



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1221589  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1221589

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Shimanek 1-18
Doc ID	1221589

All Electric Logs Run

MAI/MFE
MPD/MN
MML
MSS

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Shimanek 1-18
Doc ID	1221589

Tops

Name	Top	Datum
Heebner	4015	-783
Lansing	4068	-836
Stark Shale	4362	-1130
Hushpuckney	4412	-1180
Base KC	4501	-1269
Marmaton	4535	-1303
Pawnee	4636	-1404
Ft. Scott	4656	-1424
Johnson	4768	-1536
Morrow	4866	-1634
Basal Penn	4958	-1726
Mississippian	4974	-1742





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 145369  
Invoice Date: Aug 30, 2014  
Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361

<b>Bill To:</b>
Lario Oil & Gas Co. Lario Oil & Gas Co. P.O. Box 1093 Garden City, KS 67846

Customer ID	Field Ticket #	Payment Terms	
Lario	64187	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 30, 2014	9/29/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Shimaneck #1-18		
225.00	CEMENT MATERIALS	Class A Common	17.90	4,027.50
635.00	CEMENT MATERIALS	Chloride	1.10	698.50
237.56	CEMENT SERVICE	Cubic Feet Charge	2.48	589.15
544.61	CEMENT SERVICE	Ton Mileage Charge	2.75	1,497.68
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	110.00	110.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

*Handwritten signatures and stamps:*  
 A rectangular stamp with the date **SEP 10 2014** and a signature across it.  
 Other handwritten initials and marks are present.

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

**\$ 2,761.52**

ONLY IF PAID ON OR BEFORE  
**Sep 29, 2014**

Subtotal	9,315.08
Sales Tax	394.13
Total Invoice Amount	9,709.21
Payment/Credit Applied	
<b>TOTAL</b>	<b>9,709.21</b>

# ALLIED OIL & GAS SERVICES, LLC 064187

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dallas TX

DATE <u>8/30/14</u>	SEC. <u>18</u>	TWP. <u>19</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30 AM</u>	JOB FINISH <u>8:00 PM</u>
LEASE <u>Dimock</u>		WELL # <u>1-18</u>		LOCATION <u>Horietrol RD 205 S. mile 12.4</u>		COUNTY <u>Wichita</u>	STATE <u>KY</u>
OLD OR NEW (Circle one)							

CONTRACTOR Duke 4 OWNER Some

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>374</u>	CEMENT
CASING SIZE <u>8 5/8</u>	DEPTH <u>374</u>	AMOUNT ORDERED <u>225 370cc</u>
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT	
CEMENT LEFT IN CSG. <u>15'</u>		
PERFS.		
DISPLACEMENT <u>22.84</u>		

COMMON <u>225</u>	@ <u>17.90</u>	<u>4027.50</u>
POZMIX	@	
GEL	@	
CHLORIDE <u>635</u>	@ <u>1.10</u>	<u>698.50</u>
ASC	@	
<u>Material Total</u>		<u>4726.00</u>
<u>(1417.80 / 31%)</u>		
HANDLING <u>237.50</u>		@ <u>2.42</u>
MILEAGE <u>22.700/mile</u>		<u>559.40</u>
		<u>1497.00</u>

EQUIPMENT

PUMP TRUCK # <u>423-281</u>	CEMENTER <u>Alan Egan</u>
BULK TRUCK # <u>891</u>	HELPER <u>Kevin Egan</u>
BULK TRUCK #	DRIVER <u>Jason (705)</u>
BULK TRUCK #	DRIVER

**REMARKS:**

Low Cost, Concrete, Mix Cement, Surface Cement

Shut-in

Cement Add Concrete

Thrup 4  
Alan Kevin Egan

CHARGE TO: Lario Oil & Gas

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>1512.25</u>
EXTRA FOOTAGE	@	
MILEAGE <u>50</u>	@	<u>385.00</u>
MANIFOLD <u>Head</u>	@	<u>205.00</u>
<u>Lite Vehicle</u>	@	<u>220.00</u>
	@	

(1343.70 / 35%) TOTAL 4,479.09

**PLUG & FLOAT EQUIPMENT**

<u>8 1/2 wood plug</u>	@	<u>110.00</u>
	@	
	@	
	@	
	@	

(0%) TOTAL 110.00

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rich Wheeler

SIGNATURE Rich Wheeler

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 9,315.09

DISCOUNT 2,761.52 (30%) IF PAID IN 30 DAYS

Bid 6,553.56 Net.



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 145649  
Invoice Date: Sep 9, 2014  
Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361

<b>Bill To:</b>
Lario Oil & Gas Co. Lario Oil & Gas Co. P.O. Box 1093 Garden City, KS 67846

Customer ID	Field Ticket #	Payment Terms	
Lario	64194	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Sep 9, 2014	10/9/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Shimane# #1-18		
450.00	CEMENT MATERIALS	Light Weight 65/35/6% Gel with Flo Seal	19.88	8,946.00
171.00	CEMENT MATERIALS	ASC	23.50	4,018.50
855.00	CEMENT MATERIALS	Gilsonite	0.98	837.90
114.00	CEMENT MATERIALS	Flo Seal	2.97	338.58
48.00	CEMENT MATERIALS	FL-160	18.90	907.20
24.00	CEMENT MATERIALS	Defoamer	3.50	84.00
12.00	CEMENT MATERIALS	WFR-II	25.00	300.00
717.75	CEMENT SERVICE	Cubic Feet Charge	2.48	1,780.02
1,523.50	CEMENT SERVICE	Ton Mileage Charge	2.75	4,189.63
1.00	CEMENT SERVICE	Production -- Bottom Stage	3,099.25	3,099.25
1.00	CEMENT SERVICE	Production -- Top Stage	2,406.25	2,406.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	EQUIPMENT SALES	5-1/2 D V Tool	5,335.00	5,335.00
1.00	EQUIPMENT SALES	5-1/2 AFU Float Shoe	545.00	545.00
1.00	EQUIPMENT SALES	5-1/2 Latch Down	660.00	660.00
16.00	EQUIPMENT SALES	5-1/2 Centralizer	57.00	912.00
1.00	EQUIPMENT SALES	5-1/2 Basket	395.00	395.00
1.00	CEMENT SUPERVISOR	Alan Ryan		

*Drilling  
AFE-14-206  
CR 9/22/14*

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 10,690.08

ONLY IF PAID ON OR BEFORE  
Oct 9, 2014

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
<b>TOTAL</b>	<b>Continued</b>





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 145649  
Invoice Date: Sep 9, 2014  
Page: 2

Voice: (817) 546-7282  
Fax: (817) 246-3361

<b>Bill To:</b>
Lario Oil & Gas Co. Lario Oil & Gas Co. P.O. Box 1093 Garden City, KS 67846

Customer ID	Field Ticket #	Payment Terms	
Lario	64194	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Sep 9, 2014	10/9/14

Quantity	Item	Description	Unit Price	Amount
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	George Grant		

Handwritten initials: *KE*  
Stamp: SEP 24 2014  
Handwritten signature: *[Signature]*

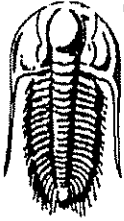
ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 10,690.08

ONLY IF PAID ON OR BEFORE  
Oct 9, 2014

Subtotal	35,634.33
Sales Tax	1,897.25
Total Invoice Amount	37,531.58
Payment/Credit Applied	
<b>TOTAL</b>	<b>37,531.58</b>





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Lario oil & Gas Company

301 S Market  
Wichita Ks, 67202

ATTN: Mac Armstorg

**18-19s-35w Wichita County**

**Shimanek # 1-18**

Job Ticket: 57460

DST#: 1

Test Start: 2014.09.04 @ 15:45:00

### GENERAL INFORMATION:

Formation: **Lansing I**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 18:56:45

Time Test Ended: 00:24:45

Interval: **4292.00 ft (KB) To 4314.00 ft (KB) (TVD)**

Total Depth: **4314.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Justin Harris**

Unit No: **65**

Reference Elevations: **3232.00 ft (KB)**

**3221.00 ft (CF)**

KB to GR/CF: **11.00 ft**

**Serial #: 8846**

**Inside**

Press@RunDepth: **37.37 psig @ 4309.00 ft (KB)**

Start Date: **2014.09.04**

End Date:

**2014.09.05**

Capacity: **8000.00 psig**

Last Calib.: **2014.09.05**

Start Time: **15:45:15**

End Time:

**00:24:45**

Time On Btm: **2014.09.04 @ 18:56:30**

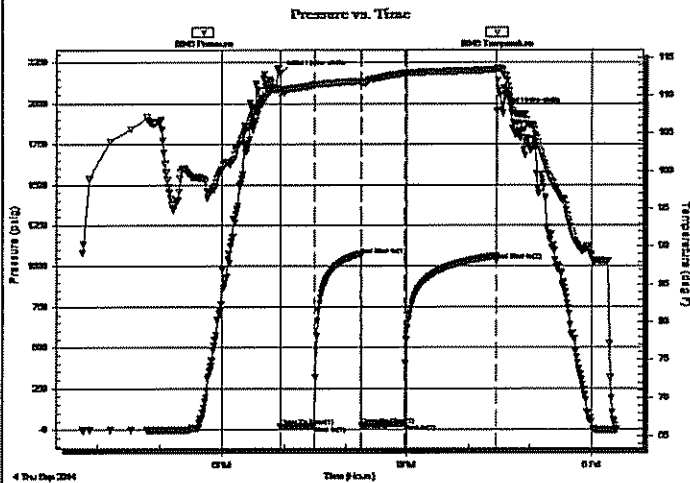
Time Off Btm: **2014.09.04 @ 22:27:15**

TEST COMMENT: **30:Weak surface blow build to 1/2".**

**45: No Return.**

**45: No Blow .**

**90: No Return.**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.36	110.91	Initial Hydro-static
1	17.59	110.09	Open To Flow (1)
33	24.10	111.36	Shut-In(1)
79	1065.65	111.88	End Shut-In(1)
79	26.84	111.44	Open To Flow (2)
121	37.37	112.88	Shut-In(2)
211	1034.44	113.36	End Shut-In(2)
211	1950.26	113.63	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bb)
35.00	mud	

### Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Lario oil & Gas Company

18-19s-35w Wichita County

301 S Market  
Wichita Ks, 67202

Shimanek # 1-18

Job Ticket: 57460

DST#: 1

ATTN: Mac Armstoring

Test Start: 2014.09.04 @ 15:45:00

### 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: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
35.00	mud	

Total Length: 35.00 ft

Total Volume: bbf

Num Fluid Samples: 0

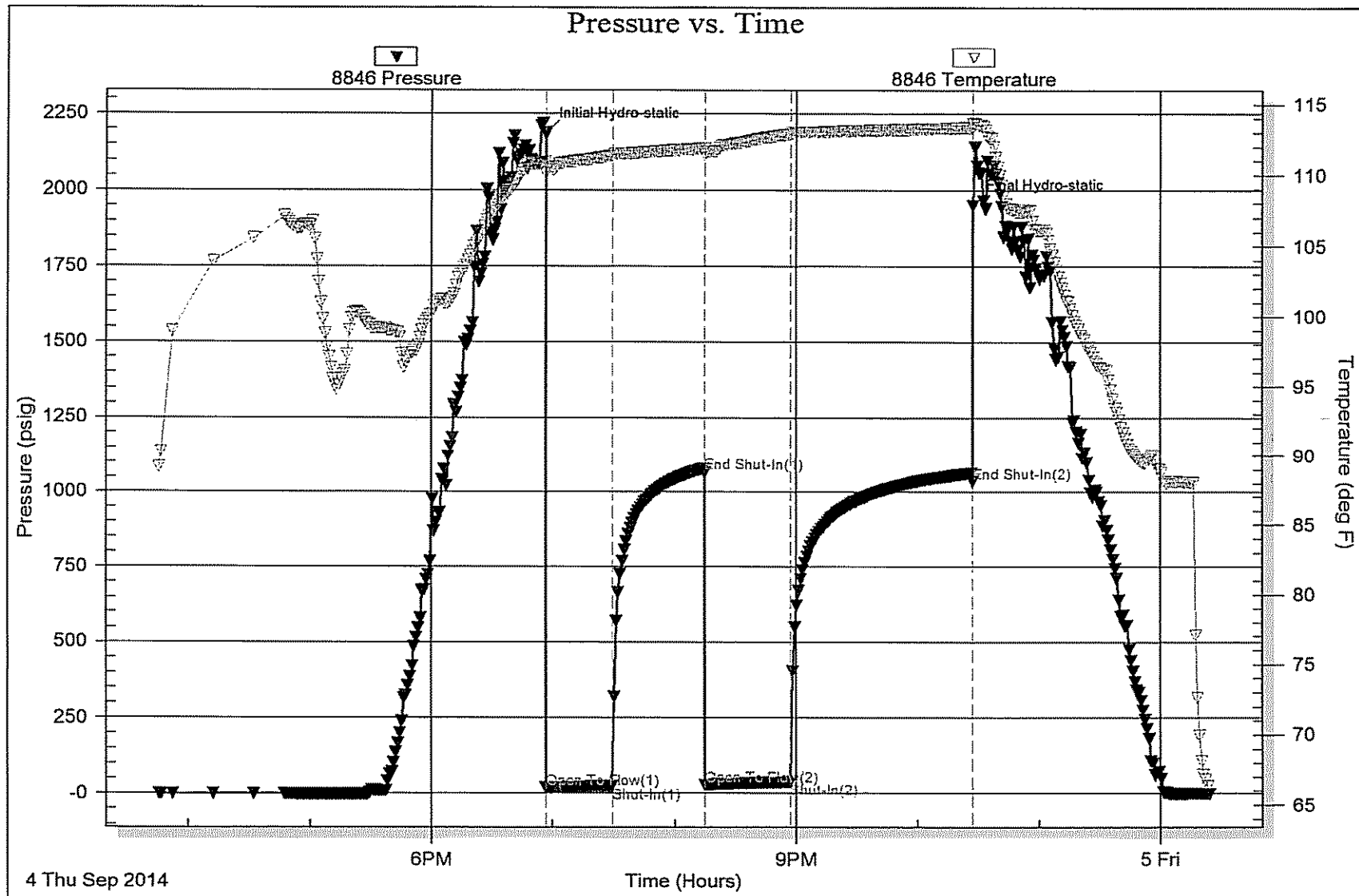
Num Gas Bombs: 0

Serial #:

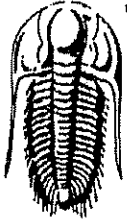
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario oil & Gas Company

**18-19s-35w Wichita County**

301 S Market  
Wichita Ks, 67202

**Shimanek # 1-18**

Job Ticket: 59151

DST#: 2

ATTN: Mac Armstorg

Test Start: 2014.09.05 @ 13:13:15

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.38 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
20.00	mud with oil on top of tool 100%r	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbf

Num Fluid Samples: 0

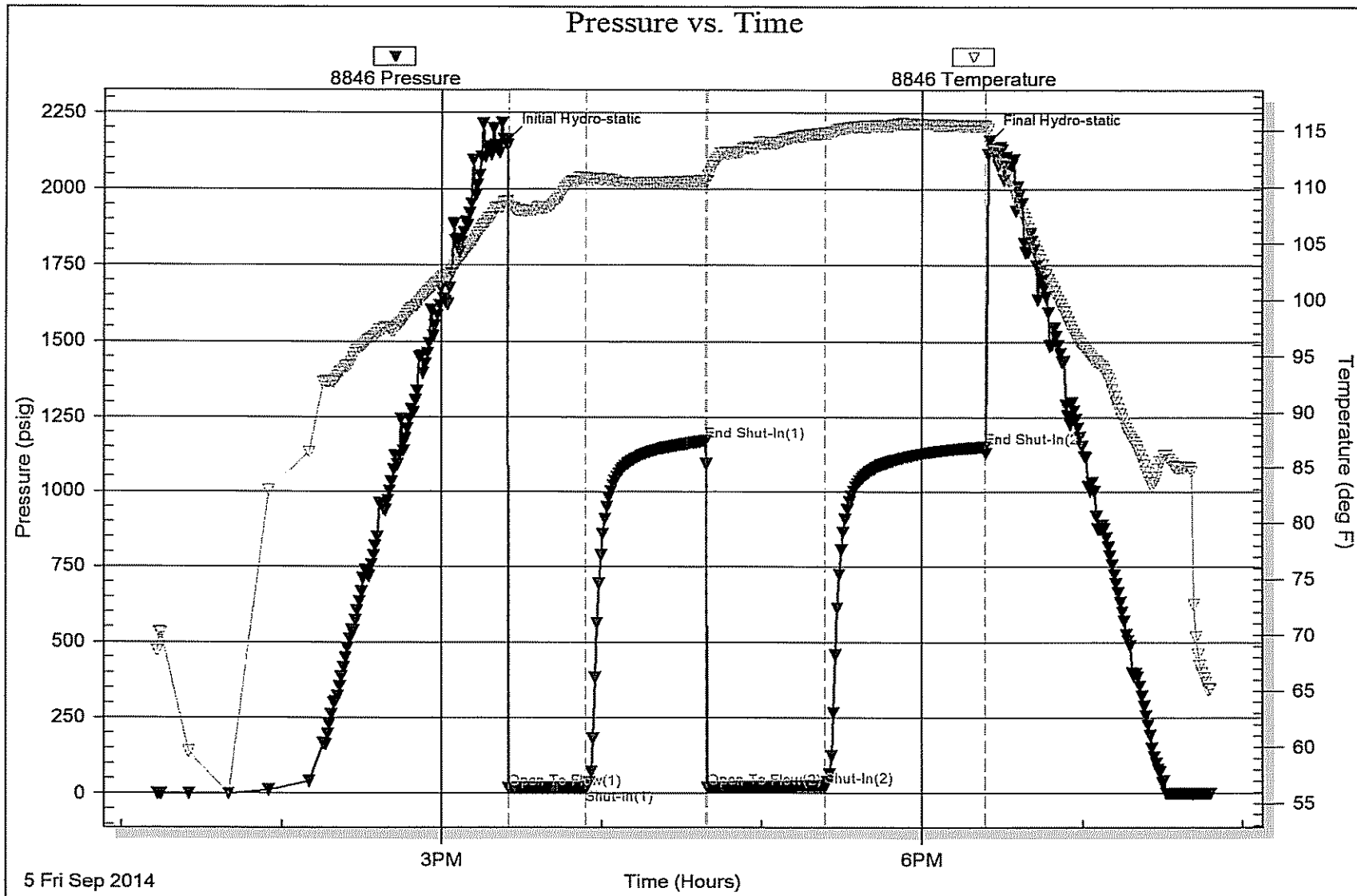
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Lario oil & Gas Company

18-19s-35w Wichita County

301 S Market  
Wichita Ks, 67202

ShimaneK # 1-18

Job Ticket: 59152      DST#: 3

ATTN: Mac Armstorg

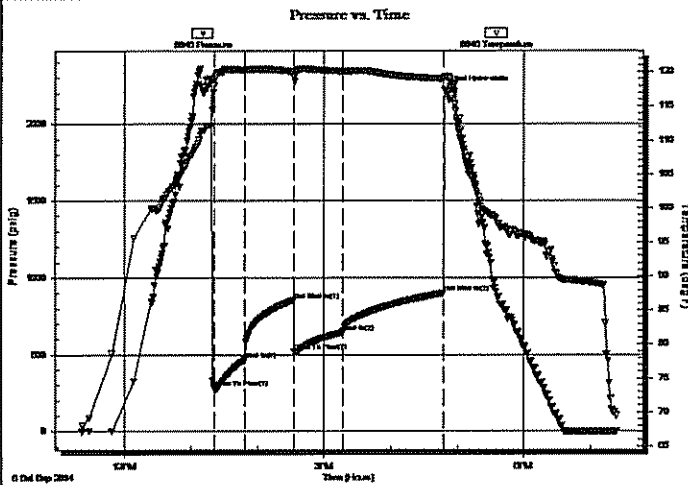
Test Start: 2014.09.06 @ 11:22:15

### GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 13:20:45  
 Time Test Ended: 19:24:00  
 Interval: 4527.00 ft (KB) To 4584.00 ft (KB) (TVD)  
 Total Depth: 4584.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 65  
 Reference Elevations: 3232.00 ft (KB)  
 3221.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8846**      Inside  
 Press@RunDepth: 644.33 psig @ 4530.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.09.06      End Date: 2014.09.06      Last Calib.: 2014.09.06  
 Start Time: 11:22:15      End Time: 19:24:00      Time On Btm: 2014.09.06 @ 13:18:15  
 Time Off Btm: 2014.09.06 @ 16:48:15

TEST COMMENT: IF:BOB in 1 min.  
 IS:BOB in 18 min.  
 FF:BOB instantly  
 FS:BOB in 35 min.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2273.06	112.17	Initial Hydro-static
3	283.65	118.04	Open To Flow (1)
30	464.84	120.34	Shut-in(1)
74	855.17	120.01	End Shut-in(1)
75	522.75	119.20	Open To Flow (2)
119	644.33	120.08	Shut-in(2)
209	899.65	118.99	End Shut-in(2)
210	2220.14	119.31	Final Hydro-static

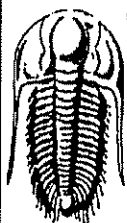
### Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 1332	0.00
402.00	mco 5% m 25% g 70% o	5.64
992.00	mco 5% m 5% g 90% o	13.92
248.00	gcmo 10% g 20% m 70% o	3.48

\* Recovery from multiple tests

### Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Lario oil & Gas Company

18-19s-35w Wichita County

301 S Market  
Wichita Ks, 67202

Shimanek # 1-18

Job Ticket: 59152                      DST#: 3

ATTN: Mac Armstorg

Test Start: 2014.09.06 @ 11:22:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 30 deg API

Mud Weight: 10.00 lb/gal

Cushion Length: ft

Water Salinity: 0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 10.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP= 1332	0.000
402.00	mcgo 5% m 25% g 70% o	5.639
992.00	mcgo 5% m 5% g 90% o	13.915
248.00	gcmo 10% g 20% m 70% o	3.479

Total Length: 1642.00 ft                      Total Volume: 23.033 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 31@61 corrected to 30 @ 60

