

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1322895
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: _____

1322895

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	RAMSEY-WILSON UNIT 1-12
Doc ID	1322895

Tops

Name	Top	Datum
Anhydrite	2244	+672
B Anhydrite	2303	+613
Heebner	3917	-1001
Lansing	3961	-1045
Stark Sh	4243	-1327
Pawnee	4438	-1522
Cher Sh	4502	-1586
Mississippi	4571	-1655



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

TICKET 29722

SERVICE LOCATIONS: 1. Ness City KS
 WELL/PROJECT NO. 1-12 LEASE Ramsey - Wilson COUNTY/PARISH Scott STATE KS CITY Grigston DATE 6 OCT 16 OWNER _____
 2. TICKET TYPE SERVICE SALES CONTRACTOR _____ RIG NAME/NO. _____ SHIPPED VIA CT DELIVERED TO location ORDER NO. _____
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE Cement surface pipe WELL PERMIT NO. _____ WELL LOCATION 12-18-31
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	50		mi		5.00	250.00
5765		1			Pump Charge	1		ea		800.00	800.00
325		1			Standard cement	165		sk		12.85	2021.25
279		1			Bentonite gel	2	3	sk		25.00	75.00
278		1			Calcium chloride	3	8	sk		40.00	320.00
276		1			Floccle	25		lb		2.25	56.25
581		1			Service charge	165		sk		1.50	247.50
583		1			Drayage	16185	16	404.63	TM	0.75	303.47

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 5:20 PM

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

SURVEY			AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?						4073.47
WE UNDERSTOOD AND MET YOUR NEEDS?						-407.85
OUR SERVICE WAS PERFORMED WITHOUT DELAY?						10% Disc
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?						3666.12
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO				Scotty 85%
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						189.15
TOTAL						3855.27

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

JOB LOG

SWIFT Services, Inc.

DATE 6 Oct 16 PAGE NO. 1

CUSTOMER *LRSM Engineering* WELL NO. *1-12* LEASE *Ramsey Wilson* JOB TYPE *Cement surface pipe* TICKET NO. *29722*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								<i>165 sk STANDARD cement 2% @ 3/8" 3/8" 3/4" Florida</i>
								<i>8 5/8" x 20" casing</i>
								<i>6 jts - 256 ft TD = 256'</i>
	<i>0000</i>							<i>on loc TRK 114</i>
	<i>0115</i>							<i>start 8 5/8" in well</i>
	<i>0205</i>							<i>circ well</i>
	<i>0228</i>	<i>3 1/2</i>	<i>40</i>			<i>200</i>		<i>MIX STD 2% 3/8" 165 sk @ 14.7 gpg</i>
	<i>0248</i>	<i>3 1/2</i>				<i>200</i>		<i>Displace cement</i>
		<i>3 1/2</i>	<i>13</i>					<i>→ Cement to surface ←</i>
	<i>0300</i>	<i>3 1/2</i>	<i>15 1/4</i>			<i>250</i>		<i>Kickout</i>
								<i>shot in 8 5/8" (10 sk to pit 165 sk mixed)</i>
	<i>0305</i>							<i>wash truck</i>
								<i>Rack up</i>
	<i>0330</i>							<i>job complete</i>
								<i>of hands</i>
								<i>Blaine, Flint, & JOHN</i>



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

TICKET 29725

SERVICE LOCATIONS: Mud City KS
 WELL/PROJECT NO. 1-12 LEASE Ramsay-Wilson COUNTY/PARISH Scott STATE KS CITY Grigston DATE 14 Oct 16 OWNER _____
 TICKET TYPE SERVICE SALES CONTRACTOR _____ RIG NAME/NO. _____ SHIPPED WCT DELIVERED TO location ORDER NO. _____
 WELL TYPE Oil WELL CATEGORY SOURCE WIND JOB PURPOSE plug to Abandon WELL PERMIT NO. _____ WELL LOCATION 12-18-86
 REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRX 114	60		mi		5.20	258.00
576P		1			Pump Charge	1		ea		800.00	800.00
328-4		1			60/40 pozmix (4% oil)	300		sk		10.25	3075.00
276		1			Flocele	150		sk		2.25	337.50
290		1			D-AIR	3		gal		42.00	126.00
581		1			service charge	300		sk		1.50	450.00
583		1			Drayage	2500	16		627.75/TM	0.25	470.81

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.
 2:55

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?				5509	31
WE UNDERSTOOD AND MET YOUR NEEDS?				102.035	-550.93
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				307	4958.38
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				5804.00	
ARE YOU SATISFIED WITH OUR SERVICE?				8.590	421.46
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	5379.84

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

SWIFT OPERATOR B. H. APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

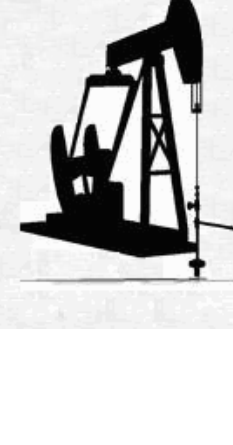
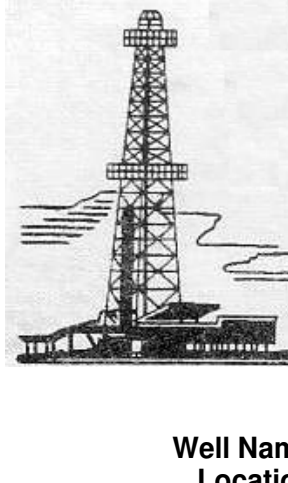
DATE 14 OCT 16 PAGE NO. 1

CUSTOMER *Acson Engineering* WELL NO. 1-12 LEASE *Laney Wilson* JOB TYPE *Plug to Abandon* TICKET NO. 29725

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								300 sk 60/40 poz mix (4% gel) w/ 1/4" floccul 4 1/2" DRILL PIPE
								1st plug 50 sk - 2300'
								2 80 - 1500
								3 50 - 700
								4 50 - 300
								5 20 - 60
								RH - 30 sk MH - 20 sk
	2000							on loc TRK 114
	2045	3 1/2	13				200	mix 60/40 poz (4%) @ 13.1 ppg 50 sk - 2300'
		3 1/2	26				200	Displace w/ mud
	2057							pull to 1530'
	2128	3 1/2	21				200	2nd plug mix 60/40 poz (4% gel) 50 sk @ 13.1 ppg
		3 1/2	14				200	Displace 14 bbl
	2143							pull to 700'
	2200	3 1/2	13				200	3rd plug mix 60/40 poz (4% gel) 50 sk @ 13.1 ppg
		3 1/2	4				200	Displace 4 bbl
								pull to 300'
	2248	3 1/2	13				150	4th plug mix 60/40 poz (4%) @ 13.1 50 sk
		3 1/2	2 1/2				150	Displace 2 1/2 bbl
								pull to 60'
	2318	2 1/2	6				100	5th plug mix 60/40 poz (4%) @ 13.1 20 sk
	2325		6					Plug MH - 20 sk
			8					RH - 30 sk
								300 sk TOTAL
								Cement standing at surface
	2332							Work truck
								Rack up
	2358							Job complete
								Thanks Boise, Flint & Isaac

WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



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

Well Name: **RAMSEY-WILSON UNIT #1-12**
 Location: **SE SE NE SW SEC. 12-18S-31W**
 Licence Number: **API: 15-171-21182**
 Spud Date: **October 05, 2016**
 Surface Coordinates: **1462' FSL & 2608' FWL**

Region: **Scott Co., KS**
 Drilling Completed: **October 14, 2016**

Bottom Hole Coordinates:
 Ground Elevation (ft): **2906'**
 Logged Interval (ft): **3800'**
 Formation: **D&A, Mississippi**
 Type of Drilling Fluid: **Chemical Premix (Displaced)**

K.B. Elevation (ft): **2916'**
 To: **RTD** Total Depth (ft): **4647'**

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:

Southwind Drilling Co., Rig #1

DP 4.5" XH; DC 6-1/4" x 2-3/8" x 522.50', Kelly 40.00', Tool Joint 5.5" ; Bit: JZ-HA20Q, 7-7/8", standard jets 15-15-15; rpm 75, WOB 35k; Kelly Bushing 10' above ground level; Doug Roberts (tool pusher).

CASING:

Set 8-5/8" casing at 254'

CIRCULATION SYSTEM:

Continental EMSCO D-375, duplex, 6 x 14, 58 spm, Chemical, premix, earth pits, displaced 3491', Mud-Co, Service Mud, Inc., Colby, KS, Reid Atkins.

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, T. Martin, Log total depth (4647') was flat to rotary total depth (4647').

DRILL STEM TEST #1:

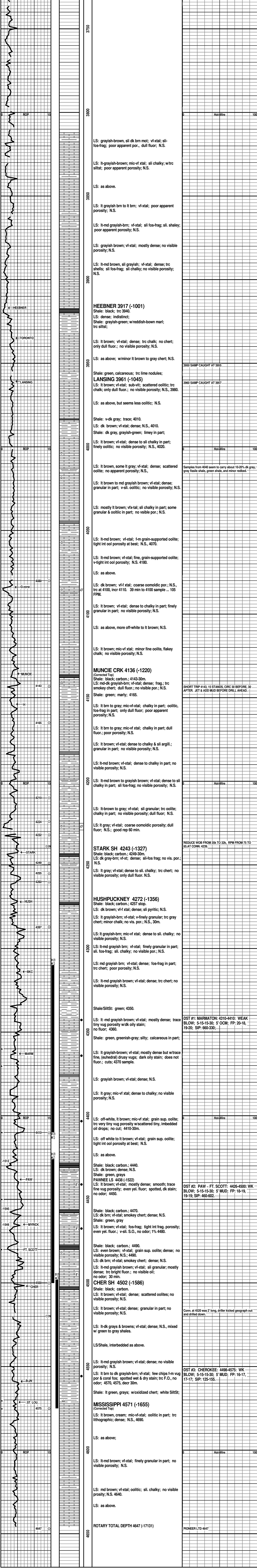
Pleasanton, Marmaton: Interval: 4310-4410 (100' anchor); Blow: weak, 1/4" died to surf. IFP, no RB, no blow FFP, no RB; Times: 5-15-15-30; Recovery: 5' SOC (10%O, 90%M); Pressures: HP: 2159-2100 psi, SIP: 660-330 psi; FP: 20-18, 19-20 psi; BHT: 119 deg. F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

DRILL STEM TEST #2:

Pawnee, Myrick Station, Ft. Scott: Interval: 4426-4500 (74' anchor); Blow: weak surf. IFP, no RB, no blow FFP, no RB; Times: 5-15-15-30; Recovery: 5' mud (no show); Pressures: HP: 2221-2154 psi, SIP: 460-602 psi, FP: 18-19, 19-19 psi; BHT: 117 deg. F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

DRILL STEM TEST #3:

Cherokee: Interval: 4498-4575 (77' anchor); Blow: weak 1/4" died to surf. IFP, no RB, no blow FFP, no RB; Times: 5-15-15-30; Recovery: 5' mud (no show); Pressures: HP: 2255-2181 psi, SIP: 125-155 psi, FP: 16-17, 17-17 psi; BHT: 117 deg. F; Trilobite Testing, Inc., Scott City, KS, Brandon Turley.



REDUCE WOB FROM 35k TO 32k, RPM FROM 75 TO 65 AT CONN. 4255.

SHORT TRIP 4143, 15 STANDS, CIRC 30 BEFORE, 30 AFTER. JET & ADD MUD BEFORE DRILL AHEAD.

DST #1: MARMATON: 4310-4410: WEAK BLOW; 5-15-15-30; 5' MUD; FP: 20-18, 19-20; SIP: 660-330;

DST #2: PAW - FT. SCOTT: 4426-4500: WK BLOW; 5-15-15-30; 5' MUD; FP: 18-19, 19-19; SIP: 460-602.

DST #3: CHEROKEE: 4498-4575: WK BLOW; 5-15-15-30; 5' MUD; FP: 16-17, 17-17; SIP: 125-155.

Conn. at 4520 was 2' long, driller kicked geograph out and drilled down.

PIONEER LTD 4647



DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W State Rd 4
Olmitz, KS 67564

ATTN: Vern Schrag

Ramsey-Wilson Unit 1

12-18s-31w Scott,KS

Start Date: 2016.10.12 @ 07:38:24

End Date: 2016.10.12 @ 12:47:24

Job Ticket #: 65519 DST #: 1

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

Printed: 2016.10.14 @ 10:23:04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

ATTN: Vern Schrag

Job Ticket: 65519

DST#: 1

Test Start: 2016.10.12 @ 07:38:24

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:07:24

Time Test Ended: 12:47:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4310.00 ft (KB) To 4410.00 ft (KB) (TVD)

Reference Elevations: 2916.00 ft (KB)

Total Depth: 4410.00 ft (KB) (TVD)

2906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press@RunDepth: 20.42 psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.12

End Date:

2016.10.12

Last Calib.: 2016.10.12

Start Time: 07:38:29

End Time:

12:47:23

Time On Btm: 2016.10.12 @ 10:06:24

Time Off Btm: 2016.10.12 @ 11:14:54

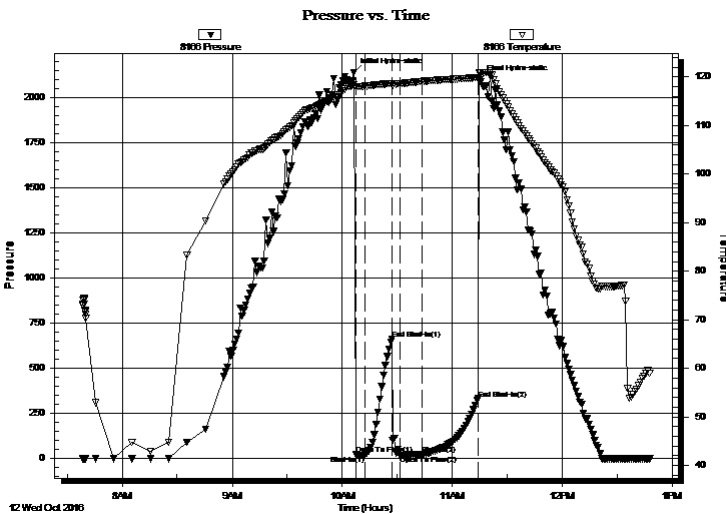
TEST COMMENT: IF: 1/4" blow died in surface.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.77	118.43	Initial Hydro-static
1	20.34	118.02	Open To Flow (1)
6	18.30	118.10	Shut-In(1)
21	660.48	118.68	End Shut-In(1)
25	19.02	118.58	Open To Flow (2)
37	20.42	119.09	Shut-In(2)
68	330.57	119.89	End Shut-In(2)
69	2100.78	120.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	ocm 10%o 90%m	0.07

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

ATTN: Vern Schrag

Job Ticket: 65519 **DST#: 1**

Test Start: 2016.10.12 @ 07:38:24

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:07:24

Time Test Ended: 12:47:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **4310.00 ft (KB) To 4410.00 ft (KB) (TVD)**

Reference Elevations: 2916.00 ft (KB)

Total Depth: 4410.00 ft (KB) (TVD)

2906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8875 **Inside**

Press@RunDepth: psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.12 End Date: 2016.10.12

Last Calib.: 2016.10.12

Start Time: 07:38:32 End Time: 12:47:26

Time On Btm:

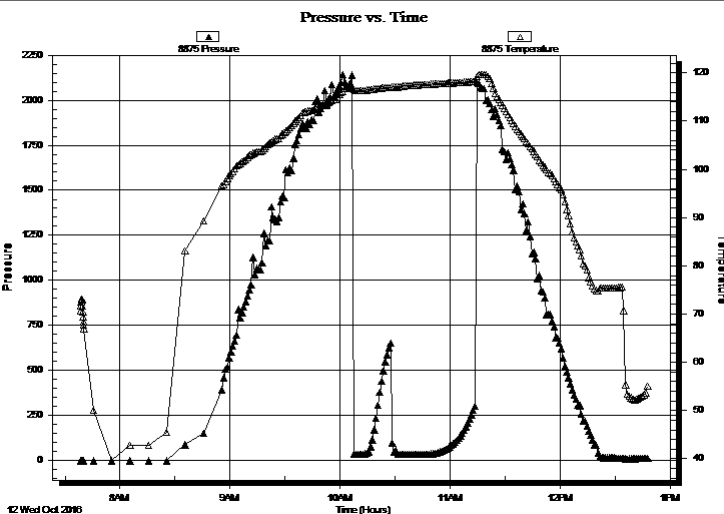
Time Off Btm:

TEST COMMENT: IF: 1/4" blow died in surface.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	ocm 10%o 90%m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

Job Ticket: 65519

DST#: 1

ATTN: Vern Schrag

Test Start: 2016.10.12 @ 07:38:24

Tool Information

Drill Pipe:	Length: 4308.00 ft	Diameter: 3.80 inches	Volume: 60.43 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	4310.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	127.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4284.00	
Shut In Tool	5.00			4289.00	
Hydraulic tool	5.00			4294.00	
Jars	5.00			4299.00	
Safety Joint	2.00			4301.00	
Packer	5.00			4306.00	27.00 Bottom Of Top Packer
Packer	4.00			4310.00	
Stubb	1.00			4311.00	
Recorder	0.00	8875	Inside	4311.00	
Recorder	0.00	8166	Outside	4311.00	
Perforations	28.00			4339.00	
Change Over Sub	1.00			4340.00	
Drill Pipe	64.00			4404.00	
Change Over Sub	1.00			4405.00	
Bullnose	5.00			4410.00	100.00 Bottom Packers & Anchor

Total Tool Length: 127.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

Job Ticket: 65519

DST#: 1

ATTN: Vern Schrag

Test Start: 2016.10.12 @ 07:38:24

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	ocm 10%o 90%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

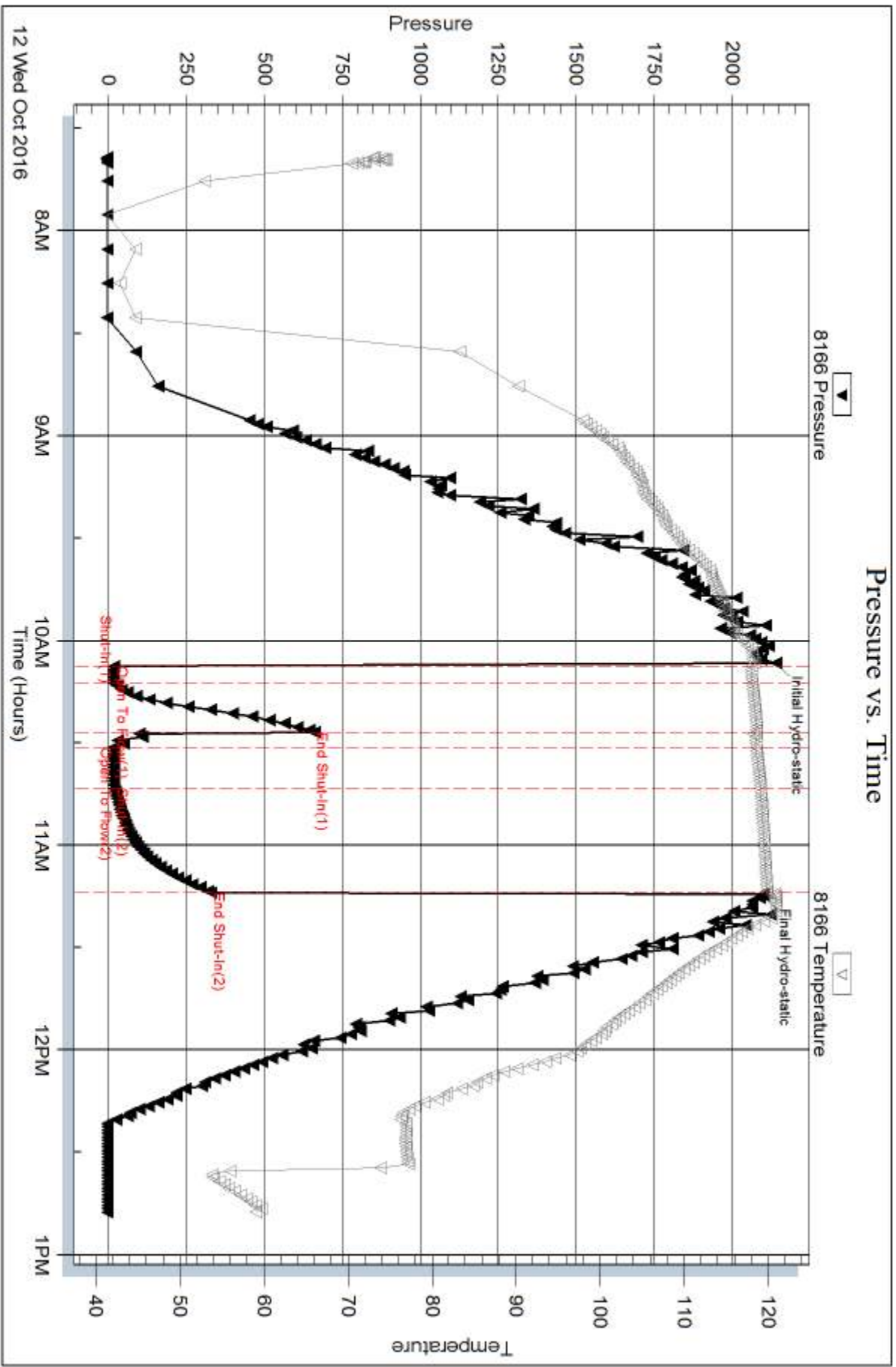
Num Gas Bombs: 0

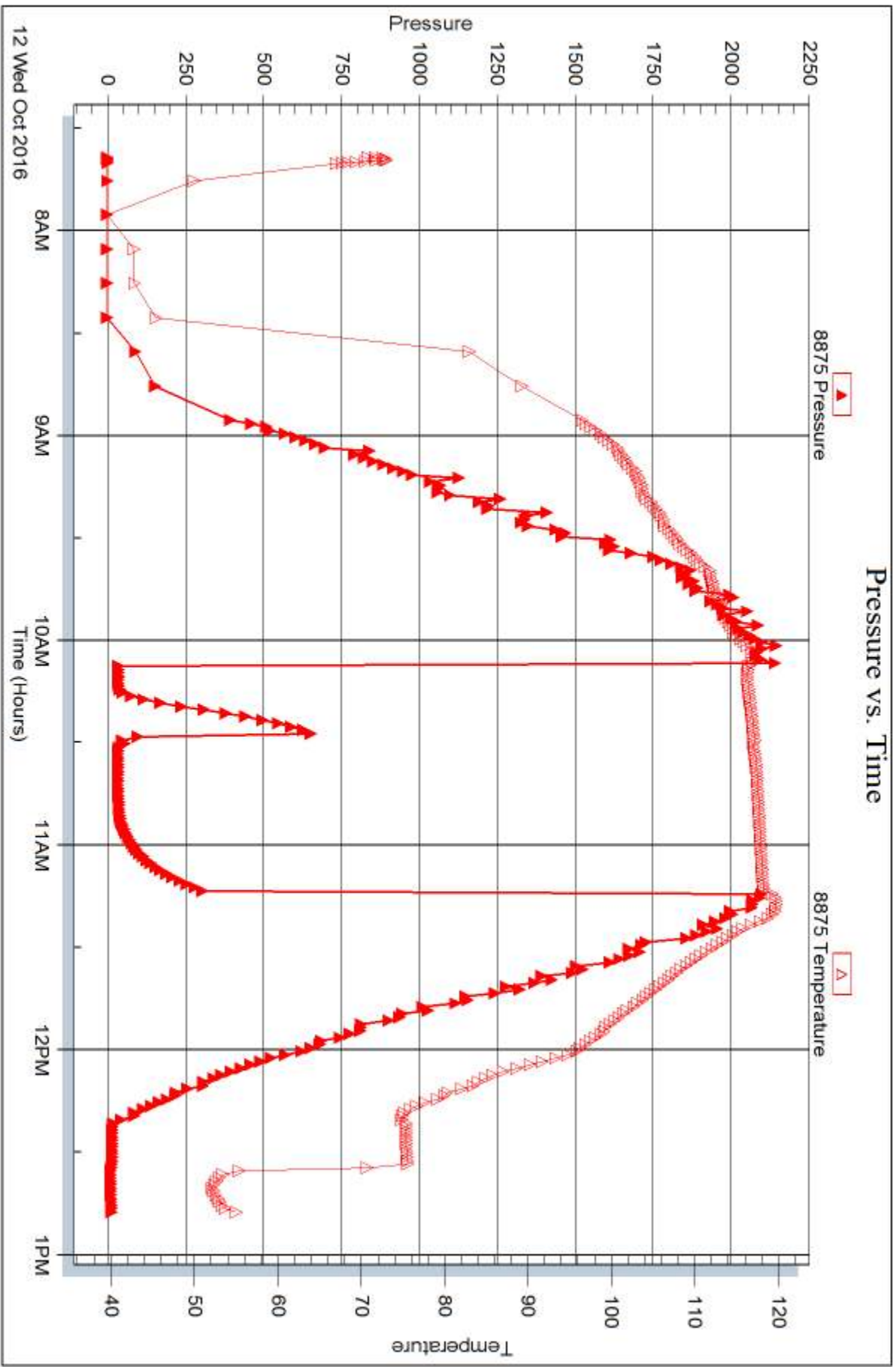
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W State Rd 4
Olmitz, KS 67564

ATTN: Vern Schrag

Ramsey-Wilson Unit 1

12-18s-31w Scott,KS

Start Date: 2016.10.13 @ 02:28:03

End Date: 2016.10.13 @ 07:25:33

Job Ticket #: 65520 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.10.14 @ 10:21:50



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

ATTN: Vern Schrag

Job Ticket: 65520

DST#: 2

Test Start: 2016.10.13 @ 02:28:03

GENERAL INFORMATION:

Formation: **Pawnee Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:34:33

Time Test Ended: 07:25:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4426.00 ft (KB) To 4500.00 ft (KB) (TVD)

Reference Elevations: 2916.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

2906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press@RunDepth: 19.68 psig @ 4427.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.13

End Date:

2016.10.13

Last Calib.: 2016.10.13

Start Time: 02:28:08

End Time:

07:25:32

Time On Btm: 2016.10.13 @ 04:33:33

Time Off Btm: 2016.10.13 @ 05:44:03

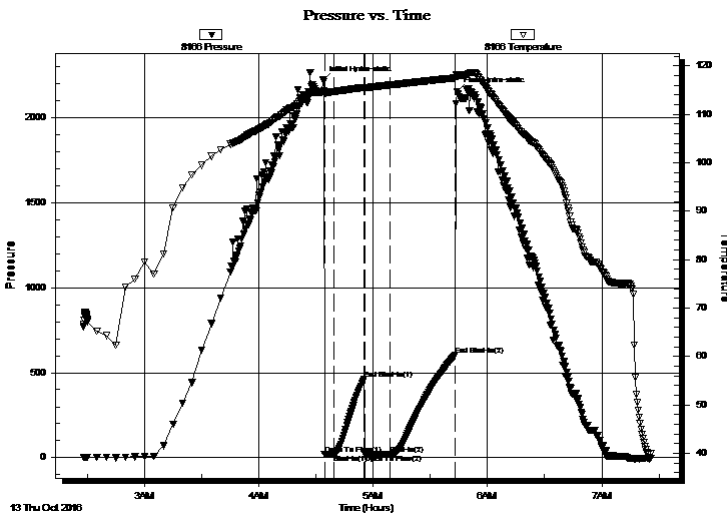
TEST COMMENT: IF: 1/8" blow died to weak surface.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2221.16	114.73	Initial Hydro-static
1	18.55	114.23	Open To Flow (1)
6	19.09	114.67	Shut-In(1)
22	460.43	115.53	End Shut-In(1)
22	19.14	115.36	Open To Flow (2)
36	19.68	116.03	Shut-In(2)
70	602.61	117.49	End Shut-In(2)
71	2154.93	117.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

ATTN: Vern Schrag

Job Ticket: 65520

DST#: 2

Test Start: 2016.10.13 @ 02:28:03

GENERAL INFORMATION:

Formation: **Pawnee Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:34:33

Time Test Ended: 07:25:33

Interval: 4426.00 ft (KB) To 4500.00 ft (KB) (TVD)

Total Depth: 4500.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 2916.00 ft (KB)

2906.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4427.00 ft (KB)

Start Date: 2016.10.13

End Date:

2016.10.13

Start Time: 02:28:20

End Time:

07:25:44

Capacity: 8000.00 psig

Last Calib.:

2016.10.13

Time On Btm:

Time Off Btm:

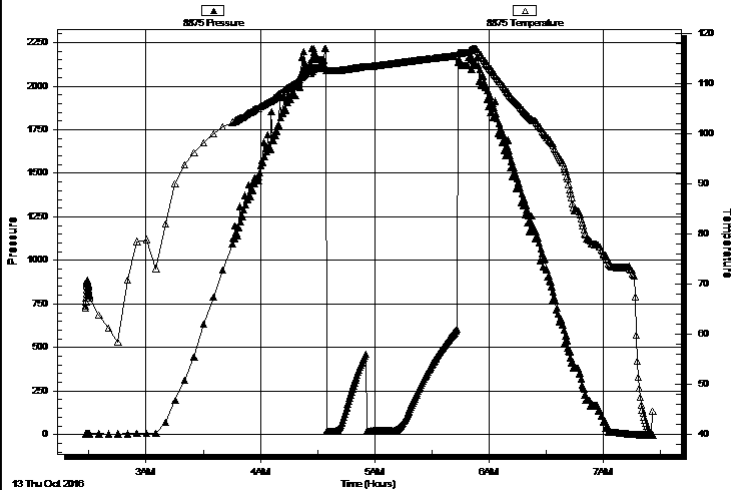
TEST COMMENT: IF: 1/8" blow died to weak surface.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.07

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

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

Job Ticket: 65520

DST#: 2

ATTN: Vern Schrag

Test Start: 2016.10.13 @ 02:28:03

Tool Information

Drill Pipe:	Length: 4430.00 ft	Diameter: 3.80 inches	Volume: 62.14 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	4426.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	101.00 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
Stubb	1.00			4400.00	
Shut In Tool	5.00			4405.00	
Hydraulic tool	5.00			4410.00	
Jars	5.00			4415.00	
Safety Joint	2.00			4417.00	
Packer	5.00			4422.00	27.00 Bottom Of Top Packer
Packer	4.00			4426.00	
Stubb	1.00			4427.00	
Recorder	0.00	8875	Inside	4427.00	
Recorder	0.00	8166	Outside	4427.00	
Perforations	3.00			4430.00	
Change Over Sub	1.00			4431.00	
Drill Pipe	63.00			4494.00	
Change Over Sub	1.00			4495.00	
Bullnose	5.00			4500.00	74.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

Job Ticket: 65520

DST#: 2

ATTN: Vern Schrag

Test Start: 2016.10.13 @ 02:28:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

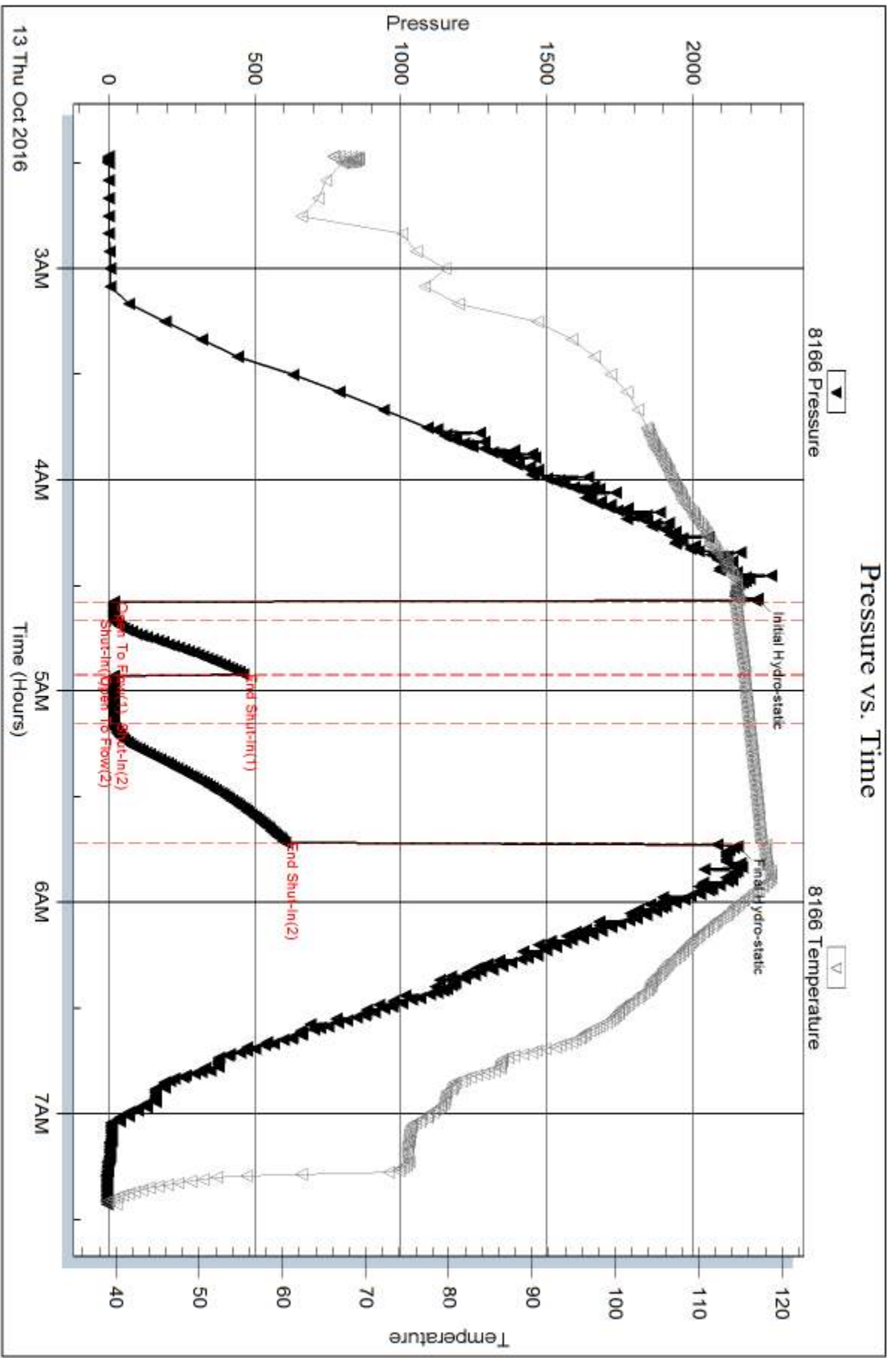
Num Gas Bombs: 0

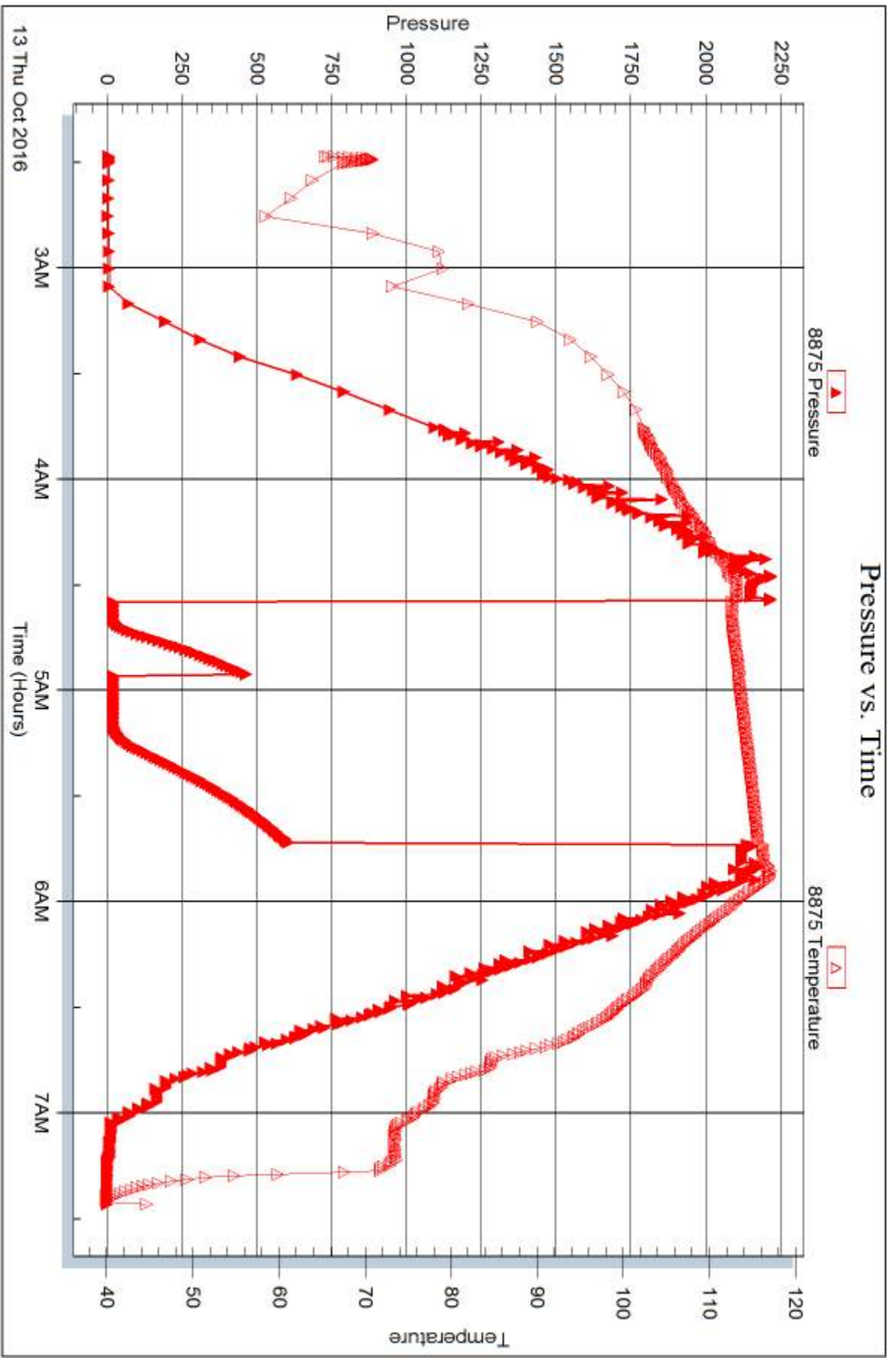
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W State Rd 4
Olmitz, KS 67564

ATTN: Vern Schrag

Ramsey-Wilson Unit 1

12-18s-31w Scott,KS

Start Date: 2016.10.13 @ 19:04:25

End Date: 2016.10.13 @ 23:59:55

Job Ticket #: 65521 DST #: 3

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

Printed: 2016.10.14 @ 10:20:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

ATTN: Vern Schrag

Job Ticket: 65521

DST#: 3

Test Start: 2016.10.13 @ 19:04:25

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:06:55

Time Test Ended: 23:59:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4498.00 ft (KB) To 4575.00 ft (KB) (TVD)

Reference Elevations: 2916.00 ft (KB)

Total Depth: 4575.00 ft (KB) (TVD)

2906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press@RunDepth: 17.66 psig @ 4499.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.13

End Date:

2016.10.13

Last Calib.: 2016.10.14

Start Time: 19:04:30

End Time:

23:59:54

Time On Btm: 2016.10.13 @ 21:05:25

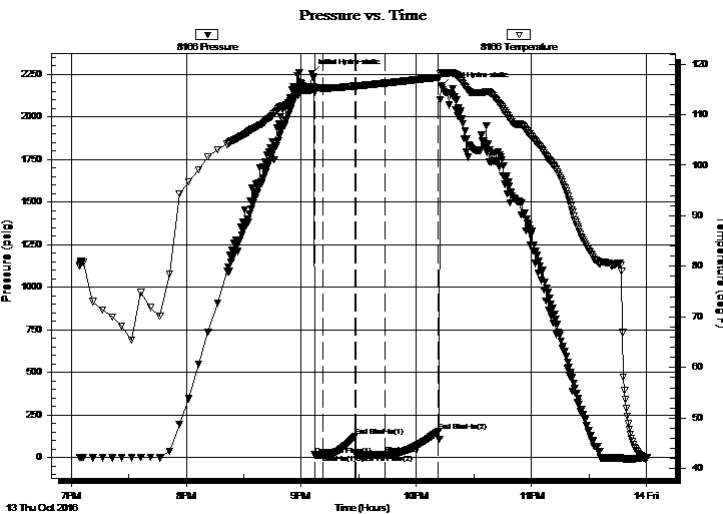
Time Off Btm: 2016.10.13 @ 22:12:55

TEST COMMENT: IF: 1/4" blow died to surface.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2255.88	114.94	Initial Hydro-static
2	16.54	114.46	Open To Flow (1)
6	17.11	115.27	Shut-In(1)
23	125.23	115.68	End Shut-In(1)
23	17.16	115.65	Open To Flow (2)
38	17.66	116.23	Shut-In(2)
66	155.07	117.40	End Shut-In(2)
68	2181.23	118.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering Inc

562 W State Rd 4
Olmitz, KS 67564

ATTN: Vern Schrag

12-18s-31w Scott,KS

Ramsey-Wilson Unit 1

Job Ticket: 65521

DST#: 3

Test Start: 2016.10.13 @ 19:04:25

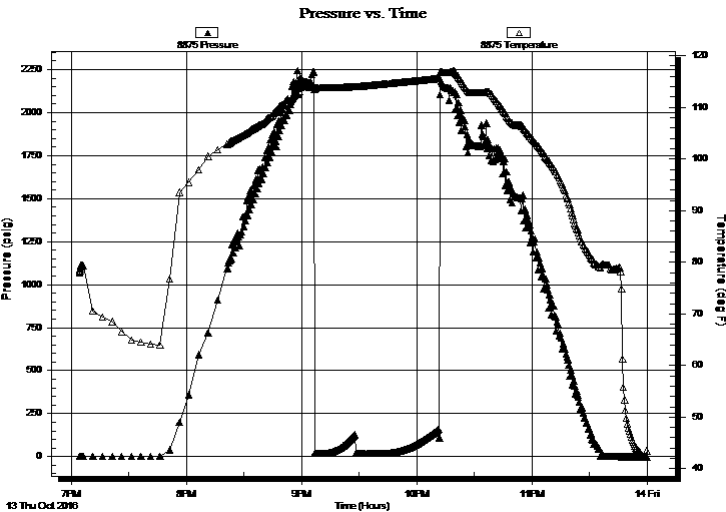
GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:06:55
 Tester: Brandon Turley
 Time Test Ended: 23:59:55
 Unit No: 79
Interval: 4498.00 ft (KB) To 4575.00 ft (KB) (TVD)
 Reference Elevations: 2916.00 ft (KB)
 Total Depth: 4575.00 ft (KB) (TVD)
 2906.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4499.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2016.10.13	End Date: 2016.10.13
Start Time: 19:04:25	End Time: 23:59:49
	Last Calib.: 2016.10.14
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: 1/4" blow died to surface.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	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

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

Job Ticket: 65521

DST#: 3

ATTN: Vern Schrag

Test Start: 2016.10.13 @ 19:04:25

Tool Information

Drill Pipe:	Length: 4491.00 ft	Diameter: 3.80 inches	Volume: 63.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 63.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4498.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	104.00 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
Stubb	1.00			4472.00	
Shut In Tool	5.00			4477.00	
Hydraulic tool	5.00			4482.00	
Jars	5.00			4487.00	
Safety Joint	2.00			4489.00	
Packer	5.00			4494.00	27.00 Bottom Of Top Packer
Packer	4.00			4498.00	
Stubb	1.00			4499.00	
Recorder	0.00	8875	Inside	4499.00	
Recorder	0.00	8166	Outside	4499.00	
Perforations	6.00			4505.00	
Change Over Sub	1.00			4506.00	
Drill Pipe	63.00			4569.00	
Change Over Sub	1.00			4570.00	
Bullnose	5.00			4575.00	77.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

12-18s-31w Scott,KS

562 W State Rd 4
Olmitz, KS 67564

Ramsey-Wilson Unit 1

Job Ticket: 65521

DST#: 3

ATTN: Vern Schrag

Test Start: 2016.10.13 @ 19:04:25

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

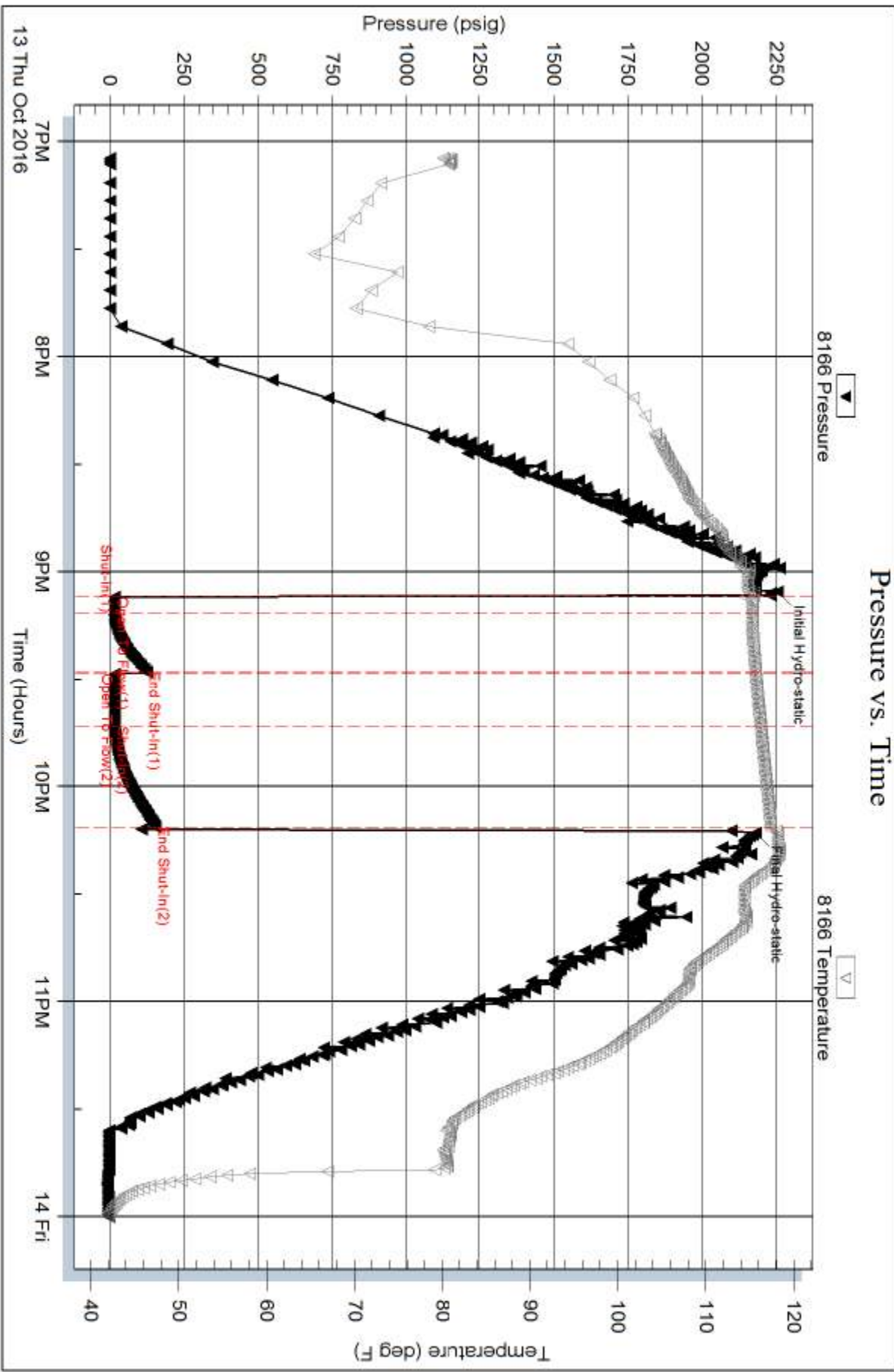
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



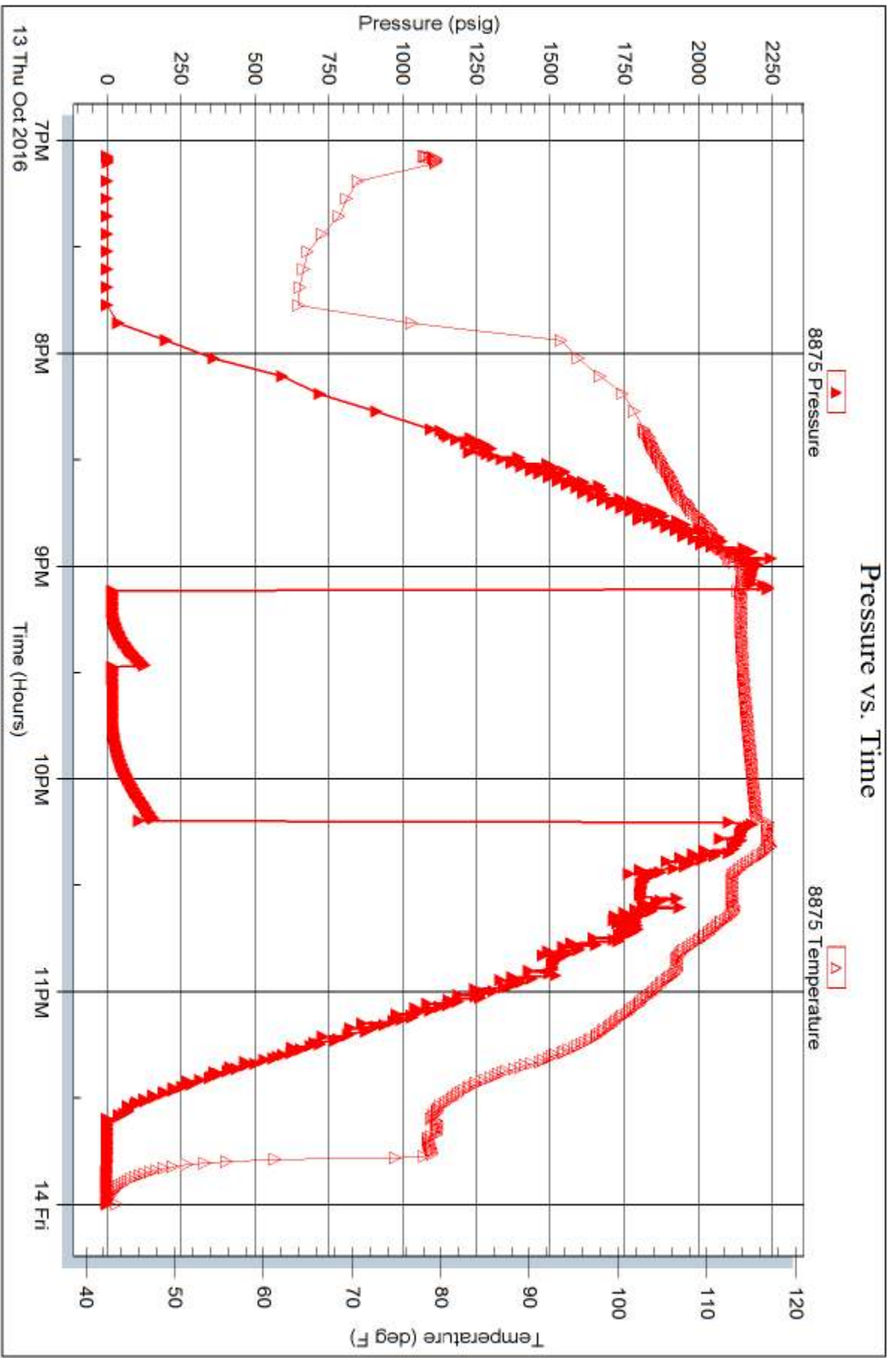
Serial #: 8875

Inside

Larson Engineering Inc

Ramsey-Wilson Unit 1

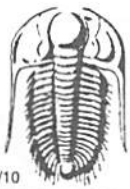
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65521

Printed: 2016.10.14 @ 10:20:08



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65519**

Well Name & No. Ramsey-Wilson unit 1-12 Test No. 1 Date 10-12-16
 Company Larson Engineering Inc Elevation 2916 KB 2906 GL
 Address 562 W State Rd 4 Olmitz, KS 67564
 Co. Rep / Geo. Vern Schrag Rig Southwind 1
 Location: Sec. 12 Twp. 18^s Rge. 31^w Co. Scott State KS

Interval Tested 4310 4410 Zone Tested Marmaton
 Anchor Length 100 Drill Pipe Run 4308 Mud Wt. 9.3
 Top Packer Depth 4305 Drill Collars Run — Vis 50
 Bottom Packer Depth 4310 Wt. Pipe Run — WL 6.8
 Total Depth 4410 Chlorides 2200 ppm System LCM 2

Blow Description IF: 1/4 blow died to surface,
IS: No return,
FK: No blow,
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>ocm</u>	<u>10</u>		<u>90</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 119 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2139 Test 1150 T-On Location 6:05
 (B) First Initial Flow 20 Jars 250 T-Started 7:38
 (C) First Final Flow 18 Safety Joint 75 T-Open 10:06
 (D) Initial Shut-In 660 Circ Sub N/L T-Pulled 11:06
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 12:49
 (F) Second Final Flow 20 Mileage 31 - 23.25 Comments _____
 (G) Final Shut-In 330 Sampler _____
 (H) Final Hydrostatic 2100 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1498.25

Approved By Vern C Schrag Our Representative [Signature]
 TriLOBITE TESTING INC. shall not be liable for damaged or 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. **65520**

Well Name & No. Ramsey-wilson Unit 1-12 Test No. 2 Date 10-13-16
 Company LARSON Engineering Inc Elevation 2916 KB 2906 GL
 Address _____
 Co. Rep / Geo. Vern Schrag Rig Southwind #1
 Location: Sec. 12 Twp. 185 Rge. 31W Co. Scott State KS

Interval Tested 4426 4500 Zone Tested Pawnee Ft Scott
 Anchor Length 74 Drill Pipe Run 4430 Mud Wt. 9.2
 Top Packer Depth 4421 Drill Collars Run — Vis 56
 Bottom Packer Depth 4426 Wt. Pipe Run — WL 8.0
 Total Depth 4500 Chlorides 3000 ppm System LCM 2

Blow Description IF: 1/8 blow died to work surface,
IS: No return.
FF: No blow.
FS: 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	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 117 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2221 Test 1150 T-On Location 1:00
 (B) First Initial Flow 18 Jars 250 T-Started 2:28
 (C) First Final Flow 19 Safety Joint 75 T-Open 4:34
 (D) Initial Shut-In 460 Circ Sub NIL T-Pulled 5:39
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 7:26
 (F) Second Final Flow 19 Mileage 31 23.25 Comments _____
 (G) Final Shut-In 602 Sampler _____
 (H) Final Hydrostatic 2154 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 5 Ruined Shale Packer _____
 Initial Shut-In 15 Ruined Packer _____
 Final Flow 15 Extra Copies _____
 Final Shut-In 30 Sub Total 0
 Total 1498.25
 MP/DST Disc't _____

Approved By Vernon C 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. **65521**

Well Name & No. Ramsey-wilson unit 1-12 Test No. 3 Date 10-13-16
 Company Larson Engineering Inc Elevation 2916 KB 2906 GL
 Address _____
 Co. Rep / Geo. Vern Schrag Rig Southwind #1
 Location: Sec. 12 Twp. 18S Rge. 31W Co. Scott State KS

Interval Tested ~~4498~~ 4498 4575 Zone Tested Cherokee
 Anchor Length 77 ~~82~~ Drill Pipe Run 4491 Mud Wt. 9.3
 Top Packer Depth 4493 ~~4673~~ Drill Collars Run — Vis 51
 Bottom Packer Depth 4498 ~~5518~~ Wt. Pipe Run — WL 8.8
 Total Depth 4575 Chlorides 3200 ppm System LCM 1

Blow Description IF: 1/4 blow died to surface,
IS: No return.
FF: No blow,
FS: 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	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 117 Gravity _____ API RW _____ @ _____ F Chlorides _____ ppm

(A) Initial Hydrostatic 2255 Test 1150 T-On Location 18:15
 (B) First Initial Flow 16 Jars 250 T-Started 19:04
 (C) First Final Flow 17 Safety Joint 75 T-Open 21:06
 (D) Initial Shut-In 125 Circ Sub NIL T-Pulled 22:11
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 00:00
 (F) Second Final Flow 17 Mileage 31- 23.25 Comments _____
 (G) Final Shut-In 155 Sampler _____
 (H) Final Hydrostatic 2181 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 5
 Initial Shut-In 15
 Final Flow 15
 Final Shut-In 30
 Sub Total 1498.25

Approved By Vern C 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.

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



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

Pat Apple, Chairman
Shari Feist Albrecht, Commissioner
Jay Scott Emler, Commissioner

Sam Brownback, Governor

February 07, 2017

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

Re: ACO-1
API 15-171-21182-00-00
RAMSEY-WILSON UNIT 1-12
SW/4 Sec.12-18S-31W
Scott County, Kansas

Dear Thomas Larson:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 10/05/2016 and the ACO-1 was received on February 06, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department