



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1085186  
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: \_\_\_\_\_

1085186

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> _____ <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	Rose A 1-4
Doc ID	1085186

All Electric Logs Run

CDL/CNL/PE
MEL
DIL
SON

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Rose A 1-4
Doc ID	1085186

Tops

Name	Top	Datum
Heebner	3640	-936
Lansing	3678	-974
Stark Shale	3937	-1233
Hushpuckney	3973	-1269
Base KC	4026	-1322
Marmaton	4066	-1362
Pawnee	4138	-1434
Ft. Scott	4168	-1464
Johnson	4258	-1554
Morrow	4290	-1586
Basal Penn	4304	-1600
Mississippian	4336	-1632

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

September 27, 2012

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

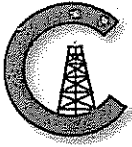
Re: ACO1  
API 15-109-21103-00-00  
Rose A 1-4  
NE/4 Sec.04-15S-32W  
Logan County, Kansas

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 # 250690

Invoice Date: 06/20/2012 Terms: 15/15/30,n/30

Page 1

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

ROSE A 1-4  
33961  
4-15-32  
06-19-2012  
KS

drilling AFE 12 170  
6-22-12 LK

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	160.00	17.6500	2824.00
1102	CALCIUM CHLORIDE (50#)	450.00	.8900	400.50
1118B	PREMIUM GEL / BENTONITE	300.00	.2500	75.00

Sublet Performed	Description	Total
9999-130	CASH DISCOUNT	-494.93
9999-130	CASH DISCOUNT	-231.75

Description	Hours	Unit Price	Total
399 CEMENT PUMP (SURFACE)	1.00	1085.00	1085.00
399 EQUIPMENT MILEAGE (ONE WAY)	10.00	5.00	50.00
566 MIN. BULK DELIVERY	1.00	410.00	410.00

*Handwritten initials and signature*  
JUN 25 2012  
*Handwritten initials*

Amount Due 5101.86 if paid after 07/20/2012

Parts:	3299.50	Freight:	.00	Tax:	218.76	AR	4336.58
Labor:	.00	Misc:	.00	Total:	4336.58		
Sublt:	-726.68	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_

Date \_\_\_\_\_



**CONSOLIDATED**  
Oil Well Services, LLC SS

TICKET NUMBER 33961  
LOCATION Oakley, KS  
FOREMAN Kelly Gabe

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
6-19-12	4793	Rose A 1-4	4	15S	32W	Logan	
CUSTOMER			OAKLEY				
MAILING ADDRESS			255 1 W 5th E IMO				
CITY			STATE				
STATE			ZIP CODE				
TRUCK #		DRIVER		TRUCK #		DRIVER	
399		Damon M					
566		Wes F					

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 226 CASING SIZE & WEIGHT 8 5/8 24#  
 CASING DEPTH 226 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 152 SLURRY VOL 1.24 WATER gal/sk \_\_\_\_\_ CEMENT LEFT In CASING 30  
 DISPLACEMENT 13 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: safety meeting, rigged up on Murtin drilling Rig #2, hooked up to circulate, mixed 160 SKS com 3% cc 2% gel, displaced with 13 bbl water, shut in, washed out pumps & lines, rigged down.

CEMENT did circulate

Approx 4 bbl to pit

Thank you Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085.00	1085.00
5406	10 mi	MILEAGE	5.00	50.00
11045	160 SKS	Class A cement	176.5	2824.00
1102	450#	Calcium chloride	2.89	1300.50
11183	300#	Bentonite	2.5	75.00
54107	7.52	Ten mileage delivery	102	410.00
<u>AS Per bid</u>				
<u>Completed</u>				
				4844.50
				726.68
				4117.82
SALES TAX				218.76
ESTIMATED TOTAL				4336.58

Plavin 3737  
 2:30 AM 6-20-12 250690  
 AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE 6-19-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**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 # 251046

Invoice Date: 07/11/2012 Terms: 10/10/30,n/30

Page 1

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

ROSE A #1-4  
36970  
4-15-32  
07-02-2012  
KS

drilling AFE 12 170  
7-16-12 LK

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	185.00	22.5500	4171.75
1110A	KOL SEAL (50# BAG)	925.00	.5600	518.00
1131	60/40 POZ MIX	520.00	15.1000	7852.00
1118B	PREMIUM GEL / BENTONITE	3578.00	.2500	894.50
1107	FLO-SEAL (25#)	130.00	2.8200	366.60
4159	FLOAT SHOE AFU 5 1/2"	1.00	413.0000	413.00
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4130	CENTRALIZER 5 1/2"	10.00	58.0000	580.00
4104	CEMENT BASKET 5 1/2"	1.00	276.0000	276.00
4277	DV TOOL SIZE 5 1/2" (STA	1.00	4700.0000	4700.00
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-2083.89
9995-130	CEMENT EQUIPMENT DISCOUNT	-360.41

Description	Hours	Unit Price	Total
399 SINGLE PUMP	1.00	3020.00	3020.00
399 EQUIPMENT MILEAGE (ONE WAY)	10.00	5.00	50.00
566 TON MILEAGE DELIVERY	1.00	534.10	534.10

Amount Due 26068.38 if paid after 08/10/2012

Parts:	20838.85	Freight:	.00	Tax:	1462.89	AR	23461.54
Labor:	.00	Misc:	.00	Total:	23461.54		
Sublt:	-2444.30	Supplies:	.00	Change:	.00		

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

BARTLESVILLE, OK  
918/338-0808

EL DORADO, KS  
316/322-7022

EUREKA, KS  
620/583-7664

PONCA CITY, OK  
580/762-2303

OAKLEY, KS  
785/672-2227

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

GILLETTE, WY  
307/686-4914





**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 36970

LOCATION Oakley, KS

FOREMAN Kelly Garbel

Fuzzy

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
2-2-12	4793	Rose A #1-4	4	15S	32W	Logan	
CUSTOMER <u>Lan Oil &amp; Gas</u>		Oakley 5 to Fairfield Ranch RD 1W 5 to into		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				<u>Demon</u>			
CITY		STATE	ZIP CODE	<u>399</u>	<u>Demon M</u>		
				<u>528</u>	<u>Jerry G</u>		
				<u>366</u>	<u>Cody R</u>		

JOB TYPE 2-stage HOLE SIZE 7 7/8 HOLE DEPTH 4470 CASING SIZE & WEIGHT 5 1/2 14#  
 CASING DEPTH 4467 DRILL PIPE \_\_\_\_\_ TUBING DV @ 2176 OTHER DV top #54  
 SLURRY WEIGHT 138-125 SLURRY VOL 1,42-1,89 WATER gal/sk 6.9-10.8 CEMENT LEFT in CASING 20' shoe, JT  
 DISPLACEMENT 108 1/2 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: safety meeting, rent locat equip, on st # cent. on st # 1, 4, 7, 10, 13  
16, 19, 22, 5-2, 5-5 Basket #52 DV top #54 rigged up on well to circulate for  
1 1/2 hrs, pumped 5 bbl water, Mud flush, 5 bbl water, mixed 185 sks OWC #46 base  
washed out pump, released plug, displaced with 5 bbl water 57 bbl mud wash 20' lift  
plug landed @ 1200', dropped DV Bomb, opened tool, circulated 3 hrs, pumped  
5 bbl water mixed 30 sks 60/40 Poz 8% gel 1/4" Flo-seal in RH, mix 34 sks  
60/40 Poz 8% gel 1/4" Flo-seal down center, washed out pumps & lines, released plug  
displaced with 53 bbl water with 5000' lift & plug landed @ 1750', released pressure  
float held & rigged down cement did circulate Thank You  
Approx 3000' top it  
Jenny, Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
✓ 5401C	1	PUMP CHARGE	3000.00	3000.00
✓ 5406	10	MILEAGE	5.00	50.00
✓ 1126	185 sks	OWC (Bottom stage)	22.55	4171.25
✓ 1110A	925 #	Kal-seal	1.56	518.00
✓ 1131	520	60/40 Poz (top stage)	15.10	7852.00
✓ 1118B	3578 #	Bentonite	2.45	8787.10
✓ 1107	130 #	Flo-seal	2.83	366.90
✓ 5407A	31.98	Ton Mile legged delivery	16.7	534.10
✓ 21159	1	5 1/2 AFU Float shoe (I)	4130.00	4130.00
✓ 24454	1	5 1/2 latchdown Assy (w)	567.00	567.00
✓ 21130	10	5 1/2 centralizer (F)	580.00	580.00
✓ 21104	1	5 1/2 basket (I)	276.00	276.00
✓ 21277	1	5 1/2 DV Tool (w)	4700.00	4700.00
✓ 11446	500 gal	Mud flush	1.00	500.00
		ASPER bid		24,442.45
		Load 10% disc		2,444.25
				21,998.20
		SALES TAX		1462.89
		ESTIMATED TOTAL		23461.54

Ravin 3737

6:30 PM

AUTHORIZATION

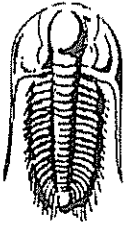
Jim Dilloughy

TITLE

251046

DATE 2-2-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co.  
301 S. Market Street  
Wichita, KS 67202  
ATTN: Brad Rine

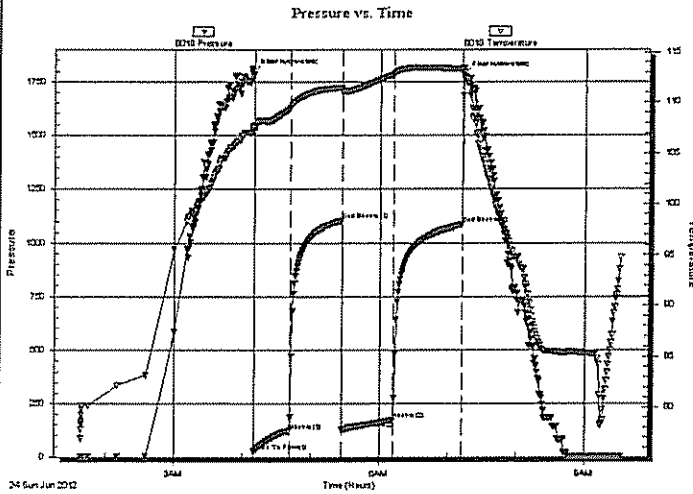
**S4-15s-32w Logan, KS**  
**Rose A #1-4**  
Job Ticket: 46671      DST#: 1  
Test Start: 2012.06.24 @ 01:38:00

## GENERAL INFORMATION:

Formation: **LKC 'B'**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 04:10:10  
Time Test Ended: 09:31:20  
Interval: **3698.00 ft (KB) To 3728.00 ft (KB) (TVD)**  
Total Depth: **3728.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole (Initial)**  
Tester: **Chuck Smith**  
Unit No: **62**  
Reference Elevations: **2704.00 ft (KB)**  
**ft (CF)**  
KB to GR/CF: **ft**

**Serial #: 8018**      **Inside**  
Press@RunDepth: **174.44 psig @ 3701.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.06.24**      End Date: **2012.06.24**      Last Calib.: **2012.06.24**  
Start Time: **01:38:02**      End Time: **09:31:19**      Time On Btm: **2012.06.24 @ 04:08:30**  
Time Off Btm: **2012.06.24 @ 07:13:30**

TEST COMMENT: B.O.B. @ 24 min.  
Weak surface return.  
B.O.B. @ 29 min.  
2" Return.



## PRESSURE SUMMARY

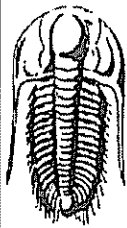
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1795.22	107.37	Initial Hydro-static
2	25.92	107.13	Open To Flow (1)
34	122.46	109.33	Shut-In(1)
79	1101.08	111.45	End Shut-In(1)
79	128.02	111.08	Open To Flow (2)
124	174.44	112.74	Shut-In(2)
184	1083.65	113.31	End Shut-In(2)
185	1782.30	113.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	OSMW 30m 70w	0.61
124.00	OCM 10o 90m	0.70
62.00	OCM 20o 80m	0.87
93.00	GO 2g 98o	1.30
0.00	93 Feet weak GIP	0.00
0.00	RW: ..200 @ 90 degrees F = 27000 PPM	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas Co.  
 301 S. Market Street  
 Wichita, KS 67202  
 ATTN: Brad Rine

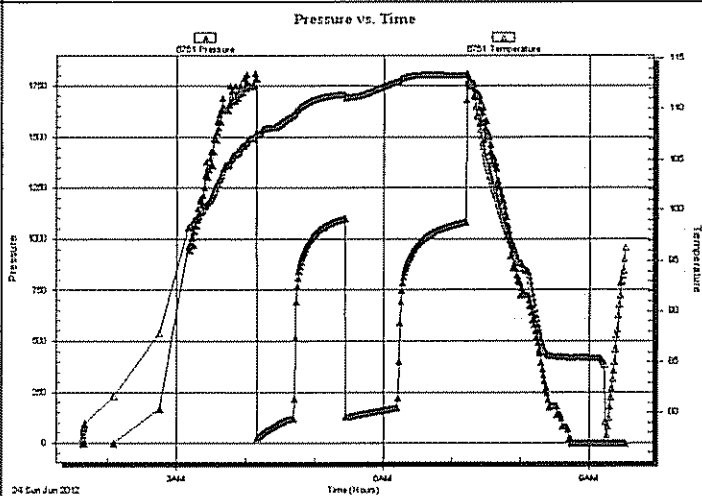
**S4-15s-32w Logan, KS**  
**Rose A #1-4**  
 Job Ticket: 46671      DST#: 1  
 Test Start: 2012.06.24 @ 01:38:00

### GENERAL INFORMATION:

Formation: LKC 'B'  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 04:10:10  
 Time Test Ended: 09:31:20  
 Interval: 3698.00 ft (KB) To 3728.00 ft (KB) (TVD)  
 Total Depth: 3728.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Chuck Smith  
 Unit No: 62  
 Reference Elevations: 2704.00 ft (KB)  
 ft (CF)  
 KB to GR/CF: ft

**Serial #: 6751      Outside**  
 Press@RunDepth:      psig @ 3701.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.06.24      End Date: 2012.06.24      Last Calib.: 2012.06.24  
 Start Time: 01:38:02      End Time: 09:31:18      Time On Blm  
 Time Off Blm

TEST COMMENT: B.O.B. @ 24 min.  
 Weak surface return.  
 B.O.B. @ 29 min.  
 2" Return.



### PRESSURE SUMMARY

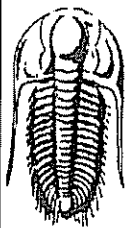
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	OSMW 30m 70w	0.61
124.00	OCM 10o 90m	0.70
62.00	OCM 20o 80m	0.87
93.00	GO 2g 98o	1.30
0.00	93 Feet weak GIP	0.00
0.00	RW: .200 @ 90 degrees F = 27000 PPM	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Co.

**S4-15s-32w Logan, KS**

301 S. Market Street  
Wichita, KS 67202

**Rose A #1-4**

Job Ticket: 46671

**DST#: 1**

ATTN: Brad Rine

Test Start: 2012.06.24 @ 01:38:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 7.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2400.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 32 deg API  
Water Salinity: 27000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	OSMW 30m 70w	0.610
124.00	OCM 10o 90m	0.701
62.00	OCM 20o 80m	0.870
93.00	GO 2g 98o	1.305
0.00	93 Feet weak GIP	0.000
0.00	RW: ..200 @ 90 degrees F = 27000 PPM	0.000

Total Length: 403.00 ft      Total Volume: 3.486 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: API: 34 @ 80 Degrees F = 32

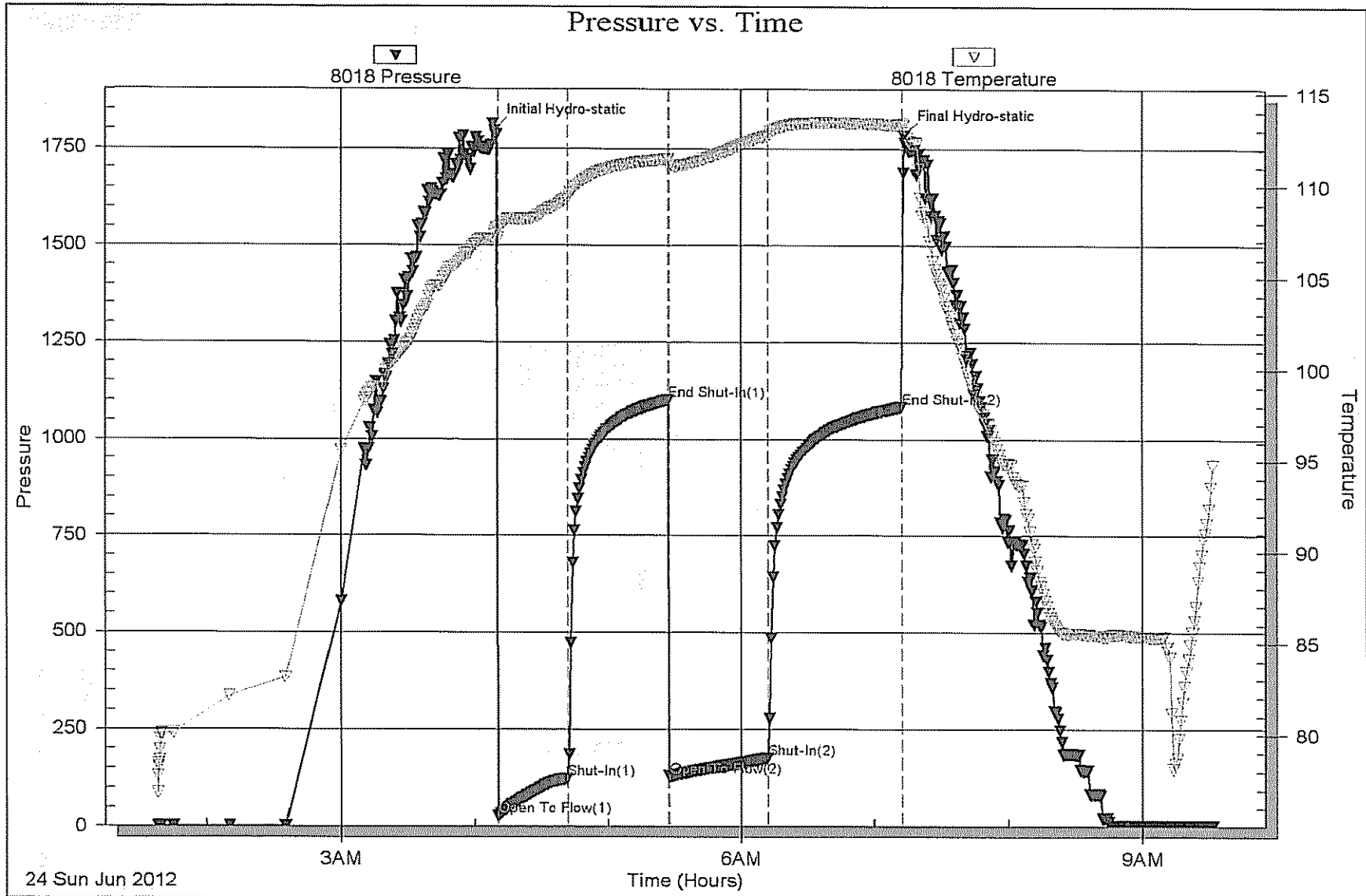
Serial #: 8018

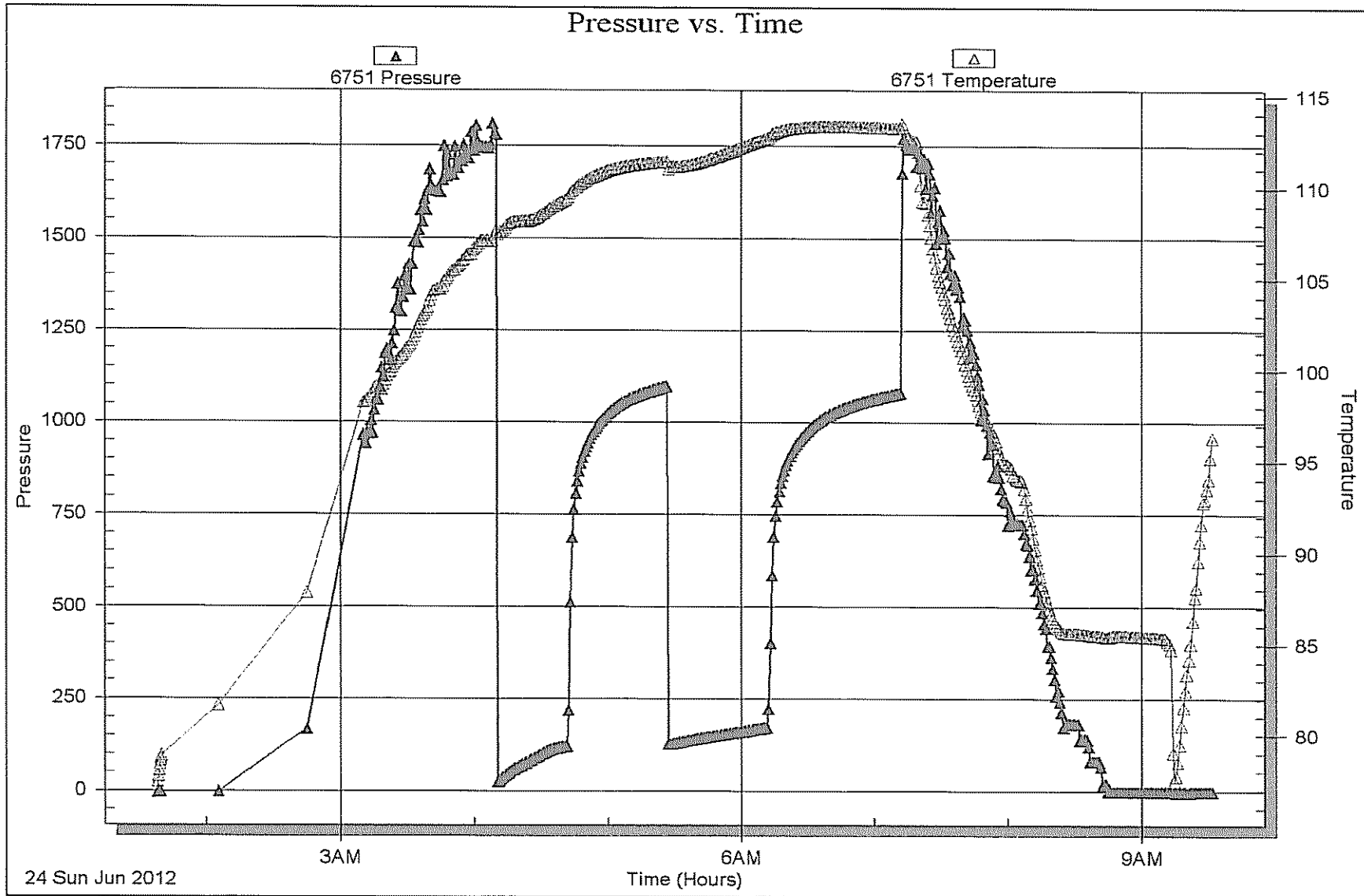
Inside

Lario Oil & Gas Co.

Rose A #1-4

DST Test Number: 1







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co.

301 S. Market Street  
Wichita, KS 67202

ATTN: Brad Rine

S4-15s-32w Logan, KS

Rose A #1-4

Job Ticket: 46672

DST#: 2

Test Start: 2012.06.24 @ 20:59:00

## GENERAL INFORMATION:

Formation: LKC 'D'

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:27:00

Time Test Ended: 04:24:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 3750.00 ft (KB) To 3771.00 ft (KB) (TVD)

Total Depth: 3771.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2704.00 ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 8018

Inside

Press@RunDepth: 18.52 psig @ 3753.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.24

End Date:

2012.06.25

Last Calib.: 2012.06.25

Start Time: 20:59:02

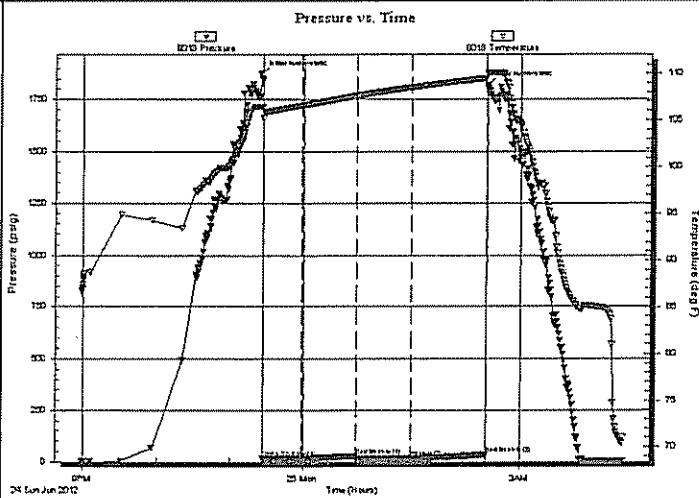
End Time:

04:24:00

Time On Btm: 2012.06.24 @ 23:25:10

Time Off Btm: 2012.06.25 @ 02:32:09

TEST COMMENT: Weak blow.  
No return.  
No blow.  
No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.68	106.42	Initial Hydro-static
2	15.90	105.19	Open To Flow (1)
33	18.22	106.54	Shut-In(1)
79	28.20	107.60	End Shut-In(1)
79	16.89	107.59	Open To Flow (2)
125	18.52	108.51	Shut-In(2)
187	36.57	109.53	End Shut-In(2)
187	1818.45	110.04	Final Hydro-static

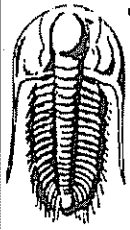
## Recovery

Length (ft)	Description	Volume (bbl)
1.00	OCM 10 to 90m	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 Street  
Wichita, KS 67202  
ATTN: Brad Rine

S4-15s-32w Logan, KS  
Rose A #1-4  
Job Ticket: 46672      DST#: 2  
Test Start: 2012.06.24 @ 20:59:00

**GENERAL INFORMATION:**

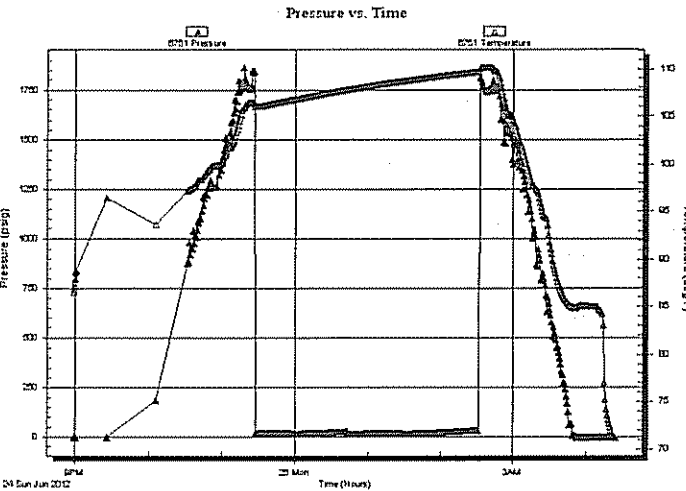
Formation: LKC 'D'  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:27:00  
Time Test Ended: 04:24:00  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Chuck Smith  
Unit No: 62  
Interval: 3750.00 ft (KB) To 3771.00 ft (KB) (TVD)  
Total Depth: 3771.00 ft (KB) (TVD)  
Reference Elevations: 2704.00 ft (KB)  
Hole Diameter: 7.88 inches Hole Condition: Good  
KB to GR/CF: ft

**Serial #: 6751**

Outside

Press@RunDepth: psig @ 3753.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.06.24      End Date: 2012.06.25      Last Calib.: 2012.06.25  
Start Time: 20:59:02      End Time: 04:24:06      Time On Btm:  
Time Off Btm:

TEST COMMENT: Weak blow.  
No return.  
No blow.  
No return.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
1.00	OCM 10o 90m	0.00

\* Recovery from multiple tests

**Gas Rates**

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Co.

S4-15s-32w Logan, KS

301 S. Market Street  
Wichita, KS 67202

Rose A #1-4

Job Ticket: 46672

DST#: 2

ATTN: Brad Rine

Test Start: 2012.06.24 @ 20:59:00

## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>2</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

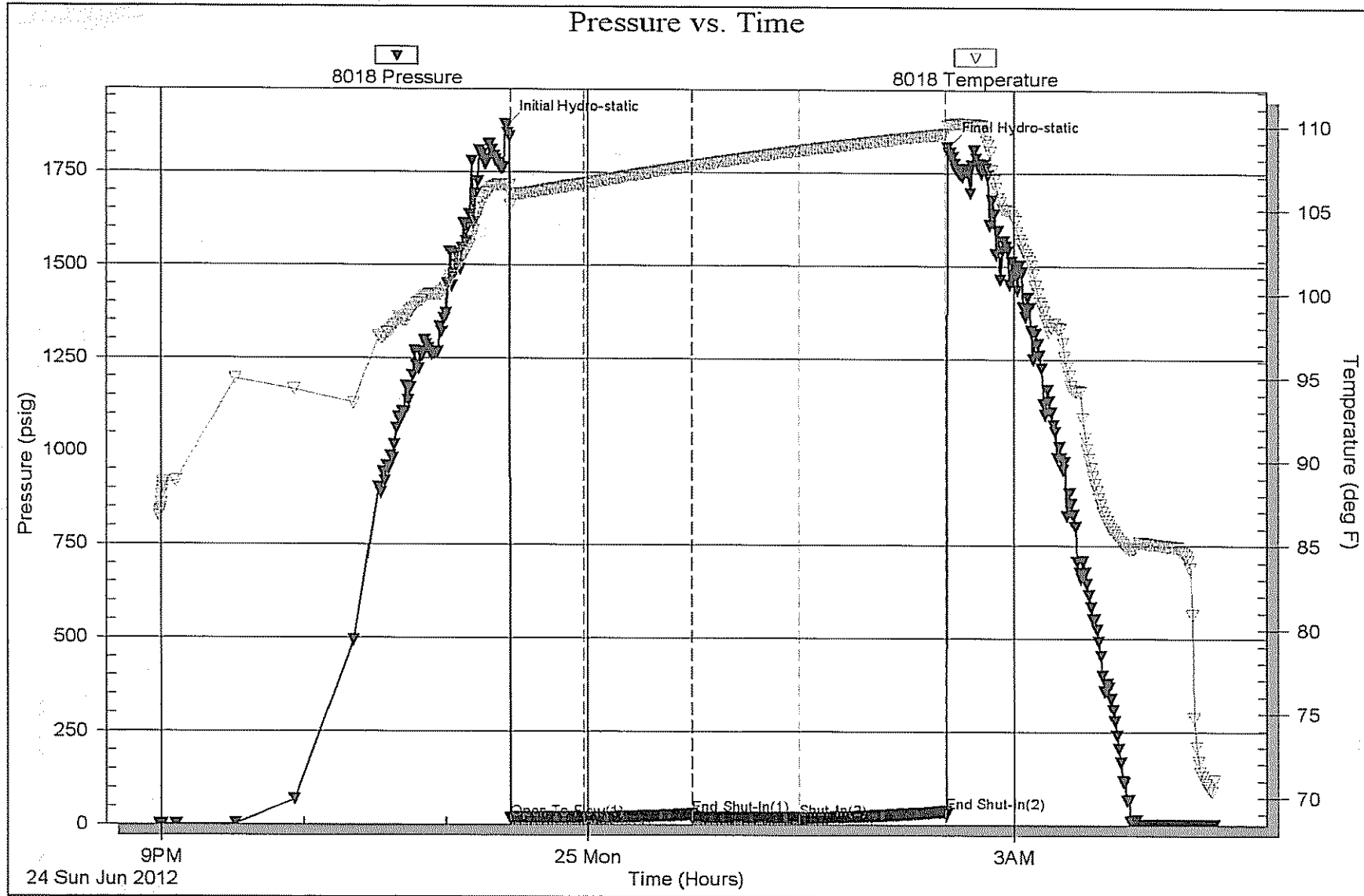
Length ft	Description	Volume bbbl
1.00	OCM 10o 90m	0.005

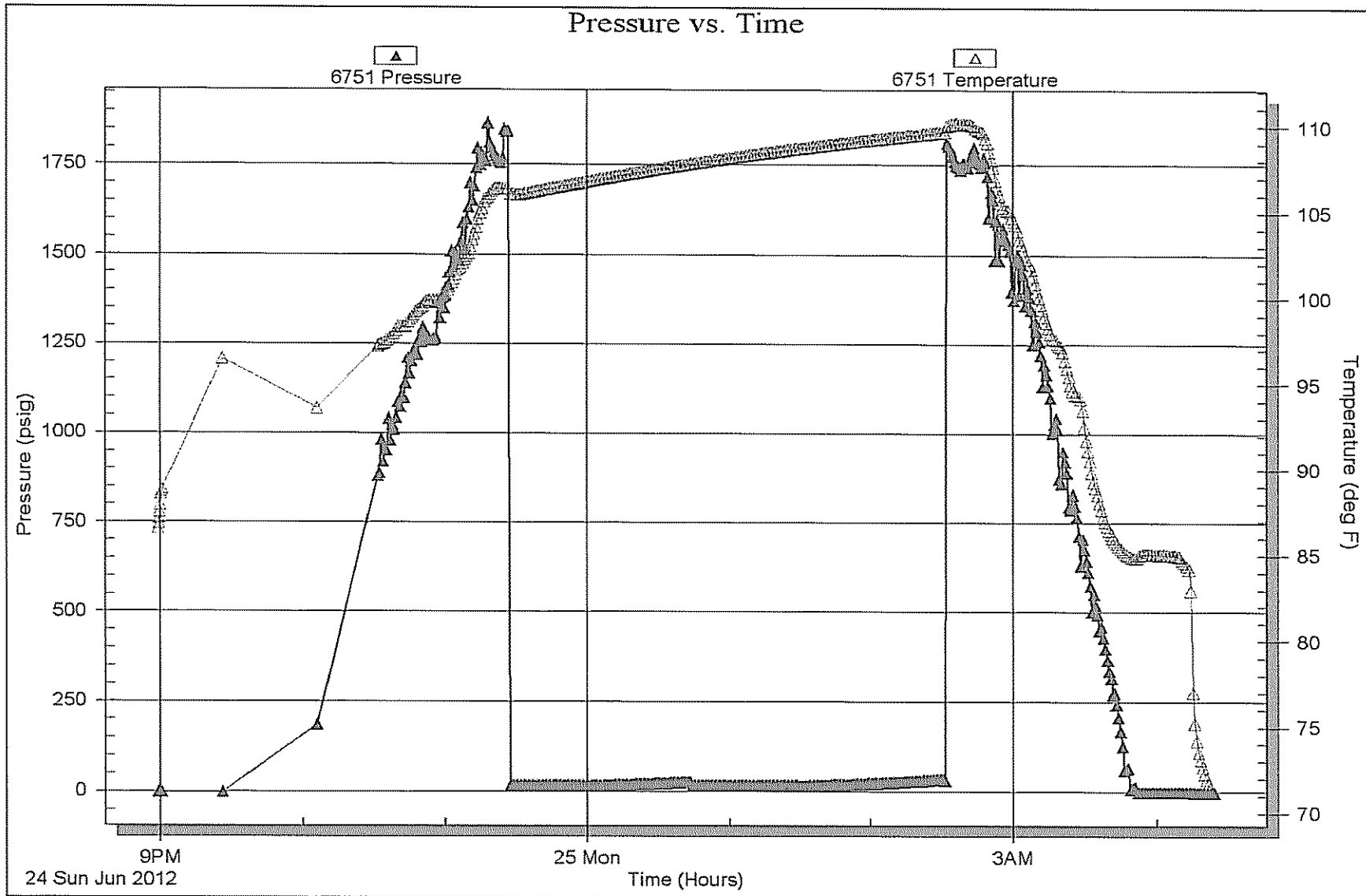
Total Length: 1.00 ft      Total Volume: 0.005 bbl

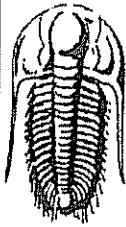
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas Co.  
301 S. Market Street  
Wichita, KS 67202  
ATTN: Brad Rine

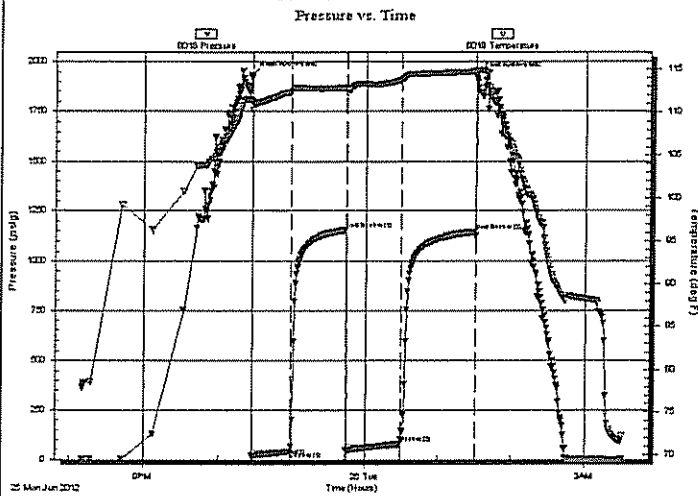
**S4-15s-32w Logan, KS**  
**Rose A #1-4**  
Job Ticket: 46673      DST#: 3  
Test Start: 2012.06.25 @ 20:10:00

### GENERAL INFORMATION:

Formation: **LKC 'I'**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: **22:27:50**  
Time Test Ended: **03:30:09**  
Interval: **3867.00 ft (KB) To 3896.00 ft (KB) (TVD)**  
Total Depth: **3896.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Chuck Smith**  
Unit No: **62**  
Reference Elevations: **2704.00 ft (KB)**  
**ft (CF)**  
KB to GR/CF: **ft**

**Serial #: 8018**      **Inside**  
Press@RunDepth: **81.23 psig @ 3869.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.06.25**      End Date: **2012.06.26**      Last Calib.: **2012.06.26**  
Start Time: **20:10:02**      End Time: **03:30:10**      Time On Blmt: **2012.06.25 @ 22:26:20**  
Time Off Blmt: **2012.06.26 @ 01:30:39**

**TEST COMMENT:** 3" Blow  
No return.  
3" Blow.  
Weak return died 20 min.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1934.92	111.39	Initial Hydro-static
2	18.91	110.16	Open To Flow (1)
33	42.70	112.42	Shut-In(1)
78	1155.22	112.87	End Shut-In(1)
78	47.02	112.31	Open To Flow (2)
123	81.23	113.76	Shut-In(2)
184	1145.91	114.77	End Shut-In(2)
185	1927.13	114.93	Final Hydro-static

### Recovery

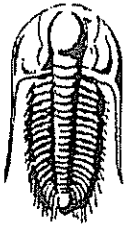
Length (ft)	Description	Volume (bbl)
61.00	OCM 10o 90m	0.30
60.00	OCM 20o 80m	0.30
30.00	CGO 10g 90o	0.15
0.00	30 Feet weak GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

S4-15s-32w Logan, KS

301 S. Market Street  
Wichita, KS 67202

Rose A #1-4

Job Ticket: 46673

DST#: 3

ATTN: Brad Rine

Test Start: 2012.06.25 @ 20:10:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	OCM 10o 90m	0.300
60.00	OCM 20o 80m	0.295
30.00	CGO 10g 90o	0.148
0.00	30 Feet weak GIP	0.000

Total Length: 151.00 ft      Total Volume: 0.743 bbl

Num Fluid Samples: 0

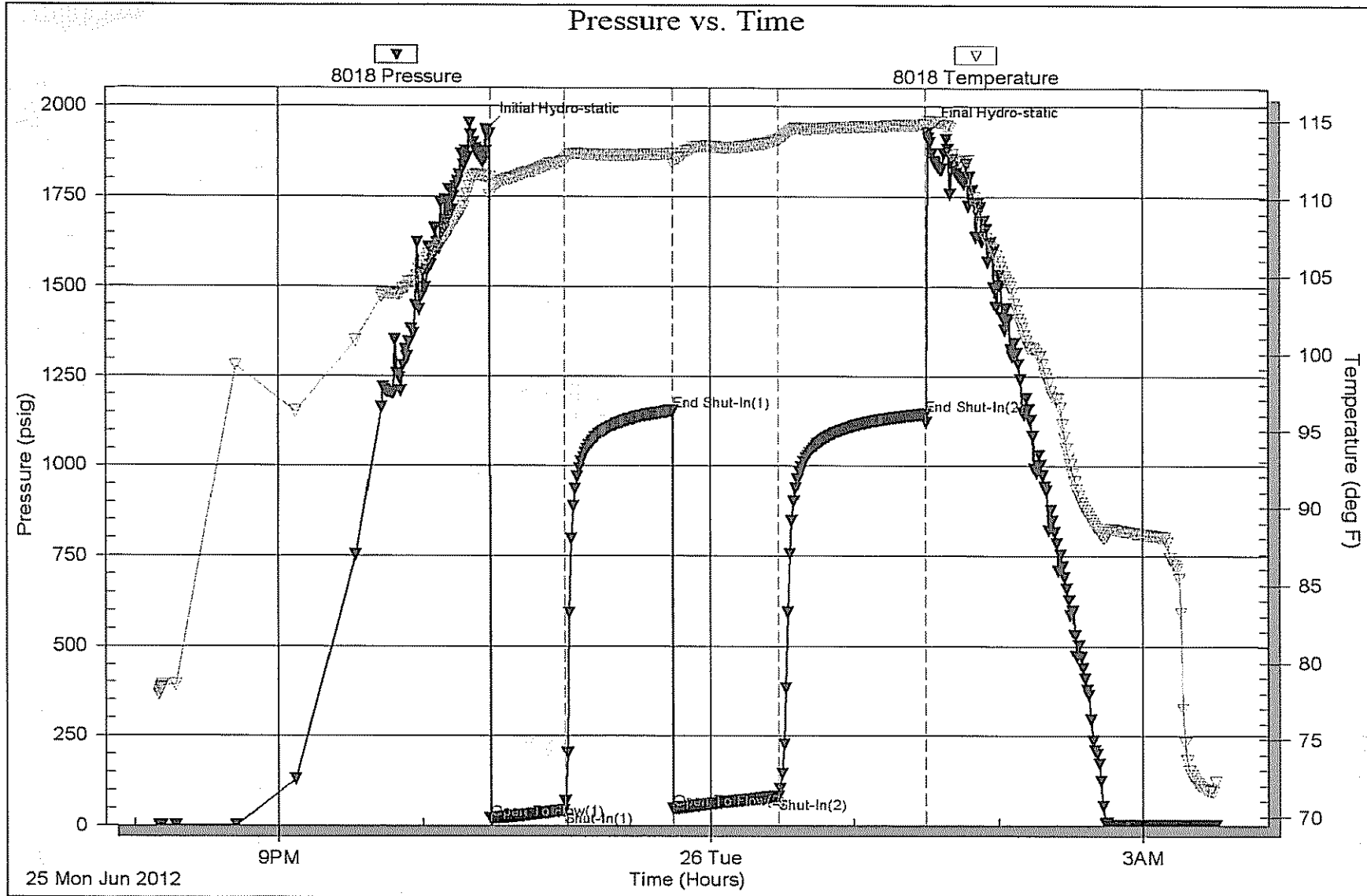
Num Gas Bombs: 0

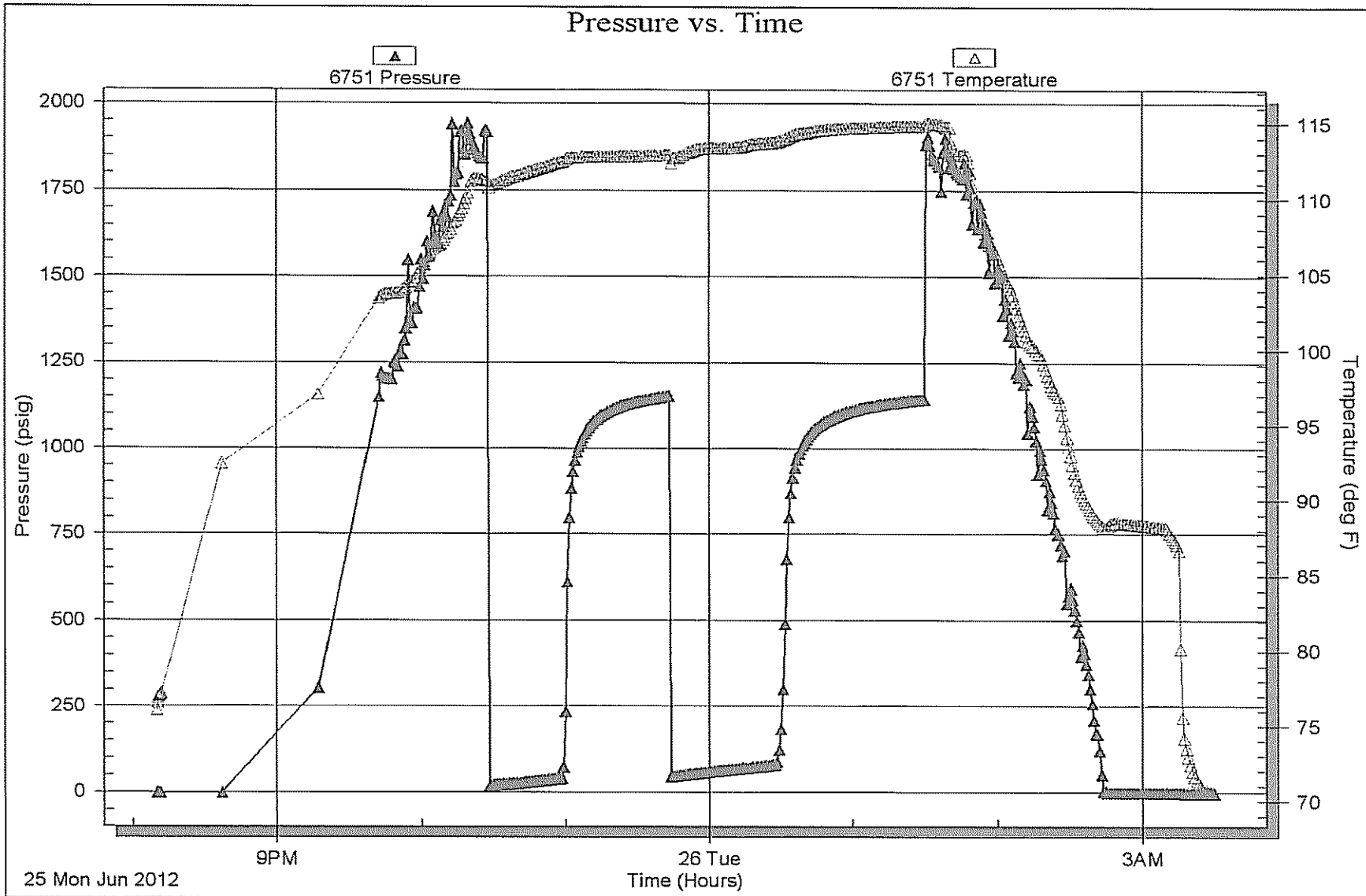
Serial #:

Laboratory Name:

Laboratory Location:

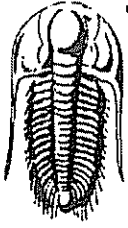
Recovery Comments: API 40 @ 70 Degrees F =39.











**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

S4-15s-32w Logan, KS

301 S. Market Street  
Wichita, KS 67202

Rose A #1-4

Job Ticket: 46674

DST#: 4

ATTN: Brad Rine

Test Start: 2012.06.26 @ 17:02:00

### 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: 60.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
390.00	M 100m	3.303

Total Length: 390.00 ft      Total Volume: 3.303 bbl

Num Fluid Samples: 0

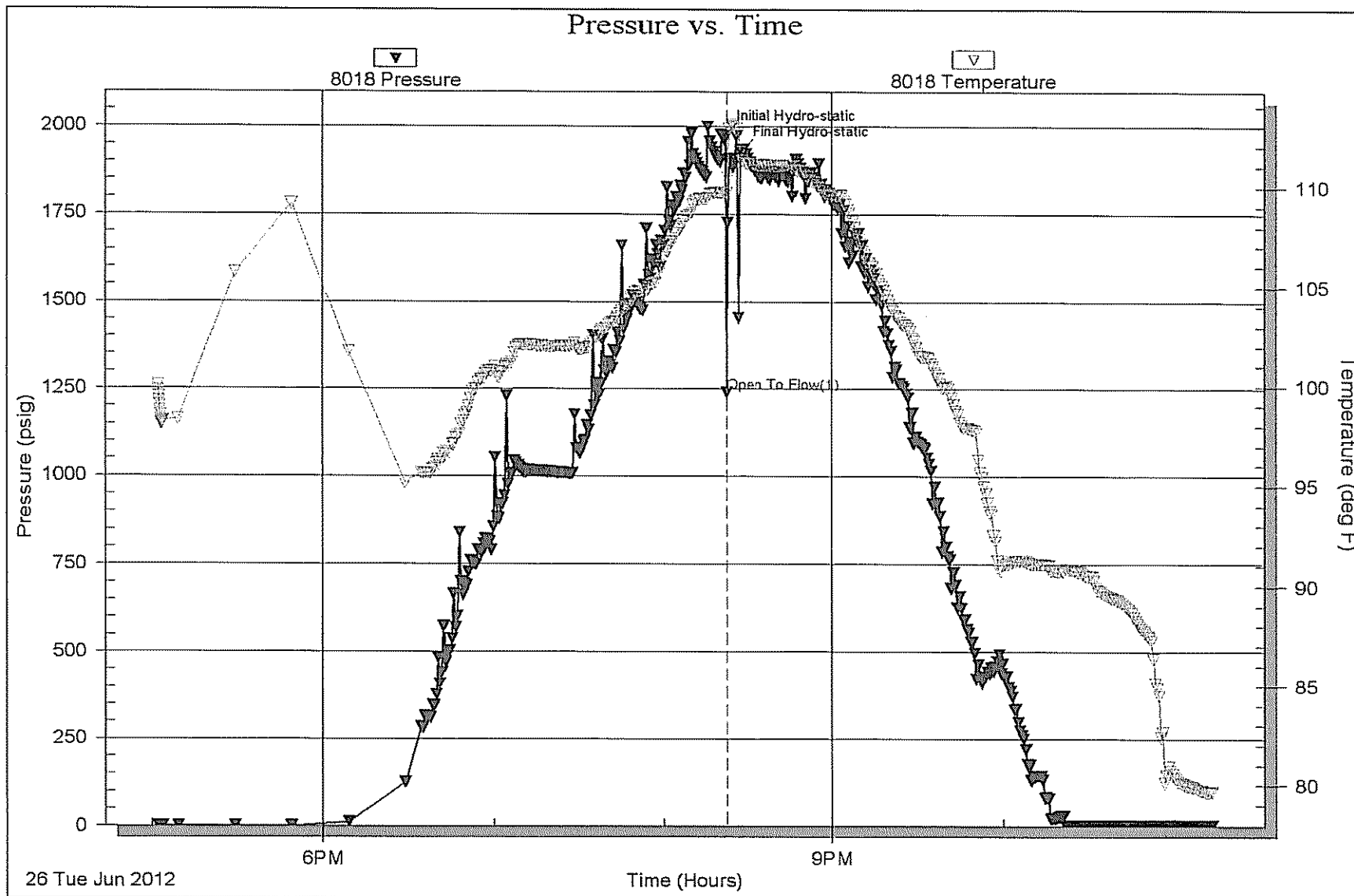
Num Gas Bombs: 0

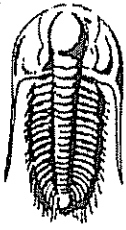
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRIOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas Co.  
301 S. Market Street  
Wichita, KS 67202  
ATTN: Brad Rine

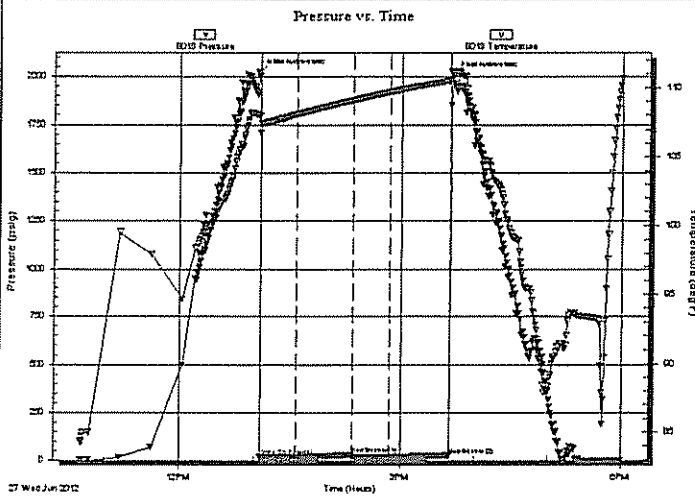
**S4-15s-32w Logan, KS**  
**Rose A #1-4**  
Job Ticket: 46675      DST#: 5  
Test Start: 2012.06.27 @ 10:40:00

### GENERAL INFORMATION:

Formation: **LKC 'L'**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 13:05:10  
Time Test Ended: 17:59:20  
Interval: **3969.00 ft (KB) To 4025.00 ft (KB) (TVD)**  
Total Depth: **4025.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Chuck Smith**  
Unit No: **62**  
Reference Elevations: **2704.00 ft (KB)**  
**ft (CF)**  
KB to GR/CF: **ft**

**Serial #: 8018**      **Inside**  
Press@RunDepth: **19.74 psig @ 3973.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.06.27**      End Date: **2012.06.27**      Last Calib.: **2012.06.27**  
Start Time: **10:40:02**      End Time: **17:59:20**      Time On Blm: **2012.06.27 @ 13:03:40**  
Time Off Blm: **2012.06.27 @ 15:41:30**

**TEST COMMENT:** Weak surface blow died @ 25 min.  
No return.  
No blow.  
No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.31	107.99	Initial Hydro-static
2	18.35	106.75	Open To Flow (1)
32	19.66	108.05	Shut-In(1)
77	28.15	109.09	End Shut-In(1)
77	18.11	109.09	Open To Flow (2)
107	19.74	109.69	Shut-In(2)
156	25.94	110.53	End Shut-In(2)
158	2005.01	111.23	Final Hydro-static

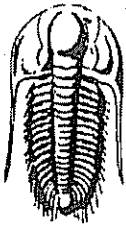
### Recovery

Length (ft)	Description	Volume (bbl)
1.00	OSM 100m	0.00

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas Co.  
301 S. Market Street  
Wichita, KS 67202  
ATTN: Brad Rine

**S4-15s-32w Logan, KS**  
**Rose A #1-4**  
Job Ticket: 46675      DST#: 5  
Test Start: 2012.06.27 @ 10:40:00

**Mud and Cushion Information**

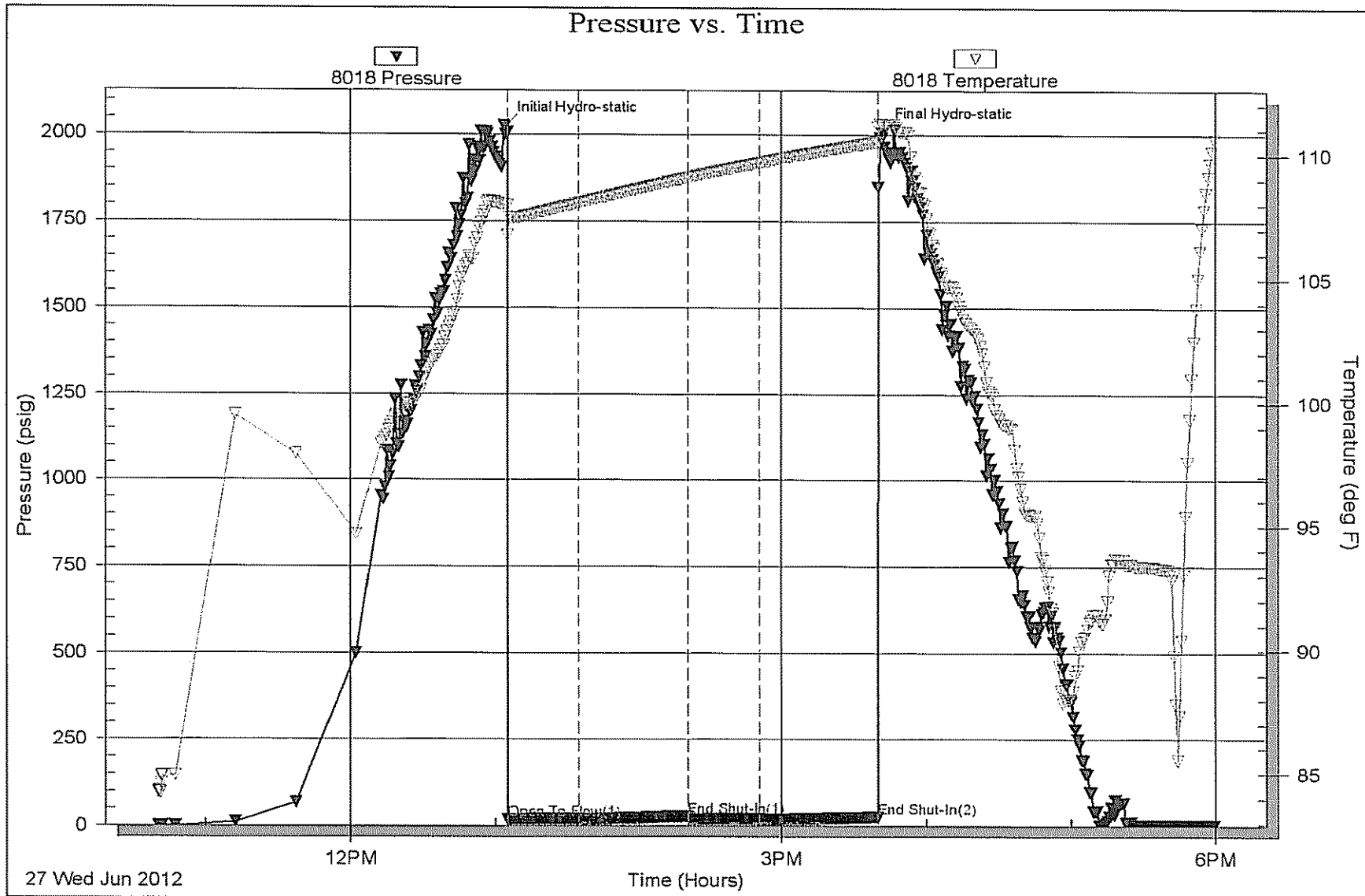
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 2.00 inches			

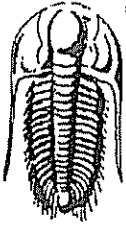
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1.00	OSM 100m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 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.  
301 S. Market Street  
Wichita, KS 67202  
ATTN: Brad Rine

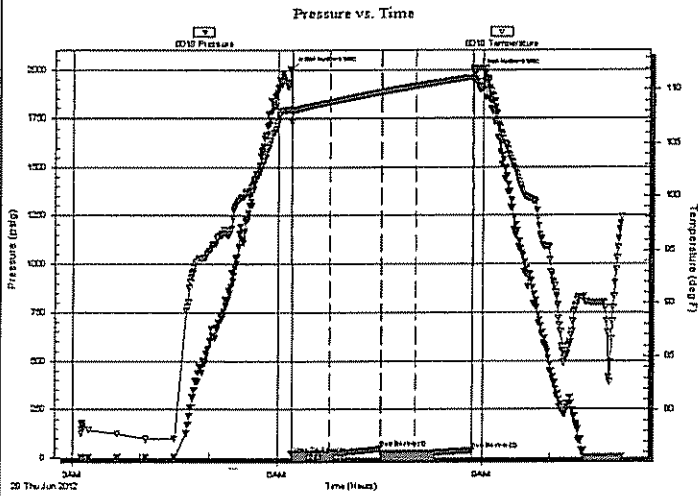
**S4-15s-32w Logan, KS**  
**Rose A #1-4**  
Job Ticket: 45976      DST#: 6  
Test Start: 2012.06.28 @ 03:08:00

### GENERAL INFORMATION:

Formation: **Marmaton.**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 06:12:10  
Time Test Ended: 11:03:39  
Interval: **3995.00 ft (KB) To 4080.00 ft (KB) (TVD)**  
Total Depth: **4080.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Chuck Smith**  
Unit No: **62**  
Reference Elevations: **2704.00 ft (KB)**  
**ft (CF)**  
KB to GRVCF: **ft**

**Serial #: 8018**      **Inside**  
Press@RunDepth: **21.52 psig @ 3997.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.06.28**      End Date: **2012.06.28**      Last Calib.: **2012.06.28**  
Start Time: **03:08:02**      End Time: **11:03:40**      Time On Btm: **2012.06.28 @ 06:10:50**  
Time Off Btm: **2012.06.28 @ 08:52:30**

**TEST COMMENT:** Weak surface blow died @ 21 min.  
No return.  
No blow.  
No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.54	108.13	Initial Hydro-static
2	18.61	106.99	Open To Flow (1)
35	21.13	108.79	Shut-In(1)
80	46.75	109.76	End Shut-In(1)
81	20.80	109.75	Open To Flow (2)
110	21.52	110.32	Shut-In(2)
161	38.01	111.16	End Shut-In(2)
162	1987.61	111.99	Final Hydro-static

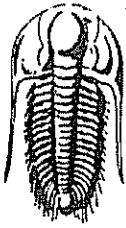
### Recovery

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

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas Co.

S4-15s-32w Logan, KS

301 S. Market Street  
Wichita, KS 67202

Rose A #1-4

Job Ticket: 45976

DST#: 6

ATTN: Brad Rine

Test Start: 2012.06.28 @ 03:08:00

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 9.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: 2.00 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
3.00	OSM 100m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

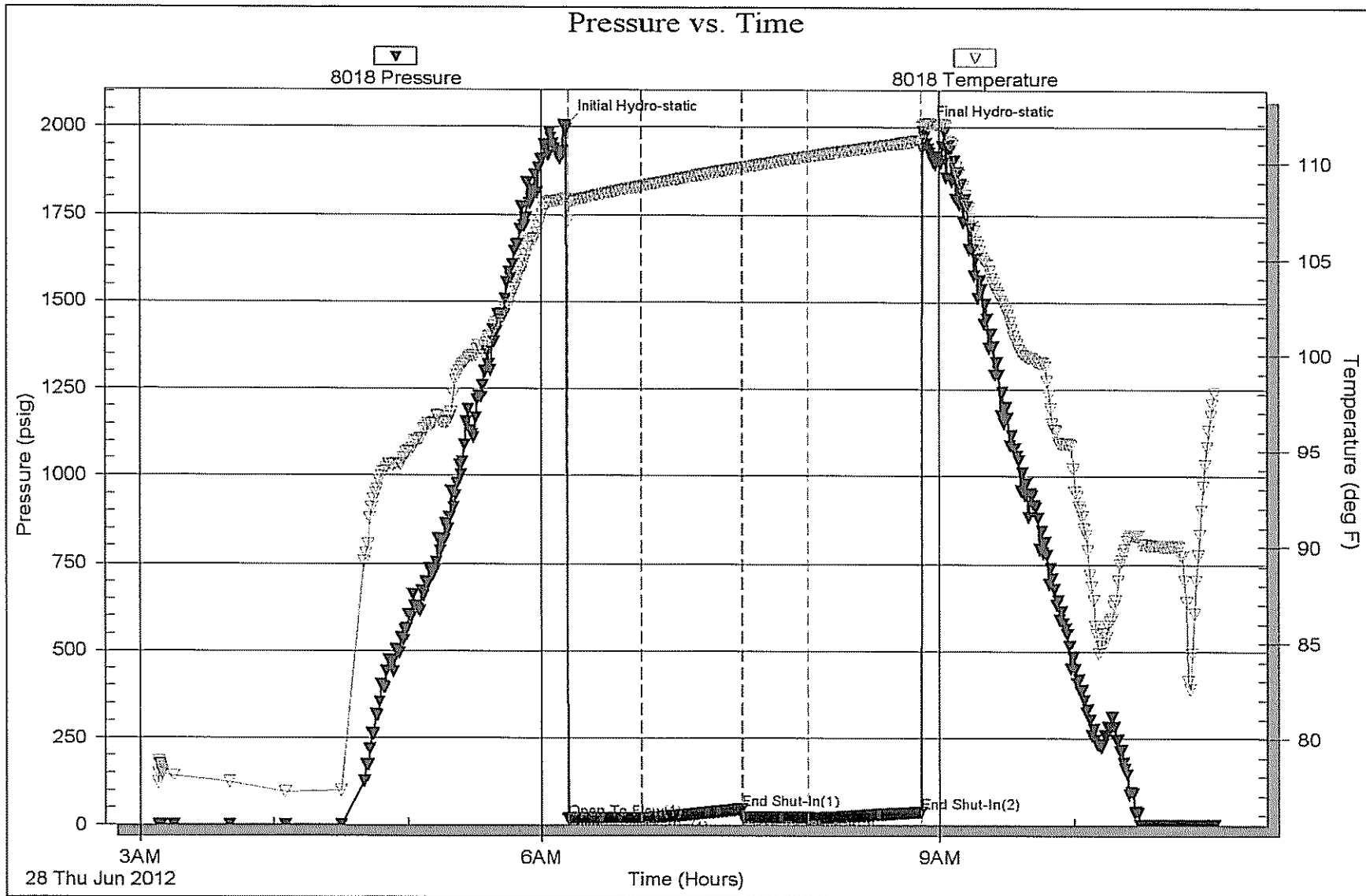
Serial #:

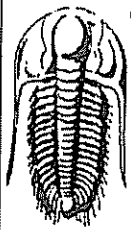
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas Co.  
301 S. Market Street  
Wichita, KS 67202  
ATTN: Brad Rine

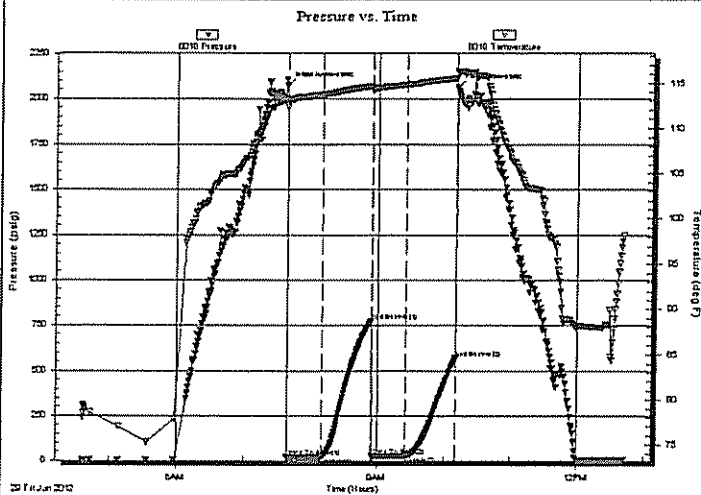
**S4-15s-32w Logan, KS**  
**Rose A #1-4**  
Job Ticket: 45977      DST#: 7  
Test Start: 2012.06.29 @ 04:36:00

### GENERAL INFORMATION:

Formation: Pawnee-Ft. Scott-Che  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:38:50  
Time Test Ended: 12:42:00  
Interval: 4131.00 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: Chuck Smith  
Unit No: 62  
Reference Elevations: 2704.00 ft (KB)  
ft (CF)  
KB to GR/CF: ft

**Serial #: 8018**      Inside  
Press@RunDepth: 24.57 psig @ 4135.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.06.29      End Date: 2012.06.29      Last Calib.: 2012.06.29  
Start Time: 04:36:02      End Time: 12:42:00      Time On Btm: 2012.06.29 @ 07:38:00  
Time Off Btm: 2012.06.29 @ 10:11:40

**TEST COMMENT:** Surface blow.  
No return.  
No blow.  
No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.86	113.25	Initial Hydro-static
1	18.86	112.24	Open To Flow (1)
32	21.70	113.70	Shut-In(1)
77	771.05	114.63	End Shut-In(1)
77	23.44	114.07	Open To Flow (2)
107	24.57	114.84	Shut-In(2)
153	570.21	115.55	End Shut-In(2)
154	2060.63	116.32	Final Hydro-static

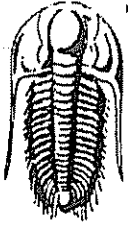
### Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100m	0.05

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Co.

S4-15s-32w Logan, KS

301 S. Market Street  
Wichita, KS 67202

Rose A #1-4

Job Ticket: 45977

DST#: 7

ATTN: Brad Rine

Test Start: 2012.06.29 @ 04:36:00

## 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:

bbbl

Water Loss: 10.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100m	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

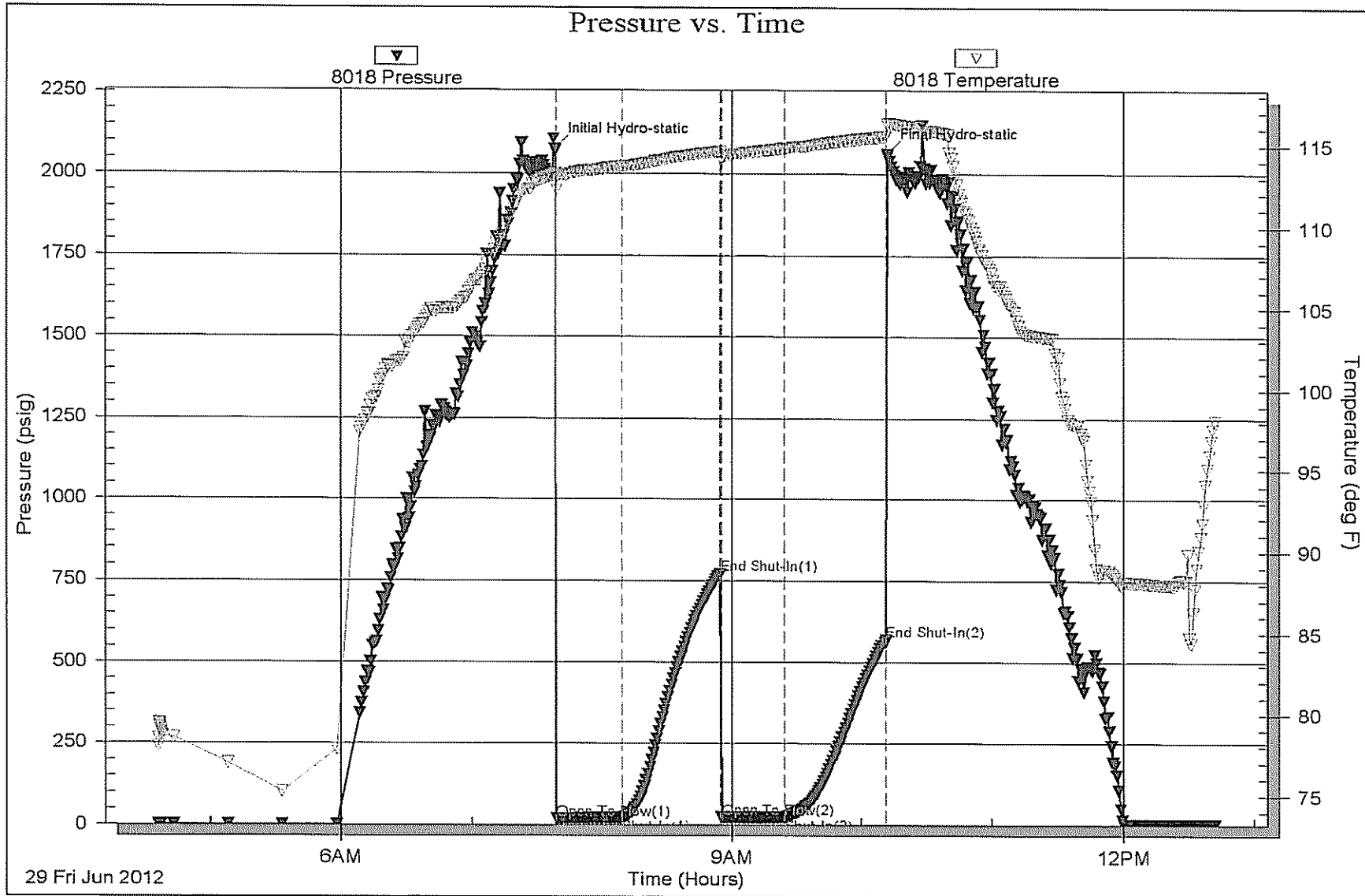
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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## DRILL STEM TEST REPORT

Lario Oil & Gas Co.

S4-15s-32w Logan, KS

301 S. Market Street  
Wichita, KS 67202

Rose A #1-4

Job Ticket: 45978

DST#: 8

ATTN: Brad Rine

Test Start: 2012.06.29 @ 23:38:04

### GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:39:14

Time Test Ended: 07:28:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4232.00 ft (KB) To 4285.00 ft (KB) (TVD)

Total Depth: 4285.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2704.00 ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 8018

Inside

Press@RunDepth: 142.21 psig @ 4234.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.29

End Date: 2012.06.30

Last Calib.: 2012.06.30

Start Time: 23:38:06

End Time: 07:28:04

Time On Btm: 2012.06.30 @ 01:37:54

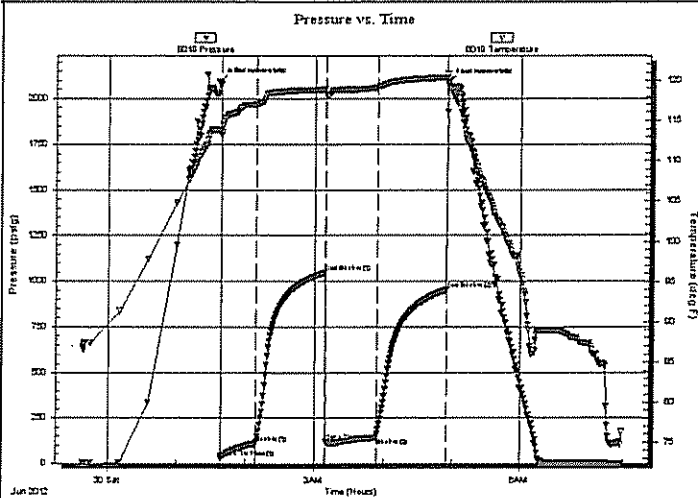
Time Off Btm: 2012.06.30 @ 04:56:13

TEST COMMENT: B.O.B. @ 11 min.

1" Return.

B.O.B. @ 9 min.

6" Return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2092.08	113.86	Initial Hydro-static
2	30.99	113.24	Open To Flow (1)
32	107.89	117.05	Shut-in(1)
92	1048.24	118.89	End Shut-in(1)
92	118.87	118.36	Open To Flow (2)
137	142.21	119.12	Shut-in(2)
197	952.46	120.38	End Shut-in(2)
199	2091.30	120.09	Final Hydro-static

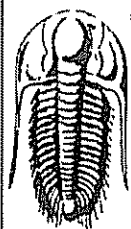
### Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMCO 50g 20m 30o	0.30
124.00	GMCO 60g 15m 25o	0.61
124.00	GMCO 30g 25m 45o	1.27
30.00	GMCO 10g 40m 50o	0.42
0.00	900 Feet GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Co.

S4-15s-32w Logan, KS

301 S. Market Street  
Wichita, KS 67202

Rose A #1-4

Job Ticket: 45978

DST#: 8

ATTN: Brad Rine

Test Start: 2012.06.29 @ 23:38:04

### 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: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
62.00	GMCO 50g 20m 30o	0.305
124.00	GMCO 60g 15m 25o	0.610
124.00	GMCO 30g 25m 45o	1.266
30.00	GMCO 10g 40m 50o	0.421
0.00	900 Feet GIP	0.000

Total Length: 340.00 ft

Total Volume: 2.602 bbf

Num Fluid Samples: 0

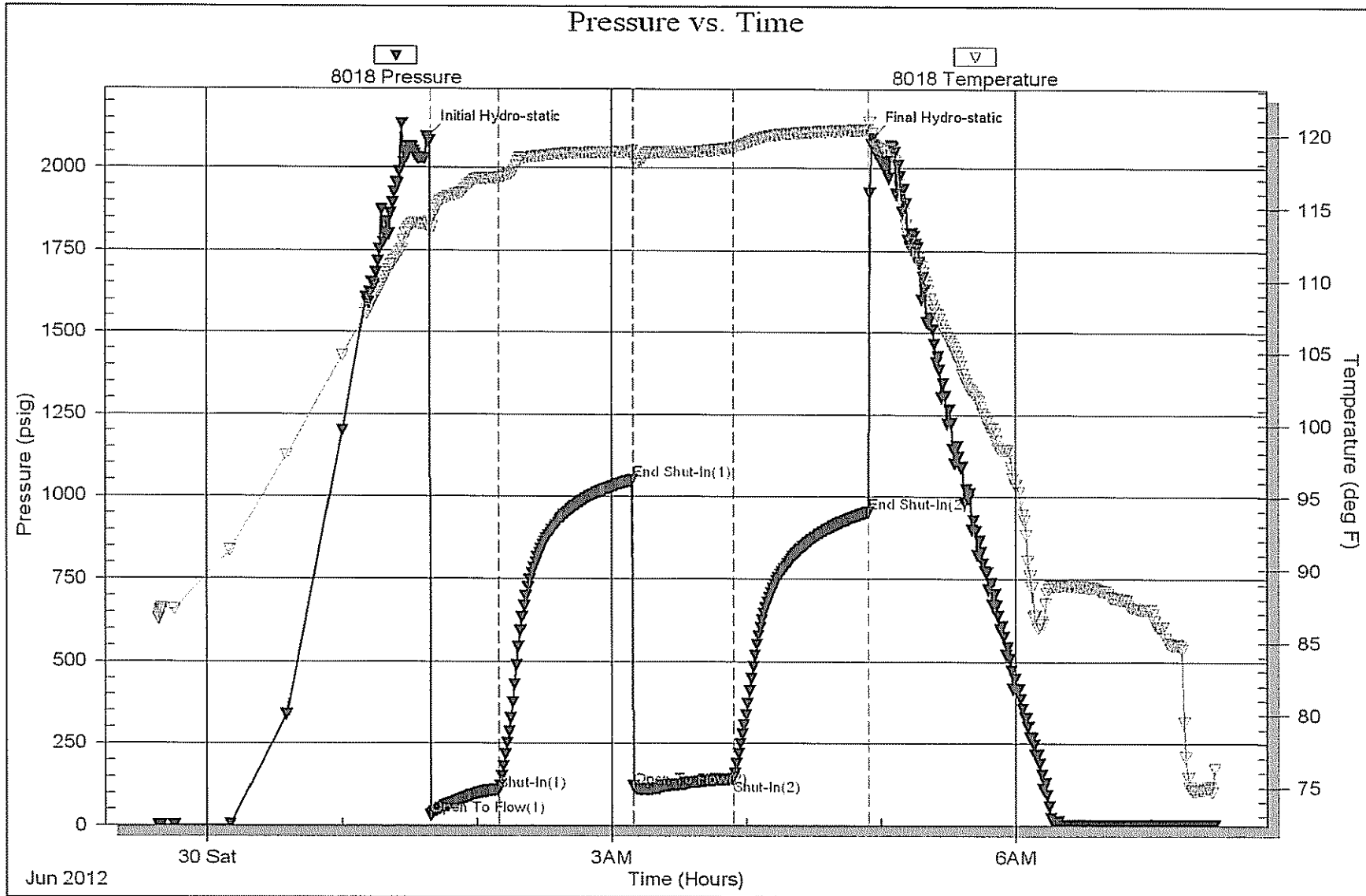
Num Gas Bombs: 0

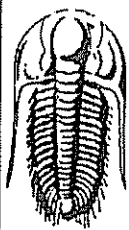
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas Co.  
301 S. Market Street  
Wichita, KS 67202  
ATTN: Brad Rine

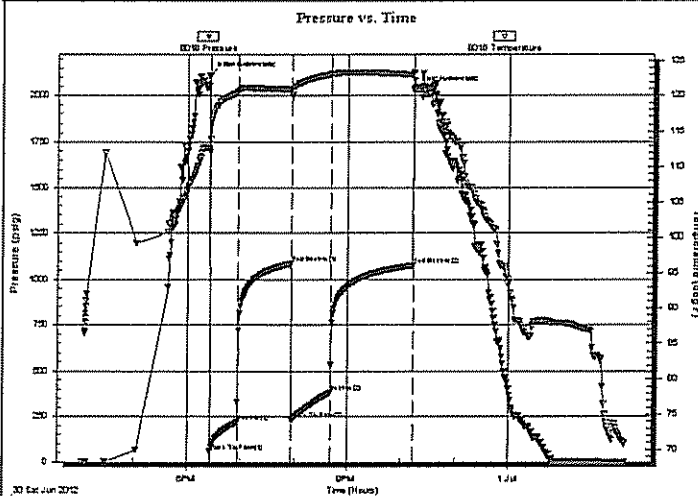
S4-15s-32w Logan, KS  
Rose A #1-4  
Job Ticket: 45979      DST#: 9  
Test Start: 2012.06.30 @ 16:06:00

### GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 18:25:20  
Time Test Ended: 02:09:40  
Interval: **4284.00 ft (KB) To 4328.00 ft (KB) (TVD)**  
Total Depth: **4328.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Chuck Smith**  
Unit No: **62**  
Reference Elevations: **2704.00 ft (KB)**  
**ft (CF)**  
KB to GR/CF: **ft**

**Serial #: 8018**      **Inside**  
Press@RunDepth: **382.51 psig @ 4287.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.06.30**      End Date: **2012.07.01**      Last Calif.: **2012.07.01**  
Start Time: **16:06:02**      End Time: **02:09:40**      Time On Btm: **2012.06.30 @ 18:24:10**  
Time Off Btm: **2012.06.30 @ 22:13:30**

TEST COMMENT: B.O.B. @ 6 min.  
B.O.B. @ 20 min.  
B.O.B. @ 6 1/2 min.  
B.O.B. @ 17 min.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.36	112.62	Initial Hydro-static
2	54.20	112.17	Open To Flow (1)
32	221.72	120.53	Shut-In(1)
92	1086.01	120.89	End Shut-In(1)
93	235.07	120.22	Open To Flow (2)
137	382.51	123.05	Shut-In(2)
229	1076.15	122.99	End Shut-In(2)
230	2035.55	123.25	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .220 @ 65 Degree F = 42000 PPM	0.00
238.00	OSWM 40w 60m	1.17
248.00	GWMO 15g 5w 30m 50o	3.48
186.00	GMCO 40g 10m 50o	2.61
248.00	GO 40g 60o	3.48
0.00	930 Feet GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Co.

S4-15s-32w Logan, KS

301 S. Market Street  
Wichita, KS 67202

Rose A #1-4

Job Ticket: 45979

DST#: 9

ATTN: Brad Rine

Test Start: 2012.06.30 @ 16:06:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 44.00 sec/qt  
Water Loss: 8.78 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 34 deg API  
Water Salinity: 42000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: .220 @ 65 Degree F = 42000 PPM	0.000
238.00	OSWM 40w 60m	1.170
248.00	GWMCO 15g 5w 30m 50o	3.479
186.00	GMCO 40g 10m 50o	2.609
248.00	GO 40g 60o	3.479
0.00	930 Feet GIP	0.000

Total Length: 920.00 ft      Total Volume: 10.737 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: API: 35 @ 70 Degrees F = 34.

