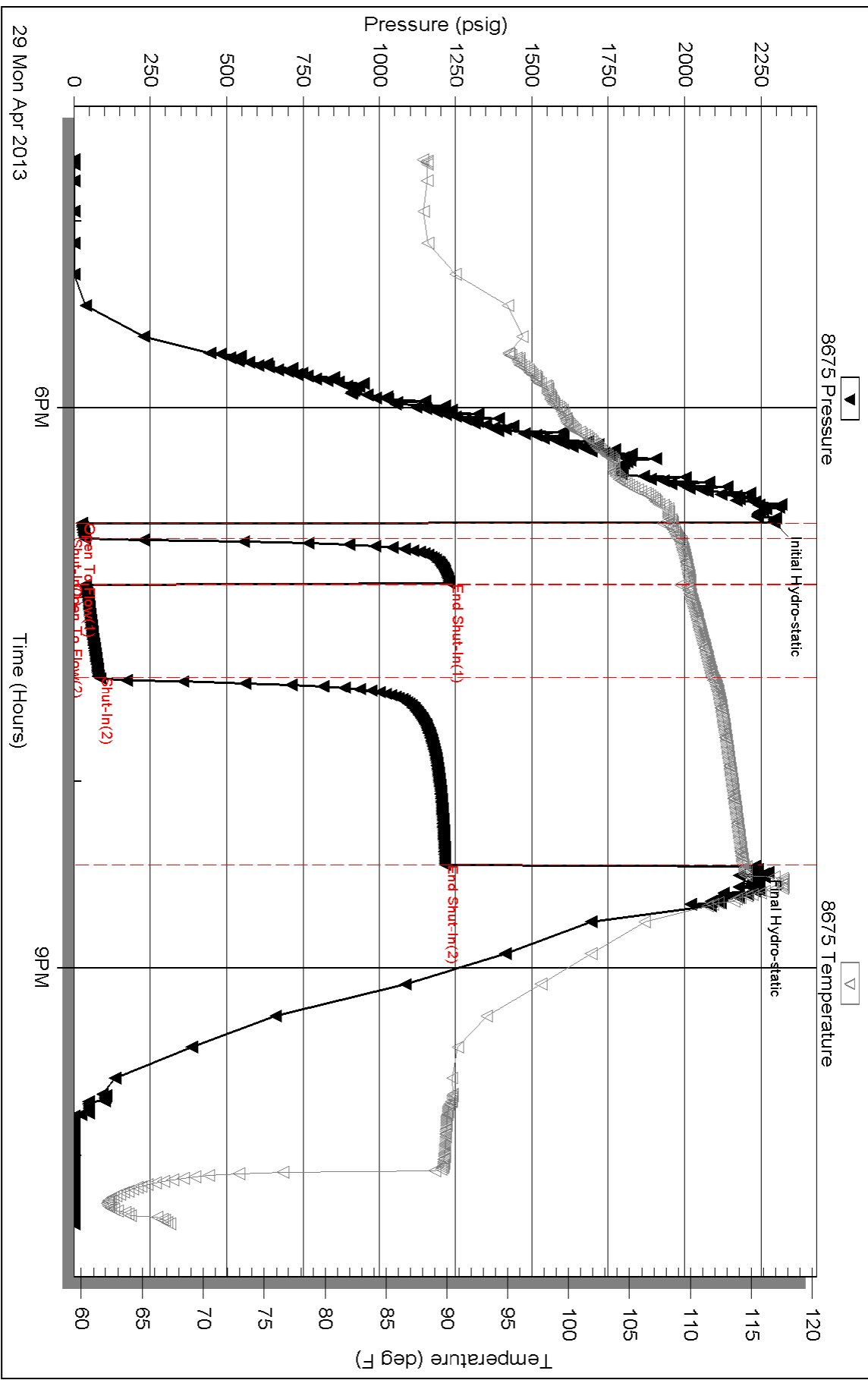
Recovery Information

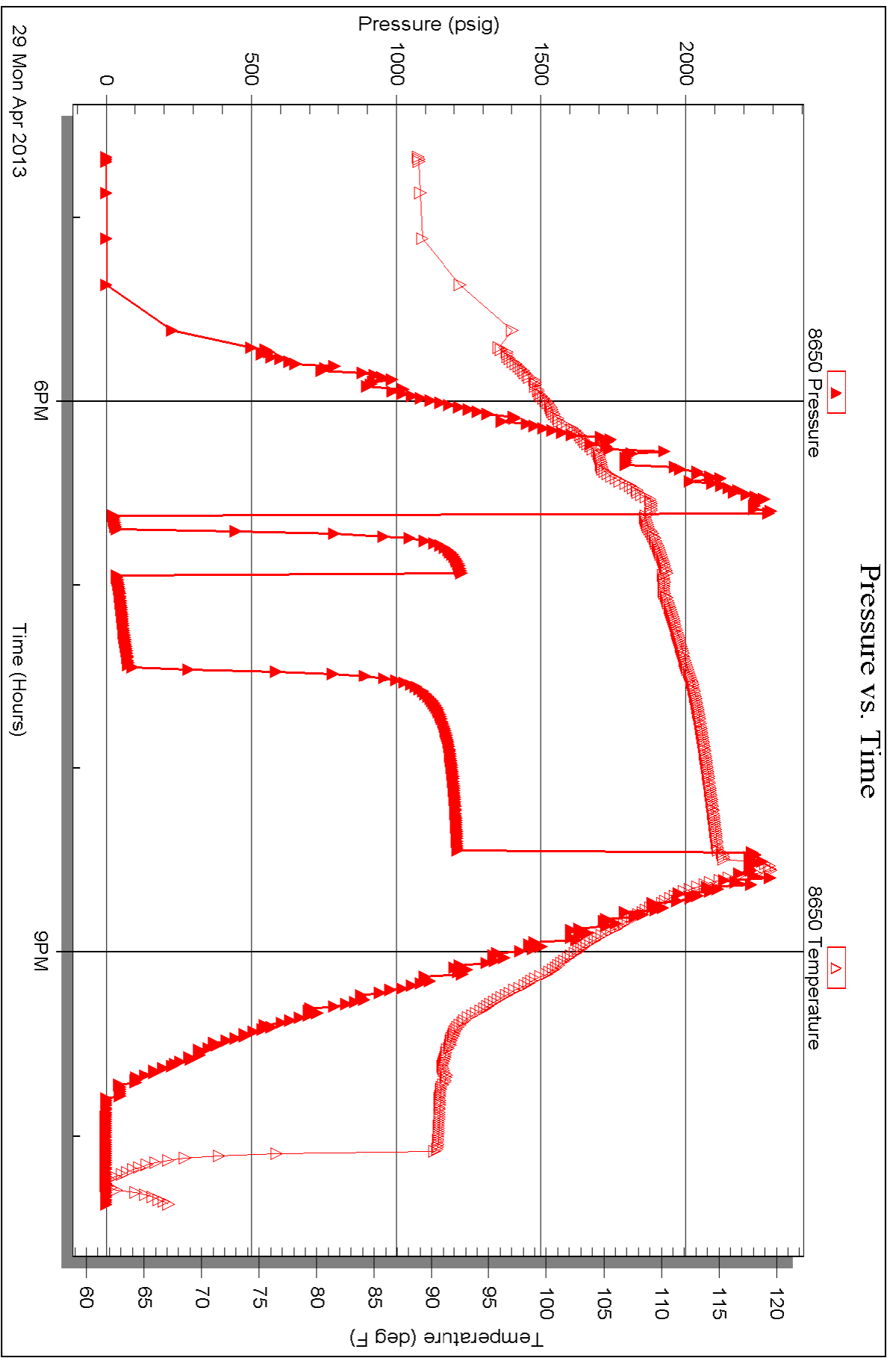
Recovery Table

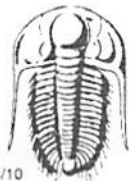
Length ft	Description	Volume bbl
60.00	100% Mud	0.295
60.00	mcw 50%M 50%W w ith oil spots in tool	0.295

Total Length: 120.00 ft Total Volume: 0.590 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW: .25 @ 70 F = 30,000

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53057

Well Name & No. Harper-Taldo #1-22 Test No. 1 Date 4/27/13
 Company Larson Engineering, Inc Elevation 2805 KB 2798 GL
 Address 562 W State Rd 4 Olmitz KS, 67564-8561
 Co. Rep / Geo. Vern Schrag Rig HP Rig 3
 Location: Sec. 22 Twp. 18S Rge. 29W Co. Lane Co. State KS

Interval Tested 4277-4292 Zone Tested Middle Creek
 Anchor Length 15 Drill Pipe Run 4106.02 Mud Wt. 8.9
 Top Packer Depth 4273 Drill Collars Run 147.46 Vis 5B
 Bottom Packer Depth 4277 Wt. Pipe Run _____ WL 8.0
 Total Depth 4292 Chlorides 3,200 ppm System LCM 1 #

Blow Description Weak surface below
No return below
No below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud with oil spots</u>				<u>5</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 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

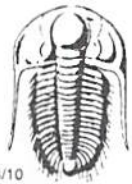
(A) Initial Hydrostatic 2,163 Test 1250 T-On Location 10:00
 (B) First Initial Flow 19 Jars 250 T-Started 14:00
 (C) First Final Flow 19 Safety Joint 75 T-Open 16:55
 (D) Initial Shut-In 264 Circ Sub 50 RT N/C T-Pulled 18:00
 (E) Second Initial Flow 19 Hourly Standby 2115 ^{Have to short} _{this trip second time} T-Out 19:56
 (F) Second Final Flow 20 Mileage 50 RT 77.50
 (G) Final Shut-In 723 Sampler _____
 (H) Final Hydrostatic 2,135 Straddle _____

Comments Standby because two short trips & locks locked they couldn't get them to turn.

Initial Open 5 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 15 Extra Packer _____ Ruined Packer _____
 Final Flow 15 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1652.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1652.50

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. 53058

Well Name & No. Harper-Taldo #1-22 Test No. 2 Date 4/28/13
 Company Larson Engineering, Inc. Elevation 2805 KB 2798 GL
 Address 562 W State Rd 4, Olmitz KS, 67564-8561
 Co. Rep / Geo. Vern Schraeg Rig HD Rig 3
 Location: Sec. 22 Twp. 78s Rge. 29w Co. Lane Co. State KS

Interval Tested 4328-4424 Zone Tested Marmaton
 Anchor Length 96 Drill Pipe Run 4168.73 Mud Wt. 9.2
 Top Packer Depth 4324 Drill Collars Run 147.46 Vis 55
 Bottom Packer Depth 4328 Wt. Pipe Run _____ WL 8.0
 Total Depth 4424 Chlorides 2,500 ppm System LCM 1.0 #

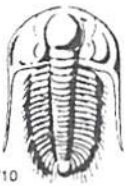
Blow Description Built to 3/4" below
No return below
Built to 3/4" below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud with oil spots in tool</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 30 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2,193</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>16:45</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>17:25</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open 19:00 <u>20:00</u>
(D) Initial Shut-In <u>273</u>	<input checked="" type="checkbox"/> Circ Sub <u>w/c</u>	T-Pulled <u>21:50</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:50</u>
(F) Second Final Flow <u>49</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT</u> 77.50	Comments _____
(G) Final Shut-In <u>250</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2,173</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>1652.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1652.50</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. 53059

Well Name & No. Harper-Taldo # 1-22 Test No. 3 Date 4/29/13
 Company Larson Engineering, Inc. Elevation 2805 KB 2798 GL
 Address 562 W State Rd 4 Olmitz KS, 67564-8561
 Co. Rep / Geo. Vern Schray Rig HD Rig 3
 Location: Sec. 22 Twp. 18S Rge. 29W Co. Lane Co. State KS

Interval Tested 4488-4580 Zone Tested Fort Scott - Johnson
 Anchor Length 92 Drill Pipe Run 4325.28 Mud Wt. 9.2
 Top Packer Depth 4484 Drill Collars Run 147.4L Vis 58
 Bottom Packer Depth 4488 Wt. Pipe Run _____ WL 8.0
 Total Depth 4580 Chlorides 1,800 ppm System LCM 1.0 #

Blow Description Built to 1" below
No return below
Built to 3 1/2" below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Mud</u>			<u>100</u>	
<u>60</u>	<u>Mud oil spots in tool</u>		<u>50</u>	<u>50</u>	

Rec Total 120 BHT 114 Gravity — API RW 25 @ 70 ° F Chlorides 30,000 ppm

(A) Initial Hydrostatic <u>2,294</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>16:20</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>16:40</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>18:36</u>
(D) Initial Shut-In <u>1,230</u>	<input checked="" type="checkbox"/> Circ Sub N/C	T-Pulled <u>20:26</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:22</u>
(F) Second Final Flow <u>81</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT</u> 77.50	Comments _____
(G) Final Shut-In <u>1,215</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2,229</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1652.50

Sub Total 0
 Total 1652.50
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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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. 1/2 mile south (1600)</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. 273 FT

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% Cccl + 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>4,727.03</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



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

TICKET No 24751

PAGE 1 OF 2

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		125.00	250.00
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

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	2.00	1800.00
284						CAISEAL	8	bx	35.00	280.00
277						GILSONITE	1750	lbs	7.50	13125.00
292						HALAD 322	165	lbs	7.75	1278.75
290						D-AIR	2	gal	35.00	70.00
325						STANDARD CEMENT EA2	175	sk	13.50	2362.50
581						SERVICE CHARGE		CUBIC FEET	2.00	350.00
583						MILEAGE CHARGE	20	TOTAL WEIGHT	1.00	402.30
							40	LOADED MILES		
								TON MILES		

CONTINUATION TOTAL 6336.05



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

TICKET No. **24754**

PAGE **1** OF

SERVICE LOCATIONS: 1. **NESS CITY, KS**
 WELL/PROJECT NO.: **1-22** LEASE: **HARPER-TALDD** COUNTY/PARISH: **LANE** STATE: **KS** CITY: **DIGHTON, KS** DATE: **6 MAY 13** 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: **2W, S/W INTO**
 4. REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE # 115	40		mi		6.00	240.00
276 576D					Pump CHARGE					1500.00	1500.00
276					FLOCELE	55		lb		2.00	110.00
290					D-AIR	2		gal		42.00	84.00
330					SMD CEMENT	205		sq		17.00	3485.00
581					CEMENT SERVICE CHARGE	275		sq		2.00	550.00
583					DRAVAGE	27320	1	lb	546.417M	1.00	546.42

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 MAY 13** TIME SIGNED: **1230** 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?					
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				TOTAL	6783.97

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR: *Juan E. Roxliff* APPROVAL: _____
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 10 MAY 23 PAGE NO.

CUSTOMER LARSON ENGINEERING

WELL NO.

LEASE

HARPER-TALDO 122

JOB TYPE

CEMENT PORT COLLAR

TICKET NO.

24754

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1045							ON LOCATION
								PORT COLLAR @ 2129
	1115				✓		1000	TEST-HELD
	1117							OPEN PORT COLLAR
	1123	4	114		✓		600	MIX 205 SX SMD
		3 1/2	7 1/2		✓		300	DISPLACE CEMENT
								CIRCULATE CEMENT TO SURFACE
	1151				✓		1000	CLOSE PORT COLLAR-TEST-HELD
	1155							RUN 5' JTS.
	1200	4	20		✓		300	REVERSE CEMENT OUT OF TUBING
	1212							WASH TRUCK
	1230							JOB COMPLETE
								THANKS #115
								JASON JEFF ISAAC

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 15, 2013

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

Re: ACO1
API 15-101-22435-00-00
Harper-Taldo 1-22
NE/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