

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 Recompletion Date \_\_\_\_\_ 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 2-12
Doc ID	1431098

All Electric Logs Run

Dual Induction
Microlog
GR-CNL-CDL
Sonic
PE

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	LANG 2-12
Doc ID	1431098

Tops

Name	Top	Datum
Heebner	3982	-841
Lansing	4032	-891
Stark Shale	4346	-1205
Hushpuckney	4399	-1258
Base KC	4484	-1342
Marmaton	4516	-1375
Pawnee	4606	-1465
Ft. Scott	4627	-1486
Johnson	4737	-1596
Morrow	4838	-1697
Mississippian	4932	-1791





## DRILL STEM TEST REPORT

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

301 S Market St.  
Wichita, KS 67202

ATTN: Tm J Lauer

### **Lang #2-12**

#### **12-20s-35w Wichita, KS**

Start Date: 2018.11.05 @ 08:07:00

End Date: 2018.11.05 @ 16:54:00

Job Ticket #: 64349                      DST #: 1

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

Printed: 2018.11.09 @ 14:14:42



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**12-20s-35w Wichita, KS**  
**Lang #2-12**  
Job Ticket: 64349      **DST#: 1**  
Test Start: 2018.11.05 @ 08:07:00

## GENERAL INFORMATION:

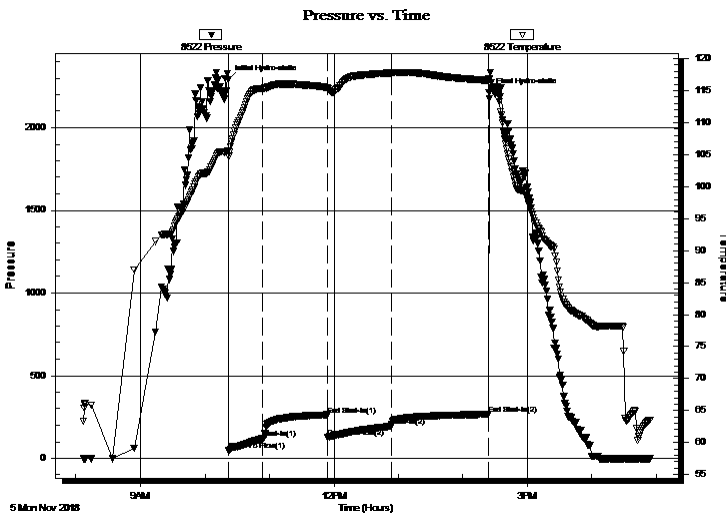
Formation: **Marmaton A-B**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:22:15  
Time Test Ended: 16:54:00  
Interval: **4526.00 ft (KB) To 4562.00 ft (KB) (TVD)**  
Total Depth: 4562.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Bradley Walter  
Unit No: 78  
Reference Elevations: 3141.00 ft (KB)  
3136.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 8522 Outside

Press@RunDepth: 193.71 psig @ 4527.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2018.11.05      End Date: 2018.11.05      Last Calib.: 2018.11.05  
Start Time: 08:07:05      End Time: 16:54:00      Time On Btm: 2018.11.05 @ 10:22:00  
Time Off Btm: 2018.11.05 @ 14:24:15

TEST COMMENT: IF 30 - BOB @ 4 min. built to 52".  
ISI 60- 10" return @ 35 min.  
FF 60 - BOB @ 10 min, built to 45".  
FSI90 - 5" return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2290.67	105.62	Initial Hydro-static
1	49.29	104.73	Open To Flow (1)
32	119.69	115.32	Shut-In(1)
92	262.98	115.47	End Shut-In(1)
93	128.17	115.28	Open To Flow (2)
152	193.71	117.74	Shut-In(2)
242	265.52	116.59	End Shut-In(2)
243	2213.96	116.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	gmco 3og 20m 50o	2.30
230.00	go 40g 60o	3.23
0.00	860 GIP	0.00

## 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: Tm J Lauer

**12-20s-35w Wichita, KS**  
**Lang #2-12**  
Job Ticket: 64349     **DST#: 1**  
Test Start: 2018.11.05 @ 08:07:00

### GENERAL INFORMATION:

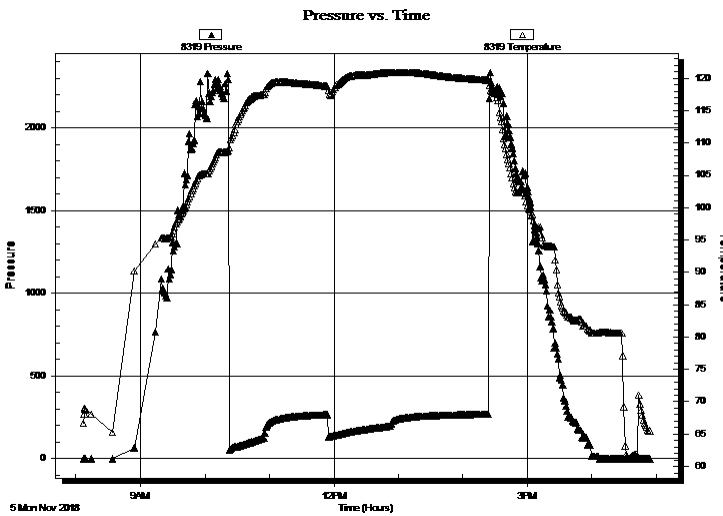
Formation: **Marmaton A-B**  
 Deviated: No Whipstock:                    ft (KB)  
 Time Tool Opened: 10:22:15  
 Time Test Ended: 16:54:00  
 Interval: **4526.00 ft (KB) To 4562.00 ft (KB) (TVD)**  
 Total Depth: 4562.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches    Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3141.00 ft (KB)  
    3136.00 ft (CF)  
    KB to GR/CF: 5.00 ft

**Serial #: 8319     Inside**

Press@RunDepth:                    psig @	4527.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2018.11.05	End Date:	2018.11.05
Start Time:	08:07:05	End Time:	16:54:00
		Last Calib.:	2018.11.05
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF 30 - BOB @ 4 min. built to 52".  
 ISI 60- 10" return @ 35 min.  
 FF 60 - BOB @ 10 min, built to 45".  
 FSI90 - 5" return.

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
240.00	gmco 3og 20m 50o	2.30
230.00	go 40g 60o	3.23
0.00	860 GIP	0.00

### 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 #2-12**

Job Ticket: 64349

**DST#: 1**

ATTN: Tm J Lauer

Test Start: 2018.11.05 @ 08:07:00

## Tool Information

Drill Pipe:	Length: 4410.00 ft	Diameter: 3.80 inches	Volume: 61.86 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4526.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.00 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			4500.00	
Shut In Tool	5.00		Fluid	4505.00	
Hydraulic tool	5.00			4510.00	
Jars	5.00			4515.00	
Safety Joint	2.00			4517.00	
Packer	5.00		Inside	4522.00	27.00 Bottom Of Top Packer
Packer	4.00			4526.00	
Stubb	1.00			4527.00	
Recorder	0.00	8319	Inside	4527.00	
Recorder	0.00	8522	Outside	4527.00	
Perforations	32.00			4559.00	
Bullnose	3.00			4562.00	36.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Co.

**12-20s-35w Wichita, KS**

301 S Market St.  
Wichita, KS 67202

**Lang #2-12**

Job Ticket: 64349

**DST#: 1**

ATTN: Tm J Lauer

Test Start: 2018.11.05 @ 08:07:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	gmco 3og 20m 50o	2.301
230.00	go 40g 60o	3.226
0.00	860 GIP	0.000

Total Length: 470.00 ft

Total Volume: 5.527 bbl

Num Fluid Samples: 0

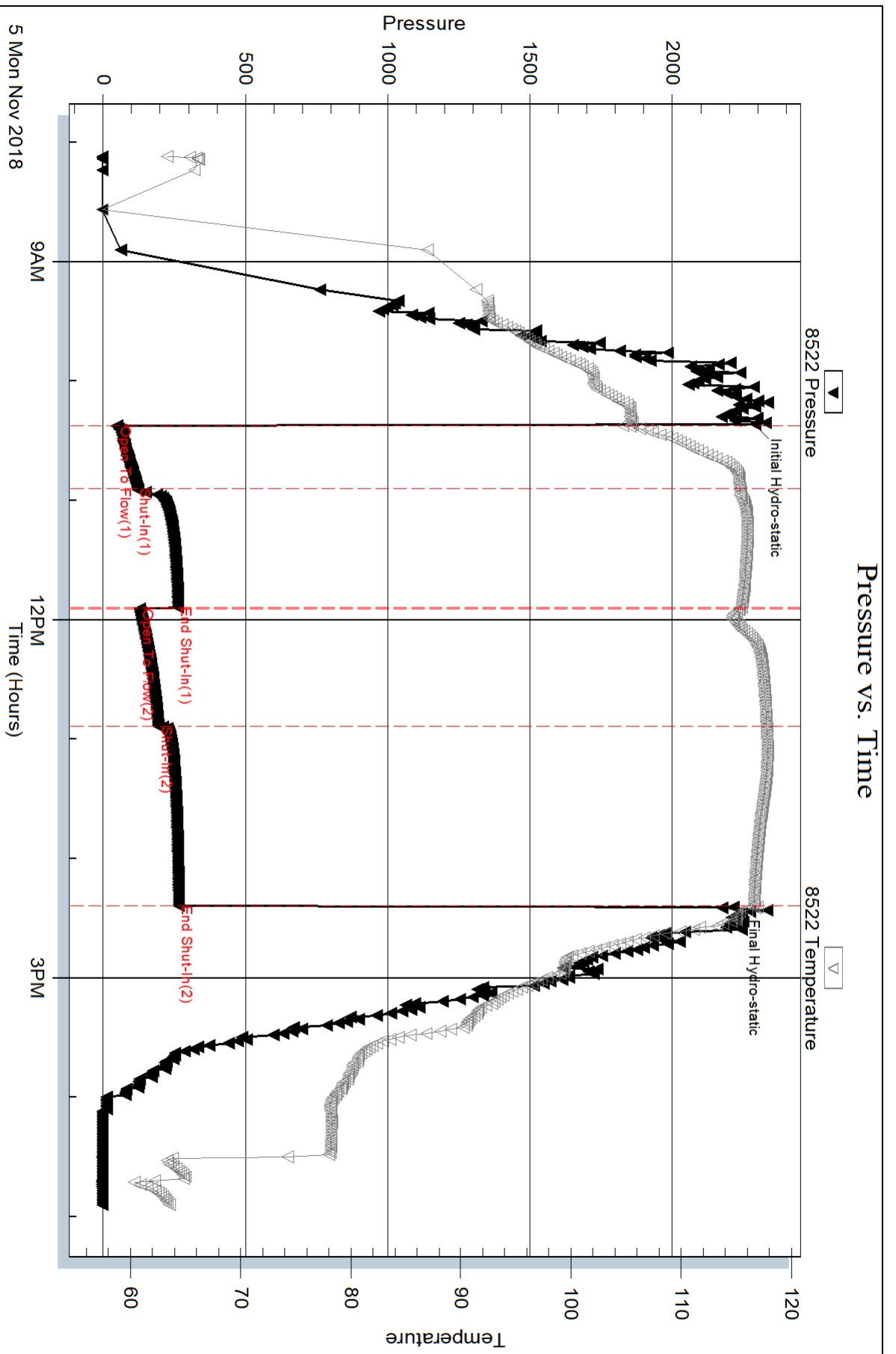
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



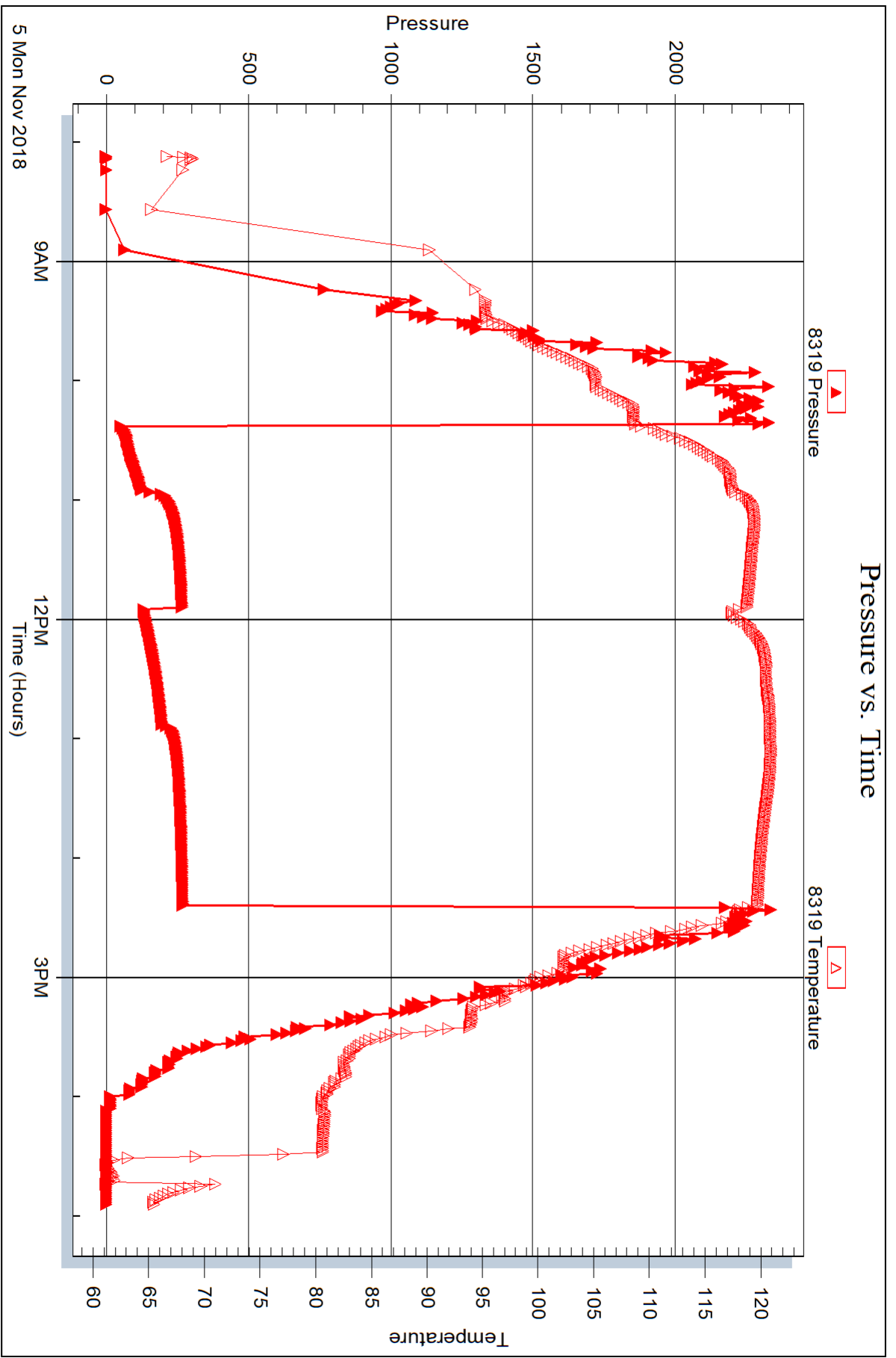
Serial #: 8319

Inside

Lario Oil & Gas Co.

Lang #2-12

DST Test Number: 1





## DRILL STEM TEST REPORT

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

301 S Market St.  
Wichita, KS 67202

ATTN: Tm J Lauer

### **Lang #2-12**

#### **12-20s-35w Wichita, KS**

Start Date: 2018.11.06 @ 07:56:00

End Date: 2018.11.06 @ 15:54:15

Job Ticket #: 64350                      DST #: 2

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

Printed: 2018.11.09 @ 14:14:18



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

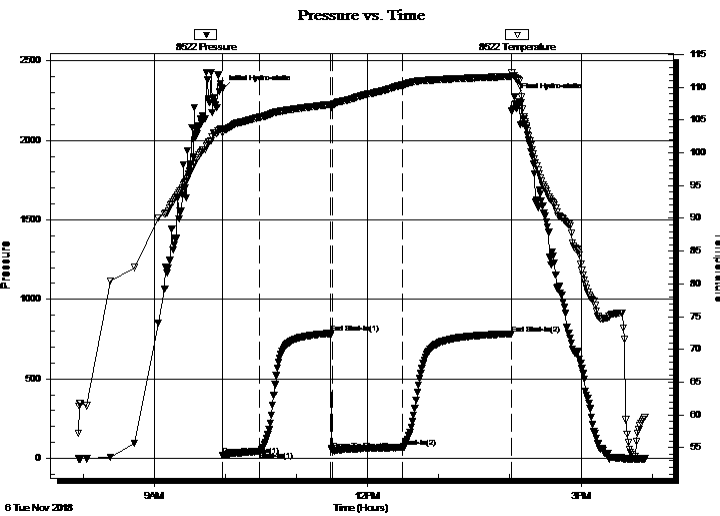
**12-20s-35w Wichita, KS**  
**Lang #2-12**  
Job Ticket: 64350      **DST#: 2**  
Test Start: 2018.11.06 @ 07:56:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:57:45  
Time Test Ended: 15:54:15  
Interval: **4583.00 ft (KB) To 4620.00 ft (KB) (TVD)**  
Total Depth: 4620.00 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: 3141.00 ft (KB)  
3136.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8522      Outside**  
Press@RunDepth: 69.22 psig @ 4584.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2018.11.06      End Date: 2018.11.06      Last Calib.: 2018.11.06  
Start Time: 07:56:05      End Time: 15:54:14      Time On Btm: 2018.11.06 @ 09:57:15  
Time Off Btm: 2018.11.06 @ 14:03:45

**TEST COMMENT:** IF:30 8' blow .  
IS:60 Minimal return.  
FF:60 BOB @ 30 min, built to 18.5".  
FS:90 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2321.72	103.70	Initial Hydro-static
1	18.62	103.07	Open To Flow (1)
32	45.06	105.42	Shut-In(1)
91	785.27	107.36	End Shut-In(1)
93	51.55	107.10	Open To Flow (2)
152	69.22	110.33	Shut-In(2)
245	782.85	111.66	End Shut-In(2)
247	2271.28	111.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
105.00	gmco 30g 30m 40o	0.52
15.00	oil 100o	0.10
0.00	170' 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: Tm J Lauer

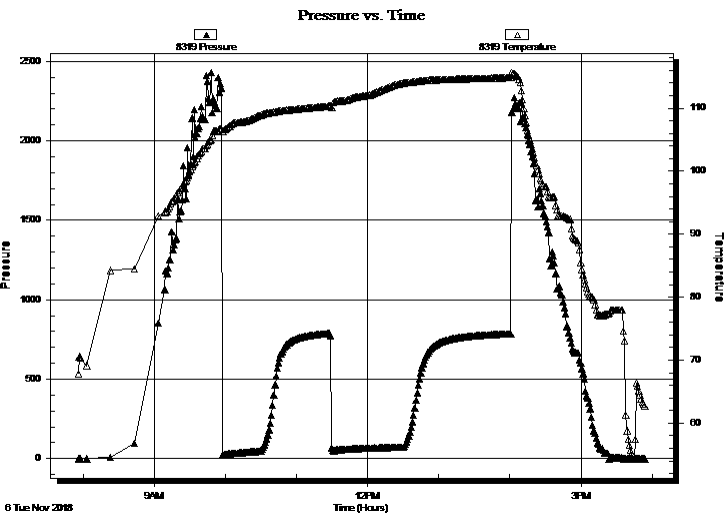
**12-20s-35w Wichita, KS**  
**Lang #2-12**  
 Job Ticket: 64350 **DST#: 2**  
 Test Start: 2018.11.06 @ 07:56:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 09:57:45 Tester: Bradley Walter  
 Time Test Ended: 15:54:15 Unit No: 78  
 Interval: **4583.00 ft (KB) To 4620.00 ft (KB) (TVD)** Reference Elevations: 3141.00 ft (KB)  
 Total Depth: 4620.00 ft (KB) (TVD) 3136.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

**Serial #: 8319 Inside**  
 Press@RunDepth: psig @ 4584.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.11.06 End Date: 2018.11.06 Last Calib.: 2018.11.06  
 Start Time: 07:56:05 End Time: 15:54:14 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF:30 8' blow .  
 IS:60 Minimal return.  
 FF:60 BOB @ 30 min, built to 18.5".  
 FS:90 No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
105.00	gmco 30g 30m 40o	0.52
15.00	oil 100o	0.10
0.00	170' GIP	0.00

\* 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 #2-12**

Job Ticket: 64350

**DST#: 2**

ATTN: Tm J Lauer

Test Start: 2018.11.06 @ 07:56:00

## Tool Information

Drill Pipe:	Length: 4443.00 ft	Diameter: 3.80 inches	Volume: 62.32 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 62.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4583.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4557.00	
Shut In Tool	5.00		Fluid	4562.00	
Hydraulic tool	5.00			4567.00	
Jars	5.00			4572.00	
Safety Joint	2.00			4574.00	
Packer	5.00		Inside	4579.00	27.00 Bottom Of Top Packer
Packer	4.00			4583.00	
Stubb	1.00			4584.00	
Recorder	0.00	8319	Inside	4584.00	
Recorder	0.00	8522	Outside	4584.00	
Perforations	33.00			4617.00	
Bullnose	3.00			4620.00	37.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Co.

**12-20s-35w Wichita, KS**

301 S Market St.  
Wichita, KS 67202

**Lang #2-12**

Job Ticket: 64350

**DST#: 2**

ATTN: Tm J Lauer

Test Start: 2018.11.06 @ 07:56:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

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
105.00	gmco 30g 30m 40o	0.516
15.00	oil 100o	0.101
0.00	170' GIP	0.000

Total Length: 120.00 ft      Total Volume: 0.617 bbl

Num Fluid Samples: 0

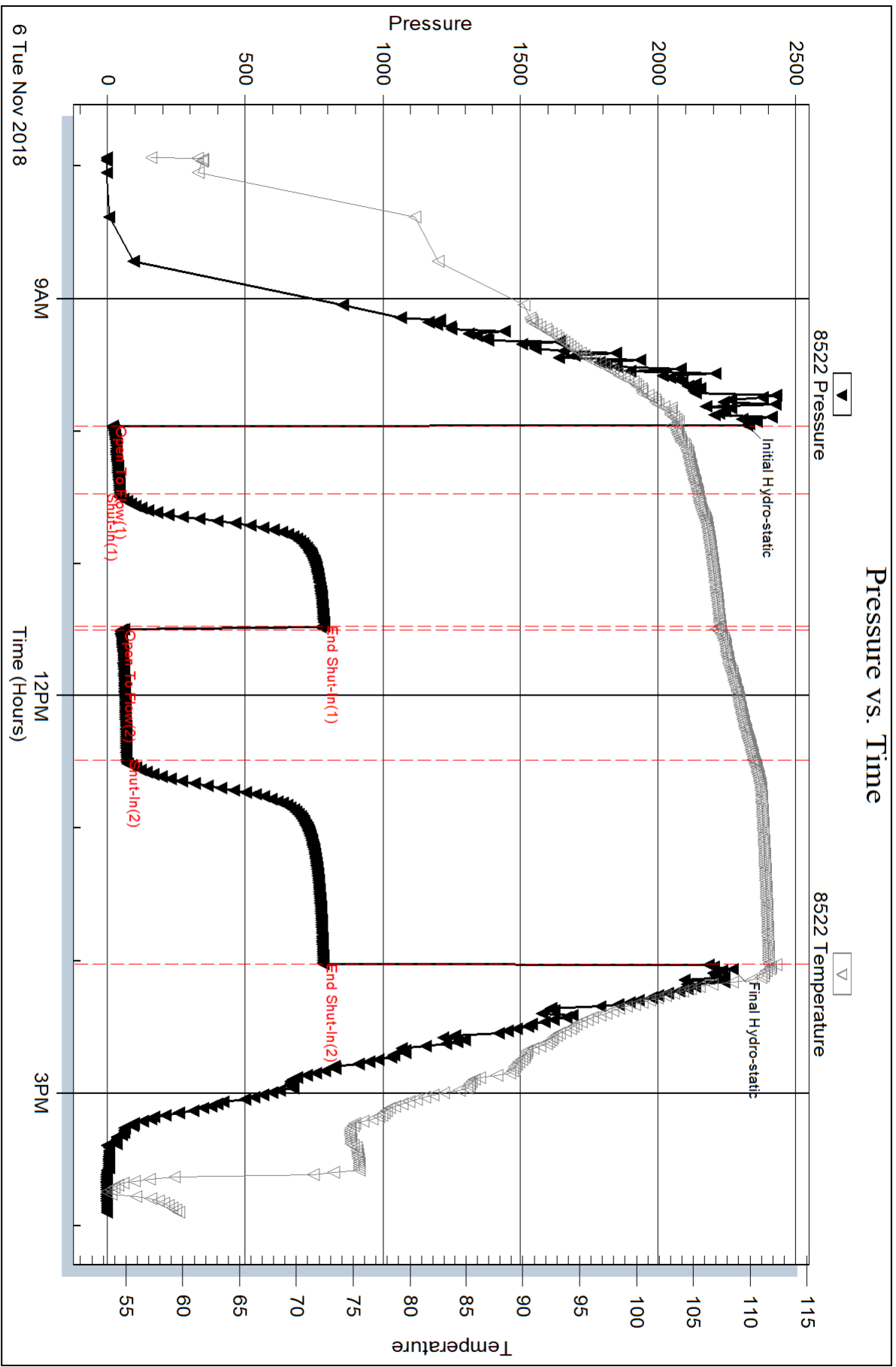
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



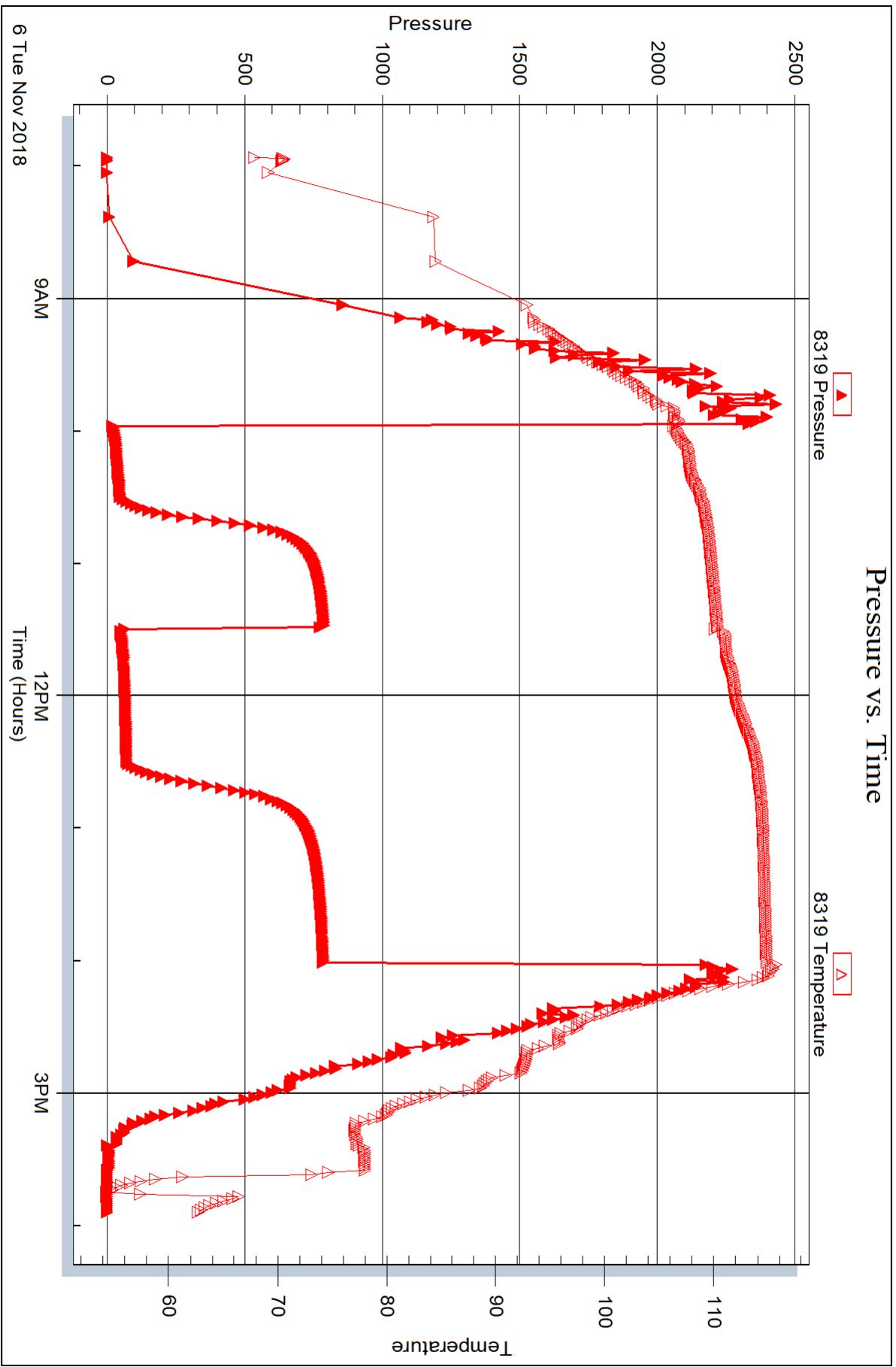
Serial #: 8319

Inside

Lario Oil & Gas Co.

Lang #2-12

DST Test Number: 2





## DRILL STEM TEST REPORT

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

301 S Market St.  
Wichita, KS 67202

ATTN: Tm J Lauer

### **Lang #2-12**

#### **12-20s-35w Wichita, KS**

Start Date: 2018.11.06 @ 23:46:00

End Date: 2018.11.07 @ 07:51:45

Job Ticket #: 64426                      DST #: 3

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

Printed: 2018.11.09 @ 14:13:51



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

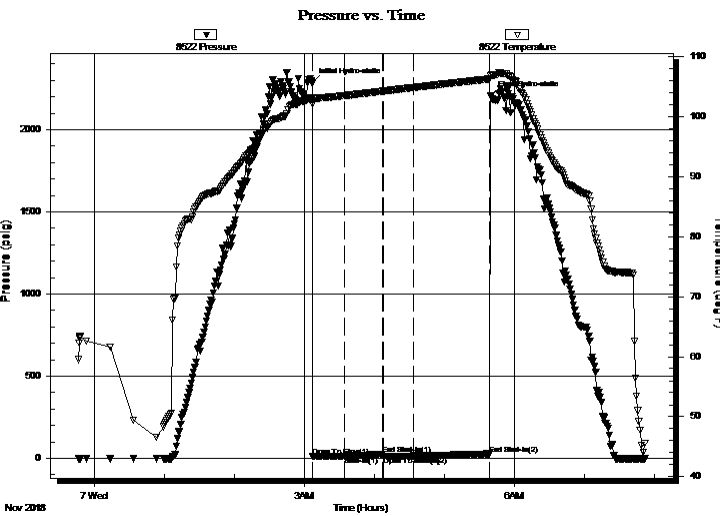
**12-20s-35w Wichita, KS**  
**Lang #2-12**  
Job Ticket: 64426      **DST#: 3**  
Test Start: 2018.11.06 @ 23:46:00

## GENERAL INFORMATION:

Formation: **Ft Scott**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:06:30  
Time Test Ended: 07:51:45  
Interval: **4616.00 ft (KB) To 4645.00 ft (KB) (TVD)**  
Total Depth: 4645.00 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: 3141.00 ft (KB)  
3136.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8522      Outside**  
Press@RunDepth: 14.36 psig @ 4617.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2018.11.06      End Date: 2018.11.07      Last Calib.: 2018.11.07  
Start Time: 23:46:05      End Time: 07:51:44      Time On Btm: 2018.11.07 @ 03:06:15  
Time Off Btm: 2018.11.07 @ 05:39:45

TEST COMMENT: IF: 30 Surface blow .  
IS: 30 No return.  
FF: 30 No bow .  
FS: 60 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2283.82	103.04	Initial Hydro-static
1	12.52	102.05	Open To Flow (1)
28	13.75	103.47	Shut-In(1)
61	24.88	104.22	End Shut-In(1)
61	12.21	104.20	Open To Flow (2)
88	14.36	104.83	Shut-In(2)
153	27.38	106.24	End Shut-In(2)
154	2205.62	106.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100m w/oil spots	0.05

\* 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: Tm J Lauer

**12-20s-35w Wichita, KS**

**Lang #2-12**

Job Ticket: 64426

**DST#: 3**

Test Start: 2018.11.06 @ 23:46:00

### GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:06:30

Time Test Ended: 07:51:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4616.00 ft (KB) To 4645.00 ft (KB) (TVD)**

Total Depth: 4645.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3141.00 ft (KB)

3136.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8319** Inside

Press@RunDepth: psig @ 4617.00 ft (KB)

Start Date: 2018.11.06 End Date: 2018.11.07

Start Time: 23:46:05 End Time: 07:51:44

Capacity: 8000.00 psig

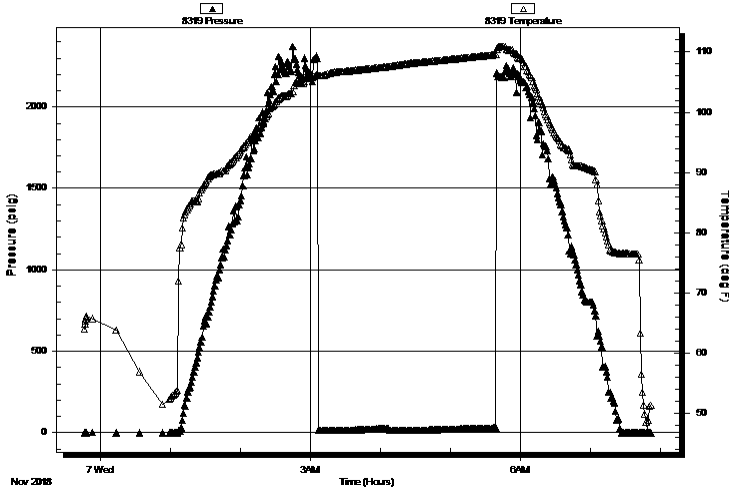
Last Calib.: 2018.11.07

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: 30 Surface blow .  
IS: 30 No return.  
FF: 30 No bow .  
FS: 60 No return

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100m w/oil spots	0.05

### 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.

**12-20s-35w Wichita, KS**

301 S Market St.  
Wichita, KS 67202

**Lang #2-12**

Job Ticket: 64426

**DST#: 3**

ATTN: Tm J Lauer

Test Start: 2018.11.06 @ 23:46:00

## Tool Information

Drill Pipe:	Length: 4505.00 ft	Diameter: 3.80 inches	Volume: 63.19 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 63.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4616.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	56.00 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			4590.00	
Shut In Tool	5.00		Fluid	4595.00	
Hydraulic tool	5.00			4600.00	
Jars	5.00			4605.00	
Safety Joint	2.00			4607.00	
Packer	5.00		Inside	4612.00	27.00 Bottom Of Top Packer
Packer	4.00			4616.00	
Stubb	1.00			4617.00	
Recorder	0.00	8319	Inside	4617.00	
Recorder	0.00	8522	Outside	4617.00	
Perforations	25.00			4642.00	
Bullnose	3.00			4645.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Co.

**12-20s-35w Wichita, KS**

301 S Market St.  
Wichita, KS 67202

**Lang #2-12**

Job Ticket: 64426

**DST#: 3**

ATTN: Tm J Lauer

Test Start: 2018.11.06 @ 23:46:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

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
10.00	mud 100m w/oil spots	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

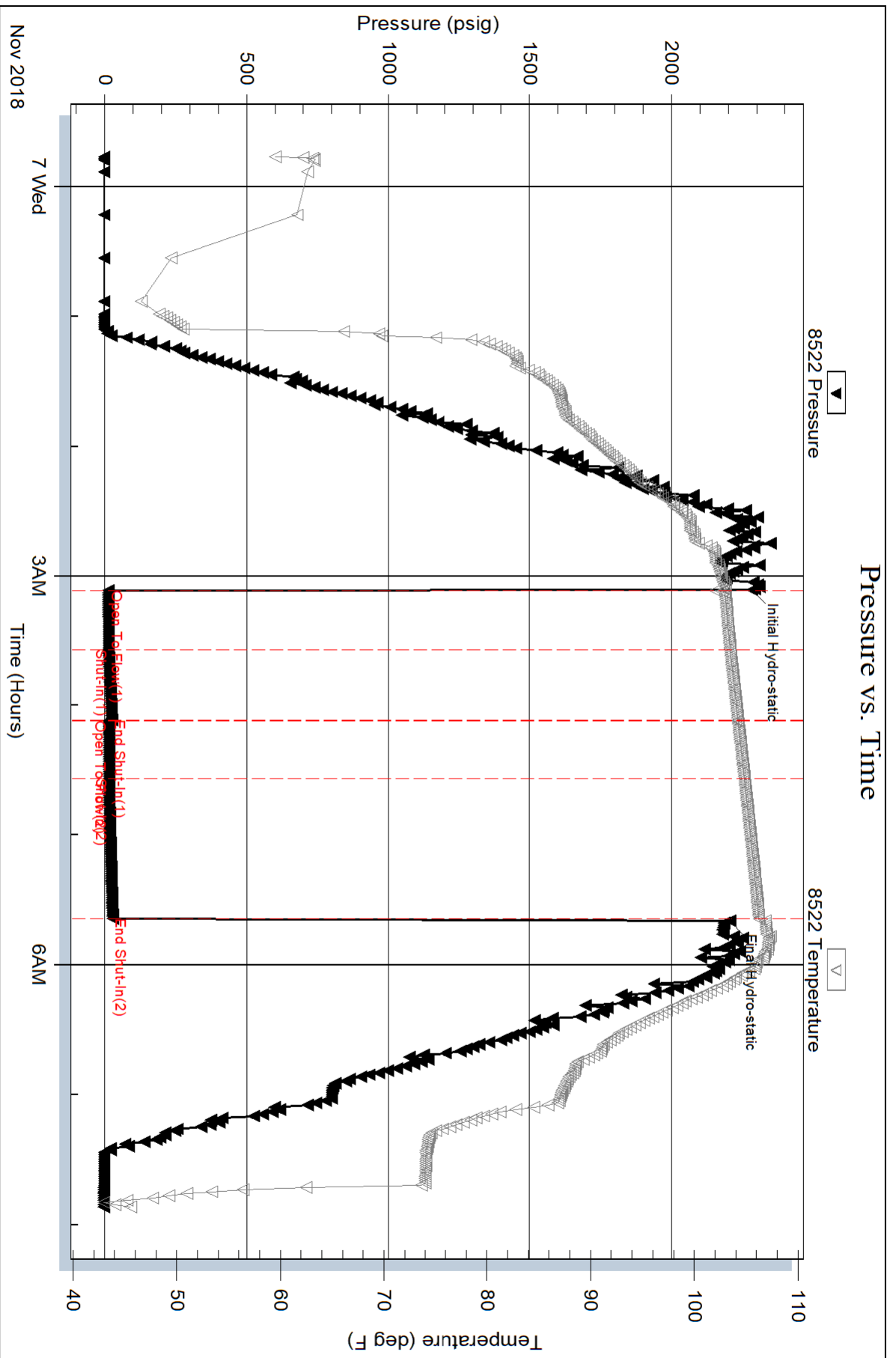
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





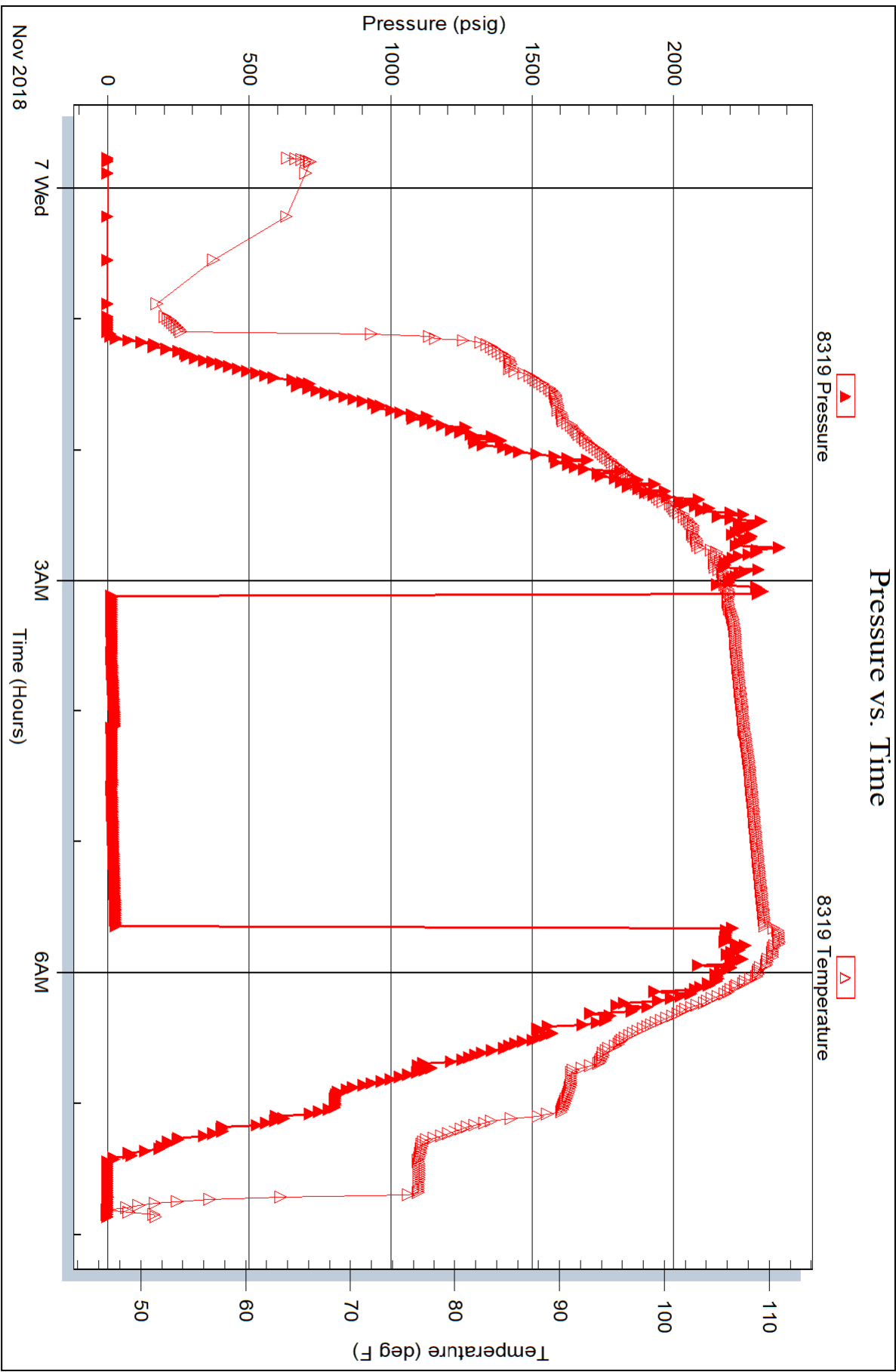
Serial #: 8319

Inside

Lario Oil & Gas Co.

Lang #2-12

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64349**

Well Name & No. Lang # 2-12 Test No. 1 Date 11/5/2018  
 Company Lario Oil & Gas Co. Elevation 3141 KB 3136 GL  
 Address 301 South Market St Wichita, Ks 67202  
 Co. Rep / Geo. Tim J Laver Rig WW # 2  
 Location: Sec. 12 Twp. 20s Rge. 35W Co. Wichita State Ks

Interval Tested ~~3111~~ 4526-4562 Zone Tested Marmaton A-B  
 Anchor Length 36' Drill Pipe Run 4410 Mud Wt. 9.3  
 Top Packer Depth 4521 Drill Collars Run 117 Vis 6.3  
 Bottom Packer Depth 4526 Wt. Pipe Run 0 WL 9.6  
 Total Depth 4562 Chlorides 4500 ppm System LCM 2#  
 Blow Description IF BOB@ 4min built to 52" @ ~~35min~~  
IST 10"/BOB@ 35 min.  
FF BOB@ 10", built to 45"  
FSI 5" return @ 30 min.

Rec	Feet of	%gas	%oil	%water	%mud
230	CO	40	60		
240	G.MCO	30	50		20
	860 GTP				

Rec Total 470 BHT 116 Gravity 29 API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 2291  Test 1150 T-On Location 0630  
 (B) First Initial Flow 49  Jars \_\_\_\_\_ T-Started 0750807  
 (C) First Final Flow 120  Safety Joint \_\_\_\_\_ T-Open 1023  
 (D) Initial Shut-In 263  Circ Sub all T-Pulled 1423  
 (E) Second Initial Flow 128  Hourly Standby \_\_\_\_\_ T-Out 1654  
 (F) Second Final Flow 194  Mileage 60 rt 60 Comments \_\_\_\_\_  
 (G) Final Shut-In 266  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2214  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1210 Sub Total 1210 MP/DST Disc't \_\_\_\_\_

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. **64350**

Well Name & No. Lang #2-12 Test No. 2 Date 11/06/2018  
 Company Lario Oil & Gas Co. Elevation 3141 KB 3136 GL  
 Address 301 South Market St Wichita, KS 67202  
 Co. Rep / Geo. Tim J Laver Rig WW #2  
 Location: Sec. 12 Twp. 20s Rge. 35w Co. Wichita State Ks

Interval Tested 4583-4620 Zone Tested Pawnee  
 Anchor Length 37' Drill Pipe Run 4443 Mud Wt. 9.3  
 Top Packer Depth 4578 Drill Collars Run 117 Vis 59  
 Bottom Packer Depth 4583 Wt. Pipe Run Ø WL 9.6  
 Total Depth 4620 Chlorides 5600 ppm System LCM 2#  
 Blow Description IF: 8" blow  
IST: minimal return.  
FF: BOB @ 30 minutes built to 18 1/2"  
FSI: No return.

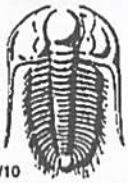
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>GIL</u>				
<u>125</u>	<u>GMCO</u>	<u>30%</u>	<u>40%</u>		<u>30%</u>

Rec Total 120 BHT 112 Gravity 27 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2322  Test 1150 T-On Location 0730  
 (B) First Initial Flow 19  Jars \_\_\_\_\_ T-Started 0756  
 (C) First Final Flow 45  Safety Joint \_\_\_\_\_ T-Open 1059  
 (D) Initial Shut-In 785  Circ Sub N/C T-Pulled 1359  
 (E) Second Initial Flow 52  Hourly Standby \_\_\_\_\_ T-Out 1554  
 (F) Second Final Flow 69  Mileage 60 RT 60 Comments \_\_\_\_\_  
 (G) Final Shut-In 783  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2271  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1210  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1210

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. 64426

Well Name & No. Lang #2-12 Test No. 3 Date 11/07/2018  
 Company Lario Oil & Gas Co Elevation 3141 KB 3136 GL  
 Address 301 S Market St Wichita, ks 67202  
 Co. Rep / Geo. Tom J Laser Rig WW #2  
 Location: Sec. 12 Twp 20S Rge. 35W Co. Wichita State Ks

Interval Tested 4616 - 4645 Zone Tested FT Scott  
 Anchor Length 29 Drill Pipe Run 4505 Mud Wt. 9.0  
 Top Packer Depth 4611 Drill Collars Run 117 Vis 50  
 Bottom Packer Depth 4616 Wt. Pipe Run Ø WL 9.6  
 Total Depth 4645 Chlorides 5600 ppm System LCM 2#

Blow Description IF Surface blow  
ISI No return.  
FF No blow  
PSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MUD w/ oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 106 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2284  Test 1150 T-On Location 2330  
 (B) First Initial Flow 13  Jars \_\_\_\_\_ T-Started 2346  
 (C) First Final Flow 14  Safety Joint \_\_\_\_\_ T-Open 0305  
 (D) Initial Shut-In 25  Circ Sub xt T-Pulled 0535  
 (E) Second Initial Flow 12  Hourly Standby \_\_\_\_\_ T-Out 0752  
 (F) Second Final Flow 14  Mileage 60 rt x 2 60+60 Comments PV Tools @ 7900  
 (G) Final Shut-In 27  Sampler \_\_\_\_\_ 11/08/2018  
 (H) Final Hydrostatic 2206  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1270  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1270

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.

ELEVATIONS  
KB 3141'  
GL 3136'  
COMPANY & WELL Lario #2-12 Lang  
2305 FNL, 1611' FWL, NW  
LOCATION  
SEC 12 T20S R30E S35W  
COUNTY Wichita STATE Kansas

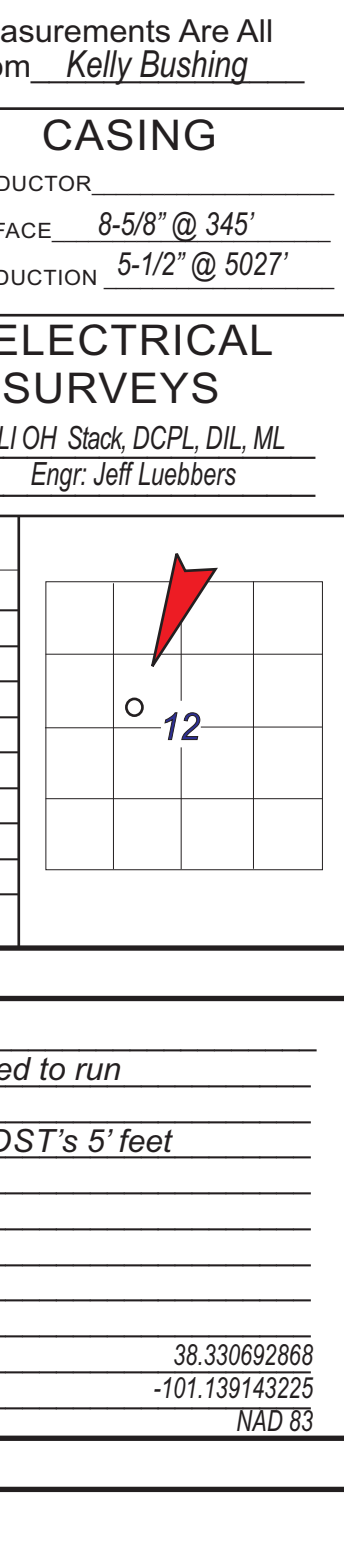
# Tim J. Lauer Petroleum Geologist

Office 316.832.0530  
Cell 316.253.1275

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY	Lario Oil and Gas Company		ELEVATIONS	KB 3141'	
FIELD	Lang		DF		
SECTION	2305 FNL, 1611' FWL, NW/4		GL	3136'	
COUNTY	Wichita STATE Kansas		Measurements Are All	From Kelly Bushing	
CONTRACTOR	WW Drilling LLC - Rig #2		CASING		
SPUD	10-29-2018	RTD	5025'	LTD 5030'	
RTD	5025'	LTD	5030'	CONDUCTOR	
MUD UP	3325'	TYPE MUD		Chemical	
SAMPLES SAVED FROM 3500' TO RTD			SURFACE 8-5/8" @ 345'		
DRILLING TIME (MINUTES PER FOOT) FROM 3500' TO RTD			PRODUCTION 5-1/2" @ 5027'		
SAMPLES EXAMINED FROM 3500' TO RTD			ELECTRICAL SURVEYS		
GEOLOGICAL SUPERVISION FROM 3769' TO RTD			ELI/Oh Stack DCP/L D/L ML Engr. Jeff Luebbers		
GEOLOGIST ON WELL			Tim J. Lauer		
FORMATION TOPS			ELECTRICAL SAMPLE LOG		

Anhydrite	2296'	+ (845)	2296'	+ (845)
Heebner	3983'	- (842)	3989'	- (839)
Lansing	4032'	- (891)	4020'	- (888)
Stark	4517'	- (1205)	4340'	- (1199)
Marmaton	4571'	- (1376)	4508'	- (1367)
Fort Scott	4627'	- (1486)	4622'	- (1481)
Cherokee Shale	4640'	- (1499)	4636'	- (1495)
Mississippian	4932'	- (1791)	4925'	- (1785)
Total Depth	5030'	- (1889)	5026'	- (1884)



REMARKS  
Due to drill stem test results, and log evaluation, operator elected to run 5.5" production casing to further test the location.  
Note: LTD 5' deep to RTD measurements. Move all tops and DST's 5' feet downhole to match log measurements.  
Respectfully submitted,  
*[Signature]*  
Tim J. Lauer  
11/9/2018

38.330692868  
-101.139143275  
NAD 83

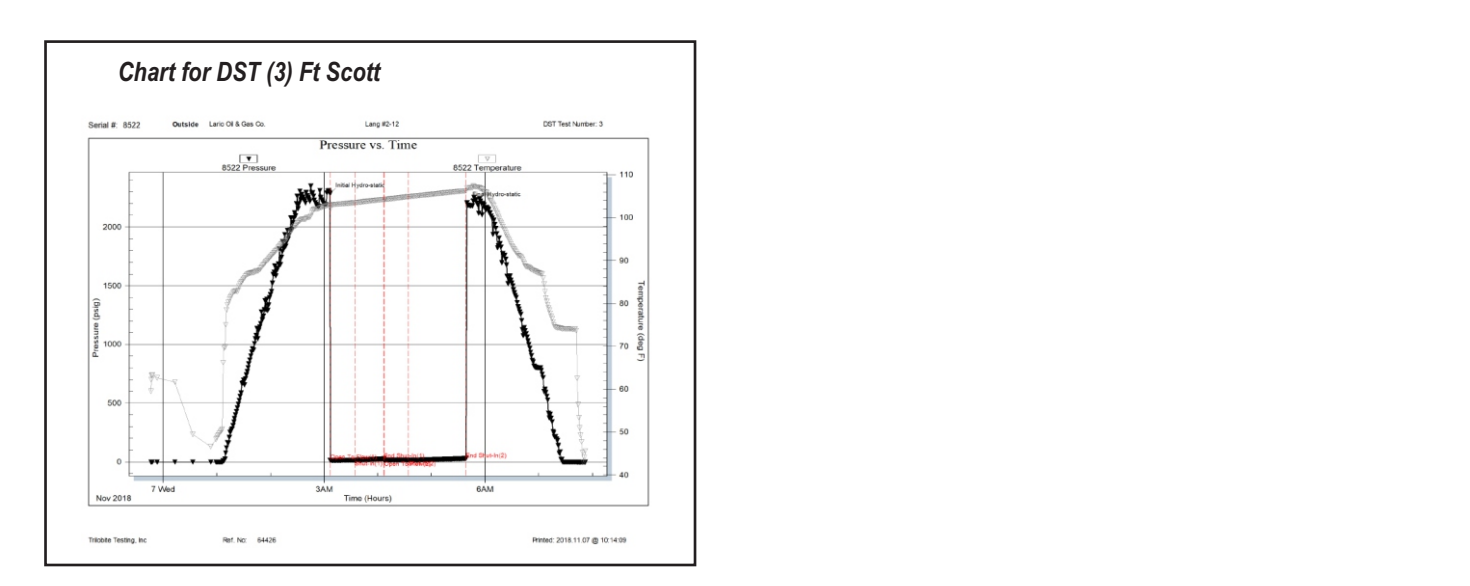
## LEGEND

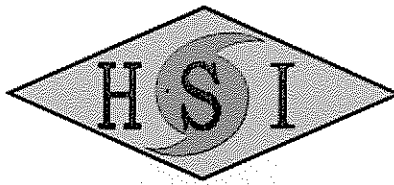
ANHYDRITE	SANDSTONE	LIMESTONE	SHALE	CARB. SH.	CHERT	CHERT	DOLomite
IP	IP	IP	IP	IP	IP	IP	IP

DEPTH (ft)	DRILLING TIME (MINUTES PER FOOT)	SAMPLE DESCRIPTION	REMARKS
------------	----------------------------------	--------------------	---------

DEPTH (ft)	DRILLING TIME (MINUTES PER FOOT)	SAMPLE DESCRIPTION	REMARKS
3500		Wet Samples start at 3500	SPUD 8:45 PM 10-29-2018 RTD 9:10 PM 11-8-2018
3500		Ls: bf-tan, med dk gry, micro-occ mxdn, foss, subool IP, mealy-dns, mealy-s-gran tx, pr vis por, NS, n. fl, n. str, n. odor	"BIT RECORD" 1) Smith F-271Y (New) (Under Surface to 4562) 2) Smith F-271Y (Return) 4562 to 5025' RTD
3500		Sh: most md-dk gry, blk, scat rd-bm, abund La slough, AA, NS	"VERTICAL SURVEY" 3 1/4" @ 345' 1" @ 385' 1" @ 456' 1" @ 462' 1 1/4" @ 5025'
3500		Sh: most md-dk gry, abund gm-gry, scat rd-bm, some Ls: md-dk gry/bm, micro-fxn, dns, pr vis por, NS, n. fl, n. str, n. odor; scat sd; md-dk gry, silty-fngrd, mica, subrad, qtz, brittle, pr vis por, NS	10-29-2018 - MIRT, RURT Spud 8:45 PM 10-28-2018
3500		Ls: tan-mdgry, tm, most IP, micro-mgdn, foss, ool, mealy-dns, scat IP, XLN & IG por, NS, n. fl, n. str, n. odor	10-30-2018 - 7:00 AM Drig @ 1121'
3500		Ls: bf-tan-bm, dk-gry, v. molt, micro-mgdn, foss, ool, mealy-dns, scat IP, XLN & IG por, NS, n. fl, n. str, n. odor; scat sd; md-dk gry, silty-fngrd, mica, subrad, qtz, brittle, pr vis por, NS	10-31-2018 - 7:00 AM Drig @ 1121'
3500		Ls: most tan-bm, scat gry, s. molt, micro-fxn, some dns, scat pcs fr sucr. tx, fr IXLN por, NS, n. fl, n. str, n. odor	11-1-2018 - 7:00 AM Drig @ 2791'
3500		Sh: most md-dk gry, blk, scat rd-bm	11-2-2018 - 7:00 AM Drig @ 3915'
3500		Ls: bf-dk gry, med, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor; scat sd; md-dk gry, silty-fngrd, mica, subrad, qtz, brittle, pr IG por, NS	11-4-2018 - 7:00 AM GFS @ 4295'
3500		Ls: bf-tan, med dk gry, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor; scat sd; md-dk gry, silty-fngrd, mica, subrad, qtz, brittle, pr IG por, NS	11-5-2018 - 7:00 AM PTD @ 4620' COOH for DST(1)
3500		Ls: bf-tan, med dk gry, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor; scat sd; md-dk gry, silty-fngrd, mica, subrad, qtz, brittle, pr IG por, NS	11-6-2018 - 7:00 AM PTD @ 4620' COOH for DST(2)
3500		Ls: bf-tan, med dk gry, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor; scat sd; md-dk gry, silty-fngrd, mica, subrad, qtz, brittle, pr IG por, NS	11-8-2018 - 7:00 AM PTD @ 4620' COOH with DST(3)
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	11-9-2018 - 7:00 AM Drig @ 4668'
3500		Ls: most md-dk gry, gritty, silty IP, scat blk, rd-bm	11-10-2018 - 7:00 AM PTD @ 5025' RTD @ 5027' Running ELI/Oh Elcs Preparing to Run Prod Csg
3500		Ls: some bf-tan AA, incr mdgry, med, dk gry, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	11-10-2018 - 7:00 AM RTD @ 5025' LTD 5030' Ran 5 1/2" csg @ 5027 w/195 x DV tool @ 2325 w/605 sx
3500		Ls: some bf-tan AA, incr mdgry, med, dk gry, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Call Point 3500 - 8:00 AM 11-2-2018
3500		Sh: med-dk gry, blk, carb, med-gm-gry, scat rd-bm	Mud Check at 3515: WOC @ 3635' LTM: 2# Ph: 11.5 WL: 6.4
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Geologist on location 3769' 4:00 PM 11-2-2018
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Long Trip at 3832' Pulled 20-50K over on stands 7, 10, and 22-24
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Pipe Strap on trip: Board: 3635.34' Strip: 3653.34' Diff: 0.63' long
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Hit 2048 and 3947 while d/crt after trip.
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Rig Check at 4027: vis: 58 w/ 9.3 Chlor: 3.000 LCM: 2# Ph: 10.1 WL: 8.8
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Rig Check at 4415: vis: 58 w/ 9.1 Chlor: 2.200 LCM: 2# Ph: 10.0 WL: 9.2
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Rig Check at 4452: vis: 57 w/ 9.0 Chlor: 2.800 LCM: 2# Ph: 10.1 WL: 8.8
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Rig Check at 4526: vis: 63 w/ 9.3 Chlor: 5.200 LCM: 2# Ph: 10.5 WL: 9.6
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	DST (1) 4526' - 4562' 30-60-90 Blow: strong; BbB 4 min; built to 52" on FFP; strong; BbB 10 min; built to 45" on FFP; strong; BbB 30 min; built to 12" on FFP; good; BbB 60 min; built to 10" on FFP;
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	860' GYCO 230' GYCO (40% gas @ 205' mod. 0% wt) 240' GYCO MCO (30% gas @ 205' mod. 0% wt) 170' Total Fluid IHP: 2271 FFP: 128-194 IFP: 49-120 FSIP: 266 ISIP: 263 FHP: 2214 Temp: 116F Chlorides MUD: 4500 PPM DST: NA Gravelly - 27 API corrected Both Shu-in curves broken over
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Mud Check at 4562 during DST: vis: 63 w/ 9.3 Chlor: 5.200 LCM: 2# Ph: 10.5 WL: 9.6
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	DST (2) 4583' - 4620' 30-60-90 Blow: fair; built to 8" on FFP; normal; BbB 10 min; built to 45" on FFP; strong; BbB 30 min; built to 12" on FFP; no; BbB 60 min; built to 10" on FFP;
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	100' FIP 15' GFO 125' GMCO (30% gas @ 205' mod. 0% wt) 140' Total Fluid IHP: 2322 FFP: 53-69 IFP: 10-45 FSIP: 75-83 ISIP: 785 FHP: 2271 Temp: 112F Chlorides MUD: 5,200 PPM DST: NA Gravelly - 27 API corrected Both Shu-in curves breaking over
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Mud Check at 4620 after DST: vis: 59 w/ 9.3 Chlor: 5.200 LCM: 2# Ph: 10.0 WL: 9.6
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	DST (3) 4616' - 4645' 30-30-60 Blow: weak; surface blow on FFP; no; BbB 10 min; built to 45" on FFP; no; BbB 30 min; built to 10" on FFP; no; BbB 60 min; built to 10" on FFP;
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	10' Mud with Oil Spots IHP: 2384 FFP: 12-14 IFP: 12-14 FSIP: 27 ISIP: 25 FHP: 2206 Temp: 106F Chlorides MUD: 5,200 PPM DST: NA Gravelly - NA
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Mud Check at 4640 after DST: vis: 54 w/ 9.2 Chlor: 5.600 LCM: 2# Ph: 10.5 WL: 8.0
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Rig Check at 4716: vis: 60 w/ 9.1 Chlor: 1#
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Mud Check at 4824: vis: 56 w/ 9.1 Chlor: 5.400 LCM: 2# Ph: 11.0 WL: 8.8
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Mud Check at 4874: vis: 56 w/ 9.3 Chlor: 5.400 LCM: 2# Ph: 11.0 WL: 8.8
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Mud Check at 4930: vis: 56 w/ 9.1 Chlor: 2# Reduce pump pressure 700R to RTD
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	Mud Check at 5015: vis: 55 w/ 9.2 Chlor: 1.2#
3500		Ls: tan-buff, incr cm-mgdn, scat IP, micro-fxn, foss, ool & pellets, most mly-gran txt, scat fr IXLN & IG por, NS, n. fl, n. str, n. odor	5025' RTD reached 9:10 PM 11-9-2018

COMPANY & WELL Lario Oil & Gas Co. #2-12 Lang  
LOCATION 2305 FNL, 1611' FWL, NW  
SEC 12 T20S R30E S35W  
COUNTY Wichita STATE Kansas





# HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

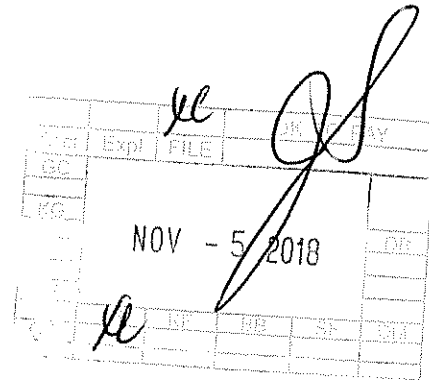
Customer:  
LARIO OIL & GAS  
BOX 1093  
GARDEN CITY, KS 67846

*drilling AFE 18-130*

APPROVED NOV 01 2018

Invoice Date: 10/30/2018  
Invoice #: 0040723  
Lease Name: Lang  
Well #: 2-12 (New)  
County: Wichita

Date/Description	HRS/QTY	Rate	Total
ICT1508 <u>Surface</u> New well	0.000	0.000	0.00
Heavy Eq mileage	120.000	2.438	292.50
Light Eq Mileage	60.000	1.125	67.50
Ton Mileage one way	608.580	0.975	593.37
Cement Pump 230	1.000	712.500	712.50
Cement Class A	205.000	12.188	2,498.44
Calcium Chloride	578.000	0.750	433.50
Bentonite Gel	386.000	0.225	86.85
FLO Seal	52.000	1.612	83.84



**Total** 4,768.50

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**



HURRICANE SERVICES INC

Customer	Largo oil and gas		Lease & Well #	Lang #2-12		Date	10/30/2010	
Service District	Oakley, KS		County & State	Wichita Ks		Legal's S/N/R	12-20S-35W	
Job type	Surface	<input type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input type="checkbox"/> YES	<input type="checkbox"/> No	
Equipment #	Driver						Tractor #	ICT1508

**Job Safety Analysis - A Discussion of Hazards & Safety Procedures**

<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

**Comments**

All products loaded out of Oakley Ks

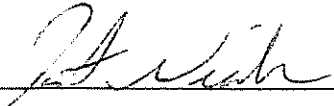
Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
C001	Heavy Equip. One Way	mi	120.00	\$292.50
C002	Light Equip. One Way	mi	60.00	\$67.50
C003	Ton Mileage - One way	mi	808.53	\$593.37
C015	Cement Pump	ea	1.00	\$712.50
CP006	Regular - Class A Cement	sack	205.00	\$2,498.44
CP017	Calcium - Chloride	lb	578.00	\$433.50
CP016	Bentonite Gel	lb	386.00	\$96.85
CP020	FLO-Seal	lb	52.00	\$93.85

Customer Section (On the following web page: [www.hsicons.com](http://www.hsicons.com))

Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -	Tax Rate:		Net:	\$4,768.50			
<input type="checkbox"/>	<input type="checkbox"/>	State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax:	\$ -	Total:	\$ 4,768.50			
1	2	3	4	5	6	7	8	9	10	Extremely Likely

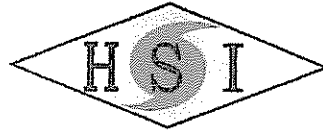
HSI Representative: *Deno Retzloff*

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

x  **CUSTOMER AUTHORIZATION SIGNATURE**



TREATMENT REPORT



HURRICANE SERVICES INC

Customer:	Lario Oil And Gas Company	Date:	10/30/2018	Ticket #:	ICT1508
Field Rep:	Johnny				
Address:	301 S Market st				
City, State:	Wichita Kansas				
County, Zip:					

Field Order No.:		Open Hole:		Perf Depths (ft)	Perfs
Well Name:	Lang 2-12	Casing Depth:	344.78		
Location:	Wichita Ks	Casing Size:	8 5/8		
Formation:		Tubing Depth:			
Type of Service:	Surface	Tubing Size:			
Well Type:	Oil	Liner Depth:			
Age of Well:	New	Liner Size:			
Packer Type:		Liner Top:			
Packer Depth:		Liner Bottom:			
Treatment Vial:	Oakloy Ks	Total Depth:			
				Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HGL (qls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
12:36 AM					Arrive on location			
12:40 AM					Safety meeting			
12:45 AM					Rig up			
6:15 AM					Rig runs casing			
6:15 AM					Casing on bottom. Circulate			
6:28 AM	5.5		300.0		Mix 205 sks of class a 3% cc 2% gel .25 flo @ 1.41 Yield			61.50
6:35 AM	5.5		290.0		Displace			20.50
6:38 AM	5.5		290.0		End Displacement. Shut in well			
7:00 AM					Wash pump and lines			
7:20 AM					Rig down			
7:30 AM					Depart			
TOTAL:						-	-	72.00

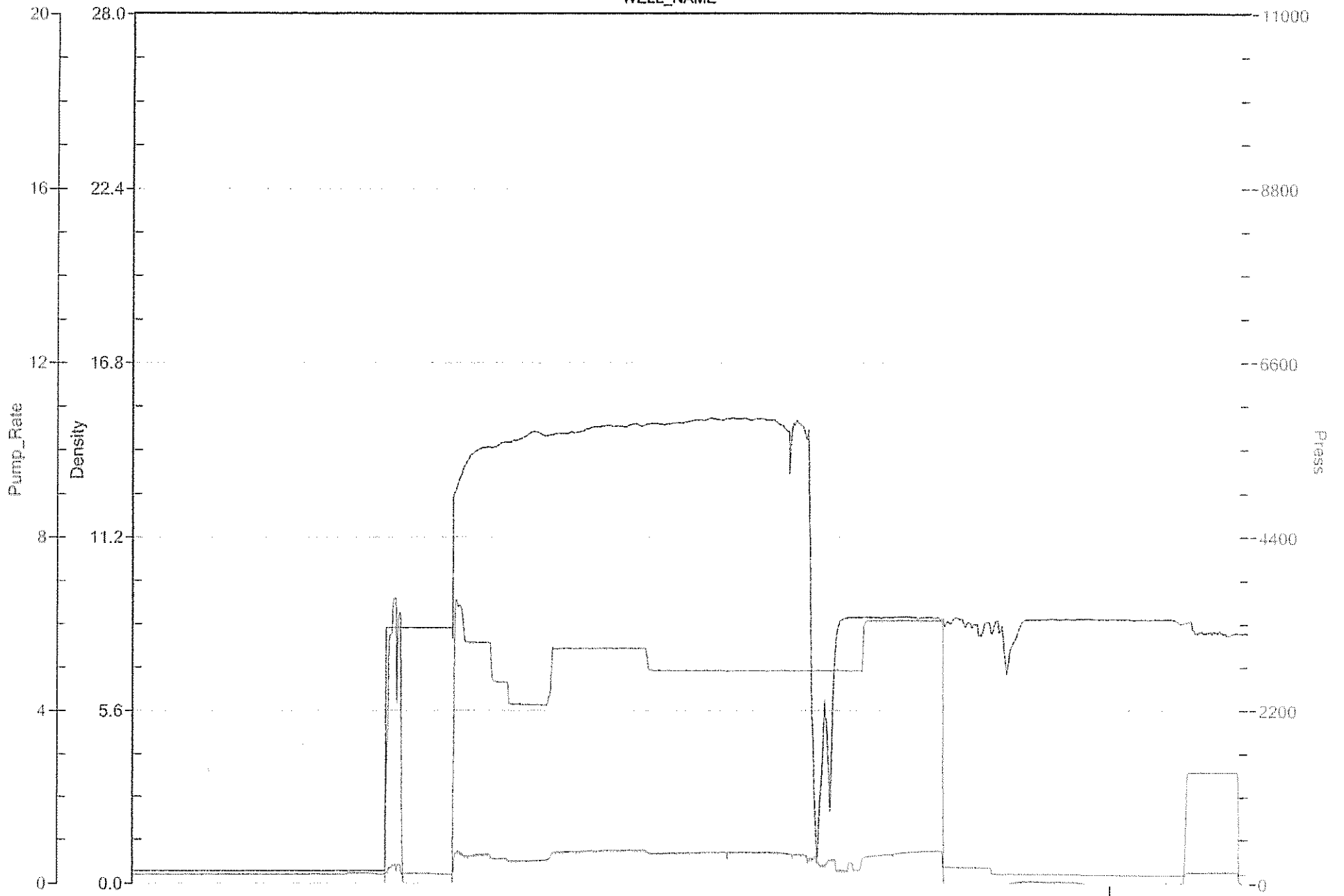
SUMMARY			
Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
5.5	5.5	300.0	293.3

PRODUCTS USED
205 sks Class A 3% CC 2% Gel .25 Flo

Treater: Dave Rotzloff

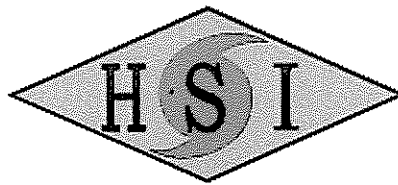
Customer: \_\_\_\_\_

CUSTOMER  
WELL\_NAME



Job Started On: 10/30/2018 @ 12:13:13 PM

291.6



**HURRICANE SERVICES INC**

Remit To: Hurricane Services, Inc.  
 250 N. Water, Suite 200  
 Wichita, KS 67202  
 316-303-9515

Customer:  
 LARIO OIL & GAS  
 BOX 1093  
 GARDEN CITY, KS 67846

AFE 18 - 130  
 APPROVED NOV 15 2018  
*AK*

Invoice Date: 11/9/2018  
 Invoice #: 0040938  
 Lease Name: Lang  
 Well #: 2-12 (New)  
 County: Wichita

Date/Description	HRS/QTY	Rate	Total
ICT1556 Production	0.000	0.000	0.00
Heavy Eq Mileage <i>I C C 22</i>	180.000	3.000	540.00
Light Eq Mileage	60.000	1.500	90.00
Ton Mileage	2,463.960	1.125	2,771.96
Cement Pump 230	1.000	562.500	562.50
H-CON	600.000	15.750	9,450.00
H-Bond	195.000	18.000	3,510.00
Cement plug container	1.000	281.250	281.25
5 1/2" Floatshoe-Flapper AFU	1.000	281.250	281.25
5 1/2" Turbolizers	16.000	60.000	960.00
Cement baskets 5 1/2"	1.000	225.000	225.00
5 1/2" 2 Stage DV Tool	1.000	3,750.000	3,750.00
Mud flush	500.000	1.388	693.75
KCL	5.000	22.500	112.50
Cement Data Acquisition	1.000	187.500	187.50
Threadlock Compound kit	1.000	90.000	90.00

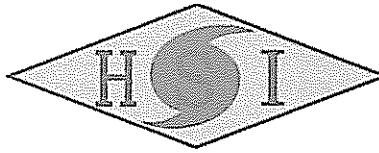
Acct	Expl	FILE	OK	PAY
GC				
KG				DR
NOV 19 2018				
PV				
OD	JS	KF	BB	SF

**Total** 23,505.71

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

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**WE APPRECIATE YOUR BUSINESS!**



CEMENT TREATMENT REPORT				
Customer:	Lario oil and gas	Well:	Lang 2-12	
City, State:	Scott city,KS	County:	Wichita	
Field Rep:	Mike Ketterling	S-T-R:	12-20S-35W	
Ticket:	ICT1566		Date:	11/9/2018
Service:	Cementing			

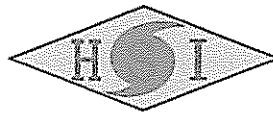
Downhole Information	
Hole Size:	7.875
Hole Depth:	5027
Casing Size:	5.5
Casing Depth:	5027
Tubing / Liner:	
Depth:	
Tool / Packer:	
Depth:	
Displacement:	119/55.3

Slurry	
Weight:	14.8/12 # / sk
Water / Sx:	6.61/15.46 gal / sk
Yield:	1.5/2.57 ft <sup>3</sup> / sk
Bbls / Ft:	0.0238
Depth:	5027 ft
Volume:	52/275 bbls
Excess:	225% %
Total Slurry:	52/275 bbls
Total Sacks:	795 sk

Cement Blend		
Product	%	#
Class A	100.0	
Gel		
CaCl		
Metso		
KolSeal		
PhenoSeal		
Salt		
Total		-

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
6:15 PM				Arrive on location	7:59				Close tool,checked tool tool closed
6:30 PM				Safety meeting					25 bbls cement returned on 2nd stage to surface
6:45 PM				Rig up equipment	8:15				Rig down
8:27 PM				Start running casing	9:00				Depart location
10:00 PM				DV tool at 2325' in hole					
				16 centrizers/1 basket ran					
11:44 PM				Rig circulates					
12:00 AM			700psi	ball goes through shoe					
1:44 AM	4.0	430.0	10.0	Water ahead					
1:46 AM	4.0	425.0	12.0	Pump mud flush					
1:53 AM	4.0	433.0	10.0	Water behind					
1:56 AM	5.5	460.0	52.0	Pump 195 sacks at 14.8ppg,1.5 yield					
2:05 AM				Wash pumps and lines					
2:06 AM				Drop shut off plug					
2:11 AM	4.7	200.0		Start displacement					
2:44 AM	2.0	1,130.0	119.1	Land plug,final lift was 770psi					
2:45 AM				Check floats/floats hold					
2:50 AM				Drop opening plug					
3:00 AM	1.0	830.0		Open up DV tool					
3:01 AM		320.0	10.0	Pump water					
3:11 AM				Rig circulates					
6:23 AM	3.0	200.0	10.0	Water ahead					
6:35 AM	3.0	20.0	22.9	Plug rat hole with 50 sacks					
6:44 AM	4.0	430.0	262.1	Pump 550 sacks at 12ppg,2.57 yield					
7:20 AM				Drop closing plug					
7:43 AM	4.0	340.0		Start displacement					
7:59 AM	2.0	1,300.0	55.3	Land plug, final lift 575psi					

CREW		UNIT		SUMMARY		
Cementer:	Glen Fisher		73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Paul Williams		230	3.43333 bpm	501.38 psi	553.44 bbls
Bulk #1:	Zach Vonlintel		165/254			
Bulk #2:	Lupe Martinez		180/256			



**HURRICANE SERVICES INC**

<b>Customer</b>	Lario Oil and Gas	<b>Lease &amp; Well #</b>	Lang #2-12	<b>Date</b>	11/9/2018
<b>Service District</b>	Oakley, KS	<b>County &amp; State</b>	Wichita, KS	<b>Legals 977/R</b>	12-20S-35W
<b>Job Type</b>	Production	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> NJ	<input type="checkbox"/> SWD	<b>Job #</b>
<b>Equipment #</b>	<b>Driver</b>	<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b>			
230	Paul	<input checked="" type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
165/254	Zach	<input type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
180/256	Lupe	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
73	Glen	<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
		<input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
<b>Comments</b>					
All chemicals delivered from thew Oakley,KS service center					

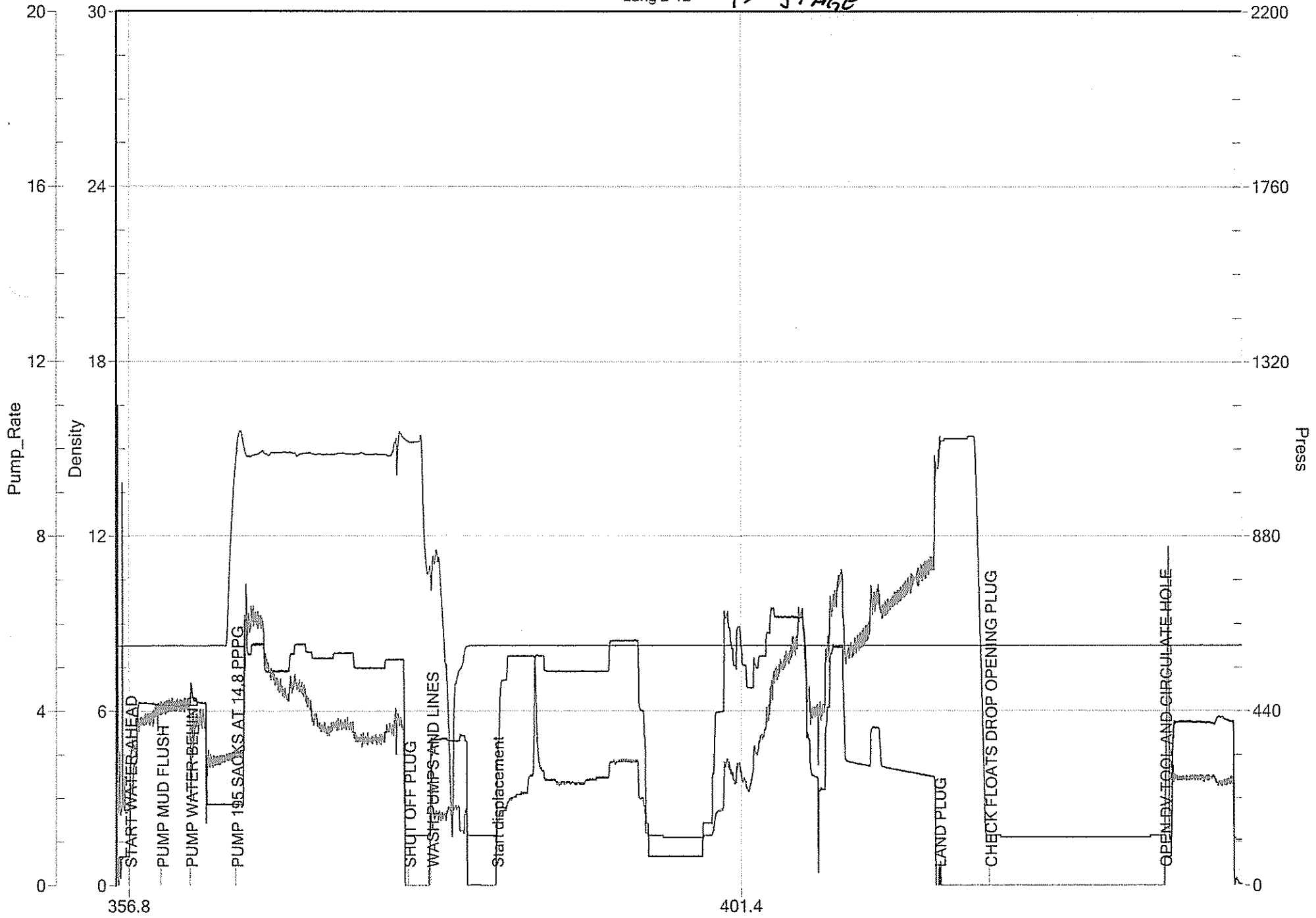
Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
M010	Heavy Equipment Mileage	mi	180.00	\$540.00
M015	Light Equipment Mileage	mi	60.00	\$90.00
M020	Ton Mileage	tm	2,463.95	\$2,771.96
C010	Cement Pump	ea	1.00	\$562.50
CP025	H-Con	sack	600.00	\$9,450.00
CP035	H-Bond	sack	195.00	\$3,510.00
C050	Cement Plug Container	job	1.00	\$281.25
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$281.25
FE135	5 1/2" Turbolizers	ea	16.00	\$960.00
FE130	5 1/2" Cement Basket	ea	1.00	\$225.00
FE155	5 1/2" DV Tool - 2 Stage	ea	1.00	\$3,750.00
CP170	Mud Flush	gal	500.00	\$693.75
AF055	Liquid KCL Substitute	gal	5.00	\$112.50
C035	Cement Data Acquisition	job	1.00	\$187.50
FE375	Thread Lock Compound Kits	ea	1.00	\$90.00

<b>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</b>		<b>Net:</b>	\$23,505.71
		<b>Total Taxable</b>	\$ -
		<b>Tax Rate:</b>	
<b>Based on this job, how likely is it you would recommend HSI to a colleague?</b>		<b>Sale Tax:</b>	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		<b>Total:</b>	\$ 23,505.71
<small>Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely</small>			
		<b>HSI Representative: Glen Fisher</b>	

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to effect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X \_\_\_\_\_ **CUSTOMER AUTHORIZATION SIGNATURE**

Lario oil and gas  
Lang 2-12 1<sup>ST</sup> STAGE



Lang oil and gas  
Lang 2-12 *2<sup>ND</sup> STAGE*

