

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)</i> <i>(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	LANG A 1-12
Doc ID	1410772

All Electric Logs Run

Dual Induction
Microlog
Compensated Density / Neutron PE
Sonic
Logs by ELI Wireline

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	LANG A 1-12
Doc ID	1410772

Tops

Name	Top	Datum
Heebner	3970	-832
Lansing	4018	-880
Stark Shale	4333	-1195
Hushpuckney	4384	-1246
Base KC	4467	-1329
Marmaton	4500	-1362
Pawnee	4593	-1455
Ft. Scott	4613	-1475
Johnson	4724	-1586
Morrow	4829	-1691
Mississippian	4926	-1788

GLOBAL OIL FIELD SERVICES, LLC

Invoice

24 S. Lincoln
RUSSELL, KS 67665

Date	Invoice #
4/9/2018	3316

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

P.O. No.	Terms	Project
LANG A#1-17	Due on receipt	

Quantity	Description	Rate	Amount
240	60/40 POZMIX CEMENT	13.40	3,216.00
8	CALCIUM-CHLORIDE	80.00	640.00
6	BENTONITE GEL	30.00	180.00
254	HANDLING	1.60	406.40
	BULK MILEAGE	1,016.00	1,016.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	850.00	850.00
50	HEAVY EQUIPMENT. ONE WAY	3.50	175.00
50	LMV- ONE WAY	1.75	87.50
	20% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE * new sales tax rate as of 7-1-2015	-1,328.08 8.50%	-1,328.08 0.00

*BCP
AFE 18-042*

GC

APR 12 2018

JS KE FB SF DM

GC

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

Total	\$5,242.82
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GLOBAL OIL FIELD SERVICES, LLC

3316

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>4-2-18</u>	SEC. <u>12</u>	TWP. <u>70</u>	RANGE <u>35W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>5:15 am</u>
LEASE <u>Lang A</u>	WELL# <u>H17</u>	LOCATION <u>17 wgs + of Sect C11/15 11 south</u>			COUNTY <u>Wich. 40</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)		<u>1 wgs + 100' h/d</u>					

CONTRACTOR Martin Drilling Rig #21

TYPE OF JOB Surface

HOLE SIZE 17 3/4 T.D.

CASING SIZE 2 3/8 DEPTH 353.62'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

OWNER Lario Oil + Gas Company

CEMENT AMOUNT ORDERED 240 sacks 60/40 22
3% ACC 28 gal

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

EQUIPMENT

PUMP TRUCK CEMENTER Bob

417 HELPER Juan

BULK TRUCK DRIVER Kais

375

BULK TRUCK DRIVER

#

REMARKS:

Run 8 hrs of 50% casing + 16' 1/2 pipe
circulation blocked so pump truck pumped
240 sacks of cement + displaced 21 hrs of 100'
and shut in

Cement did circulate to surface

CHARGE TO: Lario Oil + Gas Company

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 Juan

SIGNATURE Juan

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 2	1002301	1718	04/18/2018
INVOICE NUMBER			
92683556			

Pratt (620) 672-1201
 B LARIO OIL & GAS
 I 301 S MARKET ST
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Lang A1-12
 O LOCATION
 B COUNTY Wichita
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

EDI INVOICE

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
41101019	19919		Net - 30 days	05/18/2018	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 04/16/2018 to 04/16/2018</i>					
0041101019 Cement Production Casing/AFE #18042/Cost Center 4234.001					
AFE # =18042;COST CENTER =4234.001;DEPARTMEN T =Accounts Payable; 171815657L Cement-New Well Casing/Pi 04/16/2018 Cement Production. Casing/AFE #18042/Cost Center 4234.001					
AA2 Cement		235.00	EA	9.46	2,223.10 T
A-Con' Blend		375.00	EA	9.67	3,626.25 T
Calcium Chloride		1,059.00	EA	0.55	582.45 T
Celloflake		94.00	EA	1.92	180.48 T
Gypsum		1,105.00	EA	0.39	430.95 T
Salt		1,301.00	EA	0.26	338.26 T
C-15		133.00	EA	6.50	864.50 T
C-41P		56.00	EA	2.08	116.48 T
Gilsonite		1,175.00	EA	0.35	411.25 T
"Two Stage Cement Collar, 4 1/2" (Blue)		1.00	EA	3,500.00	3,500.00
"Auto Fill Float Shoe 4 1/2" (Blue)"		1.00	EA	330.00	330.00
"Turbolizer, 4 1/2" (Blue)"		16.00	EA	85.00	1,360.00
4 1/2 Canvas Basket (Gray)		1.00	EA	276.00	276.00
Super Flush II		500.00	EA	0.80	400.00 T
Heavy Equipment Mileage		300.00	MI	3.90	1,170.00
Blending & Mixing Service Charge		610.00	BAG	0.73	445.30
Proppant & Bulk Del. Chgs., per ton mil		2,870.00	EA	1.30	3,731.00
Depth Charge; 5001-6000'		1.00	EA	1,497.60	1,497.60
Additional Stage Charge		1.00	EA	1,123.20	1,123.20



PAGE	CUST NO	YARD #	INVOICE DATE
2 of 2	1002301	1718	04/18/2018
INVOICE NUMBER			
92683556			

Pratt (620) 672-1201
 B LARIO OIL & GAS
 I 301 S MARKET ST
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Lang A1-12
 O LOCATION
 B COUNTY Wichita
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

EDI INVOICE

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
41101019	19919			Net - 30 days	05/18/2018
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
Plug Container Util. Chg.		1.00	EA	130.00	130.00
"Unit Mileage Chg (PU, cars one way)"		100.00	MI	2.34	234.00
"Service Supervisor, first 8 hrs on loc.		1.00	EA	91.00	91.00
Cement Data Acquisition Monitor		1.00	EA	286.00	286.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	23,347.82
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	779.77
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	24,127.59
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



1700 S. Country Estates Road
 Liberal, KS 67901
 PH (620)-624-2277 FAX (620) 624-2280

SERVICE ORDER - 1718 15657 L

Date: 4/16/2018

TTL MHR 62

Well Name: Lang A1-12 Location: 12.20.35
 County - State: Wichita, Ks RRC #: 19919-8.5
 Type Of Service: Z42 - Cement Production Casing Customer's Order #: 1002301 - 3000569
 Customer: Larlop Oil & Gas

Address:

As a consideration, the above named Customer agrees to pay Basic Energy Services in accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable NET 30 (SEE 10.2) after date of Invoice. Upon Customer's default in payment of Customer's account by such date, Customer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

Basic Energy Services warrants only title to the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limited to the replacement of such products, supplies or materials or, at Basic Energy Services' option, to the allowance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or consequential damages.

CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
CL105	235	Sk	AA2 Cement	18.20	4277.00
CL101	375	Sk	'A-Con' Blend	18.60	6975.00
CC109	1059	Lb	Calcium Chloride	1.05	1111.95
CC102	94	Lb	Celloflake	3.70	347.80
CC113	1105	Lb	Gypsum	0.75	828.75
CC111	1301	Lb	Salt	0.50	650.50
CC103	133	Lb	C-15	12.50	1662.50
CC105	56	Lb	C-41P	4.00	224.00
CC201	1175	Lb	Gilsonite	0.67	787.25
CF450	1	Ea	Two Stage Cement Collar, 4 1/2" (Blue)	3500.00	3500.00
CF1250	1	Ea	Auto Fill Float Shoe 4 1/2" (Blue)	330.00	330.00
CF1650	16	Ea	Turbolizer, 4 1/2" (Blue)	85.00	1360.00
CF4550	1	ea	4 1/2 Canvas Basket (Gray)	345.00	345.00
CC155	500	Gal	Super Flush II	1.53	765.00
E101	300	Mi	Heavy Equipment Mileage	7.50	2250.00
CE240	610	Sk	Blending & Mixing Service Charge	1.40	854.00
E113	2870	Tn/Mi	Proppant and Bulk Delivery Charges, per ton mile	2.50	7175.00
CE206	1	4 Hrs	Depth Charge; 6001-6000'	2880.00	2880.00
CE409	1	4 Hrs	Additional Stage Charge	2160.00	2160.00
CE504	1	Job	Plug Container Utilization Charge	250.00	250.00
E100	100	Mi	Unit Mileage Charge-Pickups, Small Vans & Cars (one way)	4.50	450.00
S003	1	Ea	Service Supervisor, first 8 hrs on loc.	175.00	175.00
T105	1	Ea	Cement Data Acquisition Monitor / Strip Chart Recorder	550.00	550.00
				Book Total:	\$39,908.75
				Taxes:	
				Disc. Price:	\$23,347.82

Dept: AP
Cost Center: 4234.001
AFE: 18042

PUMP TRUCK NUMBER: 38117, 19919
 DRIVER: Angel Echevarria
Daniel Beebe
 BASIC ENERGY SERVICES

THIS JOB WAS SATISFACTORILY COMPLETED YES NO
 OPERATION OF EQUIPMENT WAS SATISFACTORY YES NO
 PERFORMANCE OF PERSONEL WAS SATISFACTORY YES NO
X Reuben Padgett 4/16/2018
 CUSTOMER OR HIS AGENT

Customer Comments or Concerns:



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Lario Oil & Gas	Cement Pump No.:	38117, 19919 Hrs.	Operator TRK No.:	96816		
Address:		Ticket #:	1718 15657 L	Bulk TRK No.:	19827, 19808 Marc	14355, 37724 Oscar	
City, State, Zip:		Job Type:	Z42 - Cement Production Casing				
Service District:	1718 - Liberal, Ks.	Well Type:	OIL				
Well Name and No.:	Lang A1-12	Well Location:	12,20,35	County:	Wichita	State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
AA2	235	10% Gypsum, 10% Salt, .6% C-17, .25# Defoamer, 5# Gllsonite	19827, 19808 Marc		Front Back
A-Con' Blend	325	3% Calcium Chloride, 1/4# Polyflake	14355, 37724 Oscar		Front Back
Rat & Mouse	50		14355, 37724		Front Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Tail Stage: 1	14.8	1.51	6.63	354.85	TT Man Hours:	62
Tail Stage: 2	11.4	2.95	18.1	958.75	# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure (PSI)		Description of Operallon and Materials
			T	C	Tubing	Casing	
11:15							ON LOCATION
12:55							SAFETY MEETING
1:15 PM							RIG UP TO CIRCULATE
2:41 PM							RIG TO P.T.
2:45 PM							PRESSURE TEST TO 2980PSI
14:48	5	5				180	PUMP 5BBL SPACER
14:50	5	11.9				180	PUMP 500GALLONS SUPER MUD FLUSH II
2:53 PM	4.9	5				210	PUMP 5BBL SPACER
14:56	6.2	63.1 slurry				350	PUMP 235SX TAIL @ 14.8# / STAGE #1
15:09							SHUTDOWN / DROP PLUG / W.P.
15:17	6	10				90	DISPLACE W/ H2O 42.9BBLS
	6	20				90	
	6.5	30				90	
	6.5	40				150	DISPLACE W/ MUD 36.7BBLS
	7	50				280	
	6.9	60				540	
15:29	6.7	69				720	SLOW RATE TO 2.0BPM @ 530PSI
	2	70				610	
15:36	2	79.6				630	LAND PLUG / PRESSURE UP TO 1500PSI
15:38							RELEASE BACK --- FLOAT HELD
15:45							DROP OPENING TOOL
16:00							PUMP OPENING TOOL W/ 1020PSI
16:05							SHUTDOWN / SWITCH TO RIG PUMP

Size Hole	7 7/8"	Depth			TYPE	Plug Container	
Size & Wt. Csg.	4 1/2" 11.6#	Depth	5039.31'	New / Used	Stage Tool	2310.05'	Depth
Landing Press. 1	559.2psi	Landing Press. 2	367.7psi		Retainer		Depth
Shoe Jt.	15.56'	Type			Perfs		CIBP

Customer Signature: <i>X Reuben Paddock 4/16/2018</i>	Basic Representative:	Daniel Beck
	Basic Signature:	<i>Daniel Beck</i>
	Date of Service:	4/16/2018



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log 2

Customer:	Lario Oil & Gas	Cement Pump No.:	38117, 19919 8.5Hrs.	Operator TRK No.:	96816	
Address:		Ticket #:	1718 15657 L	Bulk TRK No.:	19827, 19808 Marc	14355, 37724 Oscar
City, State, Zip:		Job Type:	Z42 - Cement Production Casing			
Service District:	1718 - Liberal, Ks.	Well Type:	OIL			
Well Name and No.:	Lang A1-12	Well Location:	12,20,35	County:	Wichita	State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
AA2	235	10% Gypsum, 10% Salt, .6% C-17, .25# Defoamer, 5# Gilsolite	19827, 19808 Marc		Front Back
A-Con' Blend	325	3% Calcium Chloride, 1/4# Polyflake	14355, 37724 Oscar		Front Back
Rat & Mouse	50		14355, 37724		Front Back
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel
Tail Stage: 1	14.8	1.51	6.63	354.85	TT Man Hours: 62
Tail Stage: 2	11.4	2.95	18.1	958.75	# of Man on Job: 4

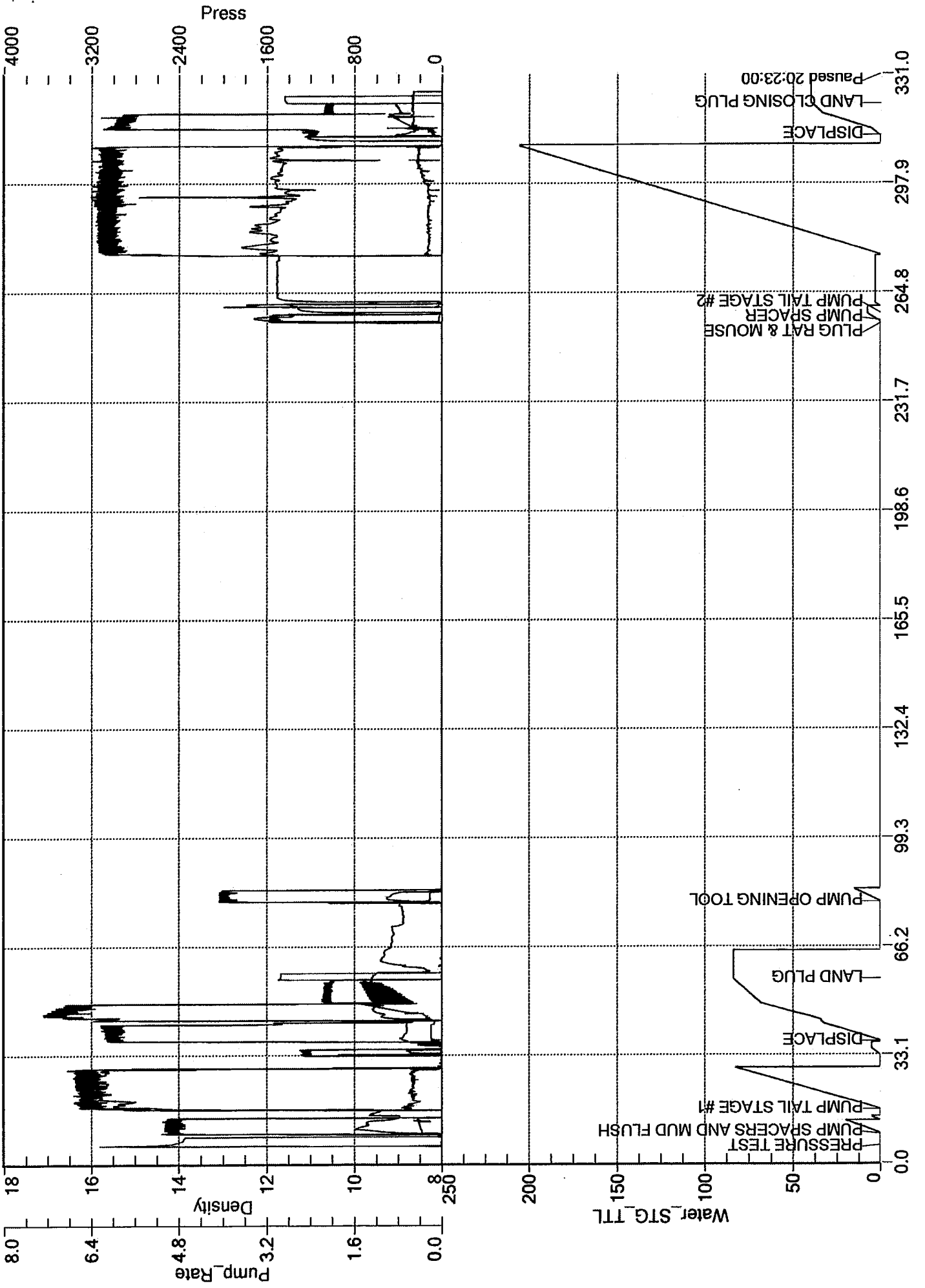
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
16:15							CIRCULATE W/ RIG 3HRS
18:59							PLUG RAT & MOUSE W/ 50SX
7:15 PM							RIG TO P.T.
7:17 PM	6.1	5				150	PUMP 5BBL SPACER
7:19 PM	6.1	170.7 slurry				150	PUMP 325SX TAIL @ 11.4# / STAGE 2 / CEMENT
7:51 PM							RETURNS 150BBLs IN
19:55							SHUTDOWN / DROP CLOSING PLUG
19:56	6	10				280	DISPLACE
	5.8	20				390	
20:02	5.7	30				480	SLOW RATE TO 2.1BPM @ 390PSI
20:06	2.1	36.7				430	LAND PLUG / PRESSURE UP TO 1480PSI
20:08							RELEASE BACK — FLOAT HELD
							JOB COMPLETE

Size Hole	7 7/8"	Depth			TYPE	Plug Container	
Size & Wt. Csg.	4 1/2" 11.6#	Depth	5039.31'	New / Used	Stage Tool	2310.05'	Depth
Landing Press. 1	559.2psi	Landing Press. 2	367.7psi		Retainer		Depth
Shoe Jt.	15.56'	Type			Perfs		CIBP

Customer Signature:	<i>X</i>	Basic Representative:	Daniel Beck
		Basic Signature:	<i>Daniel Beck</i>
		Date of Service:	4/16/2018

Lario Oil & Gas

Lang A-1-12





DRILL STEM TEST REPORT

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

301 S Market St
Wichita, KS 67202

ATTN: Tim Lauer

Lang A #1-12

12-20s-35w Wichita,KS

Start Date: 2018.04.10 @ 20:13:00

End Date: 2018.04.11 @ 03:42:15

Job Ticket #: 63652 DST #: 1

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

Printed: 2018.04.16 @ 11:52:52



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

12-20s-35w Wichita, KS

Lang A #1-12

Job Ticket: 63652

DST#: 1

Test Start: 2018.04.10 @ 20:13:00

GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:23:30
 Time Test Ended: 03:42:15
 Interval: **4258.00 ft (KB) To 4280.00 ft (KB) (TVD)**
 Total Depth: 4280.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3138.00 ft (KB)
 3127.00 ft (CF)
 KB to GR/CF: 11.00 ft

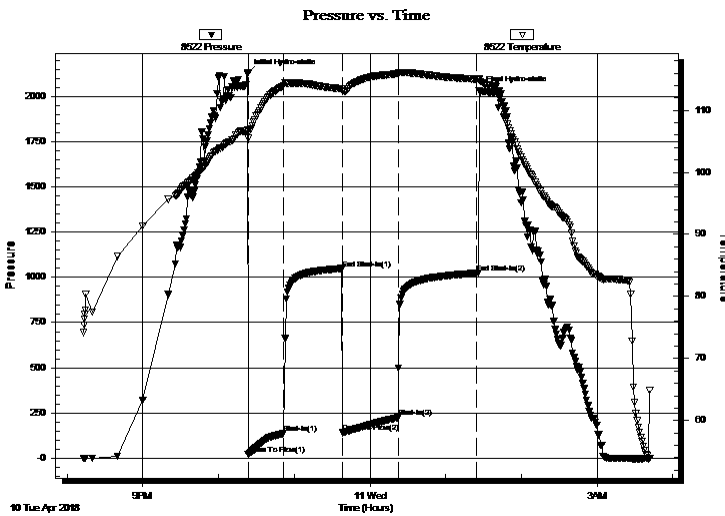
Serial #: 8522

Inside

Press@RunDepth: 225.79 psig @ 4259.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.10 End Date: 2018.04.11 Last Calib.: 2018.04.11
 Start Time: 20:13:05 End Time: 03:42:14 Time On Btm: 2018.04.10 @ 22:23:15
 Time Off Btm: 2018.04.11 @ 01:26:30

TEST COMMENT: IF: BOB @ 20 min.
 IS: No return.
 FF: BOB @ 24 min.
 FS: No return.

PRESSURE SUMMARY



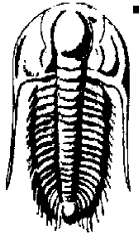
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2126.08	106.78	Initial Hydro-static
1	20.97	105.50	Open To Flow (1)
29	136.95	113.95	Shut-In(1)
75	1049.12	113.47	End Shut-In(1)
76	141.18	113.10	Open To Flow (2)
120	225.79	115.88	Shut-In(2)
182	1023.76	114.99	End Shut-In(2)
184	2032.61	115.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
470.00	mcw 90m 10w (oil spots-Top)	4.65

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 Lauer

12-20s-35w Wichita, KS

Lang A #1-12

Job Ticket: 63652

DST#: 1

Test Start: 2018.04.10 @ 20:13:00

GENERAL INFORMATION:

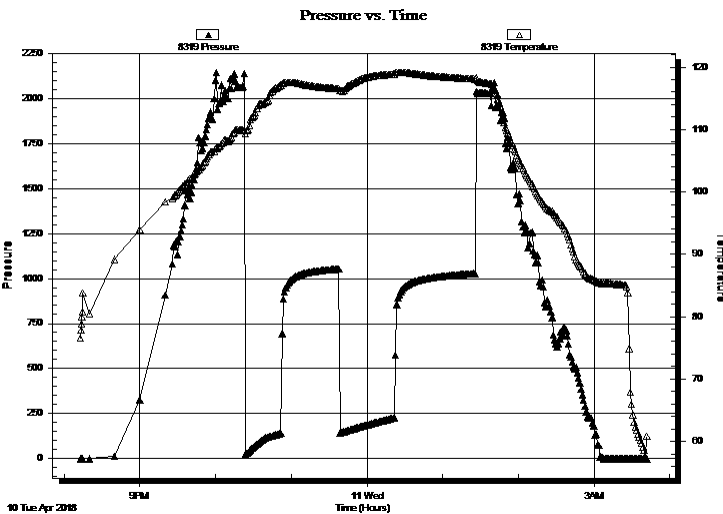
Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:23:30
 Time Test Ended: 03:42:15
 Interval: **4258.00 ft (KB) To 4280.00 ft (KB) (TVD)**
 Total Depth: 4280.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 3138.00 ft (KB)
 3127.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8319

Outside

Press@RunDepth: psig @ 4259.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.10 End Date: 2018.04.11 Last Calib.: 2018.04.11
 Start Time: 20:13:05 End Time: 03:41:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB @ 20 min.
 IS: No return.
 FF: BOB @ 24 min.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
470.00	mcw 90m 10w (oil spots-Top)	4.65

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

12-20s-35w Wichita, KS
Lang A #1-12
Job Ticket: 63652
Test Start: 2018.04.10 @ 20:13:00

DST#: 1

Tool Information

Drill Pipe:	Length: 4048.00 ft	Diameter: 3.80 inches	Volume: 56.78 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: 213.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 57.83 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4258.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4232.00	
Shut In Tool	5.00			4237.00	
Hydraulic tool	5.00			4242.00	
Jars	5.00			4247.00	
Safety Joint	2.00			4249.00	
Packer	5.00			4254.00	27.00 Bottom Of Top Packer
Packer	4.00			4258.00	
Stubb	1.00			4259.00	
Recorder	0.00	8522	Inside	4259.00	
Recorder	0.00	8319	Outside	4259.00	
Perforations	18.00			4277.00	
Bullnose	3.00			4280.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

12-20s-35w Wichita, KS
Lang A #1-12
Job Ticket: 63652 **DST#: 1**
Test Start: 2018.04.10 @ 20:13:00

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: 47000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.18 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3400.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

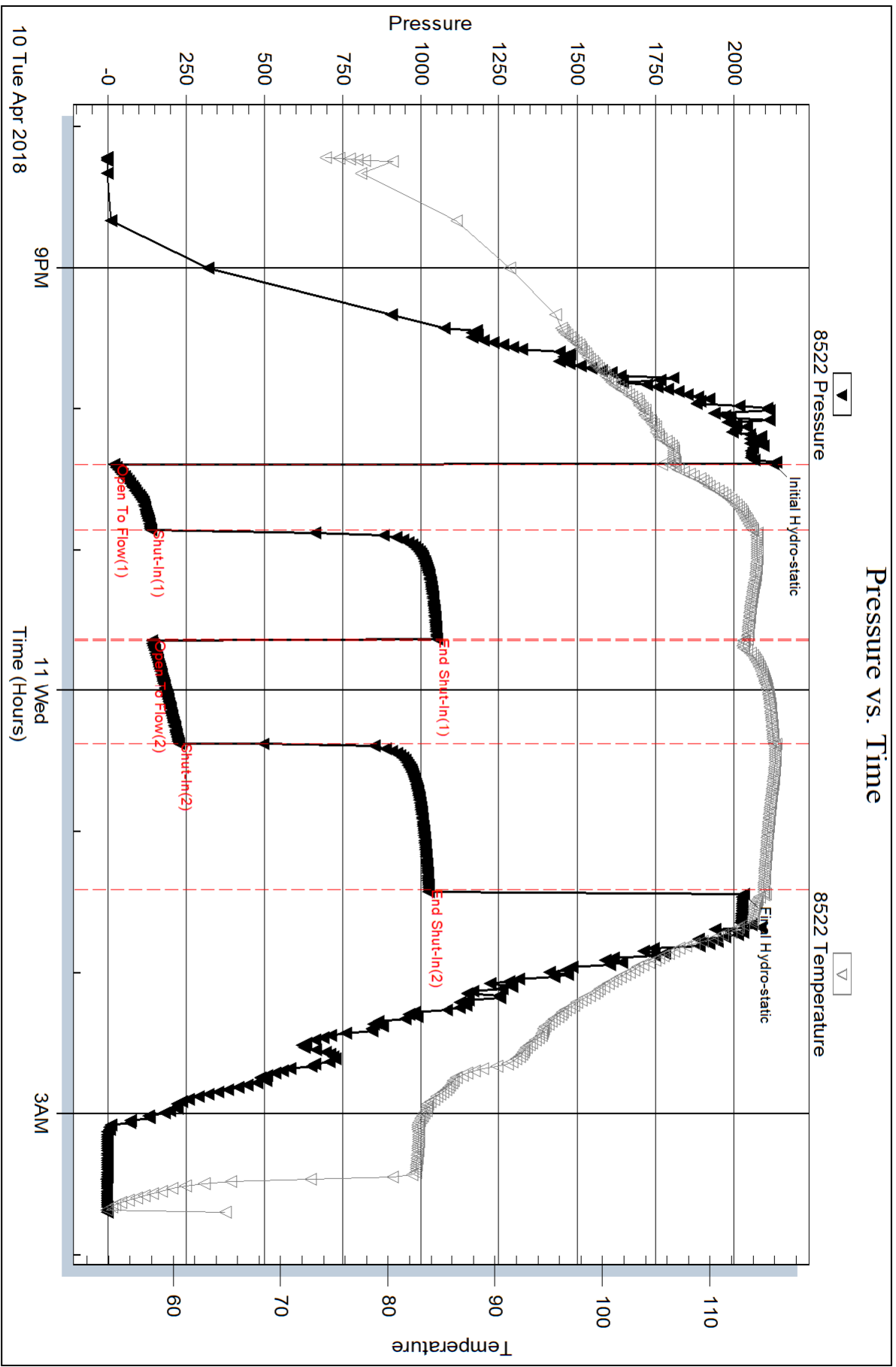
Length ft	Description	Volume bbl
470.00	mcw 90m 10w (oil spots-Top)	4.653

Total Length: 470.00 ft Total Volume: 4.653 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .204 @ 53.5F = 47,000ppm

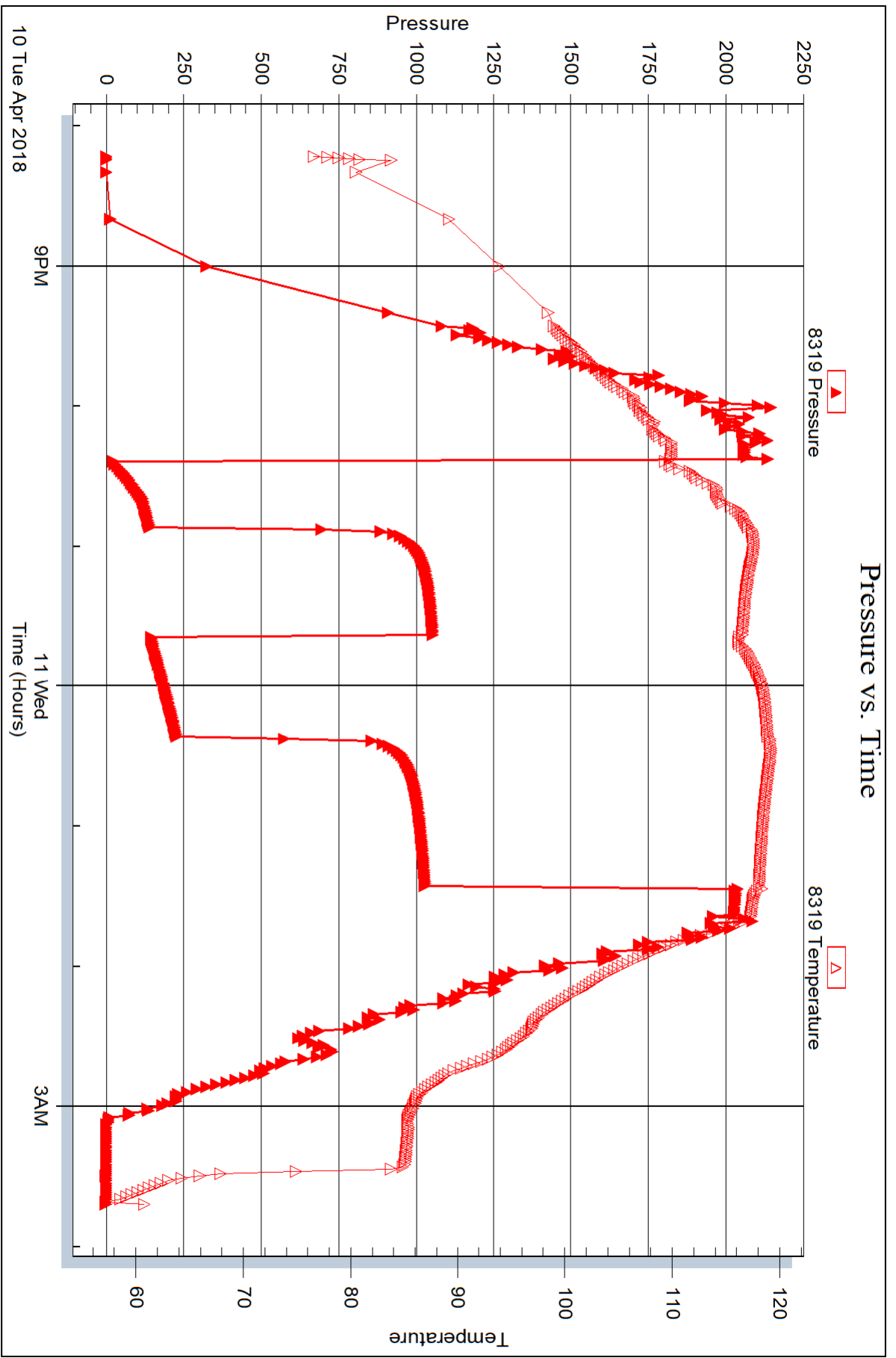


Serial #: 8319

Outside Lario Oil & Gas Co

Lang A #1-12

DST Test Number: 1





DRILL STEM TEST REPORT

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

301 S Market St
Wichita, KS 67202

ATTN: Tim Lauer

Lang A #1-12

12-20s-35w Wichita,KS

Start Date: 2018.04.12 @ 05:35:00

End Date: 2018.04.12 @ 13:28:45

Job Ticket #: 63653 DST #: 2

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

Printed: 2018.04.16 @ 11:52:26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

12-20s-35w Wichita, KS

Lang A #1-12

Job Ticket: 63653

DST#: 2

Test Start: 2018.04.12 @ 05:35:00

GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:44:45

Time Test Ended: 13:28:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4506.00 ft (KB) To 4548.00 ft (KB) (TVD)

Reference Elevations: 3138.00 ft (KB)

Total Depth: 4548.00 ft (KB) (TVD)

3127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8522

Inside

Press@RunDepth: 20.97 psig @ 4507.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.04.12

End Date:

2018.04.12

Last Calib.: 2018.04.12

Start Time: 05:35:05

End Time:

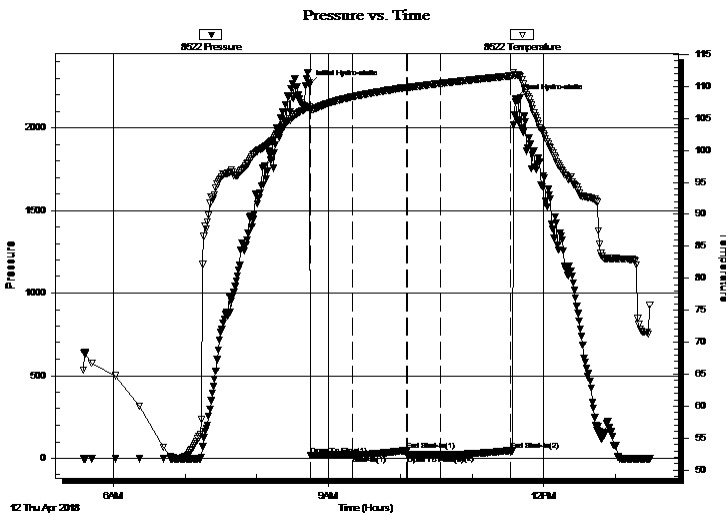
13:28:44

Time On Btm: 2018.04.12 @ 08:44:15

Time Off Btm: 2018.04.12 @ 11:36:15

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.67	106.79	Initial Hydro-static
1	19.46	106.18	Open To Flow (1)
36	20.09	108.38	Shut-In(1)
82	49.09	109.86	End Shut-In(1)
82	18.59	109.82	Open To Flow (2)
110	20.97	110.48	Shut-In(2)
169	47.70	111.65	End Shut-In(2)
172	2174.31	111.82	Final Hydro-static

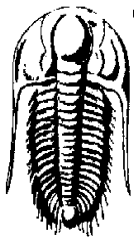
Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100m	0.01

* 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

12-20s-35w Wichita, KS

301 S Market St
Wichita, KS 67202

Lang A #1-12

Job Ticket: 63653

DST#: 2

ATTN: Tim Lauer

Test Start: 2018.04.12 @ 05:35:00

GENERAL INFORMATION:

Formation: **Marmaton A- B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:44:45

Time Test Ended: 13:28:45

Interval: 4506.00 ft (KB) To 4548.00 ft (KB) (TVD)

Total Depth: 4548.00 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: 3138.00 ft (KB)

3127.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8319 Outside

Press@RunDepth: psig @ 4507.00 ft (KB)

Start Date: 2018.04.12

End Date:

2018.04.12

Start Time: 05:35:05

End Time:

13:28:59

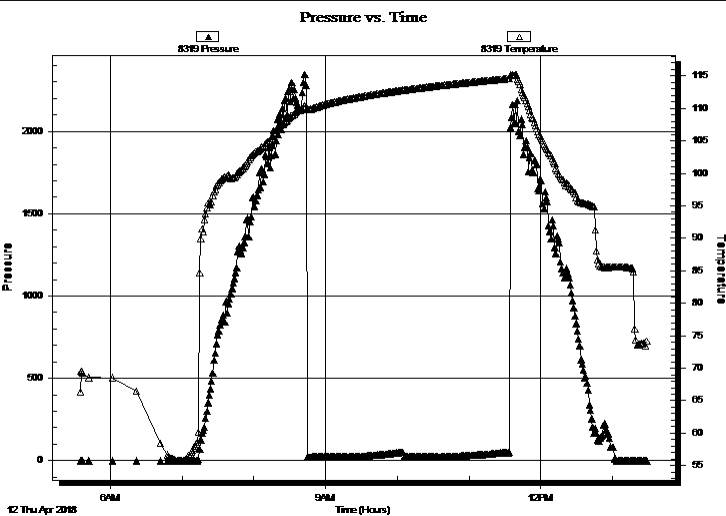
Capacity: 8000.00 psig

Last Calib.: 2018.04.12

Time On Btm:

Time Off Btm:

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



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100m	0.01

* 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

12-20s-35w Wichita, KS

301 S Market St
Wichita, KS 67202

Lang A #1-12

Job Ticket: 63653

DST#: 2

ATTN: Tim Lauer

Test Start: 2018.04.12 @ 05:35:00

Tool Information

Drill Pipe:	Length: 4300.00 ft	Diameter: 3.80 inches	Volume: 60.32 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: 213.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4506.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4480.00	
Shut In Tool	5.00			4485.00	
Hydraulic tool	5.00			4490.00	
Jars	5.00			4495.00	
Safety Joint	2.00			4497.00	
Packer	5.00			4502.00	27.00 Bottom Of Top Packer
Packer	4.00			4506.00	
Stubb	1.00			4507.00	
Recorder	0.00	8522	Inside	4507.00	
Recorder	0.00	8319	Outside	4507.00	
Perforations	5.00			4512.00	
Change Over Sub	1.00			4513.00	
Drill Pipe	31.00			4544.00	
Change Over Sub	1.00			4545.00	
Bullnose	3.00			4548.00	42.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

12-20s-35w Wichita, KS

Lang A #1-12

Job Ticket: 63653

DST#: 2

Test Start: 2018.04.12 @ 05:35:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 3400.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

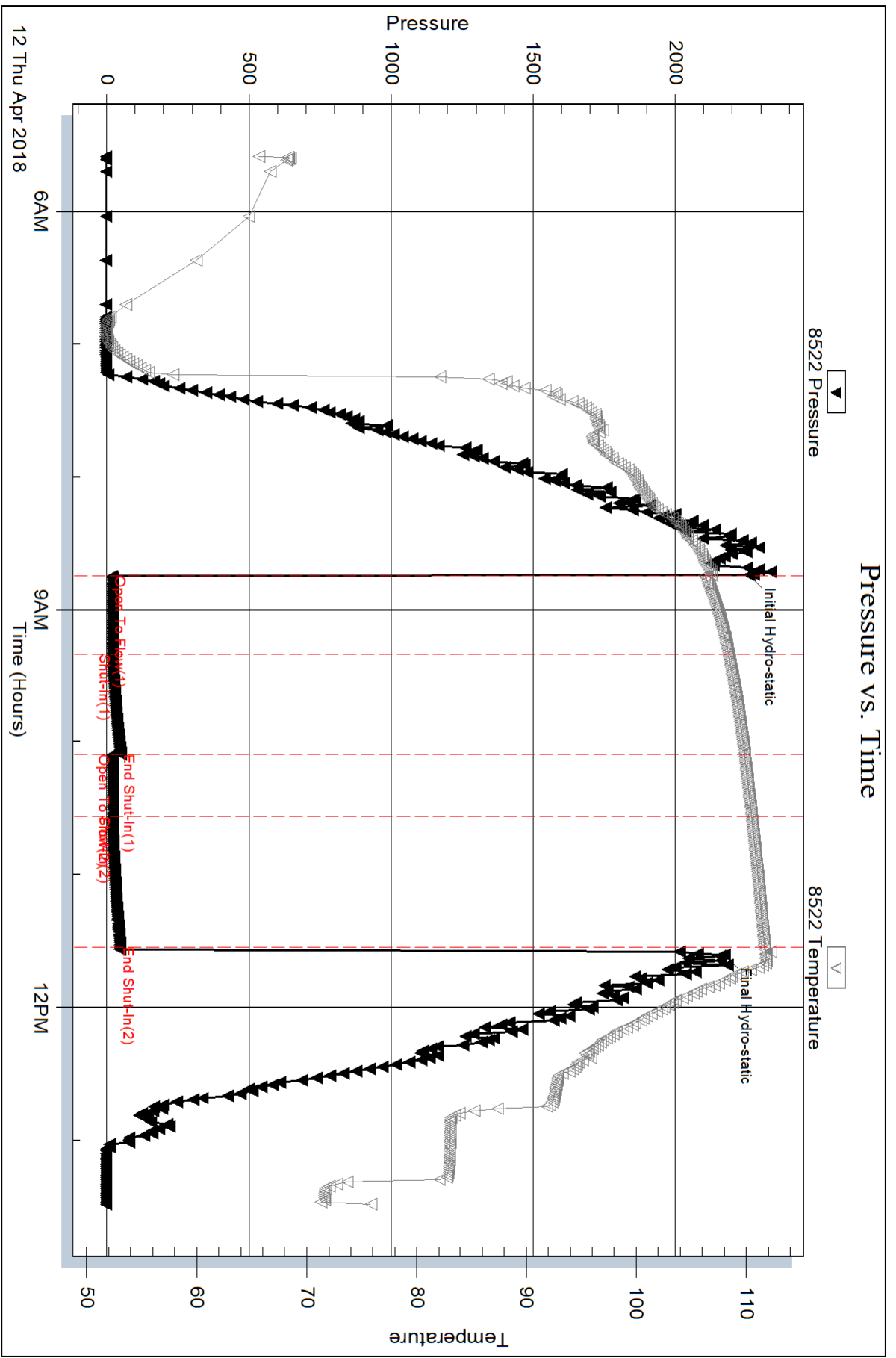
Serial #: 8522

Inside

Lario Oil & Gas Co

Lang A #1-12

DST Test Number: 2

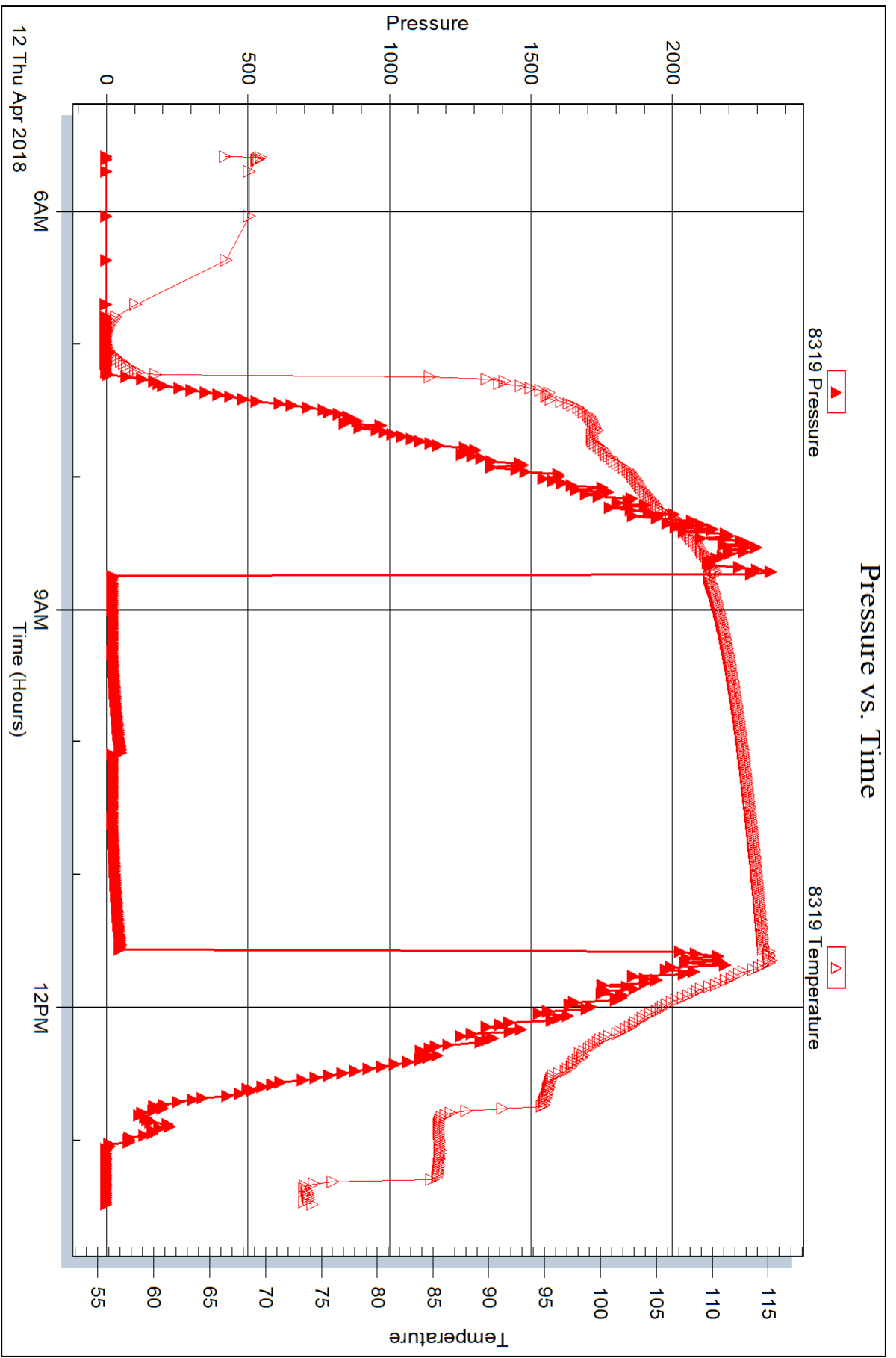


Serial #: 8319

Outside Lario Oil & Gas Co

Lang A #1-12

DST Test Number: 2





DRILL STEM TEST REPORT

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

301 S Market St
Wichita, KS 67202

ATTN: Tim Lauer

Lang A #1-12

12-20s-35w Wichita,KS

Start Date: 2018.04.13 @ 03:36:00

End Date: 2018.04.13 @ 11:21:30

Job Ticket #: 63654 DST #: 3

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

Printed: 2018.04.16 @ 11:51:58



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

12-20s-35w Wichita, KS

Lang A #1-12

Job Ticket: 63654

DST#: 3

Test Start: 2018.04.13 @ 03:36:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:12:45
 Time Test Ended: 11:21:30
 Interval: **4575.00 ft (KB) To 4610.00 ft (KB) (TVD)**
 Total Depth: 4610.00 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: 3138.00 ft (KB)
 3127.00 ft (CF)
 KB to GR/CF: 11.00 ft

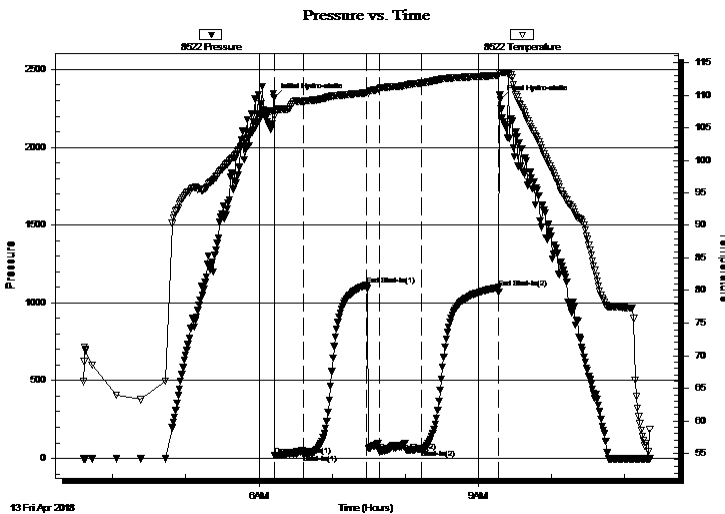
Serial #: 8522

Inside

Press@RunDepth: 58.91 psig @ 4576.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.13 End Date: 2018.04.13 Last Calib.: 2018.04.13
 Start Time: 03:36:05 End Time: 11:21:29 Time On Btm: 2018.04.13 @ 06:12:30
 Time Off Btm: 2018.04.13 @ 09:18:00

TEST COMMENT: IF: 2 1/2" blow .
 IS: No return.
 FF: 6" blow .
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2319.73	107.65	Initial Hydro-static
1	17.77	106.74	Open To Flow (1)
25	26.41	109.00	Shut-In(1)
76	1115.19	110.36	End Shut-In(1)
87	45.12	110.96	Open To Flow (2)
122	58.91	111.85	Shut-In(2)
184	1097.78	113.01	End Shut-In(2)
186	2308.29	113.46	Final Hydro-static

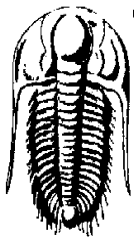
Recovery

Length (ft)	Description	Volume (bbl)
60.00	gw mco 10g 10w 30m 50o	0.30
30.00	gocm 10g 20o 70m	0.15
0.00	150' GIP	0.00

* 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 Lauer

12-20s-35w Wichita, KS

Lang A #1-12

Job Ticket: 63654

DST#: 3

Test Start: 2018.04.13 @ 03:36:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:12:45
Time Test Ended: 11:21:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: **4575.00 ft (KB) To 4610.00 ft (KB) (TVD)**
Total Depth: 4610.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Good

Reference Elevations: 3138.00 ft (KB)
3127.00 ft (CF)
KB to GR/CF: 11.00 ft

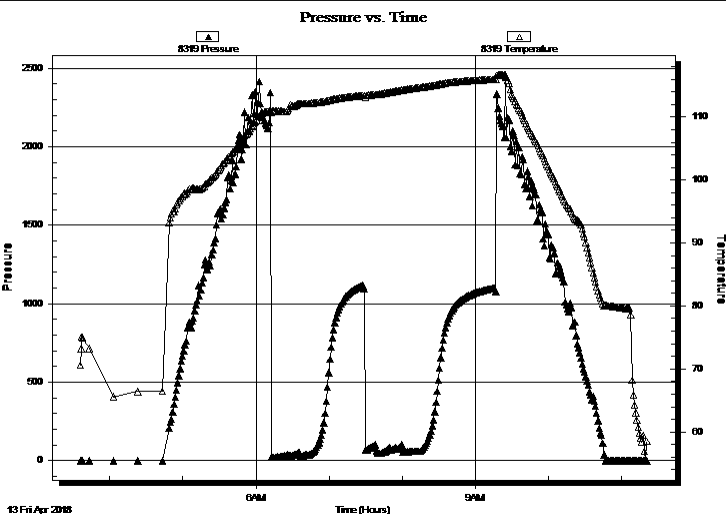
Serial #: 8319

Outside

Press@RunDepth: psig @ 4576.00 ft (KB)
Start Date: 2018.04.13 End Date: 2018.04.13
Start Time: 03:36:05 End Time: 11:21:29

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 2 1/2" blow.
IS: No return.
FF: 6" blow.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gw mco 10g 10w 30m 50o	0.30
30.00	gocm 10g 20o 70m	0.15
0.00	150' GIP	0.00

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
301 S Market St
Wichita, KS 67202
ATTN: Tim Lauer

12-20s-35w Wichita, KS
Lang A #1-12
Job Ticket: 63654 **DST#: 3**
Test Start: 2018.04.13 @ 03:36:00

Tool Information

Drill Pipe:	Length: 4363.00 ft	Diameter: 3.80 inches	Volume: 61.20 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: 213.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4575.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

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	31.00			4607.00	
Bullnose	3.00			4610.00	35.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

12-20s-35w Wichita, KS
Lang A #1-12
Job Ticket: 63654
Test Start: 2018.04.13 @ 03:36:00

DST#: 3

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: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

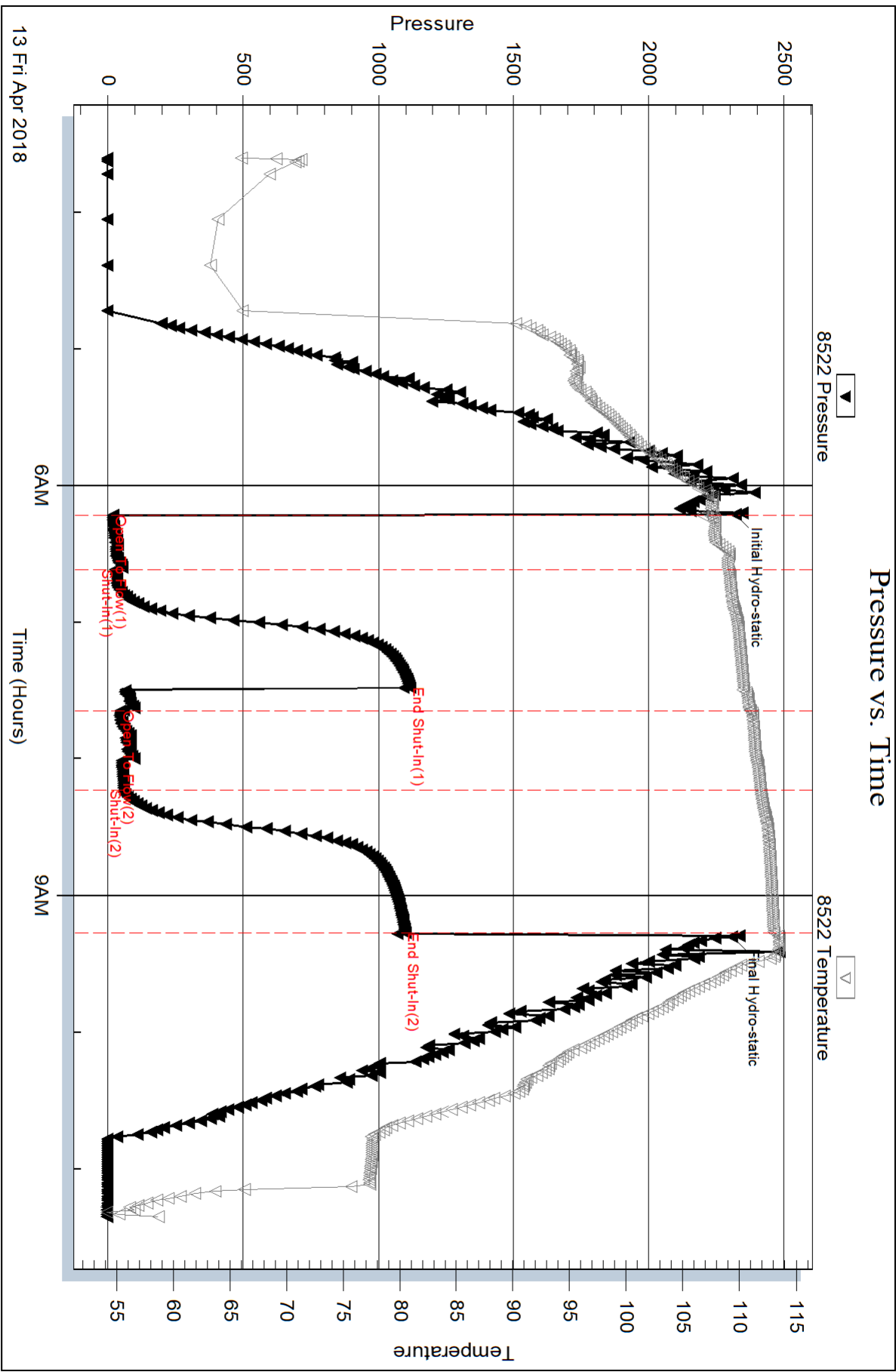
Length ft	Description	Volume bbl
60.00	gw mco 10g 10w 30m 50o	0.295
30.00	gocm 10g 20o 70m	0.148
0.00	150' GIP	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

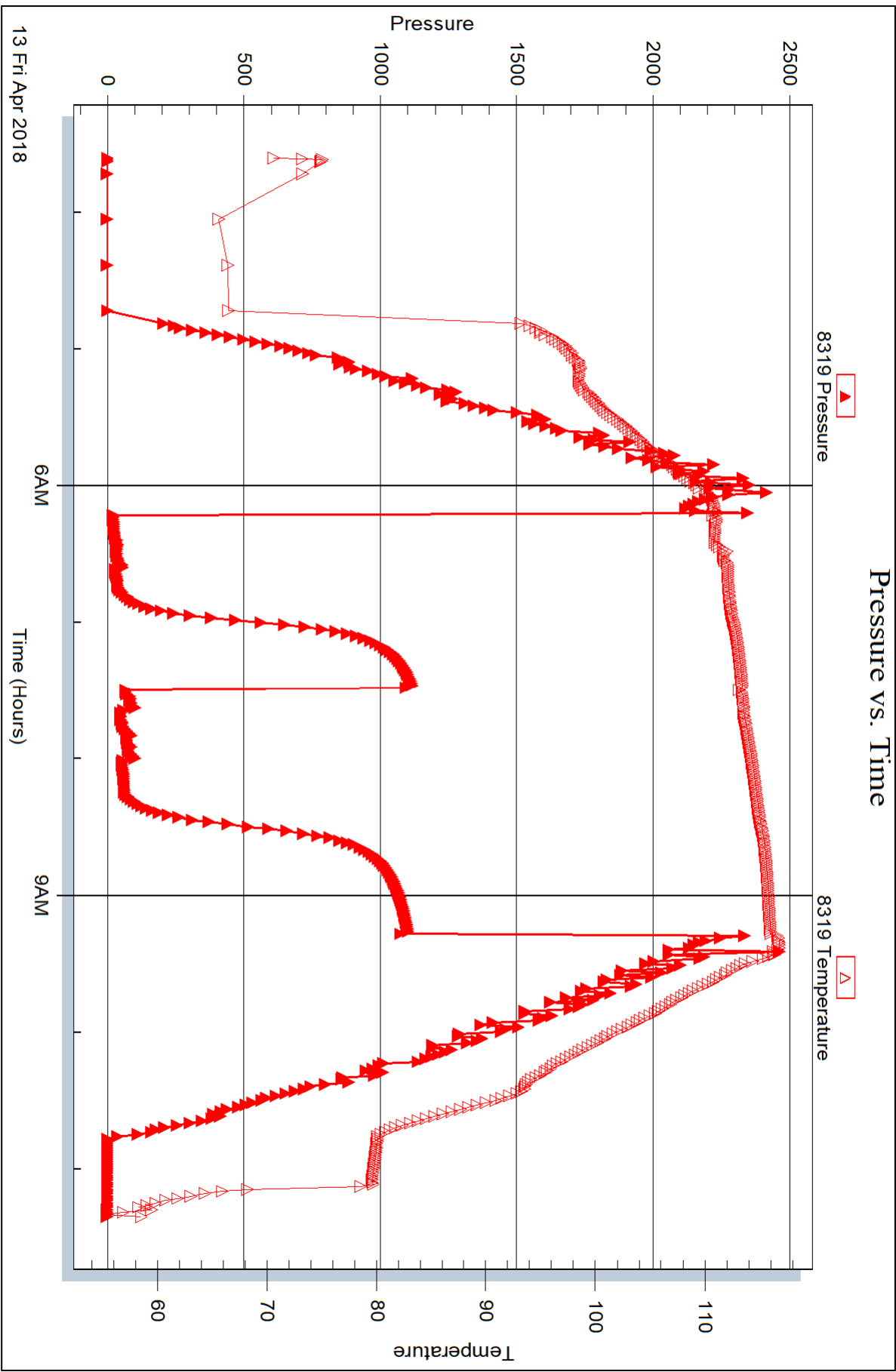


Serial #: 8319

Outside Lario Oil & Gas Co

Lang A #1-12

DST Test Number: 3





DRILL STEM TEST REPORT

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

301 S Market St
Wichita, KS 67202

ATTN: Tim Lauer

Lang A #1-12

12-20s-35w Wichita,KS

Start Date: 2018.04.13 @ 18:23:00

End Date: 2018.04.14 @ 04:00:15

Job Ticket #: 63655 DST #: 4

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

Printed: 2018.04.16 @ 11:51:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

12-20s-35w Wichita, KS

Lang A #1-12

Job Ticket: 63655

DST#: 4

Test Start: 2018.04.13 @ 18:23:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:30:30

Time Test Ended: 04:00:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4608.00 ft (KB) To 4735.00 ft (KB) (TVD)

Reference Elevations: 3138.00 ft (KB)

Total Depth: 4608.00 ft (KB) (TVD)

3127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8522 Inside

Press@RunDepth: 674.77 psig @ 4609.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.04.13

End Date:

2018.04.14

Last Calib.: 2018.04.14

Start Time: 18:23:05

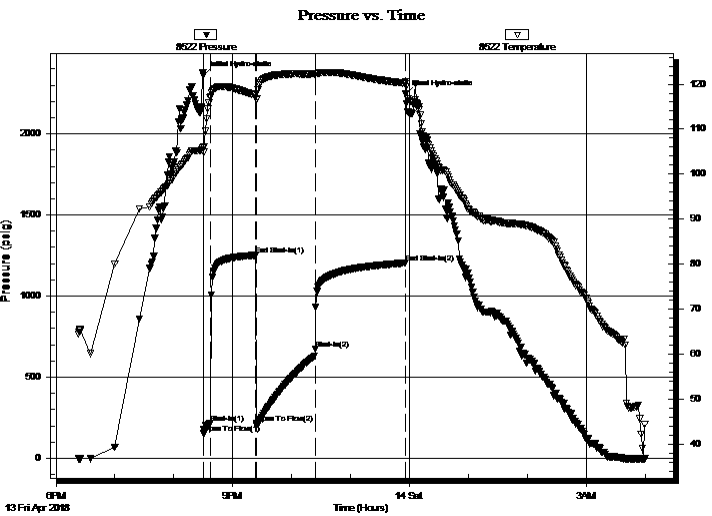
End Time:

04:00:15

Time On Btm: 2018.04.13 @ 20:30:00

Time Off Btm: 2018.04.13 @ 23:56:00

TEST COMMENT: IF: BOB @ 75 sec.
 IS: BOB @ 13 min.
 FF: BOB @ 45 sec.
 FS: BOB @ 15 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2360.18	105.88	Initial Hydro-static
1	151.66	104.88	Open To Flow (1)
8	217.81	117.22	Shut-In(1)
53	1251.43	117.53	End Shut-In(1)
54	216.48	116.49	Open To Flow (2)
115	674.77	122.25	Shut-In(2)
206	1202.26	120.18	End Shut-In(2)
206	2243.73	120.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	gmco 35g 15m 50o	1.43
1730.00	go 45g 55o	24.27
0.00	2060 GIP	0.00

* 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 Lauer

12-20s-35w Wichita, KS

Lang A #1-12

Job Ticket: 63655

DST#: 4

Test Start: 2018.04.13 @ 18:23:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:30:30

Time Test Ended: 04:00:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4608.00 ft (KB) To 4735.00 ft (KB) (TVD)

Reference Elevations: 3138.00 ft (KB)

Total Depth: 4608.00 ft (KB) (TVD)

3127.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8319 Outside

Press@RunDepth: psig @ 4609.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.04.13

End Date:

2018.04.14

Last Calib.:

2018.04.14

Start Time: 18:23:05

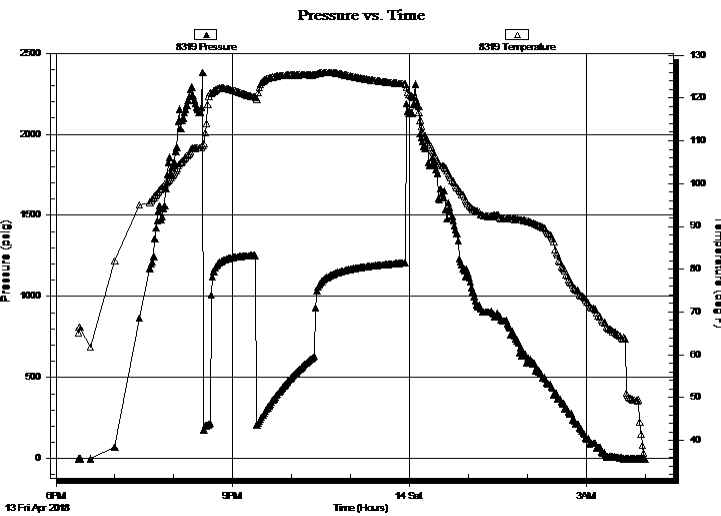
End Time:

04:00:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 75 sec.
 IS: BOB @ 13 min.
 FF: BOB @ 45 sec.
 FS: BOB @ 15 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
240.00	gmco 35g 15m 50o	1.43
1730.00	go 45g 55o	24.27
0.00	2060 GIP	0.00

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
301 S Market St
Wichita, KS 67202
ATTN: Tim Lauer

12-20s-35w Wichita, KS
Lang A #1-12
Job Ticket: 63655
Test Start: 2018.04.13 @ 18:23:00

DST#: 4

Tool Information

Drill Pipe:	Length: 4396.00 ft	Diameter: 3.80 inches	Volume: 61.66 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: 213.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4608.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.65 inches		

Tool Comments:

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

Change Over Sub	1.00			4582.00	
Shut In Tool	5.00			4587.00	
Hydraulic tool	5.00			4592.00	
Jars	5.00			4597.00	
Safety Joint	2.00			4599.00	
Packer	5.00			4604.00	27.00 Bottom Of Top Packer
Packer	4.00			4608.00	
Stubb	1.00			4609.00	
Recorder	0.00	8522	Inside	4609.00	
Recorder	0.00	8319	Outside	4609.00	
Perforations	23.00			4632.00	
Bullnose	3.00			4635.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

12-20s-35w Wichita, KS
Lang A #1-12
Job Ticket: 63655 **DST#: 4**
Test Start: 2018.04.13 @ 18:23:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 35 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5800.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	gmco 35g 15m 50o	1.426
1730.00	go 45g 55o	24.267
0.00	2060 GIP	0.000

Total Length: 1970.00 ft Total Volume: 25.693 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

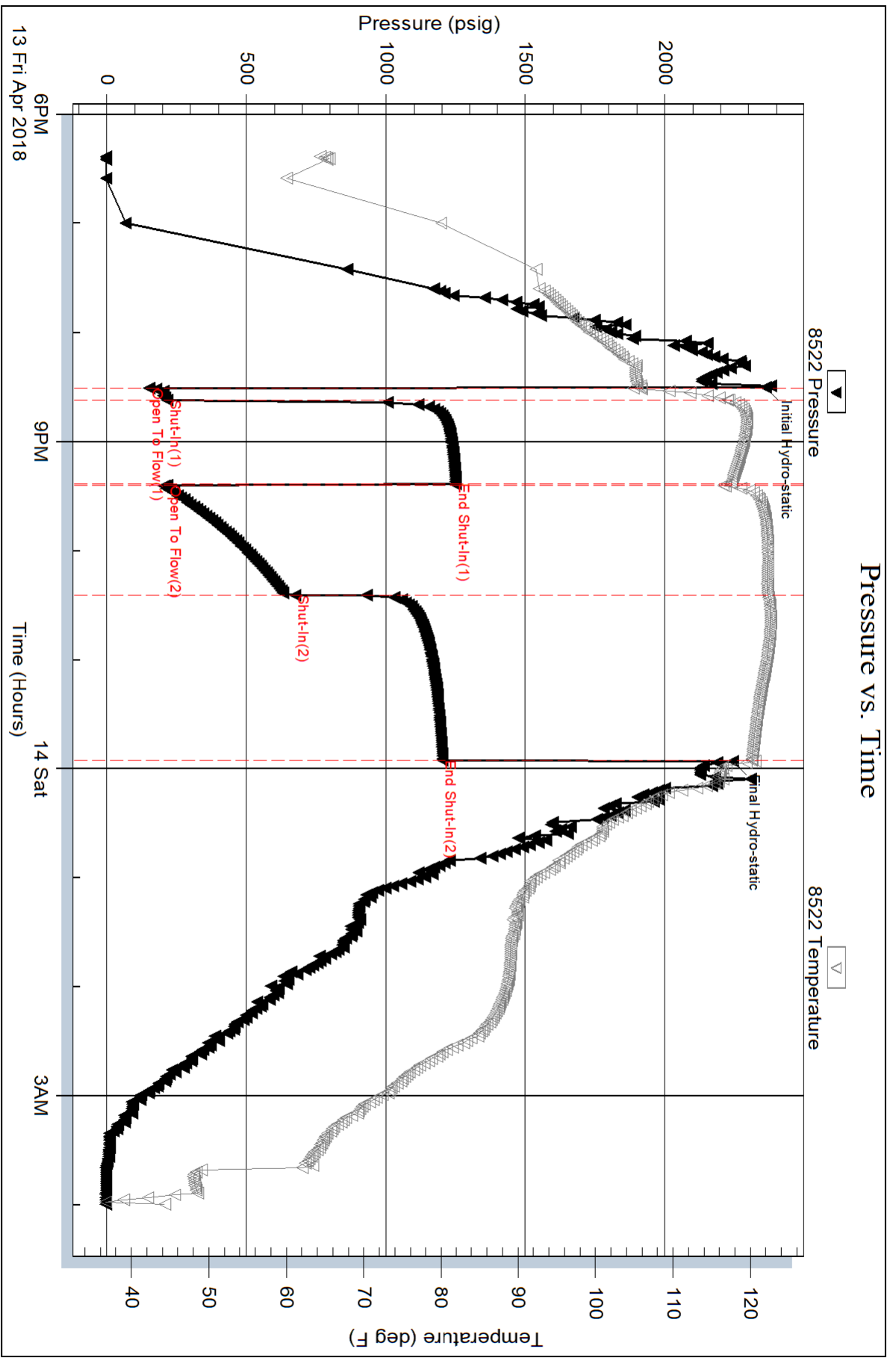
Serial #: 8522

Inside

Lario Oil & Gas Co

Lang A #1-12

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 63655

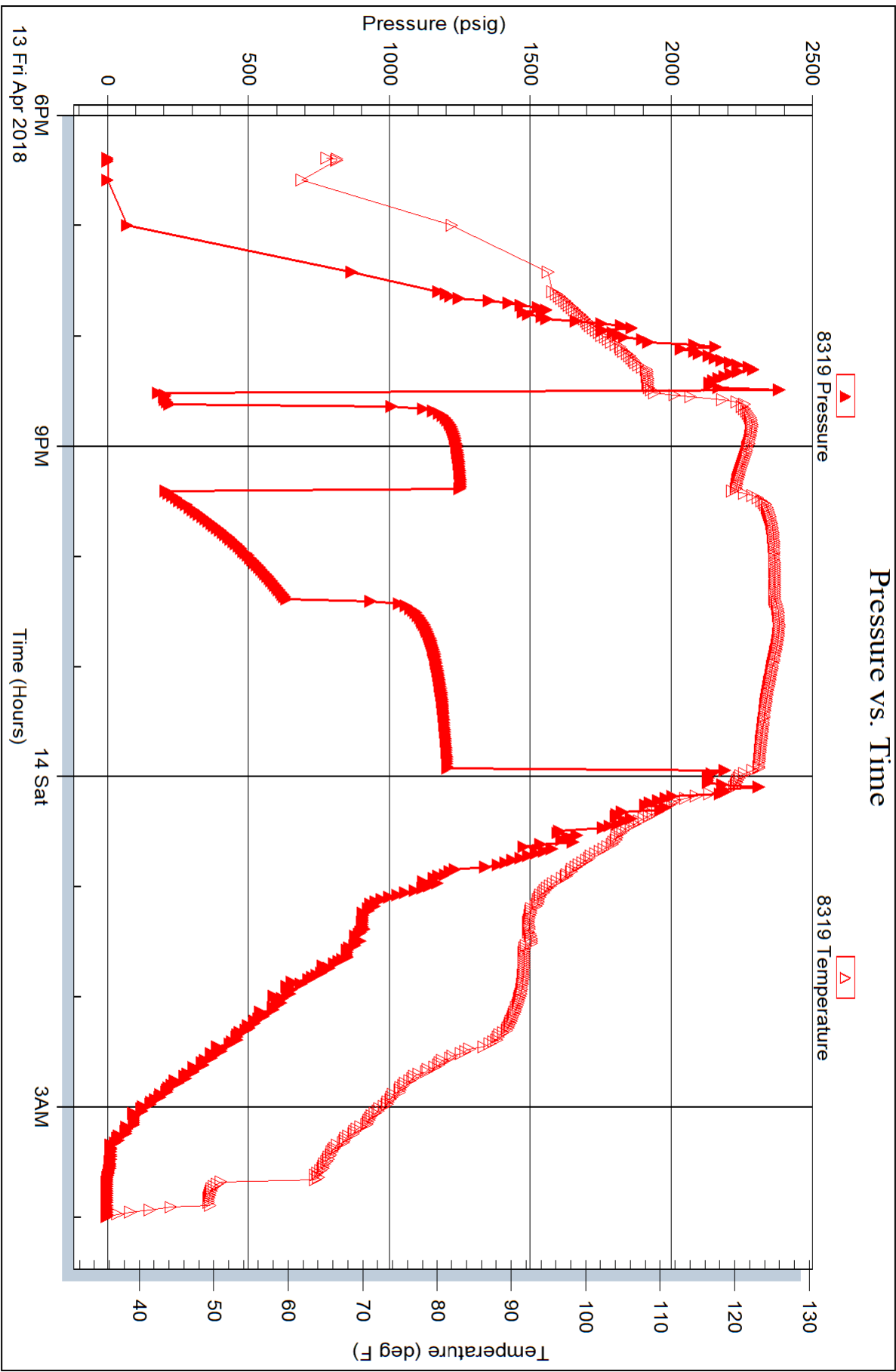
Printed: 2018.04.16 @ 11:51:33

Serial #: 8319

Outside Lario Oil & Gas Co

Lang A #1-12

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63652

Well Name & No. Larg A #1-12 Test No. 1 Date 4/11/2018
 Company Larg Oil & Gas Co Elevation 3138 KB 3127 GL
 Address 301 S Market St Wichita, Ks 67202
 Co. Rep / Geo. Tim Laver Rig Moran 21
 Location: Sec. 12 Twp 20s Rge. 35 W Co. Wichita State Ks

Interval Tested 4258-4280 Zone Tested Ltc I
 Anchor Length 22 Drill Pipe Run 4048 Mud Wt. 9.5
 Top Packer Depth 4253 Drill Collars Run 213 Vis 54
 Bottom Packer Depth 4258 Wt. Pipe Run Ø WL 7.2
 Total Depth 4280 Chlorides 3400 ppm System LCM 3#

Blow Description IF BOB @ 20 min.
ISI No return.
PF BOB @ 24 min.
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>470'</u>	<u>mcw</u>		<u>90</u>	<u>10</u>	
	<u>oil spots on top</u>				

Rec Total 470 BHT 115 Gravity — API RW 204 @ 535° F Chlorides 47000 ppm

(A) Initial Hydrostatic <u>2126</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1900</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2013</u>
(C) First Final Flow <u>137</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22 24</u>
(D) Initial Shut-In <u>1049</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>01 24</u>
(E) Second Initial Flow <u>141</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0342</u>
(F) Second Final Flow <u>226</u>	<input checked="" type="checkbox"/> Mileage <u>53 rt 53</u>	Comments
(G) Final Shut-In <u>1024</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2033</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>1528</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1528</u>	

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63653**

Well Name & No. Lang A # 1-12 Test No. 2 Date 4/12/2018
 Company Laro Oil & Gas Co Elevation 3138 KB 3127 GL
 Address 301 S Market St Wichita, KS 67202
 Co. Rep / Geo. Tim Lauer Rig Martin 21
 Location: Sec. 12 Twp 20s Rge. 35w Co. Wichita State KS

Interval Tested 4506 - 4548 Zone Tested Marmaton A-B
 Anchor Length 42' Drill Pipe Run 4300 Mud Wt. 9.2
 Top Packer Depth 4501 Drill Collars Run 213 Vls 58
 Bottom Packer Depth 4506 Wt. Pipe Run 0 WL 7.2
 Total Depth 4548 Chlorides 3400 ppm System LCM 2#

Blow Description IF 1/4" blow
ISI No return
FF No blow
FSI No return

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

Rec Total 3 BHT 111 Gravity — API RW — @ — ° F Chlorides — ppm
 (A) Initial Hydrostatic 2259 Test 1150 T-On Location 0515
 (B) First Initial Flow 19 Jars 250 T-Started 0535
 (C) First Final Flow 20 Safety Joint 75 T-Open 0946
 (D) Initial Shut-In 49 Circ Sub X/c T-Pulled 1135
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 1329
 (F) Second Final Flow 21 48 Mileage 53 RT 53 Comments _____
 (G) Final Shut-In 48 Sampler _____
 (H) Final Hydrostatic 2174 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1528
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1528

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63654**

Well Name & No. Lang A #1-12 Test No. 3 Date 4/13/2018
 Company Lario Oil & Gas Co Elevation 3138 KB 3127 GL
 Address 301 S Market St Wichita, Ks 67202
 Co. Rep / Geo. Tim Laver Rig MudIn 21
 Location: Sec. 12 Twp 20 S Rge. 35 W Co. Wichita State Ks

Interval Tested 4575 - 4610 Zone Tested Pawnee
 Anchor Length 35 Drill Pipe Run 3663 Mud Wt. 9.3
 Top Packer Depth 4570 Drill Collars Run 213 Vis 55
 Bottom Packer Depth 4575 Wt. Pipe Run Ø WL 7.2
 Total Depth 4610 Chlorides 4800 ppm System LCM 4 #

Blow Description IF 2 1/2" blow
ISI No return.
FP 6" blow
FSI No return.

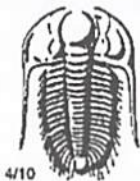
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>60cm</u>	<u>10</u>	<u>20</u>	<u>70</u>	<u></u>
<u>60</u>	<u>6 W/MCO</u>	<u>10</u>	<u>50</u>	<u>10</u>	<u>30</u>
	<u>150' GTP</u>				

Rec Total 90 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2320</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0515</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0356</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0607</u>
(D) Initial Shut-In <u>1115</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0907</u>
(E) Second Initial Flow <u>45</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>1122</u>
(F) Second Final Flow <u>59</u>	<input checked="" type="checkbox"/> Mileage <u>53 RT</u> <u>53</u>	Comments <u>—</u>
(G) Final Shut-In <u>1098</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>2308</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1528</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1528</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63655

Well Name & No. Lang A #1-12 Test No. 4 Date 4/14/2018
 Company Lario Oil & Gas Co Elevation 3138 KB 3127 GL
 Address 301 S Market St Wichita, ks 67202
 Co. Rep / Geo. Tun Lauer Rig Mo An 21
 Location: Sec. 12 Twp 20s Rge. 35w Co. Wichita State Ks

Interval Tested 4608-4635 Zone Tested FT Soott
 Anchor Length 27' Drill Pipe Run 4396 Mud Wt. 9.3
 Top Packer Depth 4603 Drill Collars Run 213 Vis 57
 Bottom Packer Depth 4608 Wt. Pipe Run 0 WL 8.8
 Total Depth 4635 Chlorides 5600 ppm System LCM 3#

Blow Description IF! BOB @ 75 sec
ISI! BOB @ 13 min.
FF! BOB @ 45 sec.
FSL! BOB @ 15 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1730</u>	<u>60</u>	<u>45</u>	<u>55</u>		
<u>240</u>	<u>6 mco</u>	<u>35</u>	<u>50</u>	<u>15</u>	
	<u>2060 GTP</u>				

Rec Total 1970 BHT 120 Gravity 35 API RW — @ — °F Chlorides — ppm

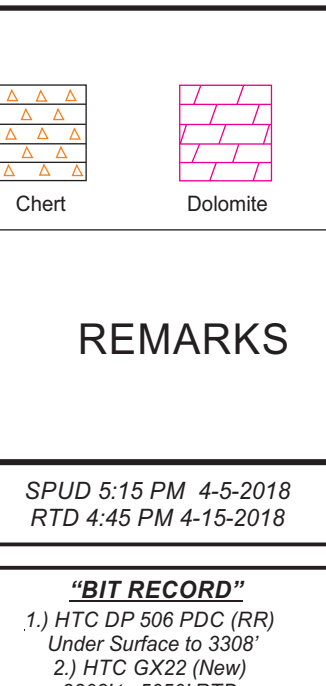
(A) Initial Hydrostatic <u>2360</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1800</u>
(B) First Initial Flow <u>152</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1823</u>
(C) First Final Flow <u>218</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2031</u>
(D) Initial Shut-In <u>1251</u>	<input checked="" type="checkbox"/> Circ Sub <u>50</u>	T-Pulled <u>2353</u>
(E) Second Initial Flow <u>216</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0400</u>
(F) Second Final Flow <u>675</u>	<input checked="" type="checkbox"/> Mileage <u>53 RT x 2</u> 53+53	Comments <u>P/U Tool</u>
(G) Final Shut-In <u>1702</u>	<input type="checkbox"/> Sampler	<u>@ 1400 4/15</u>
(H) Final Hydrostatic <u>2244</u>	<input type="checkbox"/> Straddle	

Initial Open <u>7</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
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>1631</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1631</u>	

Approved By _____ Our Representative [Signature]

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COMPANY Lario Oil and Gas Company		ELEVATIONS
LEASE #11-2 Lang 'A'		KB 3138'
FIELD		GL 3127'
LOCATION 660° FSL, 4620° FEL		
SEC 12	TWSP 20s	RGE 35w
COUNTY Wichita		STATE Kansas
CONTRACTOR Murfin Drilling Rig #21		Measurements Are All From Kelly Bushing
SPUD 4-5-2018		COMP 4-16-2018
RTD 5050'		LTD 5051'
MUD UP 3400'		TYPE MUD Chemical
SAMPLES SAVED FROM 3500' TO RTD		CONDUCTOR
DRILLING TIME KEPT FROM 3500' TO RTD		SURFACE 8-58' @ 351'
SAMPLES EXAMINED FROM 3500' TO RTD		PRODUCTION 4-12' @ 5039'
GEOLOGICAL SUPERVISION FROM 3880' TO RTD		ELECTRICAL SURVEYS
GEOLOGIST ON Tim J. Lauer		ELI OH Stack, DCP, DL, ML, Sonic Engr. Gus Pfannenstiel
FORMATION TOPS	ELECTRIC LOG	SAMPLE LOG
Anhydrite 2282 (-856)	2285 (-853)	
Heebner 3970 (-832)	3972 (-834)	
Lansing 4018 (-820)	4020 (-822)	
Stark 4333 (-795)	4334 (-796)	
Marmaton 4500 (-762)	4500 (-762)	
Fort Scott 4613 (-747)	4613 (-747)	
Cherokee Shale 4632 (-748)	4632 (-748)	
Mississippian 4926 (-718)	4925 (-718)	
Total Depth 5051 (-712)	5050 (-712)	



REMARKS
 Due to drill stem test results, and log evaluation, operator elected to run 4.5" production casing to further test the location.
 Respectfully submitted,
 Tim J. Lauer
 4/17/2018
 38.23227
 -101.14241

ANTHYDRITE	SANDSTONE	LIMESTONE	CHELT	DOLOMITE
-------------------	------------------	------------------	--------------	-----------------

DEPTH (ft)	SAMPLE DESCRIPTION	REMARKS
3500	Wet Samples start at 3500'	SPUD 5:15 PM 4-5-2018 RTD 4:45 PM 4-15-2018
3500	Sh; most md-dk gry, blk, scat red-bm	"BIT RECORD" 1) HTC DP 506 DCP (RR) Under Surface to 3308' 2) HTC G22 (New) 3308 to 5050 RTD
3500	Sh; most md-dk gry, blk, scat red-bm	"VERTICAL SURVEYS" 0.4" @ 352' 0.3" @ 1379' 0.2" @ 2263' 1.0" @ 3300' 3.1" @ 4548' 1.4" @ 4690' 2.9" @ 5050'
3500	Sh; most md-dk gry, blk, scat red-bm	4-5-2018 - MIRT FUJRT Spud 5:15 PM 4-5-2018
3500	Sh; most md-dk gry, blk, scat red-bm	4-6-2018 - 7:00 AM PTD @ 4510' Running DST(3)
3500	Sh; most md-dk gry, blk, scat red-bm	4-7-2018 - 7:00 AM Drig @ 1650'
3500	Sh; most md-dk gry, blk, scat red-bm	4-8-2018 - 7:00 AM Drig @ 2959'
3500	Sh; most md-dk gry, blk, scat red-bm	4-9-2018 - 7:00 AM Drig @ 3688'
3500	Sh; most md-dk gry, blk, scat red-bm	4-10-2018 - 7:00 AM Drig @ 4168'
3500	Sh; most md-dk gry, blk, scat red-bm	4-11-2018 - 7:00 AM Drig @ 4290'
3500	Sh; most md-dk gry, blk, scat red-bm	4-12-2018 - 7:00 AM PTD @ 4510' Running DST(3)
3500	Sh; most md-dk gry, blk, scat red-bm	4-14-2018 - 7:00 AM PTD @ 4510' GIH with bit after DST(1)
3500	Sh; most md-dk gry, blk, scat red-bm	4-15-2018 - 7:00 AM Drig @ 4944'
3500	Sh; most md-dk gry, blk, scat red-bm	4-16-2018 - 7:00 AM RTD @ 5050' Ran ELI OH Ellogs Prepare to Run Prod csg.
3500	Sh; most md-dk gry, blk, scat red-bm	4-17-2018 - 7:00 AM RTD @ 5050' Set 4 1/2" csg. @ 5039' w/232 xx. DV Tool seal @ 2310 w/325 xx Plug down 8:05 pm 4-16-2018.
3500	Sh; most md-dk gry, blk, scat red-bm	Trap OOH 3308 to rotate out PDC bit for Standard Rotary bit
3500	Sh; most md-dk gry, blk, scat red-bm	Call Point 3500' 12:25 AM 4-9-2018
3500	Sh; most md-dk gry, blk, scat red-bm	Mud Check at 3760' (After 50' clean and mud-up 3400') vis: 50 w/ 9.2 Chlor: 2.800 LCM: 2# Ph: 12.0 WL: 6.4
3500	Sh; most md-dk gry, blk, scat red-bm	Geologist on location 3880' 2:50 PM 4-9-2018
3500	Sh; most md-dk gry, blk, scat red-bm	Rig Check at 3680' vis: 50 w/ 9.2 LCM: 2#
3500	Sh; most md-dk gry, blk, scat red-bm	Rig Check at 4065' vis: 54 w/ 9.3 LCM: 2#
3500	Sh; most md-dk gry, blk, scat red-bm	Rig Check at 4105' vis: 56 w/ 9.3 LCM: 3#
3500	Sh; most md-dk gry, blk, scat red-bm	Mud Check at 4221' vis: 55 w/ 9.2 Chlor: 3.400 LCM: 3# Ph: 11.5 WL: 7.2 25 Stand Short Trip at 4280' pulled 20-50K over stands 2 thru 9
3500	Sh; most md-dk gry, blk, scat red-bm	DST (1) 4258' - 4280' 30-45-60-30 Blow: strong, Bob in 20" on IFP, no blowback on ISIP no blowback on FSIP
3500	Sh; most md-dk gry, blk, scat red-bm	40% MCW, oil spots on top (70% gas, 0% oil, 10% mud, 90% wt) IHP: 2146 FFP: 141-226 IFP: 21-137 FSIP: 1024 ISIP: 1115 FHP: 1024 Temp: 115F Chlorides MUD: 3.400 PPM DST: NA Rw = 0.204 Ohms @ 53.5F Both Shut-in curves broken over
3500	Sh; most md-dk gry, blk, scat red-bm	Rig Check at 4290' vis: 70 w/ 9.3 LCM: 3#
3500	Sh; most md-dk gry, blk, scat red-bm	Mud Check at 4339' vis: 53 w/ 9.1 Chlor: 4.500 LCM: 4# Ph: 10.5 WL: 5.0
3500	Sh; most md-dk gry, blk, scat red-bm	DST (2) 4506' - 4548' 30-45-60-30 Blow: strong, Bob in 20" on IFP, no blowback on ISIP no blowback on FSIP
3500	Sh; most md-dk gry, blk, scat red-bm	3' Mud, NS IHP: 2250 FFP: 19-21 IFP: 19-20 FSIP: 46-48 ISIP: 44 FHP: 2174 Temp: 111F Chlorides MUD: 4.800 PPM DST: NA Rw = NA Both Shut-in curves bldg.
3500	Sh; most md-dk gry, blk, scat red-bm	Mud Check at 4548 during DST: vis: 52 w/ 9.3 Chlor: 4.600 LCM: 3# Ph: 11.0 WL: 7.2
3500	Sh; most md-dk gry, blk, scat red-bm	DST (3) 4575' - 4610' 30-45-60-30 Blow: strong, Bob in 15" on IFP, no blowback on ISIP no blowback on FSIP
3500	Sh; most md-dk gry, blk, scat red-bm	150' GIP 30' GOCM (10% gas, 20% oil, 70% mud, 0% wt) DST: NA (10% gas, 50% oil, 30% mud, 0% wt) 90' Total Fluid IHP: 2320 FFP: 45-59 IFP: 17-26 FSIP: 1098 ISIP: 1115 FHP: 2308 Temp: 113F Chlorides MUD: 5.600 PPM DST: NA Rw = NA Both Shut-in curves breaking over
3500	Sh; most md-dk gry, blk, scat red-bm	Mud Check at 4610 after DST: vis: 54 w/ 9.2 Chlor: 4.500 LCM: 3# Ph: 10.0 WL: 6.8
3500	Sh; most md-dk gry, blk, scat red-bm	DST (4) 4608' - 4635' 30-45-60-30 Blow: strong, Bob in 17 seconds on IFP, strong, Bob in 13 seconds on FSIP, strong, Bob in 45 seconds on FFP
3500	Sh; most md-dk gry, blk, scat red-bm	2,050 GIP 1,730 GsoyO (45% gas, 55% oil, 30% mud, 0% wt) 240' Gsy MCO (35% gas, 50% oil, 125% mud, 0% wt) 1,970 Total Fluid IHP: 2360 FFP: 216-675 IFP: 152-218 FSIP: 1204 ISIP: 1251 FHP: 2202 Temp: 120F Chlorides MUD: 5.600 PPM DST: NA Rw = NA Gravity = 35 API corrected Both Shut-in curves broken over
3500	Sh; most md-dk gry, blk, scat red-bm	Mud Check at 4635 during DST: vis: 65 w/ 9.3 Chlor: 6.400 LCM: 3# Ph: 9.5 WL: 8.8
3500	Sh; most md-dk gry, blk, scat red-bm	Rig Check at 4735: vis: 55 w/ 9.2 LCM: 4#
3500	Sh; most md-dk gry, blk, scat red-bm	Rig Check at 4795: vis: 53 w/ 9.3 LCM: 4#
3500	Sh; most md-dk gry, blk, scat red-bm	Rig Check at 4875: vis: 59 w/ 9.1 LCM: 5#
3500	Sh; most md-dk gry, blk, scat red-bm	Rig Check at 5015: vis: 52 w/ 9.4 LCM: 3#
3500	Sh; most md-dk gry, blk, scat red-bm	5050' RTD reached 4:45 PM 4-15-2018

COMPANY & WELL Lario Oil & Gas Co. #11-2 Lang 'A'		ELEVATIONS
LOCATION 660° FSL, 4620° FEL		KB 3138'
SEC 12		TWSP 20s
COUNTY Wichita		STATE Kansas
RGE 35w		GL 3127'

