



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1104321  
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: \_\_\_\_\_



1104321

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
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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				

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Ottley 3-4
Doc ID	1104321

Tops

Name	Top	Datum
Heebner	3948	-1004
Lansing	3990	-1046
Stark Shale	4218	-1274
Hushpuckney	4252	-1308
Base KC	4286	-1342
Marmaton	4344	-1400
Pwnee	4419	-1475
Ft. Scott	4444	-1500
Johnson	4543	-1599
Morrow	4560	-1616
Mississippian	4584	-1640

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 18, 2013

Jay Schweikert  
Lario Oil & Gas Company  
301 S MARKET ST  
WICHITA, KS 67202-3805

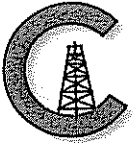
Re: ACO1  
API 15-063-22059-00-00  
Ottley 3-4  
NW/4 Sec.04-13S-31W  
Gove County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Jay Schweikert



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

MAIN OFFICE  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE Invoice # 255165

=====

Invoice Date: 12/10/2012      Terms: 15/15/30,n/30 Page 1

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LARIO OIL & GAS  
P.O. BOX 1093  
GARDEN CITY KS 637846  
(316)265-5611

OTTLEY 3-4      *drilling AFE 12-330*  
39213              *12-17-12 LR*  
4-13-31  
12-07-2012  
KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	165.00	17.6500	2912.25
1102	CALCIUM CHLORIDE (50#)	465.00	.8900	413.85
1118B	PREMIUM GEL / BENTONITE	310.00	.2500	77.50
				<b>Total</b>
Sublet Performed	Description			Total
9996-130	CEMENT MATERIAL DISCOUNT			-510.54
9995-130	CEMENT EQUIPMENT DISCOUNT			-231.75
				<b>Total</b>
	Description	Hours	Unit Price	Total
463	CEMENT PUMP (SURFACE)	1.00	1085.00	1085.00
463	EQUIPMENT MILEAGE (ONE WAY)	10.00	5.00	50.00
693	MIN. BULK DELIVERY	1.00	410.00	410.00

*ad*  
*LC*

Amount Due 5222.59 if paid after 01/09/2013

=====			
Parts:	3403.60	Freight:	.00
Labor:	.00	Misc:	.00
Sublt:	-742.29	Supplies:	.00
		Tax:	232.89 AR
		Total:	4439.20
		Change:	.00
=====			

Signed \_\_\_\_\_ Date \_\_\_\_\_





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 134123  
Invoice Date: Dec 17, 2012  
Page: 1

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

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

*drilling AFE 12-330  
1-3-2013*



Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Lario	Ottley #3-4	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Dec 17, 2012	1/16/13

Quantity	Item	Description	Unit Price	Amount
3.00	MAT	Gel - No charge		
160.00	MAT	ASC	20.90	3,344.00
450.00	MAT	Lightweight	16.50	7,425.00
16.00	MAT	Salt - No Charge		
800.00	MAT	Gilsonite	0.98	784.00
45.00	MAT	FI-160	18.90	850.50
22.00	MAT	Defoamer	9.80	215.60
12.00	MAT	Super Flush	58.70	704.40
737.22	SER	Cubic Feet	2.48	1,828.30
616.59	SER	Ton Mileage	2.60	1,603.14
1.00	SER	Production -- Bottom Stage	2,765.75	2,765.75
1.00	SER	Production -- Top Stage	2,406.25	2,406.25
20.00	SER	Pump Truck Mileage	7.70	154.00
1.00	SER	Manifold Head Rental	275.00	275.00
20.00	SER	Light Vehicle Mileage	4.40	88.00
1.00	EQP	4.5 AFU Float Shoe	382.59	382.59
1.00	EQP	4.5 Latch Down Plug Assembly	272.61	272.61
1.00	EQP	4.5 Basket	394.21	394.21
1.00	EQP	4.5 D V Tool	4,831.60	4,831.60
9.00	EQP	4.5 Centralizer	56.16	505.44
1.00	CEMENTER	Andrew Forslund		

*all xc*

*all xc*

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

\$ *See next*

ONLY IF PAID ON OR BEFORE  
Jan 11, 2013

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



PO Box 93999  
 Southlake, TX 76092

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

# INVOICE

Invoice Number: 134123  
 Invoice Date: Dec 17, 2012  
 Page: 2



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Lario	Ottley #3-4	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Dec 17, 2012	1/16/13

Quantity	Item	Description	Unit Price	Amount
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	D J Gray		

Subtotal	28,830.39
Sales Tax	1,586.65
Total Invoice Amount	30,417.04
Payment/Credit Applied	
<b>TOTAL</b>	<b>30,417.04</b>

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

**\$ 9,802.33**

ONLY IF PAID ON OR BEFORE

**Jan 11, 2013**



# ALLIED OIL & GAS SERVICES, LLC 060091

Federal Tax I.D. # 20-8661476

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

SERVICE POINT:

DATE <u>12-12-12</u>	SEC <u>4</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30 8:00</u>	JOB FINISH <u>5:00 9:00pm</u>
BASE <u>Oakley</u>	WELL # <u>3-4</u>	LOCATION <u>Oakley 115 4E 125</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				E into		1.07 8.05	

CONTRACTOR Duke 4

TYPE OF JOB Production (2 stage)

TOLE SIZE 2 7/8 T.D. 4660'

ASING SIZE 4 1/2 DEPTH 4645'

UBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DV DEPTH 2454'

RES. MAX MINIMUM

SEAS. LINE SHOE JOINT 20.83

CEMENT LEFT IN CSG. 20.83

TERFS.

DISPLACEMENT 2.3 500L

OWNER same

CEMENT

AMOUNT ORDERED 160 sks ASC 5th Wilsonite

100 sks 2nd grade 18500 Defcon

400 sks 2nd grade 12000 Super Flush

COMMON @

POZMIX @

GBL 3 sks @ N/C

CHLORIDE @

ASC 160 sks @ 20.90 3344.00

Lite 400 sks @ 16.50 2425.00

soft 16 sks @ N/C

Wilsonite 800# @ .98 284.00

FL-160 45# @ 18.90 850.50

Defcon 22# @ 9.80 215.60

Super Flush 1200L @ 58.70 204.40

HANDLING 737.20 @ 2.48 1828.30

MILEAGE 210 Trip/mile 30.82 min 1603.14

TOTAL 16254.94

EQUIPMENT

PUMP TRUCK CEMENTER Andrew 1

HELPER Dave 2

BULK TRUCK DRIVER D.T. 3

BULK TRUCK DRIVER

REMARKS:

Ran 1200L Super Flush, mix 160 sks ASC  
wash pump and line clean, displace  
dug 800# LIFT pressure, 1200# land  
plug, ran DV tool 1000#. Plug set  
hole 30 sks, mix 400 sks down 4 1/2  
washing, wash pump and line clean before  
dug, displace 850# LIFT, 1600# land  
plug, tool closed, cement OCB circled

Thank you

CHARGE TO: Land Oil & Gas

STREET P.O. Box 109.3

CITY Garden STATE KS ZIP 67846

SERVICE

DEPTH OF JOB 4645'

PUMP TRUCK CHARGE 2715.25

EXTRA FOOTAGE @ 7.20 290.25

MILEAGE 210 miles @ 2.70 567.00

MANIFOLD head @ 225.00

Lite vehicle @ 4.40 88.00

TOTAL 5689.00

PLUG & FLOAT EQUIPMENT

4 1/2

1 1/2" float shoe @ 382.59

1 Latch down Plug Assy @ 379.61

1 Basket @ 394.21

1 DV Tool @ 483.10

9 centralizers @ 56.16 505.44

TOTAL 1386.45

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 Curtis D. Keil

SIGNATURE Curtis D. Keil

SALES TAX (if Any) 1586.65

TOTAL CHARGES 28830.39

DISCOUNT 9802.33 IF PAID IN 30 DAYS

19028.06

(Great Job) Bid 3490



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co.

4-13s-31w-Gove KS

301 S Market ST.  
Wichita KS 67202

Ottley 3-4

Job Ticket: 51403

DST#: 1

ATTN: Steve Murphy

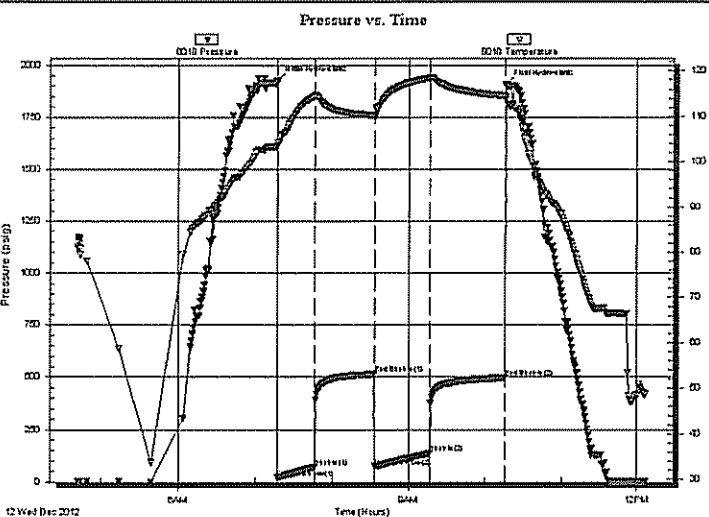
Test Start: 2012.12.12 @ 04:41:53

## GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:17:23  
 Time Test Ended: 12:06:32  
 Interval: **3960.00 ft (KB) To 3986.00 ft (KB) (TVD)**  
 Total Depth: **3986.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Tate Lang**  
 Unit No: **62**  
 Reference Elevations: **2947.00 ft (KB)**  
**2938.00 ft (CF)**  
 KB to GR/CF: **9.00 ft**

Serial #: **8018** Inside  
 Press@RunDepth: **136.65 psig @ 3951.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2012.12.12** End Date: **2012.12.12** Last Calib.: **2012.12.12**  
 Start Time: **04:41:55** End Time: **12:06:33** Time On Btm: **2012.12.12 @ 07:17:13**  
 Time Off Btm: **2012.12.12 @ 10:16:02**

TEST COMMENT: IF-B.O.B. In 25 mis.  
 IS-Dead no return.  
 FF-Safety chain caught ear on head unscrewed from D.P.- Strong surface blow built to 6 1/4 in.  
 FSI-Dead no reutrn



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1924.63	104.17	Initial Hydro-static
1	19.59	103.33	Open To Flow (1)
29	70.70	114.55	Shut-In(1)
76	515.11	110.23	End Shut-In(1)
77	73.04	109.85	Open To Flow (2)
120	136.65	118.41	Shut-In(2)
179	497.13	114.52	End Shut-In(2)
179	1907.10	114.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
258.00	5%M 95%W	3.62

## Gas Rates

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



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

4-13s-31w-Gove KS

301 S Market ST.  
Wichita KS 67202

Ottley 3-4

Job Ticket: 51403

DST#: 1

ATTN: Steve Murphy

Test Start: 2012.12.12 @ 04:41:53

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 6.79 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
258.00	5%M 95%W	3.619

Total Length: 258.00 ft      Total Volume: 3.619 bbl

Num Fluid Samples: 0

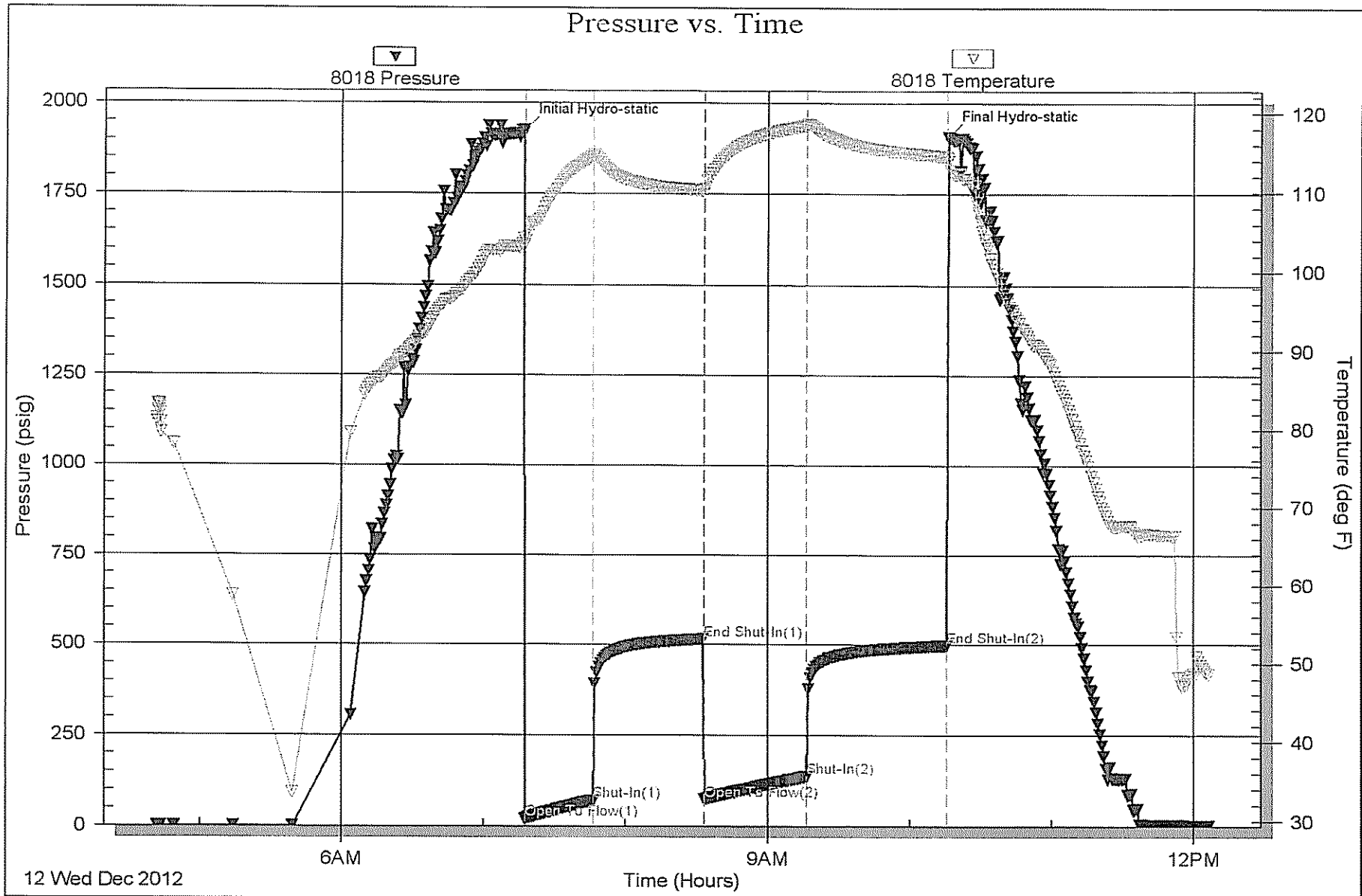
Num Gas Bombs: 0

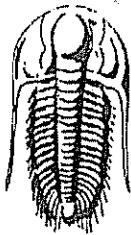
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW .441 @ 40 F = 35000





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co.

4-13s-31w-Gove KS

301 S Market ST.  
Wichita KS 67202

Ottley 3-4

Job Ticket: 51404

DST#: 2

ATTN: Steve Murphy

Test Start: 2012.12.13 @ 02:31:53

## GENERAL INFORMATION:

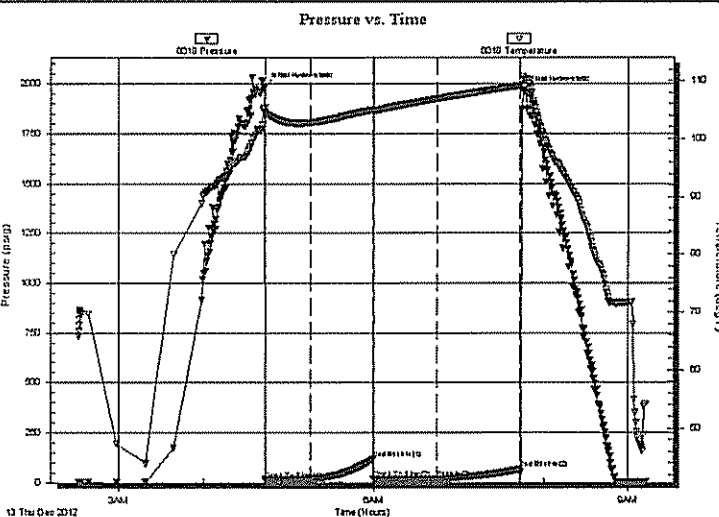
Formation: LCK "D"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:43:13  
 Time Test Ended: 09:12:13  
 Interval: 4060.00 ft (KB) To 4078.00 ft (KB) (TVD)  
 Total Depth: 4078.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang  
 Unit No: 62  
 Reference Elevations: 2944.00 ft (KB)  
 2935.00 ft (CF)  
 KB to GR/CF: 9.00 ft

Serial #: 8018

Inside

Press@RunDepth: 18.98 psig @ 4061.00 ft (KB)  
 Start Date: 2012.12.13 End Date: 2012.12.13  
 Start Time: 02:31:55 End Time: 09:12:13  
 Capacity: 8000.00 psig  
 Last Calib.: 2012.12.13  
 Time On Btm: 2012.12.13 @ 04:42:53  
 Time Off Btm: 2012.12.13 @ 07:44:43

TEST COMMENT: IF-Weak surface blow built to 1/4 in.  
 IS-Dead no return  
 FF-Dead no blow.  
 FS-Dead no return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1986.56	105.40	Initial Hydro-static
1	15.88	104.63	Open To Flow (1)
33	18.17	102.82	Shut-In(1)
77	118.42	105.05	End Shut-In(1)
77	18.36	104.95	Open To Flow (2)
122	18.98	106.94	Shut-In(2)
181	68.51	109.20	End Shut-In(2)
182	1966.74	110.78	Final Hydro-static

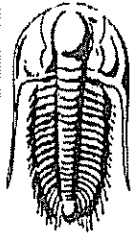
## Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M w ith oil spots	0.01

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

4-13s-31w-Gove KS

301 S Market ST.  
Wichita KS 67202

Ottley 3-4

Job Ticket: 51404

DST#: 2

ATTN: Steve Murphy

Test Start: 2012.12.13 @ 02:31:53

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100%M with oil spots	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

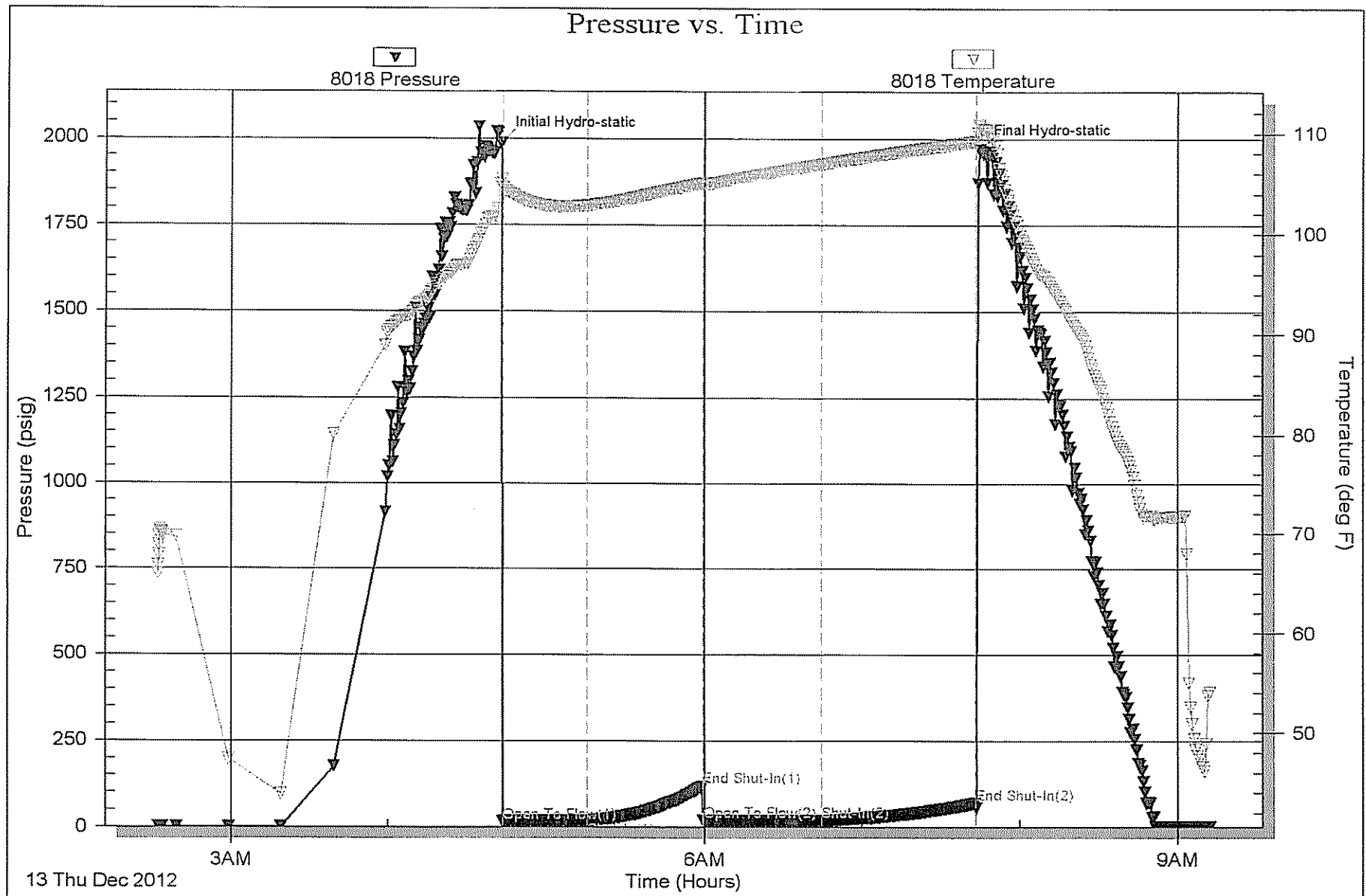
Num Gas Bombs: 0

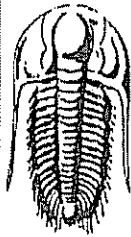
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co.

4-13s-31w-Gove KS

301 S Market ST.  
Wichita KS 67202

Ottley 3-4

Job Ticket: 51405

DST#: 3

ATTN: Steve Murphy

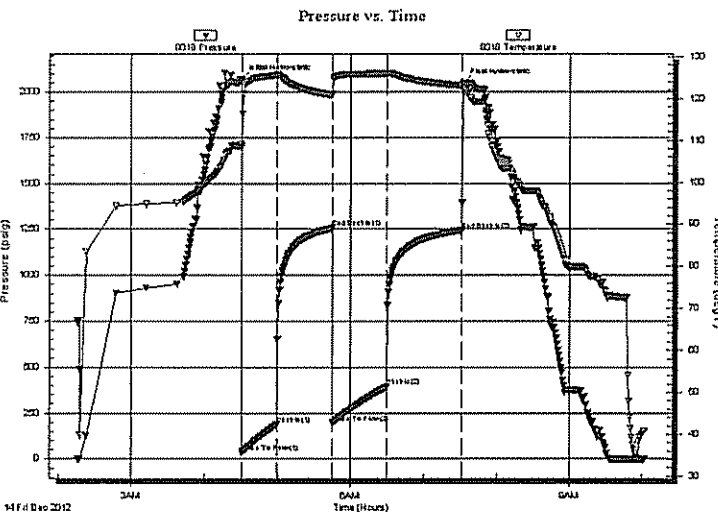
Test Start: 2012.12.14 @ 02:15:29

## GENERAL INFORMATION:

Formation: LKC "J"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:30:29  
 Time Test Ended: 10:02:29  
 Interval: 4194.00 ft (KB) To 4220.00 ft (KB) (TVD)  
 Total Depth: 4220.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang  
 Unit No: 62  
 Reference Elevations: 2944.00 ft (KB)  
 2935.00 ft (CF)  
 KB to GR/CF: 9.00 ft

Serial #: 8018 Inside  
 Press@RunDepth: 392.90 psig @ 4195.00 ft (KB)  
 Start Date: 2012.12.14 End Date: 2012.12.14  
 Start Time: 02:15:31 End Time: 10:02:29  
 Capacity: 8000.00 psig  
 Last Calib.: 2012.12.14  
 Time On Btm: 2012.12.14 @ 04:30:19  
 Time Off Btm: 2012.12.14 @ 07:31:59

TEST COMMENT: IF-B.O.B. In 5 mins.  
 ISI-Weak surface return blow died in 35 mins.  
 FF-B.O.B. In 8 mins.  
 FSI-Dead no return blow.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2069.68	109.19	Initial Hydro-static
1	35.13	108.21	Open To Flow (1)
30	187.99	125.63	Shut-In(1)
75	1255.53	120.88	End Shut-In(1)
75	195.60	121.02	Open To Flow (2)
119	392.90	126.06	Shut-In(2)
182	1243.84	123.09	End Shut-In(2)
182	2049.25	122.33	Final Hydro-static

## Recovery

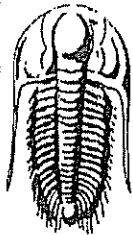
Length (ft)	Description	Volume (bbl)
124.00	2%G 10%M 88%W	1.74
702.00	2%G 3%M 95%W	9.85
0.00	62' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

4-13s-31w-Gove KS

301 S Market ST.  
Wichita KS 67202

Ottley 3-4

Job Ticket: 51405

DST#: 3

ATTN: Steve Murphy

Test Start: 2012.12.14 @ 02:15:29

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 6.80 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	2%G 10%M 88%W	1.739
702.00	2%G 3%M 95%W	9.847
0.00	62' GIP	0.000

Total Length: 826.00 ft      Total Volume: 11.586 bbl

Num Fluid Samples: 0

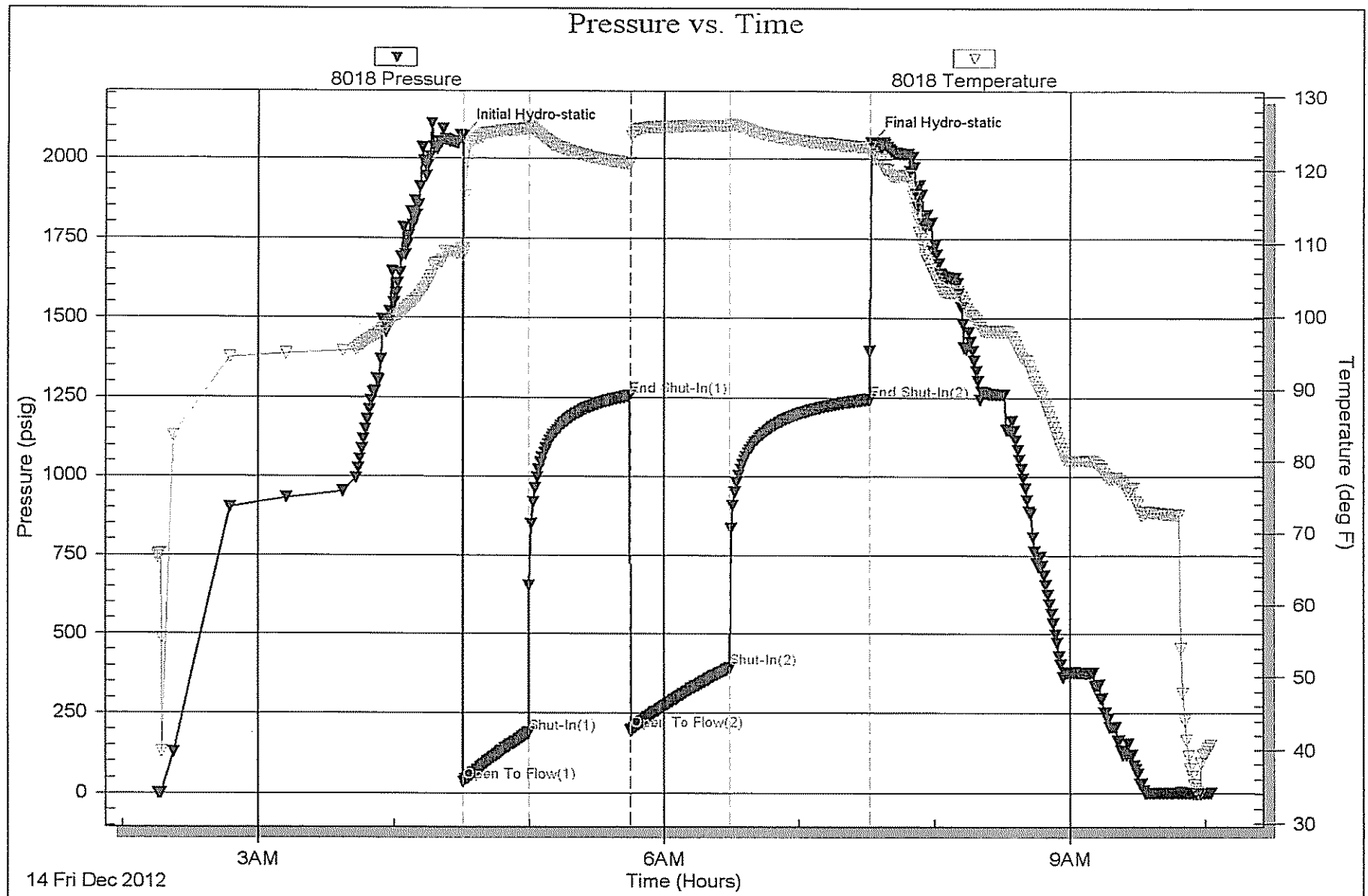
Num Gas Bombs: 0

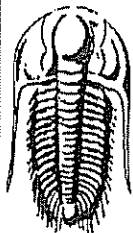
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW .320 @ 40F= 39000





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co.

4-13s-31w-Gove KS

301 S Market ST.  
Wichita KS 67202

Ottley 3-4

Job Ticket: 51406

DST#: 4

ATTN: Steve Murphy

Test Start: 2012.12.15 @ 21:12:20

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:29:40

Time Test Ended: 04:37:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 62

Interval: 4496.00 ft (KB) To 4564.00 ft (KB) (TVD)

Total Depth: 4564.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2944.00 ft (KB)

2935.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8018

Inside

Press@RunDepth: 36.45 psig @ 4498.00 ft (KB)

Start Date: 2012.12.15

End Date: 2012.12.16

Start Time: 21:12:22

End Time: 04:38:00

Capacity: 8000.00 psig

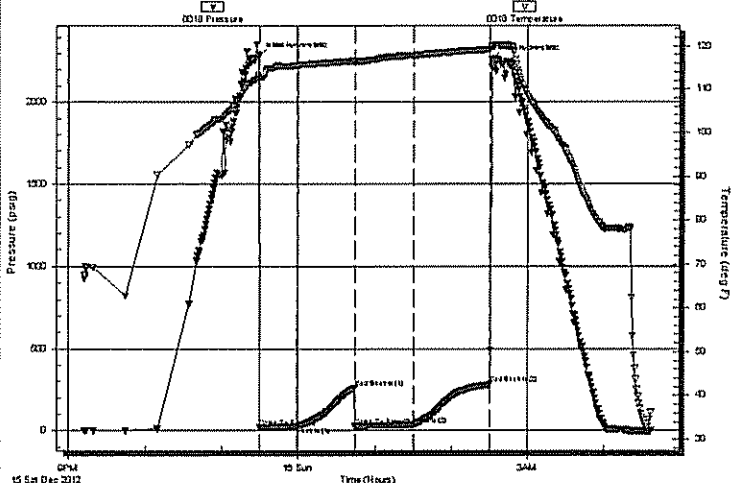
Last Calib.: 2012.12.16

Time On Btm: 2012.12.15 @ 23:29:20

Time Off Btm: 2012.12.16 @ 02:31:50

TEST COMMENT: IF-Fair surface blow built to 4in.  
IS-Dead no return blow.  
FF-B.O.B. in 45 mins.  
FSI-Dead no return blow.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2283.58	113.26	Initial Hydro-static
1	20.36	112.52	Open To Flow (1)
30	26.62	115.60	Shut-In(1)
75	257.75	116.63	End Shut-In(1)
76	24.89	116.48	Open To Flow (2)
121	36.45	117.91	Shut-In(2)
181	281.06	119.22	End Shut-In(2)
183	2262.42	119.88	Final Hydro-static

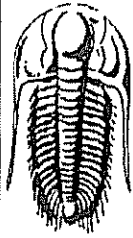
## Recovery

Length (ft)	Description	Volume (bbl)
52.00	5%G 35%O 60%M	0.73
0.00	72 G.I.P.	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

4-13s-31w-Gove KS

301 S Market ST.  
Wichita KS 67202

Ottley 3-4

Job Ticket: 51406

DST#: 4

ATTN: Steve Murphy

Test Start: 2012.12.15 @ 21:12:20

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
52.00	5%G 35%O 60%M	0.729
0.00	72 G.I.P.	0.000

Total Length: 52.00 ft      Total Volume: 0.729 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

