

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	DGK TRUST 1-36
Doc ID	1421892

All Electric Logs Run

Compact Photo Density
Compensated Neutron
Micro Log
Array Induction Shallow Focused
Borehole Compensated Sonic Log

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	DGK TRUST 1-36
Doc ID	1421892

Tops

Name	Top	Datum
Heebner	3954	-563
Lansing	4006	-615
Stark Shale	4309	-918
Hushpuckney	4351	-960
Base KC	4422	-1031
Marmaton	4455	-1064
Pawnee	4558	-1167
Ft. Scott	4587	-1196
Morrow	4821	-1430
Mississippian	4964	-1573

GLOBAL OIL FIELD SERVICES, LLC

Invoice

24 S. Lincoln
RUSSELL, KS 67665

Date	Invoice #
8/29/2018	0013225

Bill To
LARIO OIL & GAS LLC 301 S MARKET ST WICHITA, KS 67202

D&K Trust #1-36

P.O. No.	Terms	Project
<i>BANK TRUST#144</i>	Due on receipt	

Quantity	Description	Rate	Amount
150	COMMON CEMENT	16.00	2,400.00
100	POZ	9.50	950.00
5	BENTONITE GEL	30.00	150.00
8	CALCIUM-CHLORIDE	80.00	640.00
263	HANDLING	1.60	420.80
	BULK MILEAGE	1,400.00	1,400.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	850.00	850.00
70	HEAVY EQUIPMENT. ONE WAY	3.50	245.00
70	LMV- ONE WAY	1.75	122.50
<i>*</i>	20% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE new sales tax rate as of 7-1-2015 <i>*</i>	8.50%	0.00

Exp	FILE	ON TO	FILE
SEP - 3 2018		DB	
RF	BB	SF	DM

*BCP
FDC 22
AFC (8-107)*

Thank you for your business.

Total

\$7,178.30

Phone #	Fax #
785-445-3525	785-445-3526

GLOBAL OIL FIELD SERVICES, LLC 0013225

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>8-25-18</u>	SEC. <u>36</u> <u>44</u>	TWP. <u>18</u> <u>19</u> <u>1-20</u>	RANGE <u>38</u>	CALLED OUT <u>6 PM</u>	ON LOCATION <u>5 AM</u>	JOB START <u>6:30 AM</u>	JOB FINISH <u>7 AM</u>
LEASE <u>Bank Trust</u>		WELL # <u>14</u>	LOCATION <u>5 1/2 W. LEOTA, KS - 5 1/2 WEST;</u>		COUNTY <u>WICHITA</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (CIRCLE ONE)			<u>2 1/2 SOUTH WEST INTO</u>				

CONTRACTOR <u>Duke Drilling Rig #1</u>	OWNER _____
TYPE OF JOB <u>SURFACE</u>	
HOLE SIZE <u>17 1/4</u>	T.D. <u>354'</u>
CASING SIZE <u>9 5/8 24#</u>	DEPTH <u>334.02 + 15' LT</u>
TUBING SIZE _____	DEPTH _____
DRILL PIPE _____	DEPTH _____
TOOL _____	DEPTH _____
PRES. MAX _____	MINIMUM _____
MEAS. LINE _____	SHOE JOINT <u>42.23'</u>
CEMENT LEFT IN CSG. <u>20'</u>	
PERFS _____	
DISPLACEMENT <u>2 1/4 BBL</u>	
EQUIPMENT	
PUMP TRUCK # <u>417</u>	CEMENTER: <u>BRAD</u>
	HELPER: <u>JASON</u>
BULK TRUCK # <u>473</u>	DRIVER: <u>TOM</u>
BULK TRUCK # _____	DRIVER _____

CEMENT AMOUNT ORDERED <u>250 SX 3% CC 2% CFC</u>	COMMON _____ @ _____
	POZMIX _____ @ _____
	GEL _____ @ _____
	CHLORIDE _____ @ _____
	ASC _____ @ _____
	_____ @ _____
	_____ @ _____
	_____ @ _____
	_____ @ _____
	_____ @ _____
	_____ @ _____
HANDLING _____ @ _____	
MILEAGE _____ @ _____	
	TOTAL _____

REMARKS:
RUN IN 8 ITS NEW 9 5/8 CASING W/ 15' LT,
CIRCULATE MUD, MIX 250 SX WITH 10% +
DISPLACE WITH 2 1/4 BBL H2O, SHUT IN @ 200 PSI,
CEMENT DID CIRCULATE, 10 SX PUT IN PIT

CHARGE TO: LARIO

STREET _____

CITY _____ STATE _____ ZIP _____

Global Oil Field 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 Mike Godfrey

SIGNATURE Mike Godfrey

DEPTH OF JOB _____	TOTAL _____
PUMP TRUCK CHARGE _____	
EXTRA FOOTAGE _____ @ _____	
MILEAGE _____ @ _____	
MANIFOLD _____ @ _____	
_____ @ _____	
_____ @ _____	
	TOTAL _____

PLUG & FLOAT EQUIPMENT

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

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

Invoice

24 S. Lincoln
RUSSELL, KS 67665

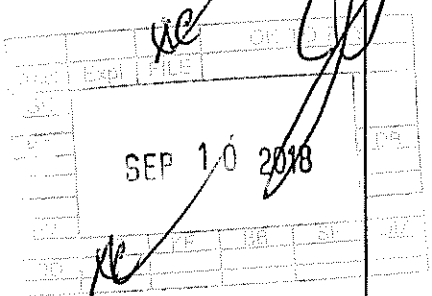
Date	Invoice #
9/7/2018	13169

Bill To
LARIO OIL & GAS LLC 301 S MARKET ST WICHITA,KS 67202

P.O. No.	Terms	Project
DGK TRUST#1-36	Due on receipt	

Quantity	Description	Rate	Amount
300	60/40 POZMIX CEMENT	13.95	4,185.00
11	BENTONITE GEL	30.00	330.00
75	FLO-SEAL	2.00	150.00
311	HANDLING	1.90	590.90
	BULK MILEAGE	1,400.00	1,400.00
1	TRI-PLEX PUMP CHARGE FOR PLUG	950.00	950.00
95	HEAVY EQUIPMENT. ONE WAY	6.50	617.50
95	LMV- ONE WAY	2.75	261.25
	DRY HOLE PLUG	62.50	62.50
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE new sales tax rate as of 7-1-2015	8.50%	0.00

AFE 18-107
IDC 22



Thank you for your business.

Total \$8,547.15

Phone #	Fax #
785-445-3525	785-445-3526



DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas Co.**

301 S Market St.
Wichita. KS 67202

ATTN: Tim J Lauer

DGK #1-36

36-18s-38w Wichita,KS

Start Date: 2018.08.29 @ 11:13:00

End Date: 2018.08.29 @ 18:22:15

Job Ticket #: 64422 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.09.05 @ 08:24:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita, KS 67202

DGK #1-36

Job Ticket: 64422

DST#: 1

ATTN: Tim J Lauer

Test Start: 2018.08.29 @ 11:13:00

GENERAL INFORMATION:

Formation: **LKC - A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:33:15

Time Test Ended: 18:22:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 3994.00 ft (KB) To 4020.00 ft (KB) (TVD)

Reference Elevations: 3391.00 ft (KB)

Total Depth: 4020.00 ft (KB) (TVD)

3379.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8319 Outside

Press@RunDepth: 392.18 psig @ 3995.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.29 End Date: 2018.08.29

Last Calib.: 2018.08.29

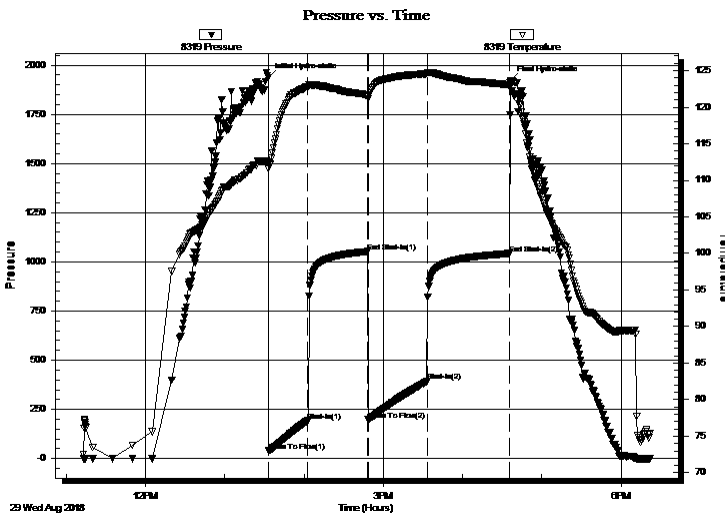
Start Time: 11:13:05 End Time: 18:22:14

Time On Btm: 2018.08.29 @ 13:33:00

Time Off Btm: 2018.08.29 @ 16:36:30

TEST COMMENT: IF: BOB @ 7 1/2" built to 37"
IS: No return.
FF: BOB @ 8 min. built to 48".
FSI No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.12	112.55	Initial Hydro-static
1	38.90	111.61	Open To Flow (1)
30	191.64	122.87	Shut-In(1)
76	1052.39	121.58	End Shut-In(1)
76	197.24	121.22	Open To Flow (2)
121	392.18	124.57	Shut-In(2)
183	1042.27	123.03	End Shut-In(2)
184	1921.07	123.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
850.00	mcw 5m 95w (Oil Spots on top)	11.92

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64422

DST#: 1

ATTN: Tim J Lauer

Test Start: 2018.08.29 @ 11:13:00

Tool Information

Drill Pipe:	Length: 4000.00 ft	Diameter: 3.80 inches	Volume: 56.11 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 56.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3994.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 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			3968.00	
Shut In Tool	5.00			3973.00	
Hydraulic tool	5.00			3978.00	
Jars	5.00			3983.00	
Safety Joint	2.00			3985.00	
Packer	5.00			3990.00	27.00 Bottom Of Top Packer
Packer	4.00			3994.00	
Stubb	1.00			3995.00	
Recorder	0.00	8522	Inside	3995.00	
Recorder	0.00	8319	Outside	3995.00	
Perforations	22.00			4017.00	
Bullnose	3.00			4020.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.
301 S Market St.
Wichita. KS 67202
ATTN: Tim J Lauer

36-18s-38w Wichita,KS
DGK #1-36
Job Ticket: 64422 **DST#: 1**
Test Start: 2018.08.29 @ 11:13:00

Mud and Cushion Information

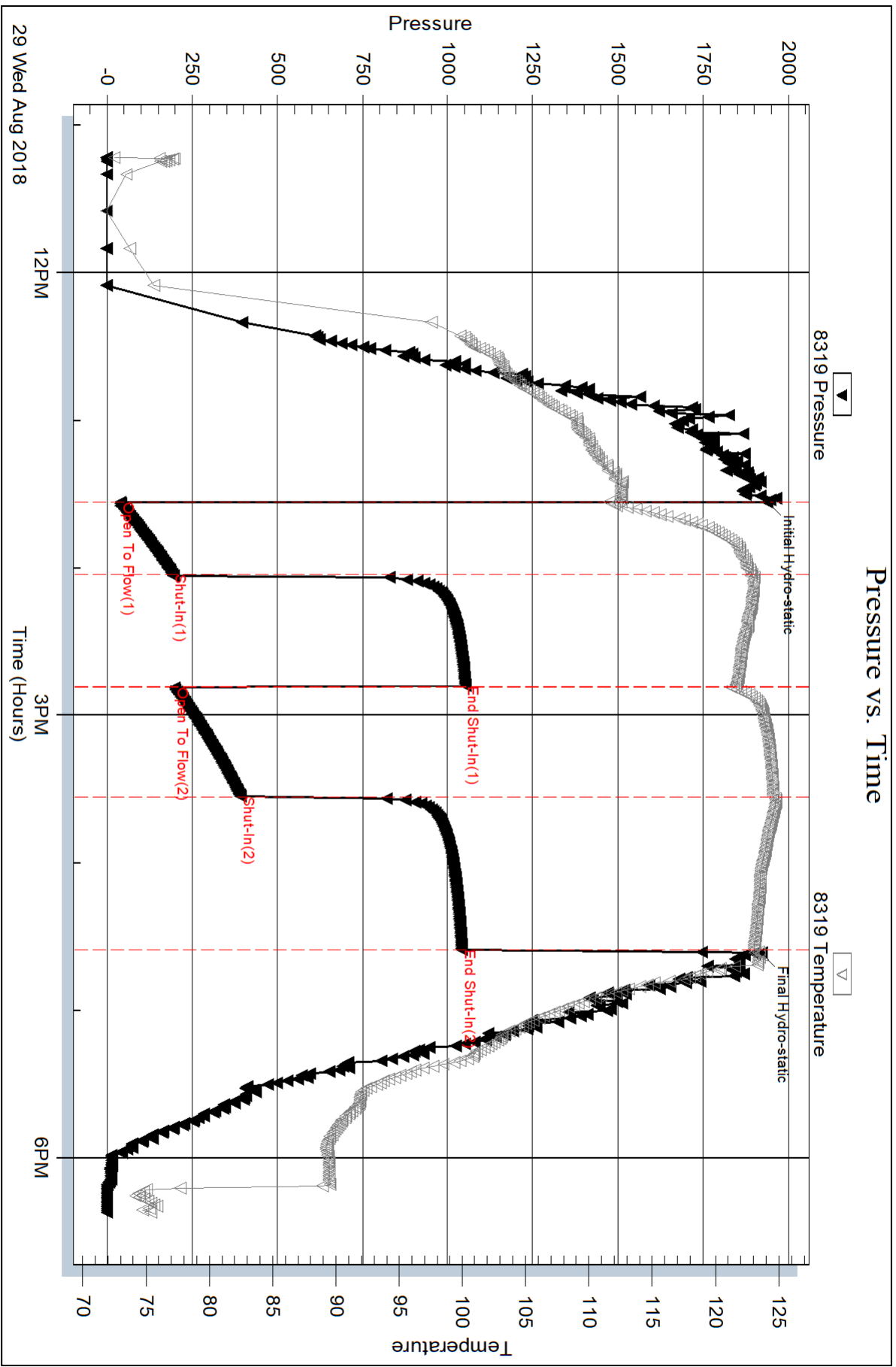
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 66000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.97 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
850.00	mcw 5m 95w (Oil Spots on top)	11.923

Total Length: 850.00 ft Total Volume: 11.923 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw is .084 @ 87f = 66000ppm



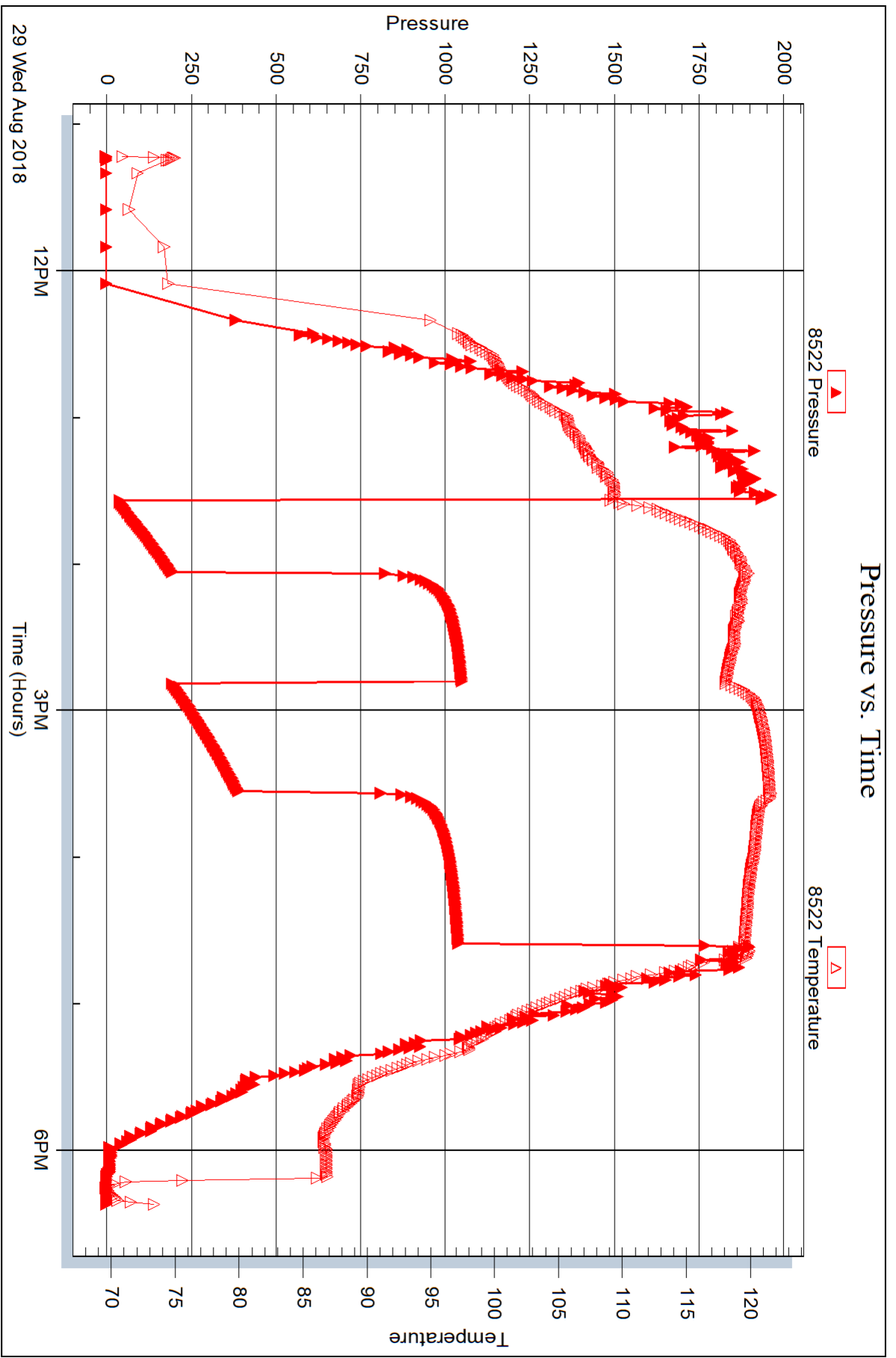
Serial #: 8522

Inside

Lario Oil & Gas Co.

DGK #1-36

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 64422

Printed: 2018.09.05 @ 08:24:42



DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas Co.**

301 S Market St.
Wichita. KS 67202

ATTN: Tim J Lauer

DGK #1-36

36-18s-38w Wichita,KS

Start Date: 2018.08.30 @ 07:08:00

End Date: 2018.08.30 @ 13:51:45

Job Ticket #: 64423 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.09.05 @ 08:24:19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita, KS 67202

DGK #1-36

Job Ticket: 64423

DST#: 2

ATTN: Tim J Lauer

Test Start: 2018.08.30 @ 07:08:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:57:30

Time Test Ended: 13:51:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4088.00 ft (KB) To 4120.00 ft (KB) (TVD)

Reference Elevations: 3391.00 ft (KB)

Total Depth: 4120.00 ft (KB) (TVD)

3379.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8319 Outside

Press@RunDepth: 221.43 psig @ 4089.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.30

End Date:

2018.08.30

Last Calib.: 2018.08.30

Start Time: 07:08:05

End Time:

13:51:44

Time On Btm: 2018.08.30 @ 08:56:30

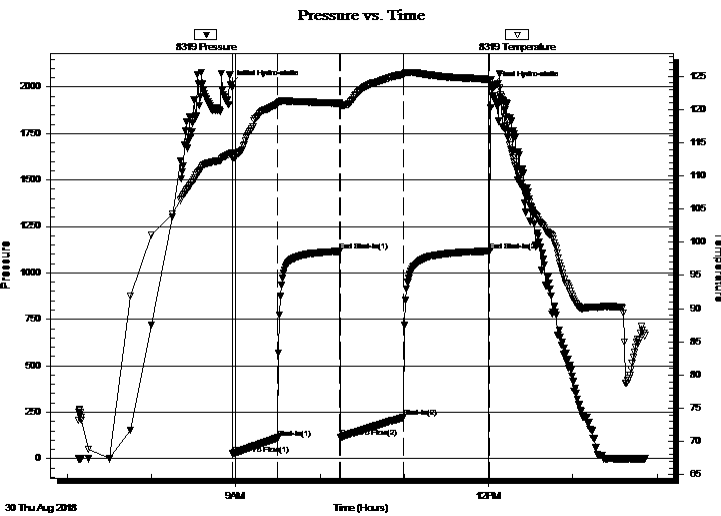
Time Off Btm: 2018.08.30 @ 12:02:15

TEST COMMENT: IF: BOB @ 15 min. blow built to 18"

IS: No return.

FF: BOB @ 15 min. Built to 23"

FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2014.97	113.37	Initial Hydro-static
1	25.64	112.69	Open To Flow (1)
34	111.26	120.84	Shut-In(1)
78	1116.12	120.95	End Shut-In(1)
78	114.38	120.66	Open To Flow (2)
123	221.43	125.25	Shut-In(2)
185	1117.10	124.50	End Shut-In(2)
186	2009.82	123.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
470.00	mcw 5m 95w	6.59

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

36-18s-38w Wichita,KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64423

DST#: 2

ATTN: Tim J Lauer

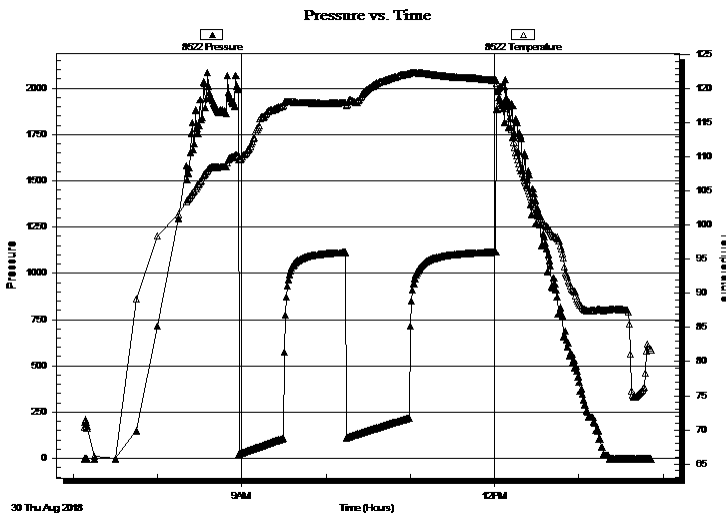
Test Start: 2018.08.30 @ 07:08:00

GENERAL INFORMATION:

Formation: **LKC D**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 08:57:30 Tester: Bradley Walter
 Time Test Ended: 13:51:45 Unit No: 78
Interval: 4088.00 ft (KB) To 4120.00 ft (KB) (TVD) Reference Elevations: 3391.00 ft (KB)
 Total Depth: 4120.00 ft (KB) (TVD) 3379.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 8522 Inside
 Press@RunDepth: psig @ 4089.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.08.30 End Date: 2018.08.30 Last Calib.: 2018.08.30
 Start Time: 07:08:05 End Time: 13:51:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB @ 15 min. blow built to 18"
 IS: No return.
 FF: BOB @ 15 min. Built to 23"
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
470.00	mcw 5m 95w	6.59

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64423

DST#: 2

ATTN: Tim J Lauer

Test Start: 2018.08.30 @ 07:08:00

Tool Information

Drill Pipe:	Length: 4093.00 ft	Diameter: 3.80 inches	Volume: 57.41 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4088.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 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			4062.00	
Shut In Tool	5.00			4067.00	
Hydraulic tool	5.00			4072.00	
Jars	5.00			4077.00	
Safety Joint	2.00			4079.00	
Packer	5.00			4084.00	27.00 Bottom Of Top Packer
Packer	4.00			4088.00	
Stubb	1.00			4089.00	
Recorder	0.00	8522	Inside	4089.00	
Recorder	0.00	8319	Outside	4089.00	
Perforations	28.00			4117.00	
Bullnose	3.00			4120.00	32.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64423

DST#: 2

ATTN: Tim J Lauer

Test Start: 2018.08.30 @ 07:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

37000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
470.00	mcw 5m 95w	6.593

Total Length: 470.00 ft Total Volume: 6.593 bbl

Num Fluid Samples: 0

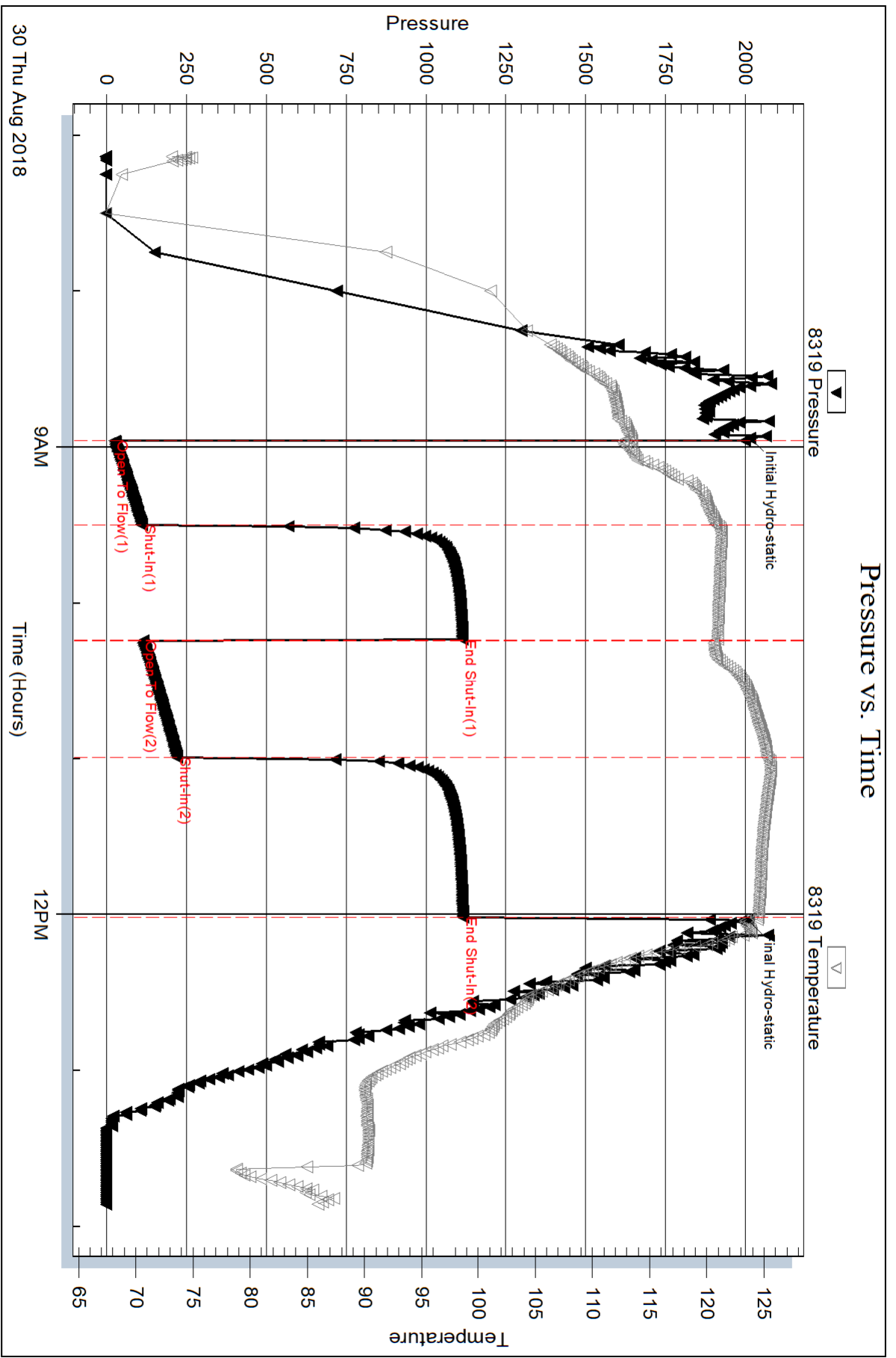
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .164 @ 82F = 37,000ppm



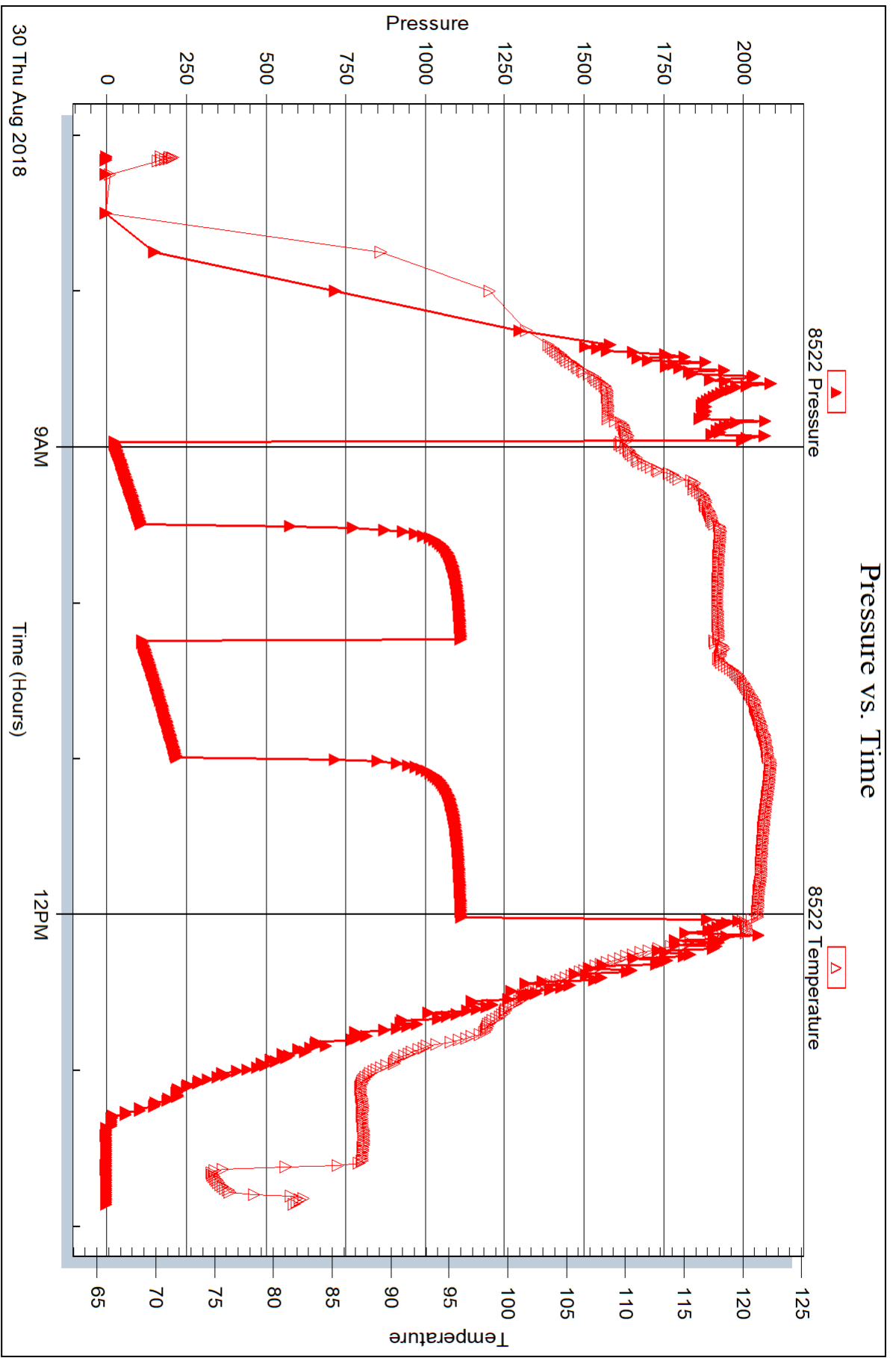
Serial #: 8522

Inside

Lario Oil & Gas Co.

DGK #1-36

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas Co.**

301 S Market St.
Wichita. KS 67202

ATTN: Tim J Lauer

DGK #1-36

36-18s-38w Wichita,KS

Start Date: 2018.08.31 @ 07:33:00

End Date: 2018.08.31 @ 14:59:30

Job Ticket #: 64424 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.09.05 @ 08:23:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.
 301 S Market St.
 Wichita. KS 67202
 ATTN: Tim J Lauer

36-18s-38w Wichita, KS

DGK #1-36

Job Ticket: 64424

DST#: 3

Test Start: 2018.08.31 @ 07:33:00

GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:08:30
 Time Test Ended: 14:59:30
 Interval: **4220.00 ft (KB) To 4248.00 ft (KB) (TVD)**
 Total Depth: 4265.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3391.00 ft (KB)
 3379.00 ft (CF)
 KB to GR/CF: 12.00 ft

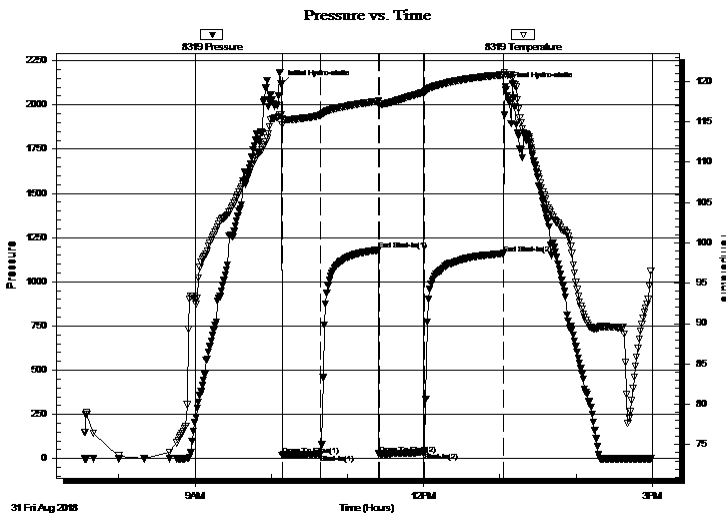
Serial #: 8319

Outside

Press@RunDepth: 36.05 psig @ 4221.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.08.31 End Date: 2018.08.31 Last Calib.: 2018.08.31
 Start Time: 07:33:05 End Time: 14:59:29 Time On Btm: 2018.08.31 @ 10:07:45
 Time Off Btm: 2018.08.31 @ 13:04:30

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.99	115.84	Initial Hydro-static
1	19.80	114.64	Open To Flow (1)
31	25.13	115.80	Shut-In(1)
77	1178.74	117.55	End Shut-In(1)
78	27.06	117.25	Open To Flow (2)
113	36.05	118.64	Shut-In(2)
176	1159.36	120.81	End Shut-In(2)
177	2104.23	120.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 5o 95m	0.42
15.00	mco 10m 90o	0.21

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64424

DST#: 3

ATTN: Tim J Lauer

Test Start: 2018.08.31 @ 07:33:00

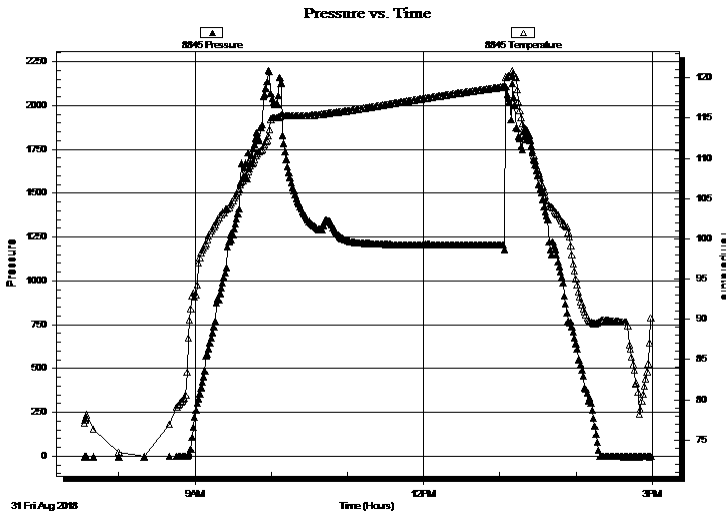
GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:08:30
 Time Test Ended: 14:59:30
Interval: 4220.00 ft (KB) To 4248.00 ft (KB) (TVD)
 Total Depth: 4265.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3391.00 ft (KB)
 3379.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8845 Below (Straddle)

Press@RunDepth: psig @ 4249.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.08.31 End Date: 2018.08.31 Last Calib.: 2018.08.31
 Start Time: 07:33:05 End Time: 14:59:14 Time On Btm:
 Time Off Btm:

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



PRESSURE SUMMARY

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

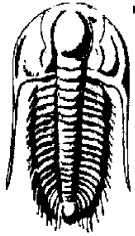
Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 5o 95m	0.42
15.00	mco 10m 90o	0.21

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64424

DST#: 3

ATTN: Tim J Lauer

Test Start: 2018.08.31 @ 07:33:00

GENERAL INFORMATION:

Formation: **LKC I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:30

Time Test Ended: 14:59:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4220.00 ft (KB) To 4248.00 ft (KB) (TVD)

Reference Elevations: 3391.00 ft (KB)

Total Depth: 4265.00 ft (KB) (TVD)

3379.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8522 Inside

Press@RunDepth: psig @ 4221.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.31 End Date: 2018.08.31

Last Calib.: 2018.08.31

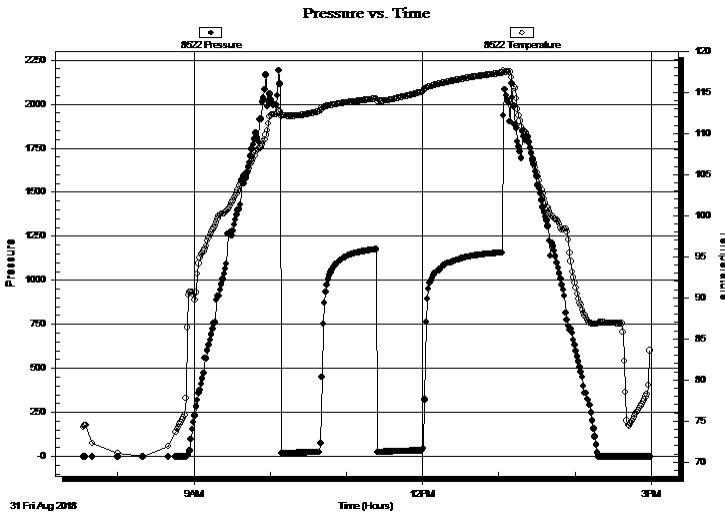
Start Time: 07:33:05 End Time: 14:59:14

Time On Btm:

Time Off Btm:

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

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 5o 95m	0.42
15.00	mco 10m 90o	0.21

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co.

36-18s-38w Wichita,KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64424

DST#: 3

ATTN: Tim J Lauer

Test Start: 2018.08.31 @ 07:33:00

Tool Information

Drill Pipe:	Length: 4220.00 ft	Diameter: 3.80 inches	Volume: 59.20 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 59.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4220.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	72.00 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			4194.00	
Shut In Tool	5.00			4199.00	
Hydraulic tool	5.00			4204.00	
Jars	5.00			4209.00	
Safety Joint	2.00			4211.00	
Packer	5.00			4216.00	27.00 Bottom Of Top Packer
Packer	4.00			4220.00	
Stubb	1.00			4221.00	
Recorder	0.00	8522	Inside	4221.00	
Recorder	0.00	8319	Outside	4221.00	
Perforations	23.00			4244.00	
Blank Off Sub	1.00			4245.00	
Packer - Shale	3.00			4248.00	
Stubb	1.00			4249.00	
Recorder	0.00	8845	Below	4249.00	
perforations	13.00			4262.00	
Bullnose	3.00			4265.00	45.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64424

DST#: 3

ATTN: Tim J Lauer

Test Start: 2018.08.31 @ 07:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 5o 95m	0.421
15.00	mco 10m 90o	0.210

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

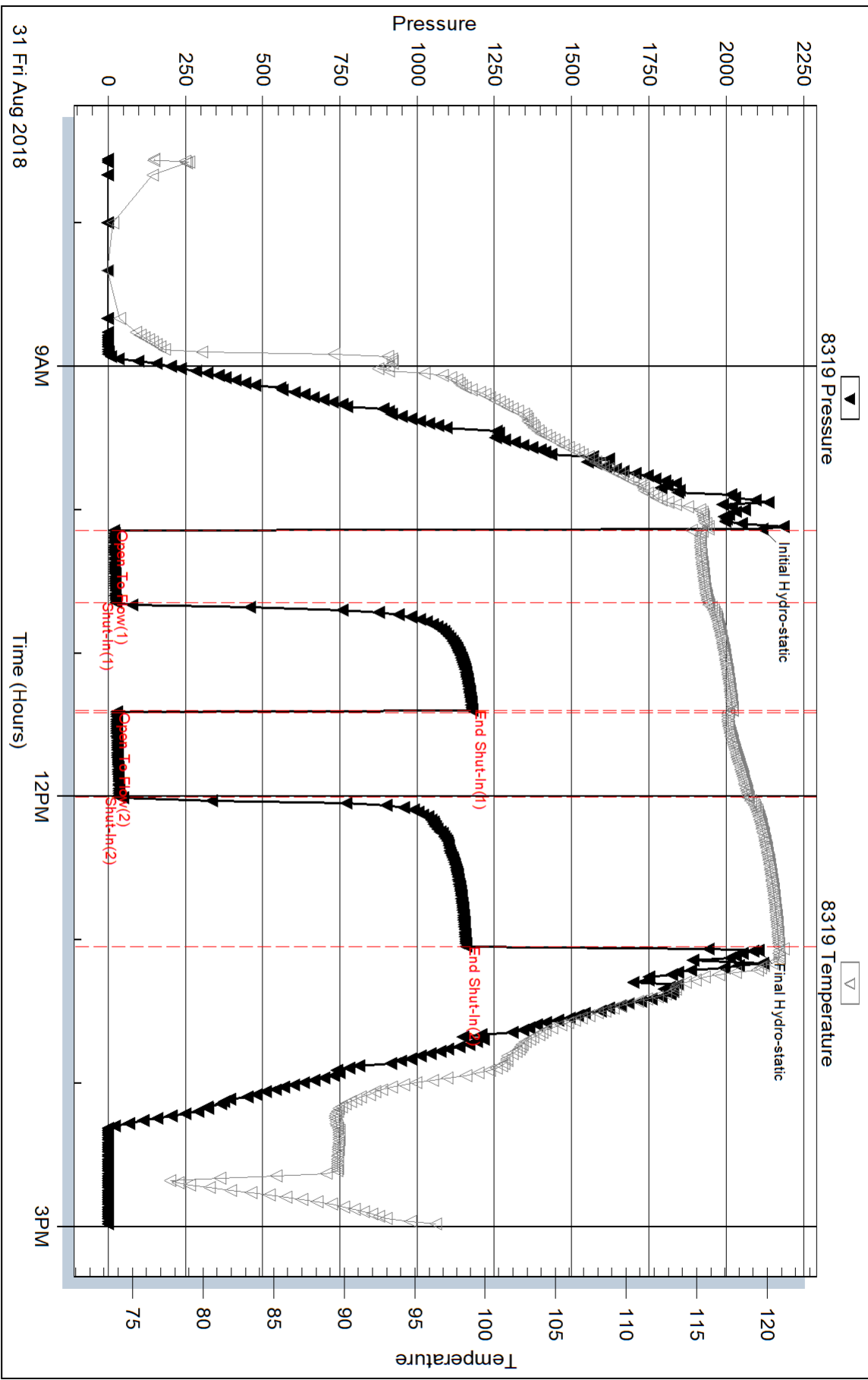
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: oil appeared to be of low gravity

Pressure vs. Time

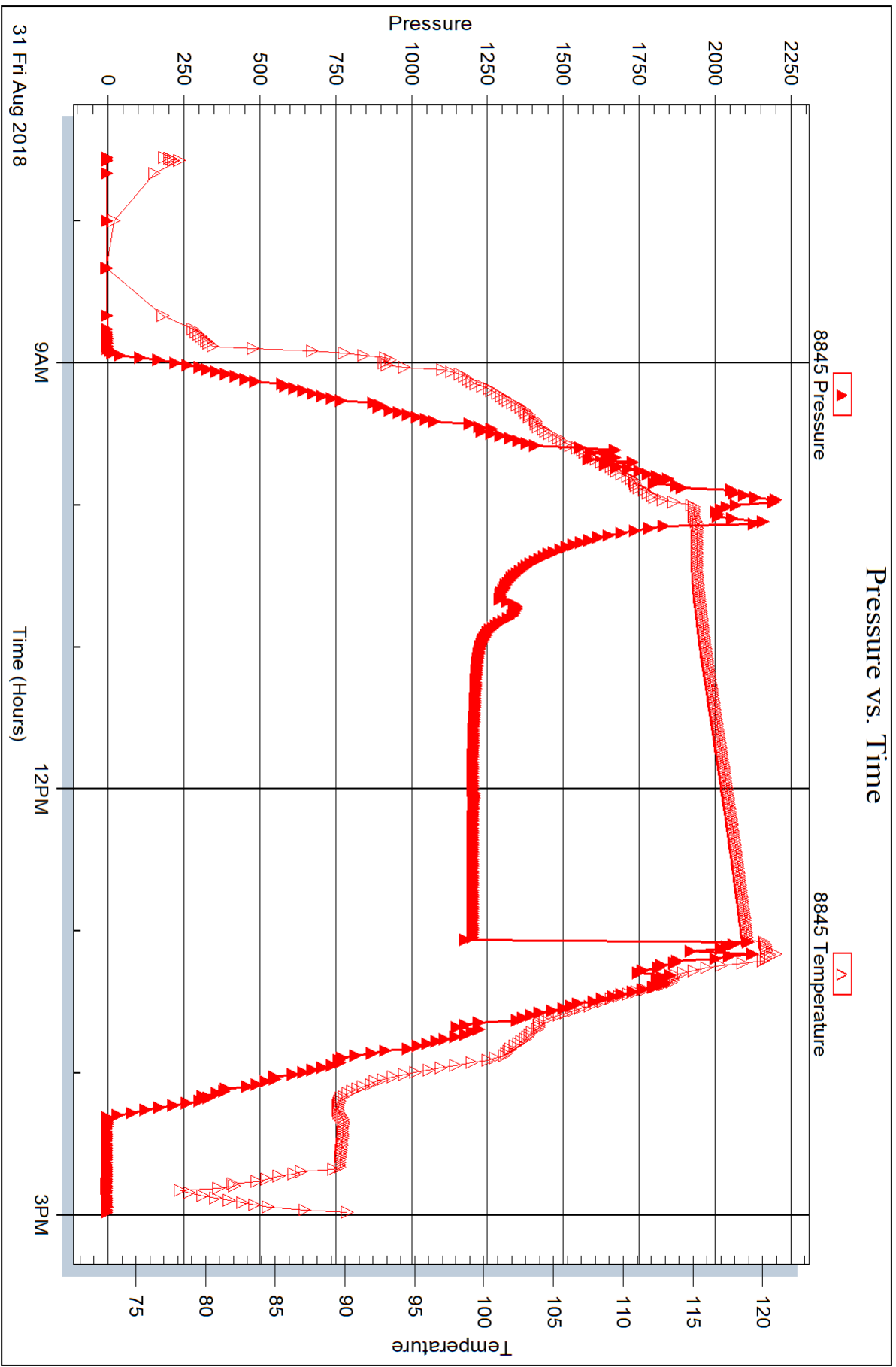


Serial #: 8845

Below (Stratfield) & Gas Co.

DGK #1-36

DST Test Number: 3



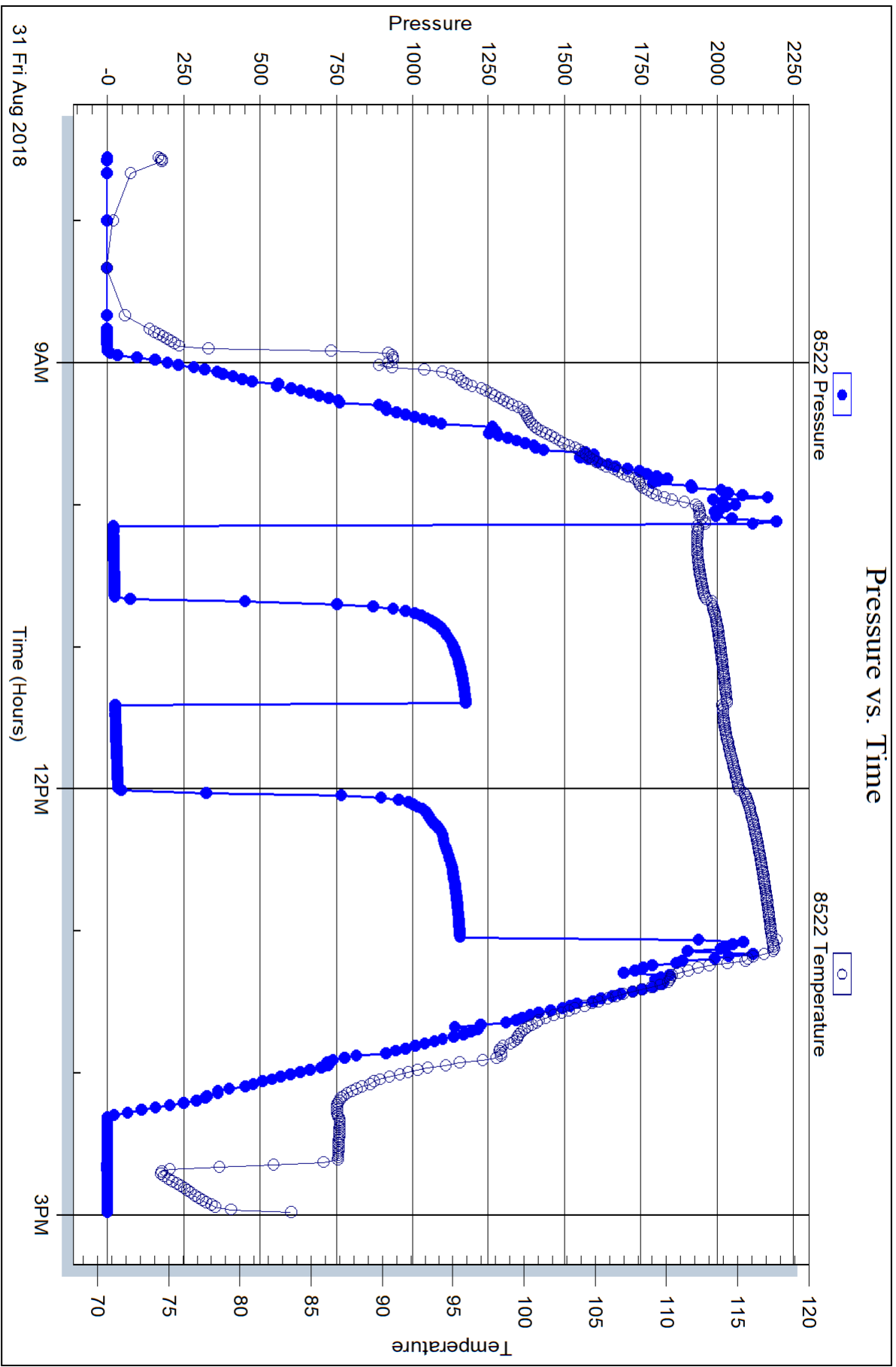
Serial #: 8522

Inside

Lario Oil & Gas Co.

DGK #1-36

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64424

Printed: 2018.09.05 @ 08:23:49



DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas Co.**

301 S Market St.
Wichita. KS 67202

ATTN: Tim J Lauer

DGK #1-36

36-18s-38w Wichita,KS

Start Date: 2018.09.01 @ 21:40:00

End Date: 2018.09.02 @ 05:32:45

Job Ticket #: 64425 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.09.05 @ 08:23:22

Lario Oil & Gas Co. 36-18s-38w Wichita,KS DGK #1-36 DST # 4 Pawnee 2018.09.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Co.
301 S Market St.
Wichita, KS 67202
ATTN: Tim J Lauer

36-18s-38w Wichita, KS

DGK #1-36

Job Ticket: 64425

DST#: 4

Test Start: 2018.09.01 @ 21:40:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:42:00
 Time Test Ended: 05:32:45
 Interval: **4536.00 ft (KB) To 4570.00 ft (KB) (TVD)**
 Total Depth: 4570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3391.00 ft (KB)
 3379.00 ft (CF)
 KB to GR/CF: 12.00 ft

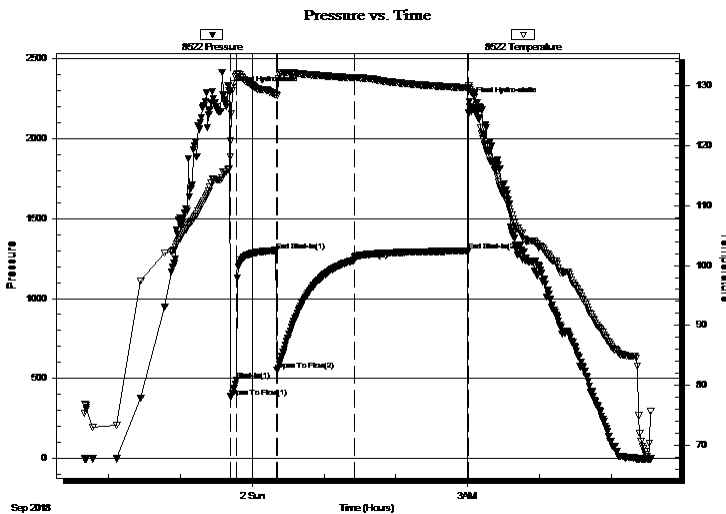
Serial #: 8522

Inside

Press@RunDepth: 1240.05 psig @ 4537.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.09.01 End Date: 2018.09.02 Last Calib.: 2018.09.02
 Start Time: 21:40:05 End Time: 05:32:44 Time On Btm: 2018.09.01 @ 23:41:00
 Time Off Btm: 2018.09.02 @ 03:01:30

TEST COMMENT: IF: BOB @ 30 sec. Built to 61".
 IS: No return.
 FF: BOB @ 30 sec, built to 165".
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2299.54	116.21	Initial Hydro-static
1	384.97	120.80	Open To Flow (1)
6	488.68	131.83	Shut-In(1)
39	1300.51	128.53	End Shut-In(1)
40	552.63	128.37	Open To Flow (2)
105	1240.05	131.38	Shut-In(2)
200	1296.14	129.69	End Shut-In(2)
201	2231.04	129.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2520.00	smcw 2m 98w	35.35

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita, KS 67202

DGK #1-36

Job Ticket: 64425

DST#: 4

ATTN: Tim J Lauer

Test Start: 2018.09.01 @ 21:40:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:42:00

Time Test Ended: 05:32:45

Interval: 4536.00 ft (KB) To 4570.00 ft (KB) (TVD)

Total Depth: 4570.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 3391.00 ft (KB)

3379.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8319 Outside

Press@RunDepth: psig @ 4537.00 ft (KB)

Start Date: 2018.09.01 End Date: 2018.09.02

Start Time: 21:40:05 End Time: 05:32:44

Capacity: 8000.00 psig

Last Calib.: 2018.09.02

Time On Btm:

Time Off Btm:

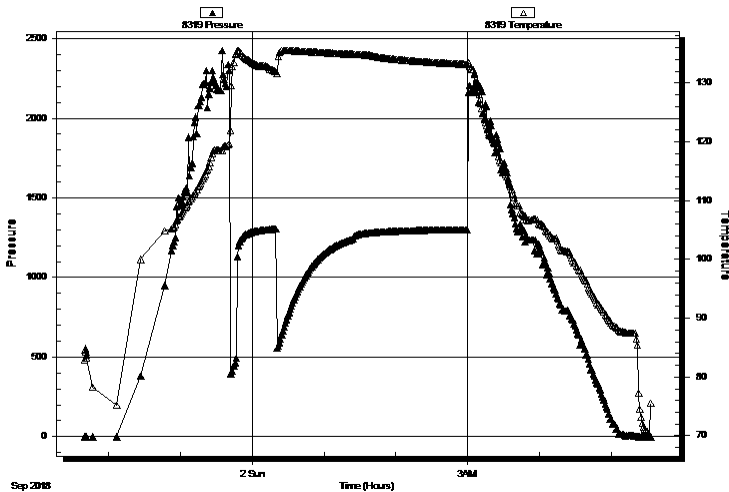
TEST COMMENT: IF: BOB @ 30 sec. Built to 61".

IS: No return.

FF: BOB @ 30 sec, built to 165".

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2520.00	smcw 2m 98w	35.35

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64425

DST#: 4

ATTN: Tim J Lauer

Test Start: 2018.09.01 @ 21:40:00

Tool Information

Drill Pipe:	Length: 4535.00 ft	Diameter: 3.80 inches	Volume: 63.61 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4536.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4510.00	
Shut In Tool	5.00			4515.00	
Hydraulic tool	5.00			4520.00	
Jars	5.00			4525.00	
Safety Joint	2.00			4527.00	
Packer	5.00			4532.00	27.00 Bottom Of Top Packer
Packer	4.00			4536.00	
Stubb	1.00			4537.00	
Recorder	0.00	8522	Inside	4537.00	
Recorder	0.00	8319	Outside	4537.00	
Perforations	30.00			4567.00	
Bullnose	3.00			4570.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64425

DST#: 4

ATTN: Tim J Lauer

Test Start: 2018.09.01 @ 21:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

68000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2520.00	smcw 2m 98w	35.349

Total Length: 2520.00 ft Total Volume: 35.349 bbl

Num Fluid Samples: 0

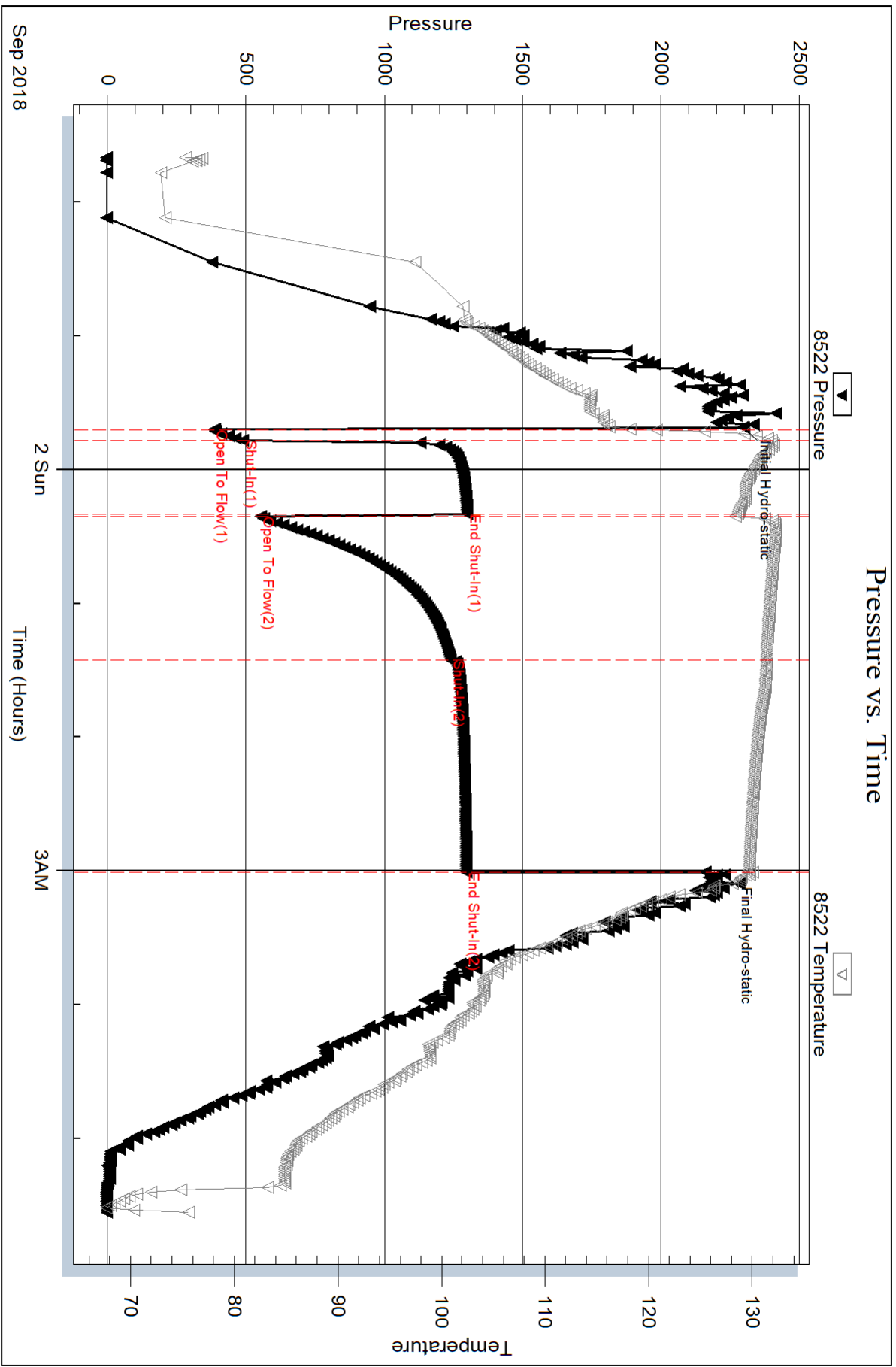
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .121 @ 65F = 68000ppm



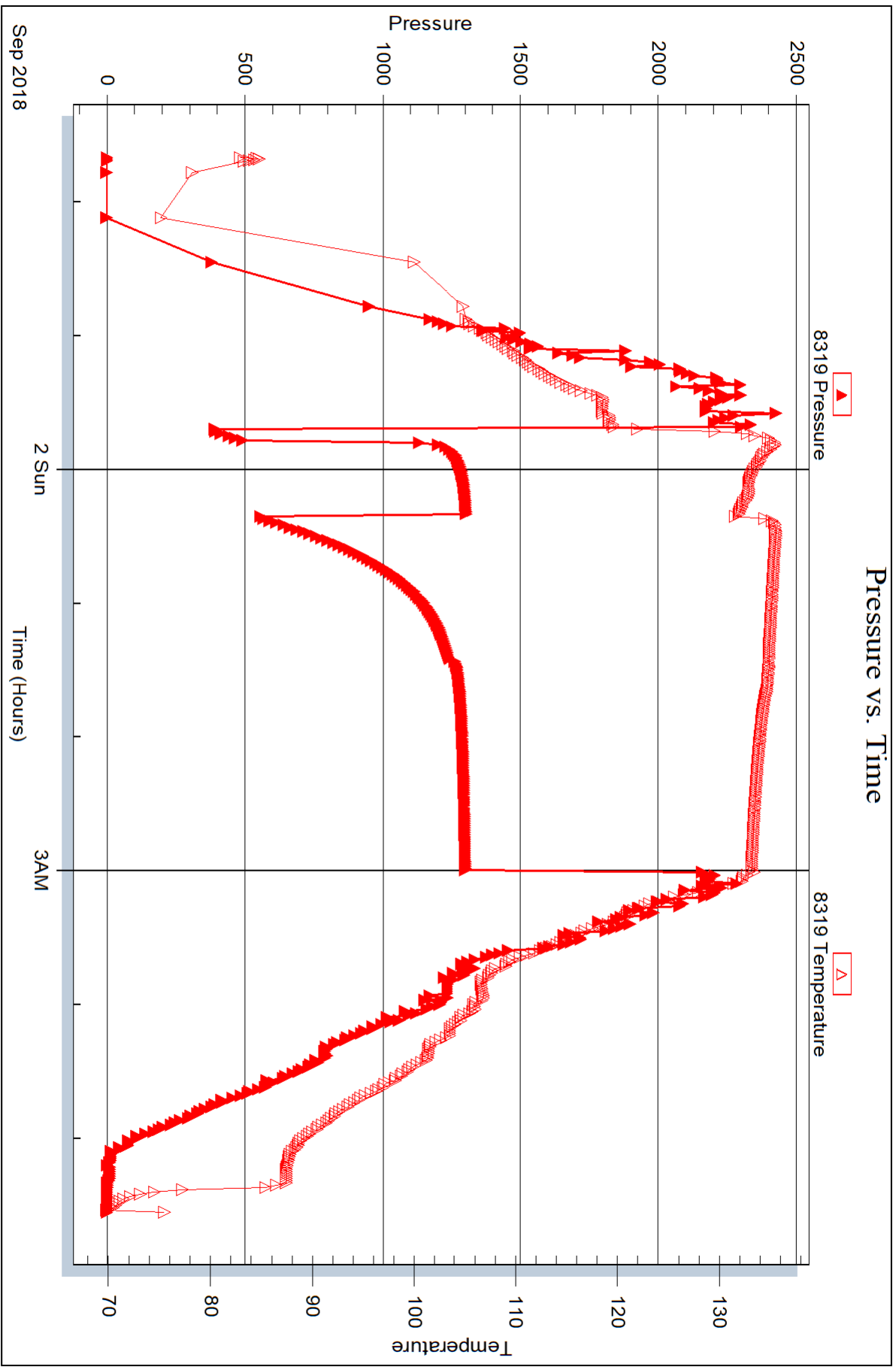
Serial #: 8319

Outside

Lario Oil & Gas Co.

DGK #1-36

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas Co.**

301 S Market St.
Wichita. KS 67202

ATTN: Tim J Lauer

DGK #1-36

36-18s-38w Wichita,KS

Start Date: 2018.09.02 @ 14:24:00

End Date: 2018.09.02 @ 20:08:00

Job Ticket #: 64327 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.09.05 @ 08:23:00

Lario Oil & Gas Co. 36-18s-38w Wichita,KS DGK #1-36 DST # 5 Ft Scott 2018.09.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.
 301 S Market St.
 Wichita, KS 67202
 ATTN: Tim J Lauer

36-18s-38w Wichita, KS

DGK #1-36

Job Ticket: 64327

DST#: 5

Test Start: 2018.09.02 @ 14:24:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:08:00

Time Test Ended: 20:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4575.00 ft (KB) To 4600.00 ft (KB) (TVD)**

Reference Elevations: 3391.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

3379.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8319 Outside

Press@RunDepth: 20.07 psig @ 4576.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.02 End Date: 2018.09.02

Last Calib.: 2018.09.02

Start Time: 14:24:05 End Time: 20:07:59

Time On Btm: 2018.09.02 @ 16:07:15

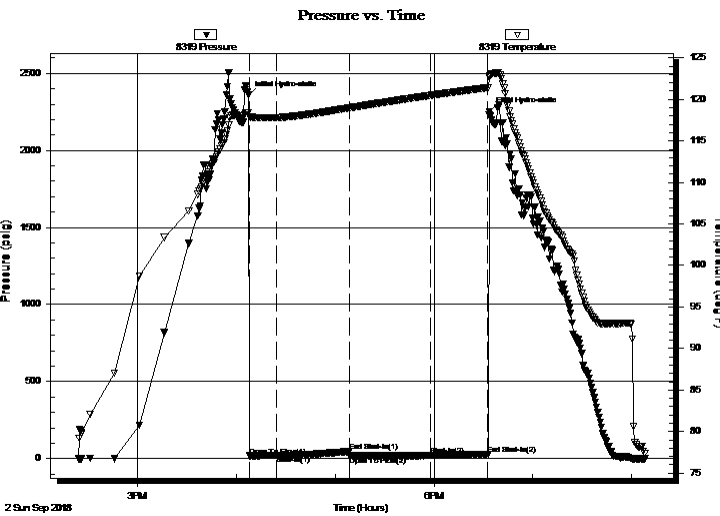
Time Off Btm: 2018.09.02 @ 18:33:45

TEST COMMENT: IF: Surface blow, Died @ 20 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2357.71	118.43	Initial Hydro-static
1	17.72	117.91	Open To Flow (1)
17	19.39	117.80	Shut-In(1)
62	46.81	118.98	End Shut-In(1)
62	17.68	118.98	Open To Flow (2)
111	20.07	120.48	Shut-In(2)
145	29.07	121.40	End Shut-In(2)
147	2249.77	122.81	Final Hydro-static

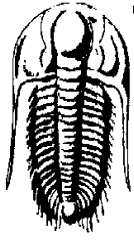
Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100m (Oil Spots on top)	0.04

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.
 301 S Market St.
 Wichita. KS 67202
 ATTN: Tim J Lauer

36-18s-38w Wichita,KS

DGK #1-36

Job Ticket: 64327

DST#: 5

Test Start: 2018.09.02 @ 14:24:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:08:00

Time Test Ended: 20:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4575.00 ft (KB) To 4600.00 ft (KB) (TVD)

Total Depth: 4600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3391.00 ft (KB)

3379.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8522 Inside

Press@RunDepth: psig @ 4576.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.02 End Date: 2018.09.02

Last Calib.: 2018.09.02

Start Time: 14:24:05 End Time: 20:08:14

Time On Btm:

Time Off Btm:

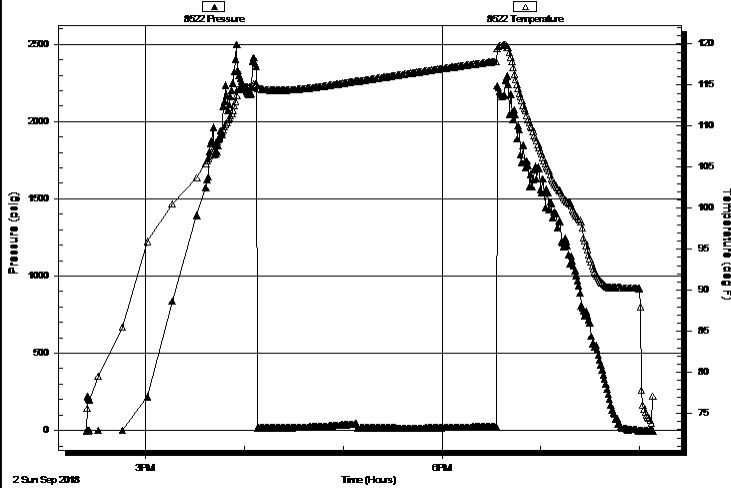
TEST COMMENT: IF: Surface blow , Died @ 20 min.

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)
3.00	mud 100m (Oil Spots on top)	0.04

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64327

DST#: 5

ATTN: Tim J Lauer

Test Start: 2018.09.02 @ 14:24:00

Tool Information

Drill Pipe:	Length: 4564.00 ft	Diameter: 3.80 inches	Volume: 64.02 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 64.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4575.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 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			4549.00	
Shut In Tool	5.00			4554.00	
Hydraulic tool	5.00			4559.00	
Jars	5.00			4564.00	
Safety Joint	2.00			4566.00	
Packer	5.00			4571.00	27.00 Bottom Of Top Packer
Packer	4.00			4575.00	
Stubb	1.00			4576.00	
Recorder	0.00	8522	Inside	4576.00	
Recorder	0.00	8319	Outside	4576.00	
Perforations	21.00			4597.00	
Bullnose	3.00			4600.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

36-18s-38w Wichita, KS

301 S Market St.
Wichita. KS 67202

DGK #1-36

Job Ticket: 64327

DST#: 5

ATTN: Tim J Lauer

Test Start: 2018.09.02 @ 14:24:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100m (Oil Spots on top)	0.042

Total Length: 3.00 ft Total Volume: 0.042 bbl

Num Fluid Samples: 0

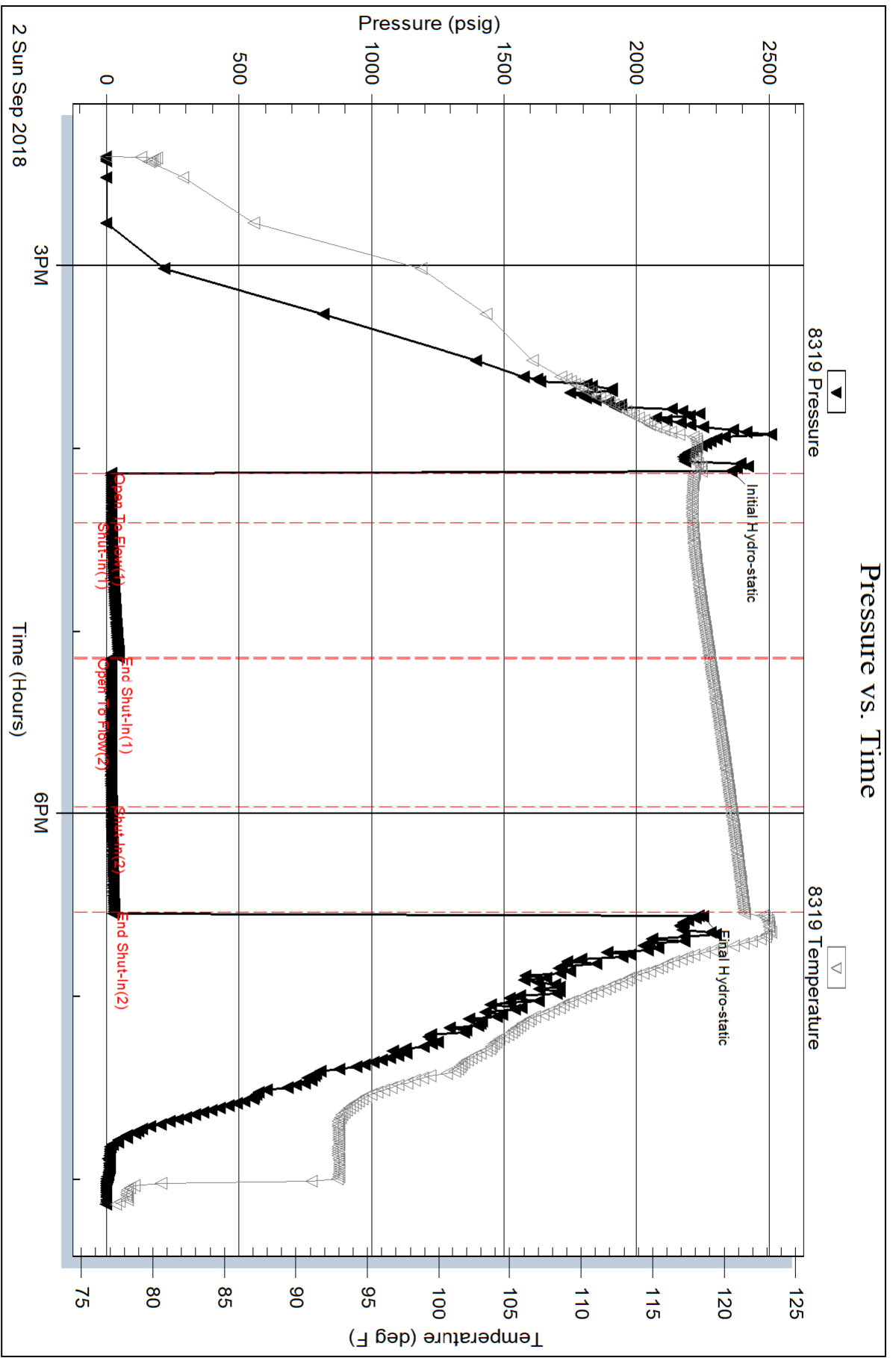
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



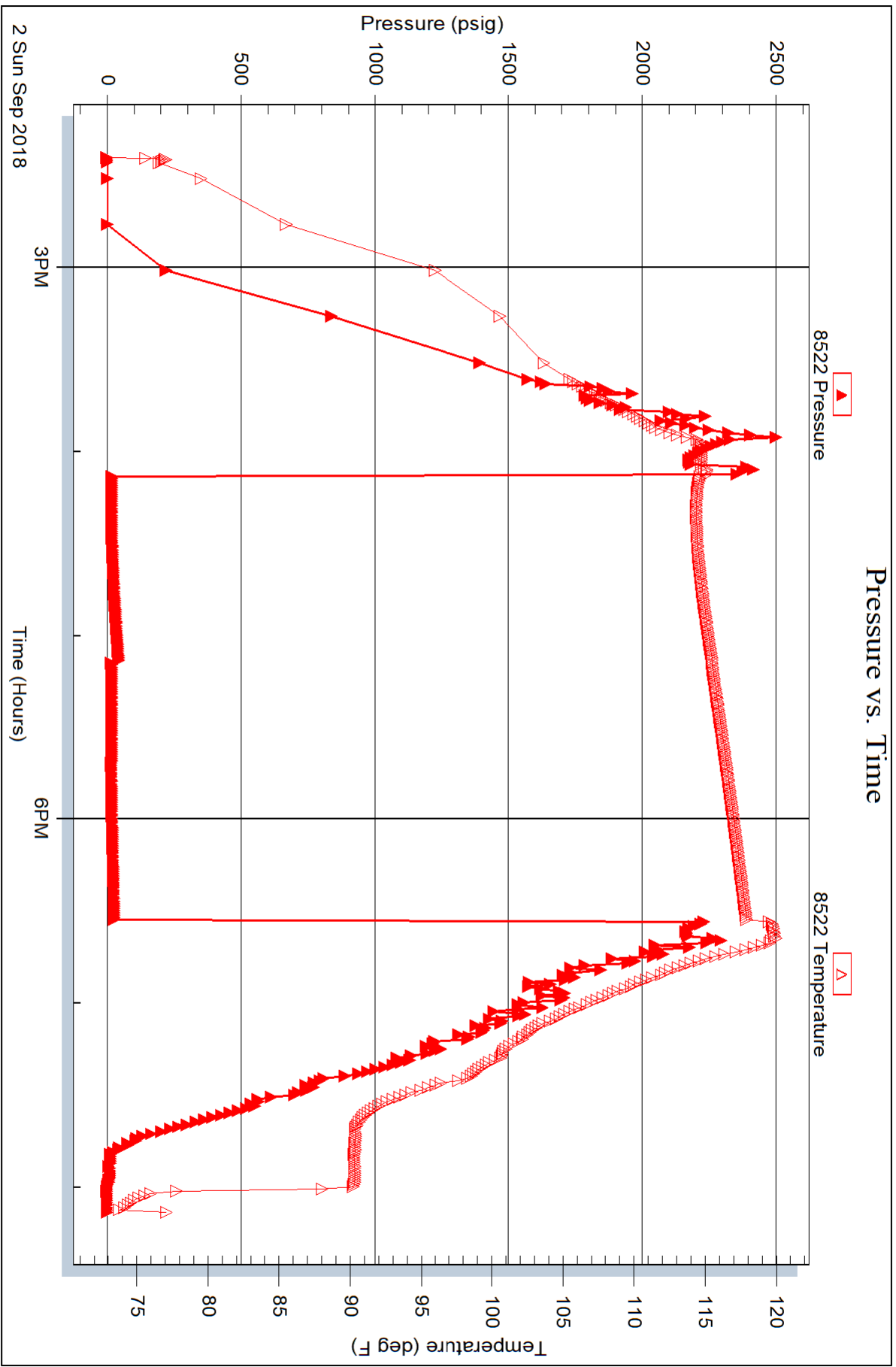
Serial #: 8522

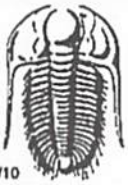
Inside

Lario Oil & Gas Co.

DGK #1-36

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64422

Well Name & No. DGK Trust # 1-36 Test No. 1 Date 8/29/2018
 Company Lario Oil & Gas Co Elevation 3391 KB 3379 GL
 Address 301 S Market St Wichita, ks 67202
 Co. Rep / Geo. Tim J Laver Rig Duke #1
 Location: Sec. 36 Twp 18s Rge. 38w Co. Wichita State Ks

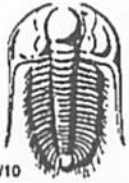
Interval Tested 3994-4020 Zone Tested LKC A
 Anchor Length 26' Drill Pipe Run 4000 Mud Wt. 9.1
 Top Packer Depth 3989 Drill Collars Run - Vis 51
 Bottom Packer Depth 3994 Wt. Pipe Run - WL 8.0
 Total Depth 4020 Chlorides 2500 ppm System LCM 2#
 Blow Description TF BOB@ 7 1/2 min. built to 37"
ISI No return.
FF BOB@ 8 min. built to 48"
ISI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>850</u>	<u>ncw</u>		<u>9.5</u>	<u>5</u>	
	<u>oil spots on top</u>				

Rec Total 850 BHT 122 Gravity - API RW 104 @ 87 °F Chlorides 6600 ppm

(A) Initial Hydrostatic <u>1938</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1015</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1113</u>
(C) First Final Flow <u>192</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1334</u>
(D) Initial Shut-In <u>1052</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>1634</u>
(E) Second Initial Flow <u>197</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1822</u>
(F) Second Final Flow <u>392</u>	<input checked="" type="checkbox"/> Mileage <u>68 RT</u> <u>68</u>	Comments
(G) Final Shut-In <u>1042</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1921</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1543</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1543</u>	

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64423

Well Name & No. DGK Trust #1-36 Test No. 2 Date 8/30/2018
 Company Lano Oil & Gas Co Elevation 3391 KB 3379 GL
 Address 301 S Market St. Wichita, ks 67202
 Co. Rep / Geo. Tim J Laver Rig Duke #1
 Location: Sec. 36 Twp 18s Rge. 38w Co. Wichita State KS

Interval Tested 4088-4120 Zone Tested LKC D
 Anchor Length 32' Drill Pipe Run 4093 Mud Wt. 9.1
 Top Packer Depth 4083 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 4088 Wt. Pipe Run 0 WL 8.8
 Total Depth 4120 Chlorides 3400 ppm System LCM 3rd
 Blow Description IF BOB @ 15 built to 18"

ISF No return.
FF BOB @ 15 min. built to 23"
FSF No return.

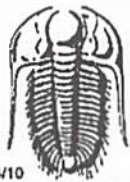
Rec	Feet of	%gas	%oil	%water	%mud
<u>470</u>	<u>MCW</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 470 BHT 125 Gravity — API RW 164 @ 82 °F Chlorides 37000 ppm
 (A) Initial Hydrostatic 2015 Test 1150 T-On Location 0700
 (B) First Initial Flow 26 Jars 250 T-Started 0708
 (C) First Final Flow 111 Safety Joint 75 T-Open 0908
 (D) Initial Shut-In 1116 Circ Sub N/C T-Pulled 1208
 (E) Second Initial Flow 114 Hourly Standby _____ T-Out 1352
 (F) Second Final Flow 221 Mileage 6847 68 Comments _____
 (G) Final Shut-In 1117 Sampler _____
 (H) Final Hydrostatic 2010 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 1543
 Total 1543
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64424

Well Name & No. DGK Trust #1-36 Test No. 3 Date 8/1/2018
 Company Lario Oil & Gas Co Elevation 3391 KB 3379 GL
 Address 301 S Market St. Wichita, Ks 67202
 Co. Rep / Geo. Tim J Laver Rig Duke #1
 Location: Sec. 36 Twp 28 S Rge. 38 W Co. Wichita State Ks

Interval Tested 4220-4248 Zone Tested LKC I
 Anchor Length 28' 17' Tail Drill Pipe Run 4220 Mud Wt. 9.1
 Top Packer Depth 4215-4220 Drill Collars Run Ø Vis 56
^{Strat} Bottom Packer Depth 4248 Wt. Pipe Run Ø WL 8.8
 Total Depth 4265 Chlorides 5,000 ppm System LCM 3#

Blow Description IF 1 1/2" blow
ISI No return
FF 1" blow
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MCO</u>	<u>90</u>		<u>10</u>	
<u>30</u>	<u>OCM</u>	<u>5</u>		<u>95</u>	

Rec Total 45 BHT 121 Gravity Low API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2117</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0700</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0733</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1000 1008</u>
(D) Initial Shut-In <u>1179</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1300 1300</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1459</u>
(F) Second Final Flow <u>36</u>	<input checked="" type="checkbox"/> Mileage <u>68 Rt</u> <u>68</u>	Comments
(G) Final Shut-In <u>1159</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2104</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	Total <u>2393</u>
	Sub Total <u>2393</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64425

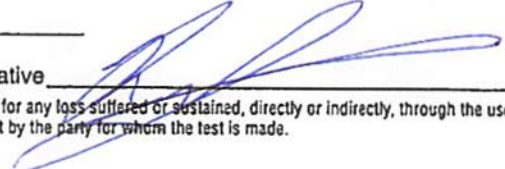
Well Name & No. DGE Trust #1-36 Test No. 4 Date 9/2/208
 Company Lario Oil & Gas Co Elevation 3391 KB 3379 GL
 Address 301 S Market St Wichita, ks 67202
 Co. Rep / Geo. Tim J Laver Rig Duke #1
 Location: Sec. 36 Twp 28 S Rge. 38 W Co. Wichita State Ks

Interval Tested 4526 - 4570 Zone Tested Pawnee
 Anchor Length 34' Drill Pipe Run 4535 Mud Wt. 9.2
 Top Packer Depth 4531 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 4536 Wt. Pipe Run 0 WL 8.8
 Total Depth 4570 Chlorides 5600 ppm System LCM 2#
 Blow Description IF BOB @ 30sec built to 61"
JST No return
FF BOB @ 30sec Built to 65"
FST No return

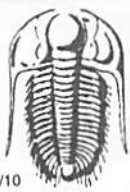
Rec	Feet of	%gas	%oil	%water	%mud
<u>2520</u>	<u>mcw</u>		<u>98</u>	<u>2</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2520 BHT 130 Gravity — API RW .121 @ 65 °F Chlorides 68000 ppm

(A) Initial Hydrostatic <u>2300</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2120</u>
(B) First Initial Flow <u>385</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2148</u>
(C) First Final Flow <u>489</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2348</u>
(D) Initial Shut-In <u>1301</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>0300</u>
(E) Second Initial Flow <u>553</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0533</u>
(F) Second Final Flow <u>1240</u>	<input checked="" type="checkbox"/> Mileage <u>68 RT</u> <u>68</u>	Comments
(G) Final Shut-In <u>1296</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2231</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>7</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1543</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1543</u>	

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64327**

Well Name & No. DGK Trust # 1-36 Test No. 5 Date 9/2/2018
 Company Lario Oil & Gas Co Elevation 3391 KB 3379 GL
 Address 301 S Market St. Wichita, Ks 67202
 Co. Rep / Geo. Tim J Laver Rig Duke #1
 Location: Sec. 36 Twp. 28s Rge. 38w Co. Wichita State Ks

Interval Tested 4575-4600 Zone Tested FT Scott
 Anchor Length 25' Drill Pipe Run 4564 Mud Wt. 9.0
 Top Packer Depth 4570 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4575 Wt. Pipe Run 0 WL 8.8
 Total Depth 4600 Chlorides 6,000 ppm System LCM 2#
 Blow Description IF: Surface blow, died @ 20 min.
ISI: No return.
FF: No blow
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>mud</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 3 BHT 121 Gravity ~ API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2358</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1400</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1424</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1549</u>
(D) Initial Shut-In <u>47</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>1429 1830</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2008</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>68 RT</u> 68 +68	Comments <u>PU Tools</u>
(G) Final Shut-In <u>29</u>	<input type="checkbox"/> Sampler	<u>9/4 1000 AM</u>
(H) Final Hydrostatic <u>2250</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>45</u>	<input checked="" type="checkbox"/> Day Standby <u>1.5d 1.75h</u>	Total <u>2411</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1611</u>	

Approved By _____ Our Representative

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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

Table with 2 columns: COMPANY, LEASE, FIELD, LOCATION, COUNTY, STATE, CONTRACTOR, SPUD, RTD, MUD UP, SAMPLES SAVED, DRILLING TIME, SAMPLES EXAMINED, GEOLOGICAL SUPERVISION, GEOLOGIST ON WELL, FORMATION TOPS, and ELECTRIC LOG SAMPLE LOG.

Table with 2 columns: ELEVATIONS, MEASUREMENTS, CASING, ELECTRICAL SURVEYS, and a well location diagram.

REMARKS Due to drill stem test results, and log evaluation, operator elected to plug and abandon the well without any further testing. Note: Both Straps and Elong measurements were 6' deep to Rotary measurement. Add 6' to all Rotary measurements to match Elongs.

Respectfully submitted, Tim J. Lauer 9/6/2018

LEGEND table with columns for Lithology (Anhydrite, Sandstone, Limestone, Shale, Carb Sh, Cherty LS, Chert, Dolomite) and Drilling Time (SLSST, DTS, Rate of Penetration Decreases).

SAMPLE SUMMARY table with columns for DEPTH, Lithology, and Remarks.

REMARKS table with columns for DEPTH, Lithology, and Remarks.

REMARKS table with columns for DEPTH, Lithology, and Remarks.

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REMARKS table with columns for DEPTH, Lithology, and Remarks.

COMPANY & WELL, LOCATION, COUNTY, STATE, ELEVATIONS

