



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1159690  
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: \_\_\_\_\_



1159690

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	Collingwood Unit 1
Doc ID	1159690

Tops

Name	Top	Datum
Heebner	3835	-868
Lansing	3881	-914
Hushpuckney	4223	-1256
Base KC	4297	-1330
Marmaton	4330	-1363
Pawnee	4404	-1437
Ft. Scott	4428	-1461
Johnson	4513	-1546
Morrow	4587	-1620
Mississippian	4603	-1636
St. Louis	4672	-1705



**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 # 262621

Invoice Date: 09/26/2013 Terms: 10/10/30,n/30

Page 1

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

COLLINGWOOD UNIT #1-1S  
44343  
15-19-33W  
09-24-2013  
KS

drilling APC 13.259  
SURFACE PIPE  
9-30-13 LR

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	210.00	18.5500	3895.50
1102	CALCIUM CHLORIDE (50#)	592.00	.9400	556.48
1118B	PREMIUM GEL / BENTONITE	395.00	.2700	106.65

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-455.86
9995-130	CEMENT EQUIPMENT DISCOUNT	-205.32

Description	Hours	Unit Price	Total
399 CEMENT PUMP (SURFACE)	1.00	1150.00	1150.00
399 EQUIPMENT MILEAGE (ONE WAY)	40.00	5.25	210.00
566 TON MILEAGE DELIVERY	1.00	693.20	693.20

*all JC*  
OCT 1 2013  
*all JC*

Amount Due 6983.35 if paid after 10/26/2013

Parts:	4558.63	Freight:	.00	Tax:	334.37	AR	6285.02
Labor:	.00	Misc:	.00	Total:	6285.02		
Sublt:	-661.18	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  
785/672-8822

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

GILLETTE, WY  
307/686-4914

CUSHING, OK  
918/225-2650





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 139135  
Invoice Date: Oct 9, 2013  
Page: 1

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

Now Includes:



<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	61147	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Oct 9, 2013	11/8/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Collingwood Unit #1 -15		
175.00	CEMENT MATERIALS	ASC drilling AFE 13 259	20.90	3,657.50
265.00	CEMENT MATERIALS	AMD	25.90	6,863.50
49.00	CEMENT MATERIALS	FL-160 10-22-13 LK	18.90	926.10
25.00	CEMENT MATERIALS	Defoamer	9.80	245.00
66.00	CEMENT MATERIALS	Flo Seal	2.97	196.02
875.00	CEMENT MATERIALS	Gilsonite	0.98	857.50
12.00	CEMENT MATERIALS	WFR-2	58.70	704.40
534.27	CEMENT SERVICE	Cubic Feet	2.48	1,324.99
1,159.50	CEMENT SERVICE	Ton Mileage	2.60	3,014.70
1.00	CEMENT SERVICE	Production -- Bottom Stage	2,765.75	2,765.75
1.00	CEMENT SERVICE	Production -- Top Stage	2,406.25	2,406.25
55.00	CEMENT SERVICE	Pump Truck Mileage	7.70	423.50
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
55.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	242.00
1.00	EQUIPMENT SALES	7 in AFU Float Shoe	398.00	398.00
1.00	EQUIPMENT SALES	7 in Latch Down Plug Assembly	848.40	848.40
1.00	EQUIPMENT SALES	7 in D V Tool	5,315.00	5,315.00
1.00	EQUIPMENT SALES	7 in Basket	187.10	187.10
18.00	EQUIPMENT SALES	7 in Centralizer	32.80	590.40
1.00	EQUIPMENT OPERATOR	Paul Beaver		

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

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

\$ 8,365.77

ONLY IF PAID ON OR BEFORE  
Nov 3, 2013



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 139135  
Invoice Date: Oct 9, 2013  
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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Lario	61147	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Oct 9, 2013	11/8/13

Quantity	Item	Description	Unit Price	Amount
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Chris Helpingstine		

Subtotal	31,241.11
Sales Tax	1,694.30
Total Invoice Amount	32,935.41
Payment/Credit Applied	
<b>TOTAL</b>	<b>32,935.41</b>

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

\$ 8,365.77

ONLY IF PAID ON OR BEFORE  
Nov 3, 2013

# ALLIED OIL & GAS SERVICES, LLC 061147

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Oalley KS

DATE <u>10/9/13</u>	SEC <u>25</u>	TWP <u>19</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>11:00 p.m.</u>	JOB START <u>9:00 a.m. 11:00 p.m.</u>	JOB FINISH <u>10:00 a.m. 2:00 p.m.</u>
LEASE <u>Co King wood unit</u>				LOCATION <u>Scott City KS 3 W 1 N 1/4 E VES E into</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>
WELL# <u>1</u>				OLD OR <u>NEW</u> (Circle one)			

CONTRACTOR <u>Val 7</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Production 7" (2 stage)</u>	
HOLE SIZE <u>8 3/4</u>	T.D. <u>4800</u>
CASING SIZE <u>7"</u>	DEPTH <u>4766</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>DV TOOL</u>	DEPTH <u>2247</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>31.61</u>
CEMENT LEFT IN CSG. <u>31.61</u>	
PERFS.	
DISPLACEMENT <u>Bottom 90.0000 96.53 mud Top 88.53 water</u>	

PUMP TRUCK CEMENTER <u>Paul Beaver</u>	
# <u>120</u> HELPER <u>Tyler Flipse</u>	
BULK TRUCK	
# <u>566</u> DRIVER <u>Chris Helpingstine</u>	
BULK TRUCK	
#	DRIVER

CEMENT			
AMOUNT ORDERED <u>175 sks ASC 10% Salt 2% gel</u>			
<u>5# Gilsomite .3% FL-160 .14# Defoamer</u>			
<u>265 sks AMD 2% Salt 2% Gyp-seal 2% metso 4% gel</u>			
<u>3/10 # 1% FL-160 .14 lbs Defoamer</u>			
COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	<u>175 sks</u>	@ <u>20.90</u>	<u>3657.50</u>
AMD	<u>265 sks</u>	@ <u>25.90</u>	<u>6863.50</u>
FL-160	<u>49#</u>	@ <u>18.90</u>	<u>926.10</u>
Defoamer	<u>25#</u>	@ <u>7.80</u>	<u>196.50</u>
Flo-seal	<u>66#</u>	@ <u>2.97</u>	<u>196.02</u>
Gilsomite	<u>8.75#</u>	@ <u>.98</u>	<u>8.57.50</u>
WFR TT	<u>12 bbl</u>	@ <u>58.70</u>	<u>704.40</u>
	@		
HANDLING <u>534.27 ft<sup>2</sup></u>	@ <u>2.48</u>		<u>1324.99</u>
MILEAGE <u>23.19 tons x 50mi x 2.60</u>			<u>3014.70</u>
			TOTAL <u>17787.71</u>

REMARKS: (rig pumping out @ 3000)  
Bottom Break circ. Drop ball, ball went through @ 2 pressure  
Circ. 4 hr, mix 12 bbl super flash, mix 175 sks ASC, shut down  
washup pump lines, release plug displace with 90 bbl water +  
96.53 bbl mud. Plug did land @ 1300', lift pressure 200'  
Drop Dart with 10 min. dart opened tool @ 800'  
Top 200' racks to well, mix 200' R.H. mix 210 sks  
AMD down casing. Displace with 88.53 bbl water  
plug did land, cement did circulate (25 bbl kept  
(500' at 1000' level)  
Thank You!

CHARGE TO: Lario Oil + Gas  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE			
DEPTH OF JOB	<u>4,766'</u>		
PUMP TRUCK CHARGE	<u>2765.75</u>		<u>2406.25</u>
EXTRA FOOTAGE	@		
MILEAGE <u>MIHV 55mi</u>	@ <u>7.70</u>		<u>423.50</u>
MANIFOLD <u>Head</u>	@		<u>275.00</u>
MILV <u>55mi</u>	@ <u>4.40</u>		<u>242.00</u>
	@		
			TOTAL <u>6112.50</u>

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.

PLUG & FLOAT EQUIPMENT			
<u>Flow Float Shoe</u>	@		<u>398.00</u>
<u>Latex down plug assembly</u>	@		<u>848.40</u>
<u>DV TOOL</u>	@		<u>5315.00</u>
<u>Basket</u>	@		<u>187.10</u>
<u>Centralizers</u>	<u>1B</u>	@ <u>32.80</u>	<u>590.40</u>
			TOTAL <u>7338.90</u>

PRINTED NAME MICHAEL KETTERLIAN  
SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 31,241.11  
DISCOUNT 8365.77 IF PAID IN 30 DAYS  
Bid 22,875.33 Net.

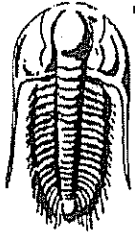




Date	10/14/13
Service Point:	Oakley
Manager	Terry Heinrich
Address	P.O. Box 27
	Oakley, KS 67248
Business Phone	785-672-3432
E-mail	terry.heinrich@alliedservices.com
Mobile	785-672-9376

				Well Data			
Company	Lanjo Oil & Gas Company	Prepared For:	Iby Schweikert	Open Hole	8 3/4	Depth	4850
Address	301 S. Market	Title:	Operation Eng.			I.D.	8.75
Address	Wichita Kansas, 67202	Business Phone:	316-265-5511			Job Excess	25
Well Name	Collingwood Unit	E-mail:		Casing Size	7	Depth	4850
Lease	# 1	Mobile Phone:				O.D.	7
Field		Prepared By:	Neal Rupp			I.D.	6.276
County	Scott	Title:	Sales & Field Operations Manag			Casing Weight	26
State	Kansas	Business Phone:	316-260-3368			Thread	STC
Section	15	E-mail:	neal.rupp@alliedservices.com			Grade	11-60
Township	19S	Mobile Phone:	316-250-7057				
Range	33W	Rig Contractor					
API Number		Rig Name					
Proposal Title:	2-Stage 7" Casing	Rig Phone					

	Units	UOM	Cost per Unit	Total	Unit	
					Net	Net
CJ50 - Casing Pump Charge 4001' to 5000'	1.00	(for 6 hours)	\$2,765.75	\$ 2,765.75	\$ 1,797.74	\$1,797.74
APTM - Additional Pump Time, in excess of set ho	1.00	(for 6 hours)	\$2,406.25	\$ 2,406.25	\$ 1,564.06	\$1,564.06
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 5,172.00		\$3,361.80
AFU Float Shoe	1.00	Each	\$398.00	\$ 398.00	\$ 398.00	\$398.00
Latch Down Plug	1.00	Each	\$848.40	\$ 848.40	\$ 848.40	\$848.40
Stage Collar	1.00	Each	\$5,315.00	\$ 5,315.00	\$ 5,315.00	\$5,315.00
Cement Basket	1.00	Each	\$187.10	\$ 187.10	\$ 187.10	\$187.10
Centralizer	18.00	Each	\$32.80	\$ 590.40	\$ 32.80	\$590.40
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 7,338.90		\$7,338.90
AMDA - ALLIED MULTI-DENS, CMT, CLASS A	400.00	per sack	\$25.90	\$ 10,360.00	\$ 16.84	\$6,734.00
ASCA - ALLIED SPECIAL BLEND CMT, CLASS A	205.00	per sack	\$20.90	\$ 4,284.50	\$ 13.59	\$2,784.93
FL-160 - FL-160 Fluid Loss Additive HI-Temp	58.00	per pound	\$18.90	\$ 1,096.20	\$ 12.29	\$712.53
PDEF - Powdered Defoamer	29.00	per pound	\$9.80	\$ 284.20	\$ 6.37	\$184.73
FLSL - Flo Seal	100.00	per pound	\$2.97	\$ 297.00	\$ 1.93	\$193.05
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
GLS - Gilsontite	1025.00	per pound	\$0.98	\$ 1,004.50	\$ 0.64	\$652.93
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 17,326.40		\$11,262.16
HDLG - Products handling service charge	729.30	per cu. ft.	\$2.48	\$ 1,808.66	\$ 1.61	\$1,175.63
DRYG - Drayage for products	1615.00	ton mile	\$2.60	\$ 4,199.00	\$ 1.69	\$2,729.35
MILV - Light Vehicle Mileage	50.00	per mile	\$4.40	\$ 220.00	\$ 2.86	\$143.00
MILV - Heavy Vehicle Mileage	50.00	per mile	\$7.70	\$ 385.00	\$ 5.01	\$250.25
Subtotal				\$ 6,612.66		\$4,298.23
CAHD - Cementing Head Rental with Manifold	1.00	per day	\$275.00	\$ 275.00	\$ 178.75	\$130.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 275.00		\$130.00
Totals:				\$ 35,724.96		\$26,391.09
DISCOUNT: Operations			35.0%	(1,810.20)		
DISCOUNT: Equipment Sales			0.0%	0.00		
DISCOUNT: Products			35.0%	(6,064.24)		
DISCOUNT: Transport			35.0%	(2,314.43)		
DISCOUNT: OTHER			35.0%	(145.00)		
			Total	(10,333.87)		



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

**Collingwood Unit #1**

Job Ticket: 54727

DST#: 1

ATTN: Bob Bayer

Test Start: 2013.09.29 @ 08:21:00

## GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:10:00

Time Test Ended: 16:25:30

Interval: **3590.00 ft (KB) To 3625.00 ft (KB) (TVD)**

Total Depth: 3625.00 ft (KB) (TVD)

Hole Diameter: 8.75 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Sam Esparza

Unit No: 64

Reference Elevations: 2967.00 ft (KB)

2957.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8845

Outside

Press@RunDepth: 37.15 psig @ 3591.00 ft (KB)

Start Date: 2013.09.29

End Date:

2013.09.29

Start Time: 08:21:05

End Time:

16:25:29

Capacity: 8000.00 psig

Last Calib.: 2013.09.29

Time On Btm: 2013.09.29 @ 10:09:15

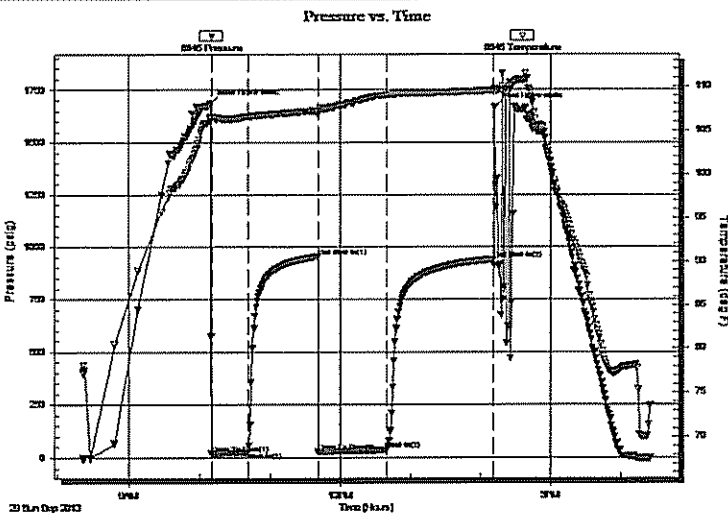
Time Off Btm: 2013.09.29 @ 14:12:30

TEST COMMENT: IF: 3" Blow.

IS: No Return.

FF: 2 3/4" Blow.

FSI: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.29	106.58	Initial Hydro-static
1	20.71	106.32	Open To Flow (1)
32	27.08	106.58	Shut-In(1)
92	954.70	107.23	End Shut-In(1)
92	28.55	106.74	Open To Flow (2)
151	37.15	109.08	Shut-In(2)
243	941.09	109.54	End Shut-In(2)
244	1666.43	109.71	Final Hydro-static

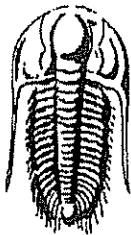
## Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM 20o 80m	0.77

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

Job Ticket: 54727

DST#: 1

ATTN: Bob Bayer

Test Start: 2013.09.29 @ 08:21:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 0.00 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 19000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	OCM 20o 80m	0.772

Total Length: 55.00 ft      Total Volume: 0.772 bbl

Num Fluid Samples: 0

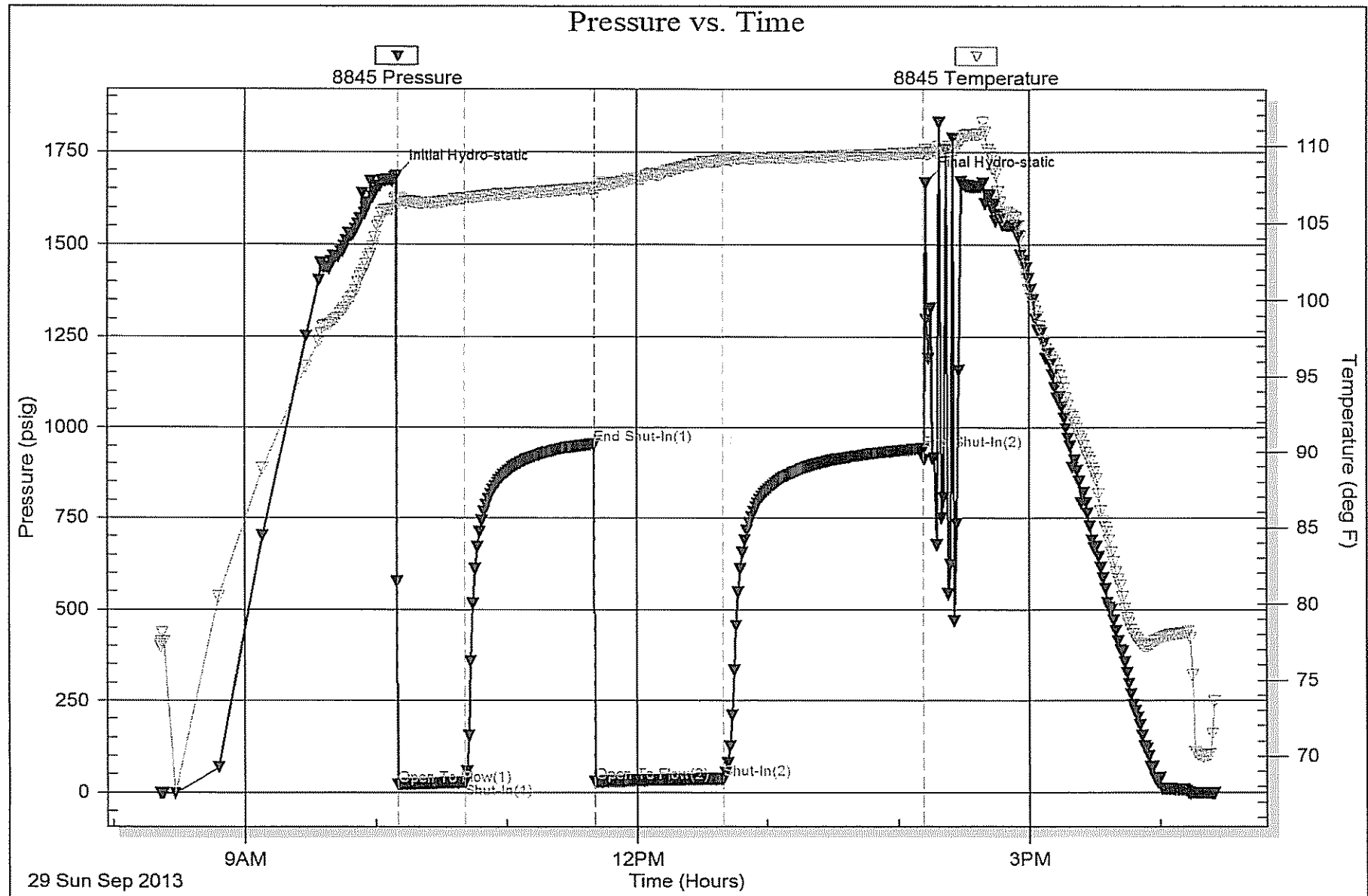
Num Gas Bombs: 0

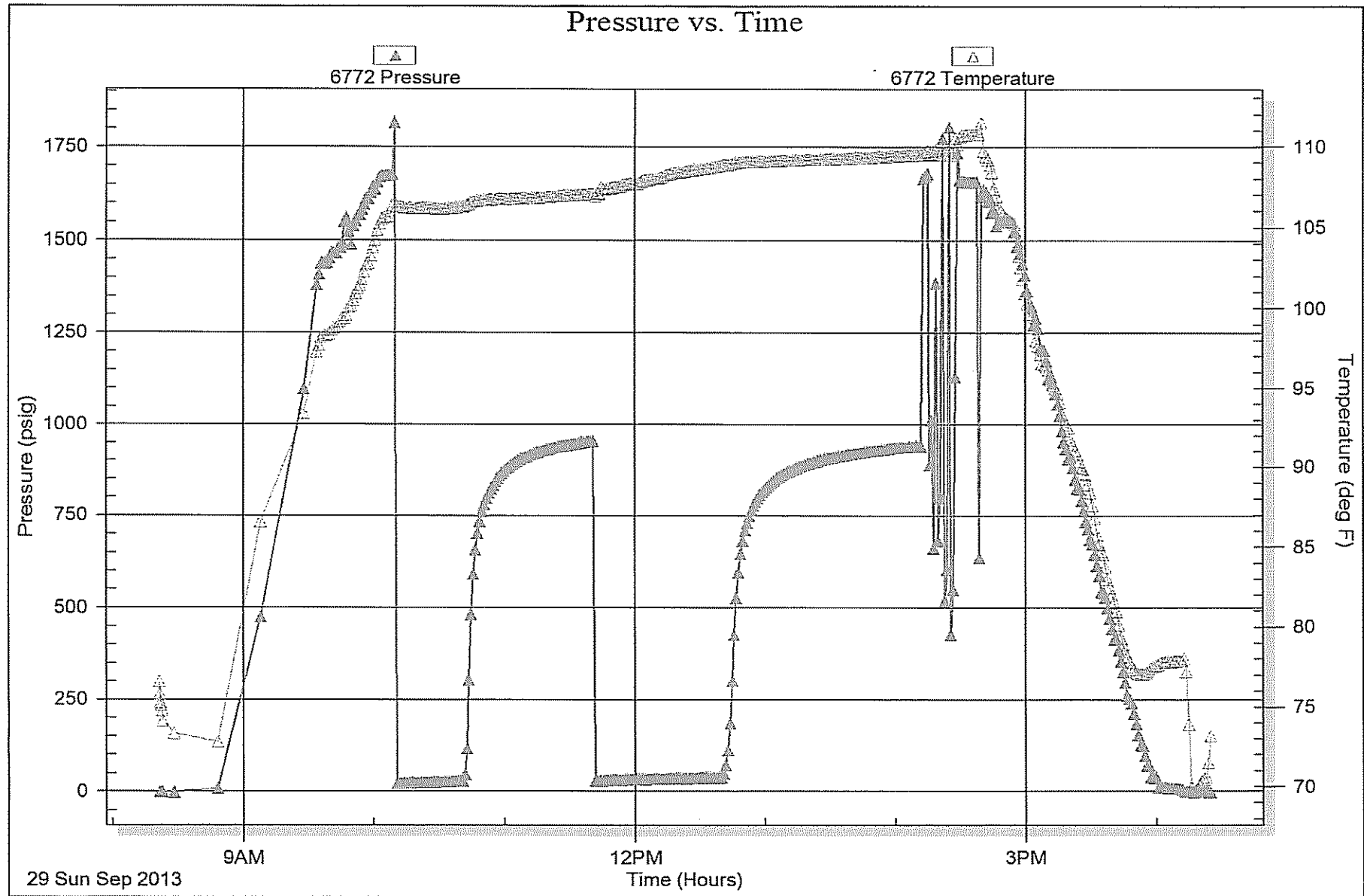
Serial #:

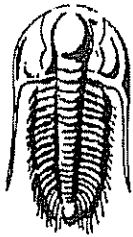
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

Job Ticket: 54728

DST#: 2

ATTN: Bob Bayer

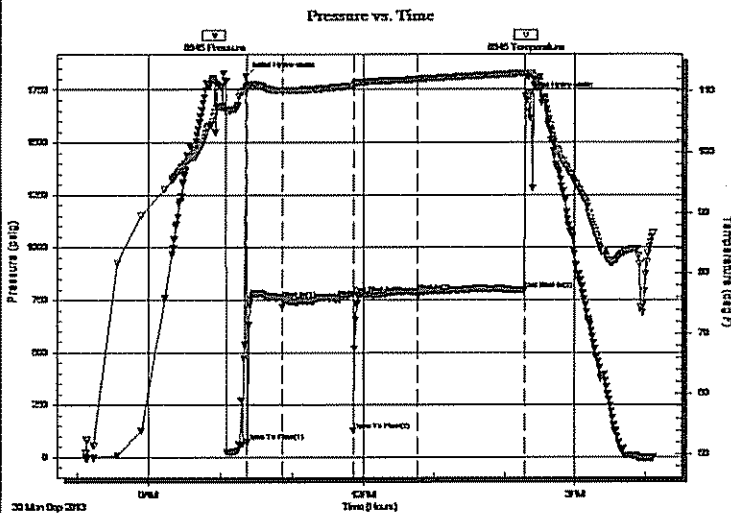
Test Start: 2013.09.30 @ 08:07:00

## GENERAL INFORMATION:

Formation: **Oread**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:22:15  
 Time Test Ended: 16:06:30  
 Interval: **3770.00 ft (KB) To 3799.00 ft (KB) (TVD)**  
 Total Depth: 3799.00 ft (KB) (TVD)  
 Hole Diameter: 8.75 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Sam Esparza  
 Unit No: 64  
 Reference Elevations: 2967.00 ft (KB)  
 2957.00 ft (CF)  
 KB to GR/CF: 10.00 ft

Serial #: **8845** Outside  
 Press@RunDepth: 790.44 psig @ 3771.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.09.30 End Date: 2013.09.30 Last Calib.: 2013.09.30  
 Start Time: 08:07:05 End Time: 16:06:29 Time On Btm: 2013.09.30 @ 10:21:15  
 Time Off Btm: 2013.09.30 @ 14:17:45

TEST COMMENT: IF: Tagged bottom 10' high tool opened then slid 10' added one joint of pipe. No Blow.  
 IS: No Return.  
 FF: No Blow.  
 FSI: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.96	110.63	Initial Hydro-static
1	75.74	110.33	Open To Flow (1)
31	754.57	110.18	Shut-In(1)
91	778.63	110.92	End Shut-In(1)
91	128.16	110.57	Open To Flow (2)
145	790.44	112.05	Shut-In(2)
236	795.72	113.07	End Shut-In(2)
237	1716.65	113.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mud 100m	1.26

## 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 Company

**15- 19s- 33w Scott Co.**

301 S Market ST  
Wichita, KS 67202

**Collingwood Unit #1**

Job Ticket: 54728

DST#: 2

ATTN: Bob Bayer

Test Start: 2013.09.30 @ 08:07:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: 7.19 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 2100.00 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
90.00	Mud 100m	1.262

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

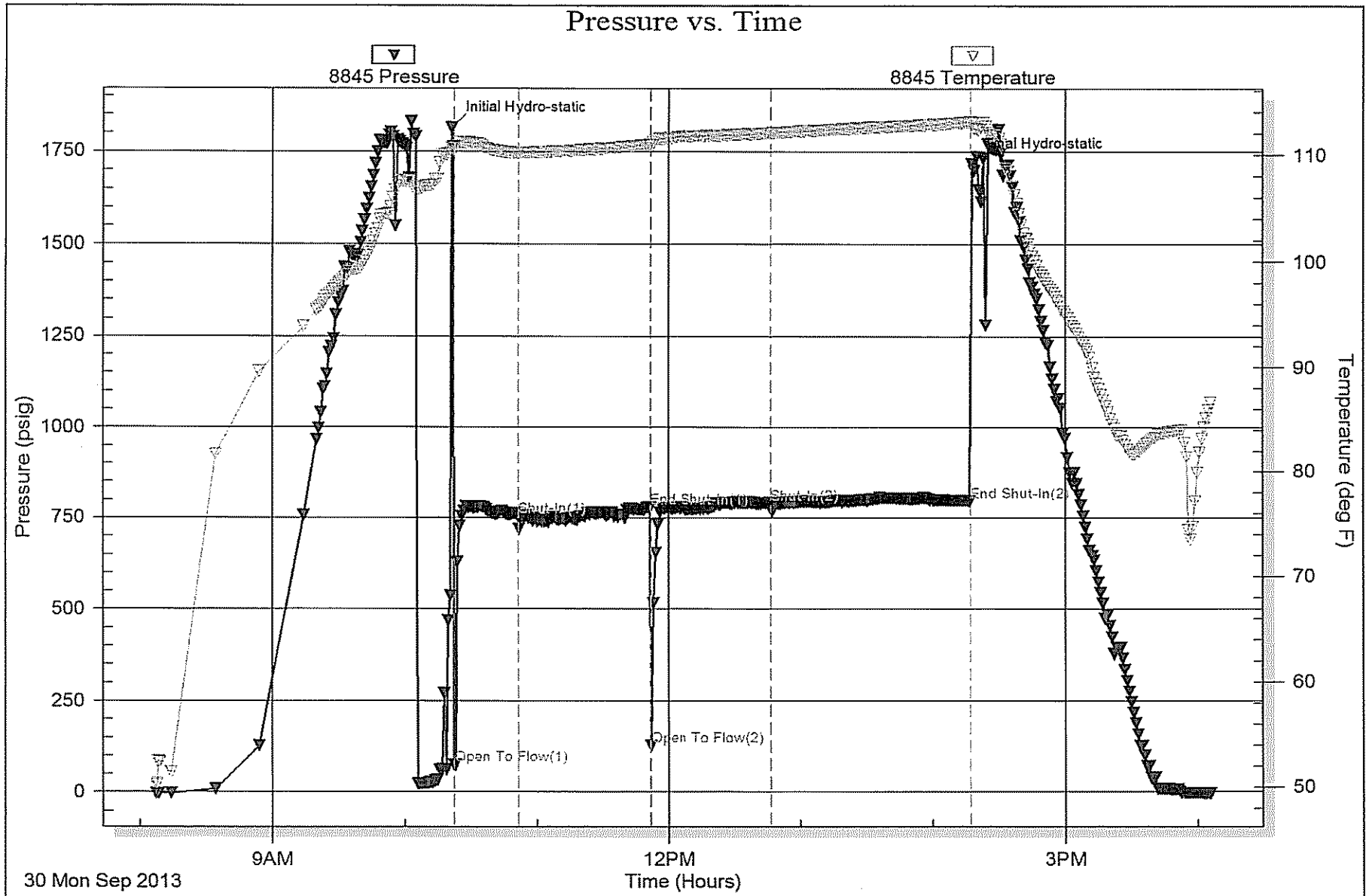
Serial #:

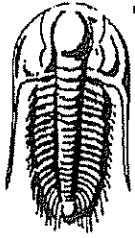
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

**Collingwood Unit #1**

Job Ticket: 54729

DST#: 3

ATTN: Bob Bayer

Test Start: 2013.10.01 @ 03:38:00

## GENERAL INFORMATION:

Formation: **Lansing " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:28:30

Time Test Ended: 11:18:15

Interval: **3875.00 ft (KB) To 3900.00 ft (KB) (TVD)**

Total Depth: 3900.00 ft (KB) (TVD)

Hole Diameter: 8.75 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Reference Elevations: 2967.00 ft (KB)

2957.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8845**

**Outside**

Press@RunDepth: 40.17 psig @ 3876.00 ft (KB)

Start Date: 2013.10.01

End Date: 2013.10.01

Start Time: 03:38:05

End Time: 11:18:14

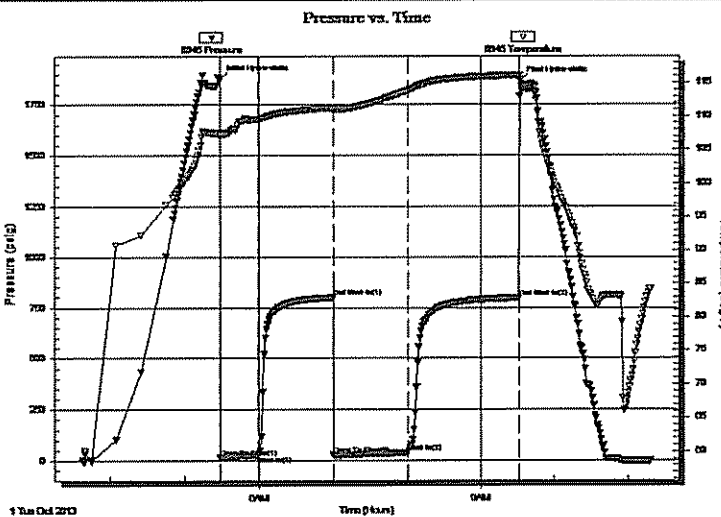
Capacity: 8000.00 psig

Last Calib.: 2013.10.01

Time On Btm: 2013.10.01 @ 05:28:15

Time Off Btm: 2013.10.01 @ 09:32:00

TEST COMMENT: IF: 2" Blow.  
IS: No Return.  
FF: 1" Blow.  
FS: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1874.71	107.55	Initial Hydro-static
1	15.76	106.99	Open To Flow (1)
32	25.03	109.50	Shut-In (1)
92	799.87	111.26	End Shut-In (1)
93	30.42	110.85	Open To Flow (2)
153	40.17	113.86	Shut-In (2)
243	797.45	116.09	End Shut-In (2)
244	1864.94	115.39	Final Hydro-static

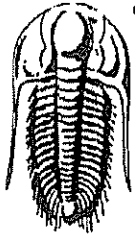
## Recovery

Length (ft)	Description	Volume (tbb)
55.00	OWCM 10w 20o 70m	0.77

## 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 Company

**15- 19s- 33w Scott Co.**

301 S Market ST  
Wichita, KS 67202

**Collingwood Unit #1**

Job Ticket: 54729

DST#: 3

ATTN: Bob Bayer

Test Start: 2013.10.01 @ 03:38:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 6.40 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	OWCM 10w 20o 70m	0.772

Total Length: 55.00 ft      Total Volume: 0.772 bbl

Num Fluid Samples: 0

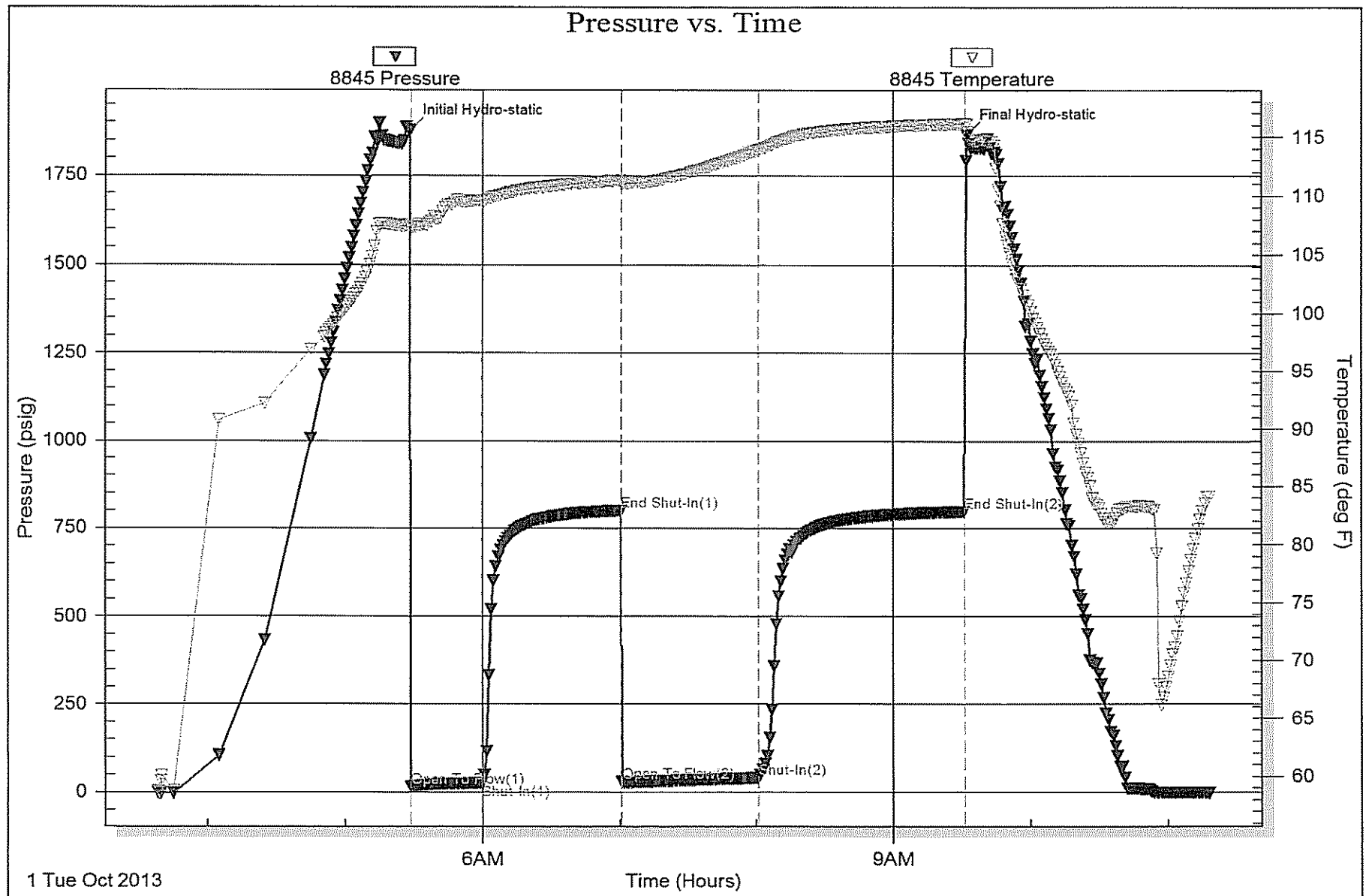
Num Gas Bombs: 0

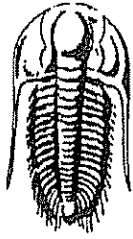
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

ATTN: Bob Bayer

Job Ticket: 54730

DST#: 4

Test Start: 2013.10.01 @ 23:11:00

## GENERAL INFORMATION:

Formation: **Lansing " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:37:45

Time Test Ended: 07:52:00

Interval: **3940.00 ft (KB) To 3960.00 ft (KB) (TVD)**

Total Depth: **3960.00 ft (KB) (TVD)**

Hole Diameter: **8.75 inches** Hole Condition: **Good**

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

Tester: **Sam Esparza**

Unit No: **64**

Reference Elevations: **2967.00 ft (KB)**

**2957.00 ft (CF)**

KB to GR/CF: **10.00 ft**

Serial #: **8845** Outside

Press@RunDepth: **39.63 psig @ 3941.00 ft (KB)**

Start Date: **2013.10.01**

End Date:

**2013.10.02**

Start Time: **23:11:05**

End Time:

**07:52:00**

Capacity: **8000.00 psig**

Last Calib.: **2013.10.02**

Time On Btm: **2013.10.02 @ 01:37:30**

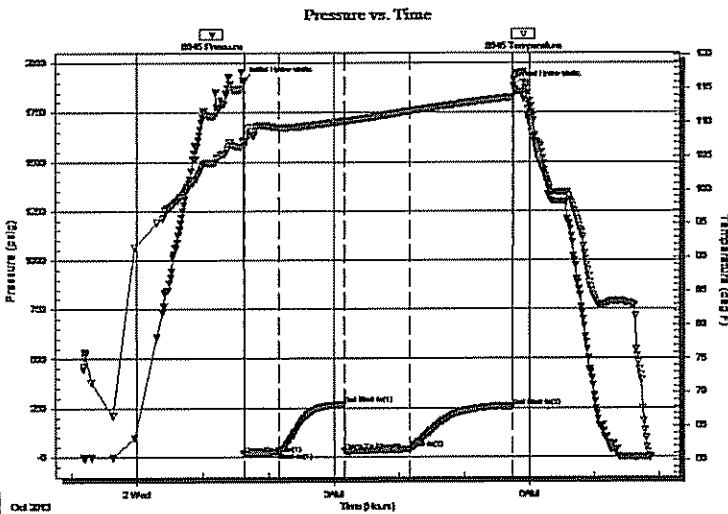
Time Off Btm: **2013.10.02 @ 05:45:45**

TEST COMMENT: IF: 5 3/4" Blow .

IS: No Return.

FF: 7" Blow .

FS: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1907.01	107.32	Initial Hydro-static
1	17.01	106.44	Open To Flow (1)
32	24.69	109.24	Shut-In(1)
92	270.18	110.24	End Shut-In(1)
93	29.31	110.15	Open To Flow (2)
153	39.63	111.64	Shut-In(2)
248	255.89	113.73	End Shut-In(2)
249	1883.85	116.19	Final Hydro-static

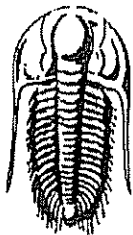
## Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOCM 10g 30o 60m	0.42
40.00	GO 20g 80o	0.56

\* 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 Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

Job Ticket: 54730

DST#: 4

ATTN: Bob Bayer

Test Start: 2013.10.01 @ 23:11:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	GOCM 10g 30o 60m	0.421
40.00	GO 20g 80o	0.561

Total Length: 70.00 ft      Total Volume: 0.982 bbl

Num Fluid Samples: 0

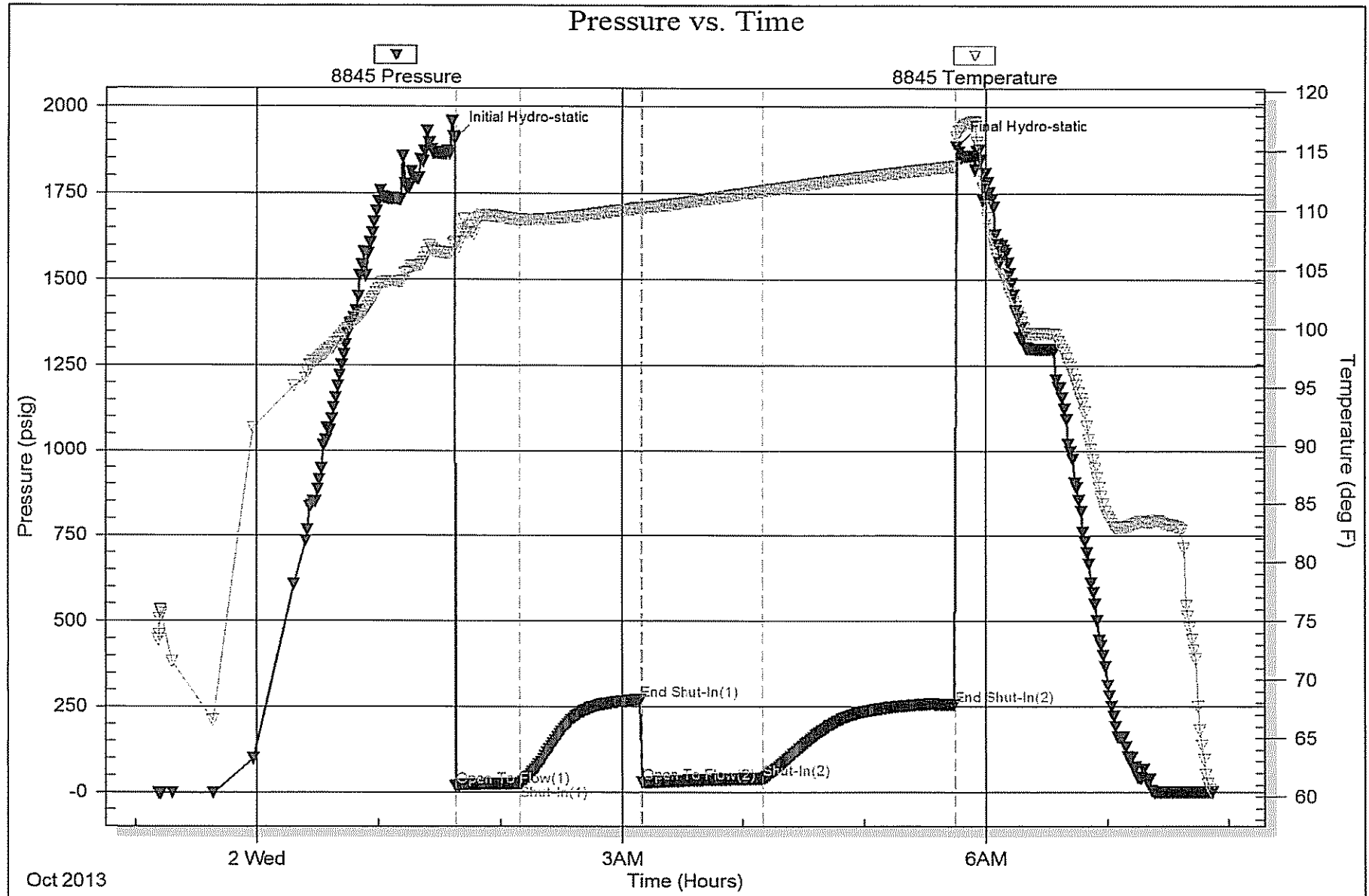
Num Gas Bombs: 0

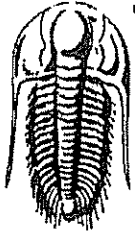
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API: 29 @ 60 degrees= 29 deg API





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

Job Ticket: 54731

DST#: 5

ATTN: Bob Bayer

Test Start: 2013.10.02 @ 17:19:00

## GENERAL INFORMATION:

Formation: **Lansing " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:57:00

Time Test Ended: 01:09:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 3971.00 ft (KB) To 4005.00 ft (KB) (TVD)

Total Depth: 4005.00 ft (KB) (TVD)

Hole Diameter: 8.75 inches Hole Condition: Good

Reference Elevations: 2967.00 ft (KB)

2957.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8845

Outside

Press@RunDepth: 190.11 psig @ 3972.00 ft (KB)

Start Date: 2013.10.02

End Date:

2013.10.03

Start Time: 17:19:05

End Time:

01:09:14

Capacity: 8000.00 psig

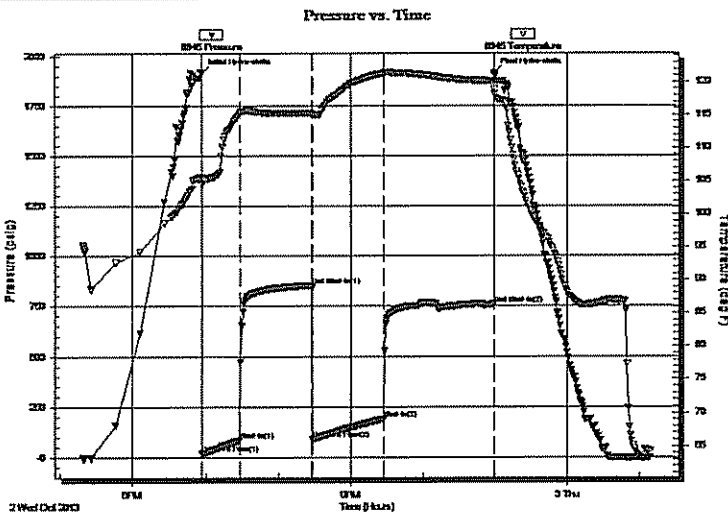
Last Calib.: 2013.10.03

Time On Bltn: 2013.10.02 @ 18:56:45

Time Off Bltn: 2013.10.02 @ 22:59:30

TEST COMMENT: IF: BOB @ 28 min.  
IS: No Return.  
FF: BOB @ 33 min.  
FSI: Weak Surface Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.76	105.51	Initial Hydro-static
1	17.47	104.33	Open To Flow (1)
32	82.91	115.15	Shut-In(1)
91	853.80	115.29	End Shut-In(1)
92	87.68	115.01	Open To Flow (2)
151	190.11	121.24	Shut-In(2)
242	759.49	120.11	End Shut-In(2)
243	1912.01	118.90	Final Hydro-static

## Recovery

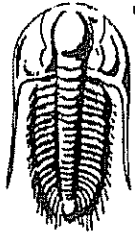
Length (ft)	Description	Volume (bbl)
240.00	MCW 20m 80w	3.37
150.00	WCM 30w 70m	2.10

## 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 Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

Job Ticket: 54731

DST#: 5

ATTN: Bob Bayer

Test Start: 2013.10.02 @ 17:19:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 8.59 in<sup>3</sup>

Resistivity: 0.00 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: deg API

Water Salinity: 50000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	MCW 20m 80w	3.367
150.00	WCM 30w 70m	2.104

Total Length: 390.00 ft      Total Volume: 5.471 bbl

Num Fluid Samples: 0

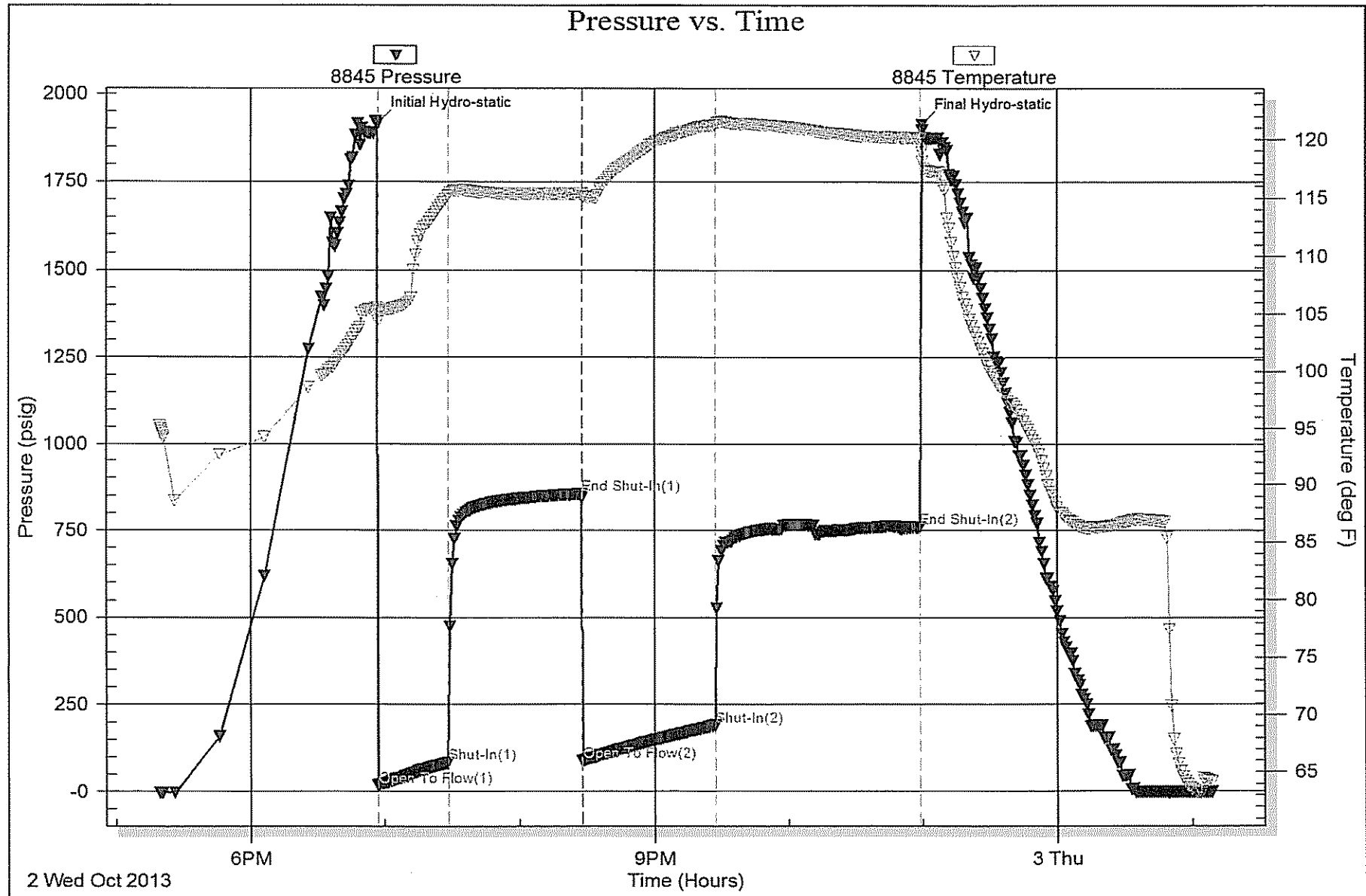
Num Gas Bombs: 0

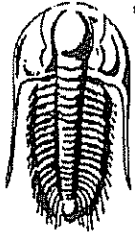
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity: .152 @ 63 degrees= 50,000 ppm





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

Job Ticket: 54732

DST#: 6

ATTN: Bob Bayer

Test Start: 2013.10.03 @ 12:59:00

## GENERAL INFORMATION:

Formation: **Lansing "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:21:00

Time Test Ended: 20:09:00

Interval: **4063.00 ft (KB) To 4080.00 ft (KB) (TVD)**

Total Depth: **4080.00 ft (KB) (TVD)**

Hole Diameter: **8.75 inches** Hole Condition: **Good**

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

Tester: **Sam Esparza**

Unit No: **64**

Reference Elevations: **2967.00 ft (KB)**

**2957.00 ft (CF)**

KB to GR/CF: **10.00 ft**

Serial #: **8845**

Outside

Press@RunDepth: **71.87 psig @ 4064.00 ft (KB)**

Start Date: **2013.10.03**

End Date:

**2013.10.03**

Start Time: **12:59:05**

End Time:

**20:08:59**

Capacity: **8000.00 psig**

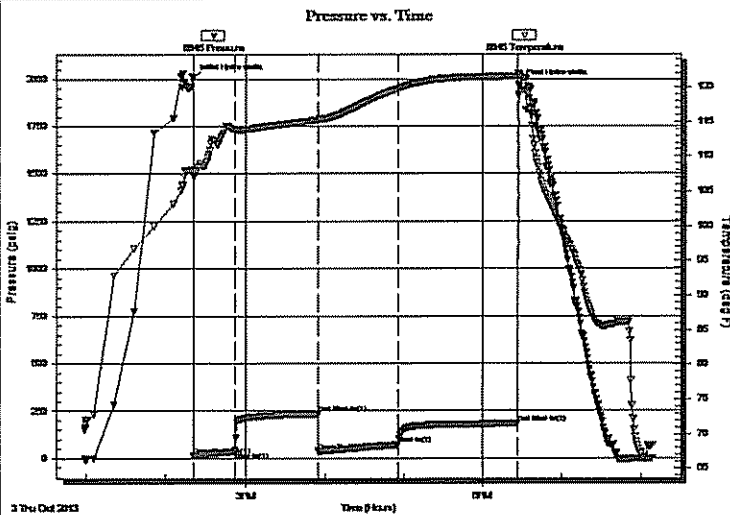
Last Calib.: **2013.10.03**

Time On Btm: **2013.10.03 @ 14:20:45**

Time Off Btm: **2013.10.03 @ 18:27:45**

TEST COMMENT: IF: 4 1/4" Blow.  
IS: No Return.  
FF: 5 1/4" Blow.  
FSI: 1 1/4" Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.16	108.15	Initial Hydro-static
1	16.15	107.29	Open To Flow (1)
31	36.28	113.92	Shut-In(1)
94	234.85	115.26	End Shut-In(1)
95	39.52	115.17	Open To Flow (2)
155	71.87	119.83	Shut-In(2)
246	185.36	121.61	End Shut-In(2)
247	1972.81	121.84	Final Hydro-static

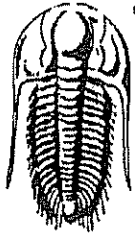
## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW 20m 80w	1.68
30.00	WCM 20w 80m	0.42

## 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 Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

**Collingwood Unit #1**

Job Ticket: 54732

DST#: 6

ATTN: Bob Bayer

Test Start: 2013.10.03 @ 12:59:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 9.19 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 5500.00 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: 50000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCW 20m 80w	1.683
30.00	WCM 20w 80m	0.421

Total Length: 150.00 ft      Total Volume: 2.104 bbl

Num Fluid Samples: 0

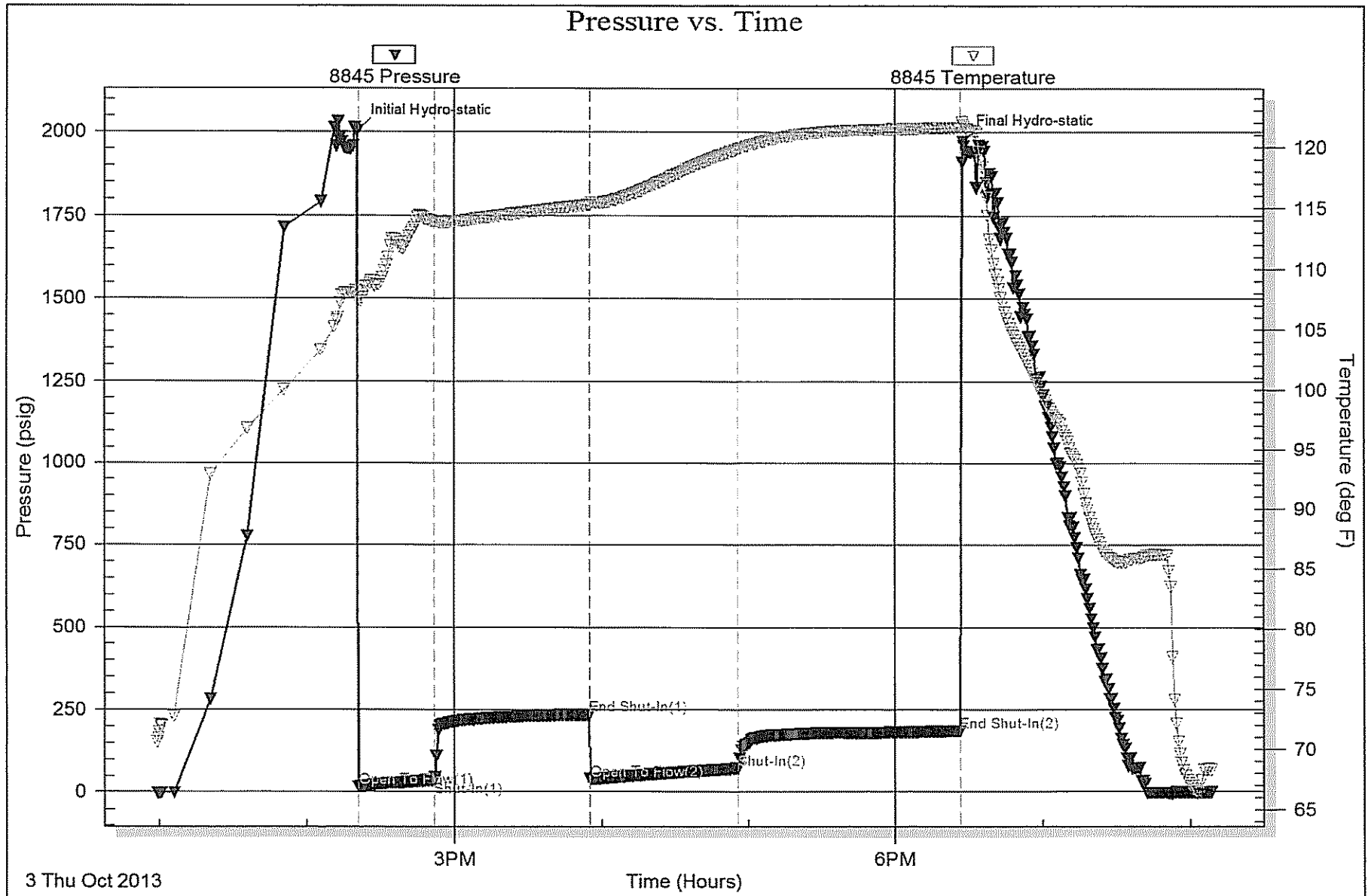
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity: .142 @ 71 degrees= 50,000 ppm





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

ATTN: Bob Bayer

Job Ticket: 54733

DST#: 7

Test Start: 2013.10.04 @ 06:22:00

## GENERAL INFORMATION:

Formation: **Lansing "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:57:30

Time Test Ended: 13:25:15

Interval: **4097.00 ft (KB) To 4129.00 ft (KB) (TVD)**

Total Depth: 4129.00 ft (KB) (TVD)

Hole Diameter: 8.75 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Reference Elevations: 2967.00 ft (KB)

2957.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8845

Outside

Press@RunDepth: 16.26 psig @ 4098.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.04 End Date: 2013.10.04

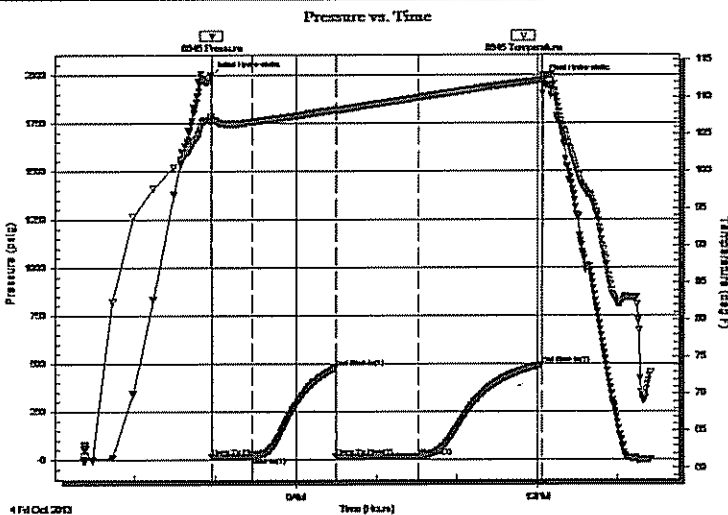
Last Calib.: 2013.10.04

Start Time: 06:22:05 End Time: 13:25:14

Time On Btm: 2013.10.04 @ 07:57:00

Time Off Btm: 2013.10.04 @ 12:04:00

TEST COMMENT: IF: 1/4" Blow.  
IS: No Return.  
FF: No Blow.  
FS: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1994.74	107.34	Initial Hydro-static
1	15.45	106.83	Open To Flow (1)
31	16.48	106.65	Shut-In(1)
93	479.23	108.29	End Shut-In(1)
93	16.55	108.20	Open To Flow (2)
155	16.26	109.95	Shut-In(2)
247	495.59	112.30	End Shut-In(2)
247	1971.10	112.94	Final Hydro-static

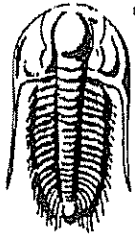
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m ( Oil Scum on Top )	0.14

## 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 Company

**15- 19s- 33w Scott Co.**

301 S Market ST  
Wichita, KS 67202

**Collingwood Unit #1**

Job Ticket: 54733

**DST#: 7**

ATTN: Bob Bayer

Test Start: 2013.10.04 @ 06:22:00

## 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: 65.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m ( Oil Scum on Top )	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

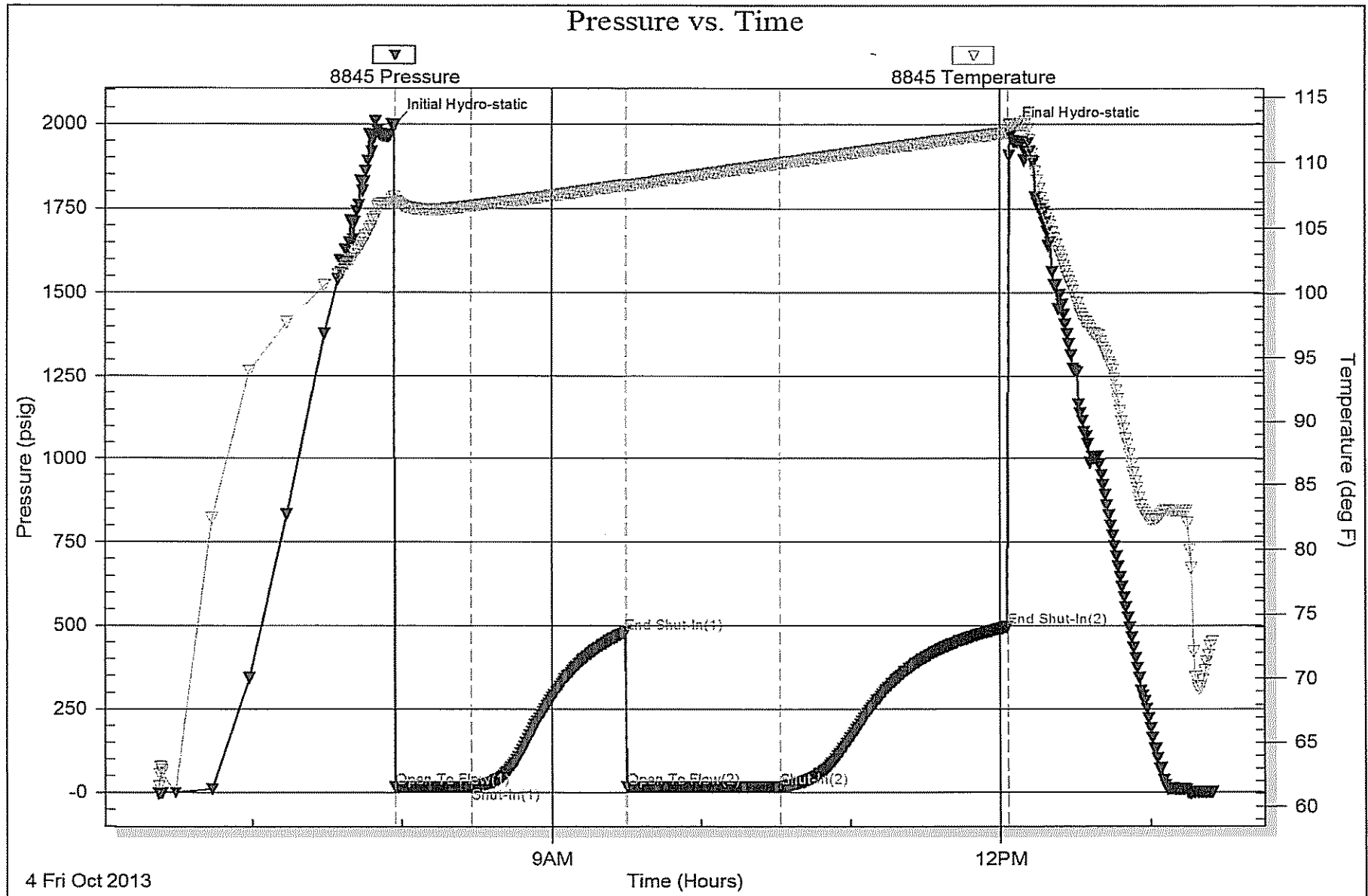
Num Gas Bombs: 0

Serial #:

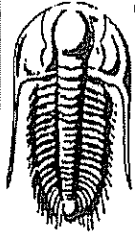
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

ATTN: Bob Bayer

Job Ticket: 54734

DST#: 8

Test Start: 2013.10.05 @ 00:38:00

## GENERAL INFORMATION:

Formation: **Lansing " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:32:30

Time Test Ended: 09:51:45

Interval: **4163.00 ft (KB) To 4190.00 ft (KB) (TVD)**

Total Depth: 4190.00 ft (KB) (TVD)

Hole Diameter: 8.75 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Reference Elevations: 2967.00 ft (KB)

2957.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8845

Outside

Press@RunDepth: 701.70 psig @ 4164.00 ft (KB)

Start Date: 2013.10.05

End Date:

2013.10.05

Start Time: 00:38:05

End Time:

09:51:45

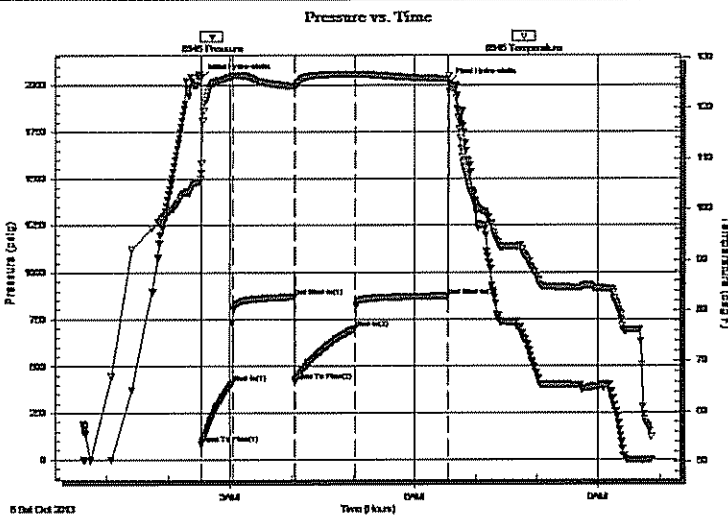
Capacity: 8000.00 psig

Last Calib.: 2013.10.05

Time On Btm: 2013.10.05 @ 02:32:00

Time Off Btm: 2013.10.05 @ 06:34:15

TEST COMMENT: IF: BOB @ 2 min.  
IS: No Return.  
FF: BOB @ 5 min.  
FS: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.93	105.97	Initial Hydro-static
1	83.18	107.16	Open To Flow (1)
31	412.55	126.28	Shut-In(1)
91	871.36	124.35	End Shut-In(1)
92	422.72	124.15	Open To Flow (2)
151	701.70	126.73	Shut-In(2)
242	874.59	125.79	End Shut-In(2)
243	2012.11	124.95	Final Hydro-static

## Recovery

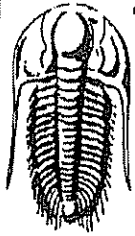
Length (ft)	Description	Volume (bbl)
1195.00	MCW 5m 95w ( Oil Spots )	16.76
315.00	OWCM 10o 40w 50m	4.42
45.00	Clean Oil 100o	0.63

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Lario Oil & Gas Company

**15- 19s- 33w Scott Co.**

301 S Market ST  
Wichita, KS 67202

**Collingwood Unit #1**

Job Ticket: 54734

DST#: 8

ATTN: Bob Bayer

Test Start: 2013.10.05 @ 00:38:00

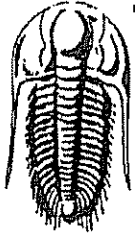
### Tool Information

Drill Pipe:	Length: 4143.00 ft	Diameter: 3.80 inches	Volume: 58.12 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 58.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	4163.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 8.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4136.00	
Shut In Tool	5.00			4141.00	
Hydraulic tool	5.00			4146.00	
Jars	5.00			4151.00	
Safety Joint	3.00			4154.00	
Packer	5.00			4159.00	28.00 Bottom Of Top Packer
Packer	4.00			4163.00	
Stubb	1.00			4164.00	
Recorder	0.00	6772	Outside	4164.00	
Recorder	0.00	8845	Outside	4164.00	
Perforations	21.00			4185.00	
Bullnose	5.00			4190.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

Job Ticket: 54734

DST#: 8

ATTN: Bob Bayer

Test Start: 2013.10.05 @ 00:38:00

## 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: 0.00 ohm.m  
Salinity: 4800.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 21 deg API  
Water Salinity: 58000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1195.00	MCW 5m 95w ( Oil Spots )	16.763
315.00	OWCM 10o 40w 50m	4.419
45.00	Clean Oil 100o	0.631

Total Length: 1555.00 ft      Total Volume: 21.813 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

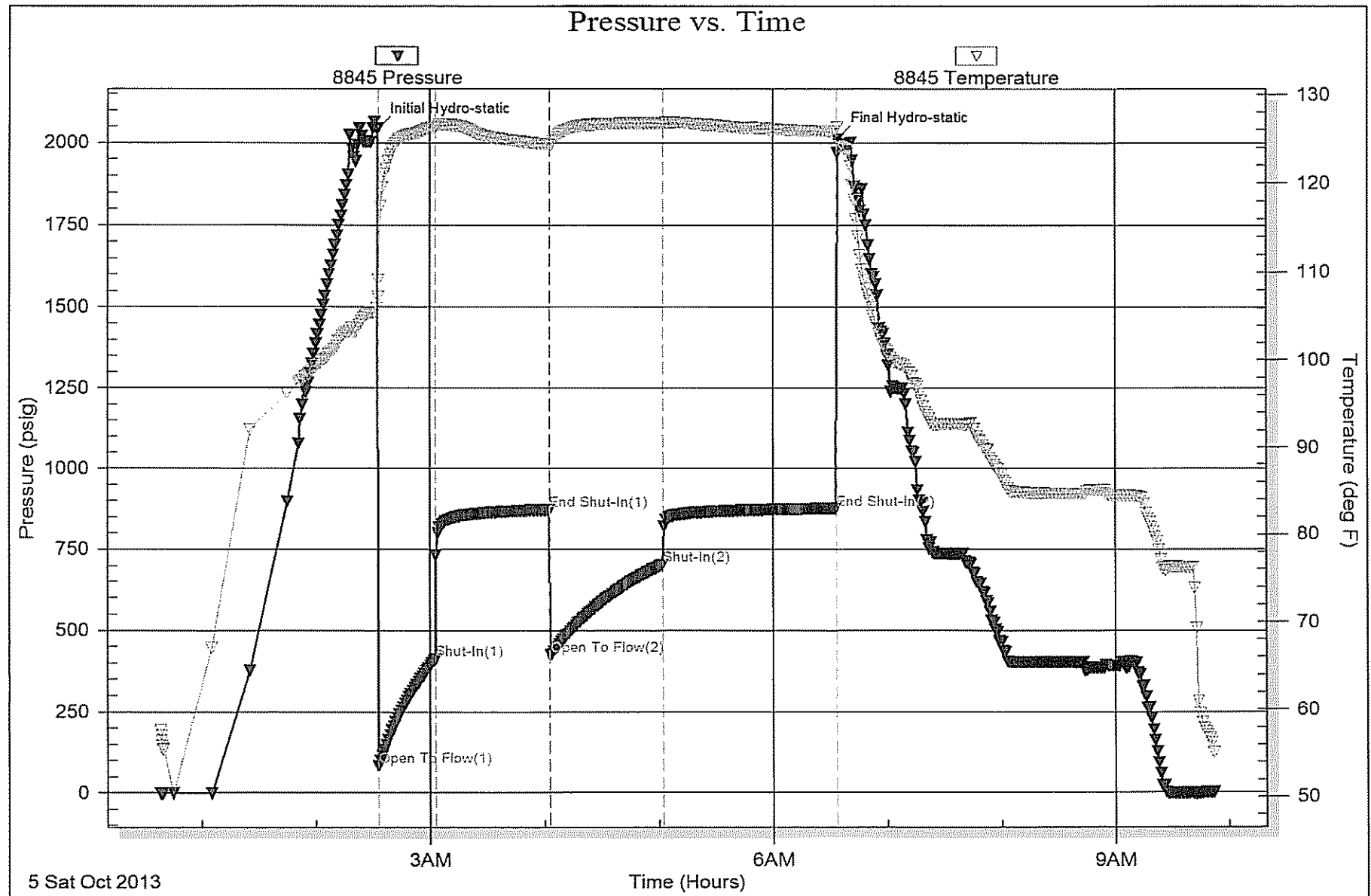
Serial #:

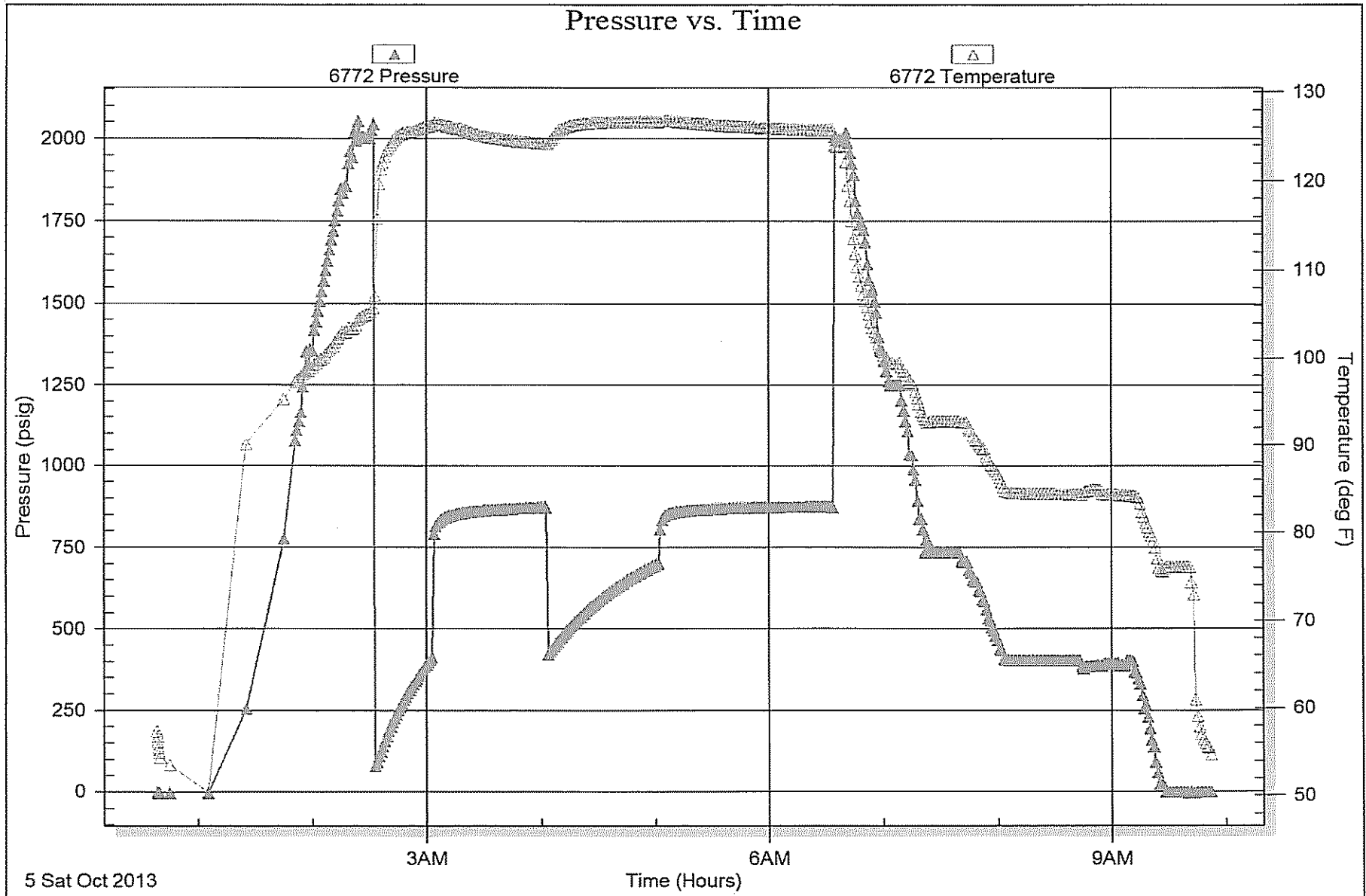
Laboratory Name:

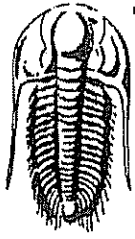
Laboratory Location:

Recovery Comments: Oil API: 19 @ 40 degrees= 21 deg API

Water Salinity: .206 @ 42 degrees= 58,000 ppm







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

**Collingwood Unit #1**

ATTN: Bob Bayer

Job Ticket: 54735

DST#: 9

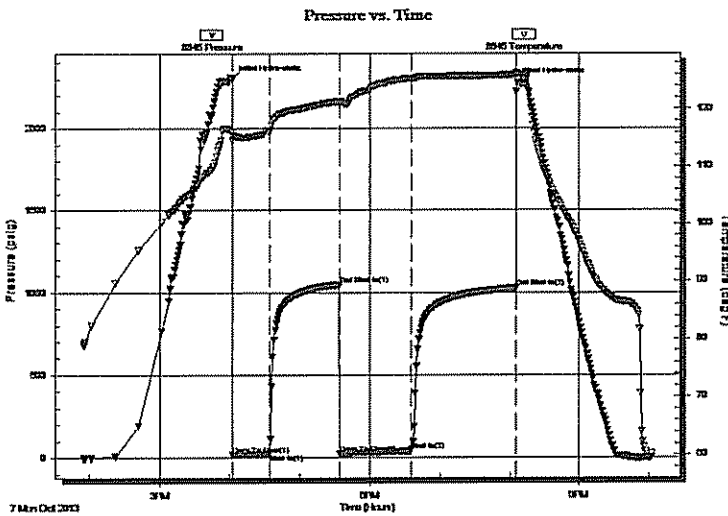
Test Start: 2013.10.07 @ 13:55:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:02:30  
 Time Test Ended: 22:02:15  
 Interval: **4615.00 ft (KB) To 4638.00 ft (KB) (TVD)**  
 Total Depth: **4638.00 ft (KB) (TVD)**  
 Hole Diameter: **8.75 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Sam Esparza**  
 Unit No: **64**  
 Reference Elevations: **2967.00 ft (KB)**  
**2957.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

**Serial #: 8845** **Outside**  
 Press@RunDepth: **40.96 psig @ 4616.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2013.10.07** End Date: **2013.10.07** Last Calib.: **2013.10.07**  
 Start Time: **13:55:05** End Time: **22:02:14** Time On Btm: **2013.10.07 @ 16:02:15**  
 Time Off Btm: **2013.10.07 @ 20:06:15**

**TEST COMMENT:** IF: 1 3/4" Blow.  
 IS: No Return.  
 FF: 1 1/4" Blow.  
 FS: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2301.81	115.86	Initial Hydro-static
1	16.93	114.53	Open To Flow (1)
32	25.48	116.16	Shut-In(1)
92	1045.85	121.23	End Shut-In(1)
92	26.63	120.78	Open To Flow (2)
153	40.96	125.33	Shut-In(2)
243	1026.41	125.95	End Shut-In(2)
244	2279.89	126.13	Final Hydro-static

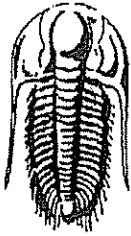
## Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100m ( Oil Spots )	0.70

\* 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 Company

**15- 19s- 33w Scott Co.**

301 S Market ST  
Wichita, KS 67202

**Collingwood Unit #1**

Job Ticket: 54735

**DST#: 9**

ATTN: Bob Bayer

Test Start: 2013.10.07 @ 13:55:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 53.00 sec/qt  
Water Loss: 7.60 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 2800.00 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
50.00	Mud 100m ( Oil Spots )	0.701

Total Length: 50.00 ft      Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

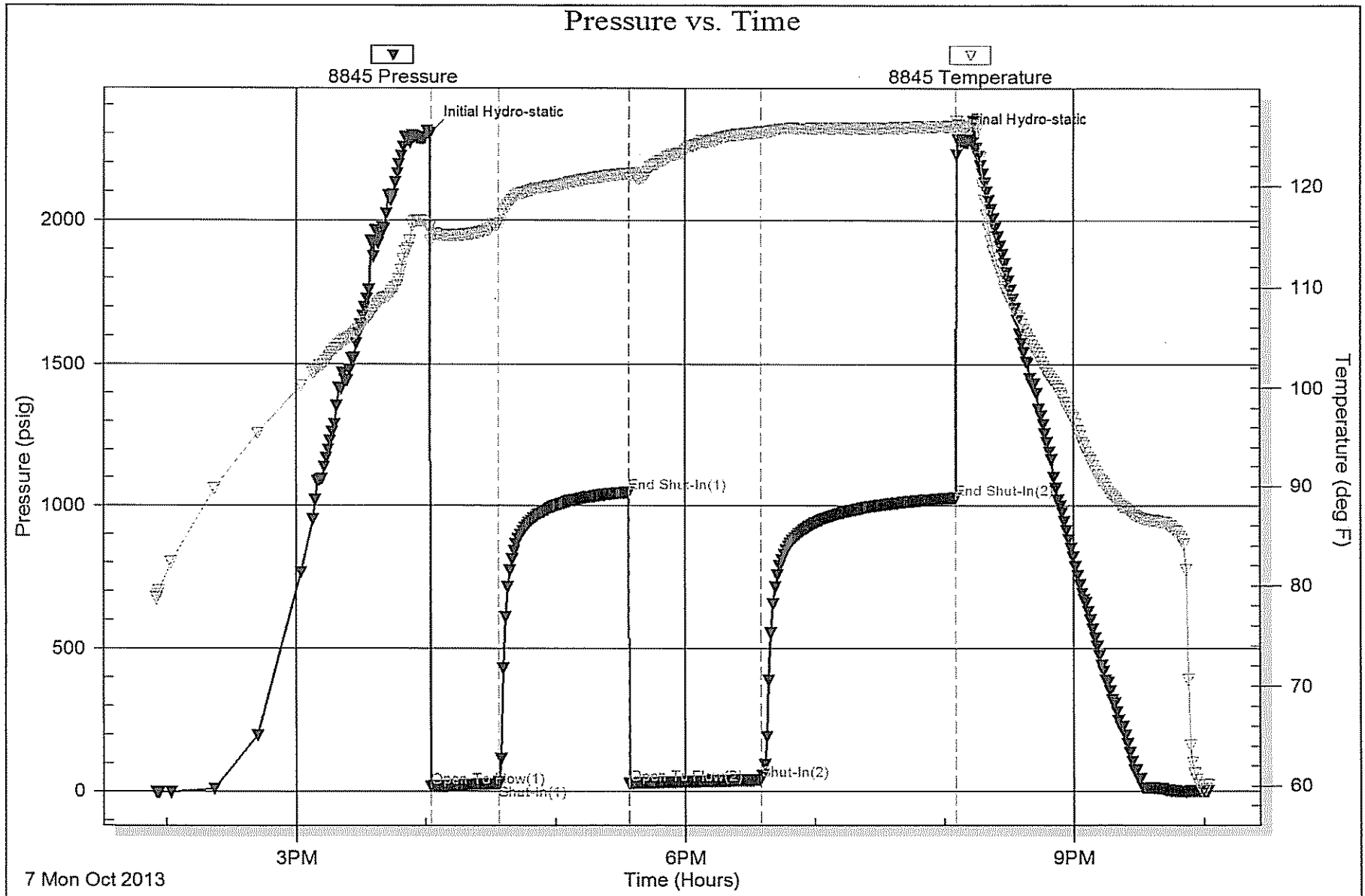
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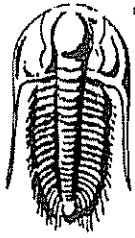
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

Job Ticket: 54736

DST#: 10

ATTN: Bob Bayer

Test Start: 2013.10.08 @ 08:59:00

## GENERAL INFORMATION:

Formation: **Miss. St Louis " B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:41:15

Time Test Ended: 17:35:15

Interval: **4657.00 ft (KB) To 4685.00 ft (KB) (TVD)**

Total Depth: 4685.00 ft (KB) (TVD)

Hole Diameter: 8.75 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Reference Elevations: 2967.00 ft (KB)

2957.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8845

Outside

Press@RunDepth: 367.24 psig @ 4658.00 ft (KB)

Start Date: 2013.10.08

End Date:

2013.10.08

Start Time: 08:59:05

End Time:

17:35:15

Capacity: 8000.00 psig

Last Calib.: 2013.10.08

Time On Btm: 2013.10.08 @ 10:40:45

Time Off Btm: 2013.10.08 @ 14:44:45

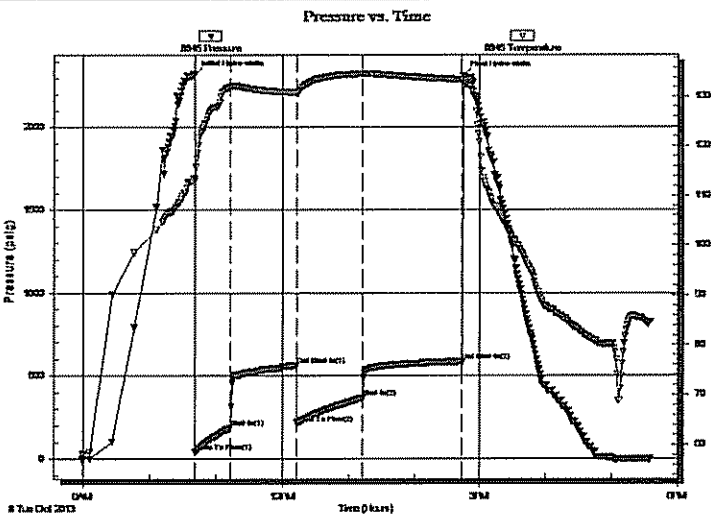
TEST COMMENT: IF: BOB @ 3 1/2 min.

IS: Bled off for 5 min. BOB Return @ 48 min.

FF: Bled off for 2 min before opening back up. BOB @ 4 1/2 min.

FSt: Bled off for 5 min. BOB Return @ 35 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2324.82	113.59	Initial Hydro-static
1	42.44	112.93	Open To Flow (1)
33	187.29	132.03	Shut-In(1)
92	563.75	130.89	End Shut-In(1)
93	214.34	130.73	Open To Flow (2)
153	367.24	134.68	Shut-In(2)
243	585.77	133.49	End Shut-In(2)
244	2315.59	132.92	Final Hydro-static

## Recovery

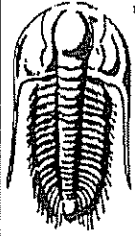
Length (ft)	Description	Volume (bbl)
120.00	GOMCW 10g 10o 10m 70w	1.68
120.00	GOCM 10g 30o 60m	1.68
660.00	GO 20g 80o	9.26
0.00	750' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

Collingwood Unit #1

Job Ticket: 54736

DST#: 10

ATTN: Bob Bayer

Test Start: 2013.10.08 @ 08:59:00

### Tool Information

Drill Pipe:	Length: 4639.00 ft	Diameter: 3.80 inches	Volume: 65.07 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 65.07 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4657.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 8.00 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4630.00	
Shut In Tool	5.00			4635.00	
Hydraulic tool	5.00			4640.00	
Jars	5.00			4645.00	
Safety Joint	3.00			4648.00	
Packer	5.00			4653.00	28.00 Bottom Of Top Packer
Packer	4.00			4657.00	
Stubb	1.00			4658.00	
Recorder	0.00	6772	Outside	4658.00	
Recorder	0.00	8845	Outside	4658.00	
Perforations	22.00			4680.00	
Bullnose	5.00			4685.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Lario Oil & Gas Company

15- 19s- 33w Scott Co.

301 S Market ST  
Wichita, KS 67202

**Collingwood Unit #1**

Job Ticket: 54736

DST#: 10

ATTN: Bob Bayer

Test Start: 2013.10.08 @ 08:59:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 7.60 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 2800.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 26 deg API  
Water Salinity: 30000 ppm

## Recovery Information

Recovery Table

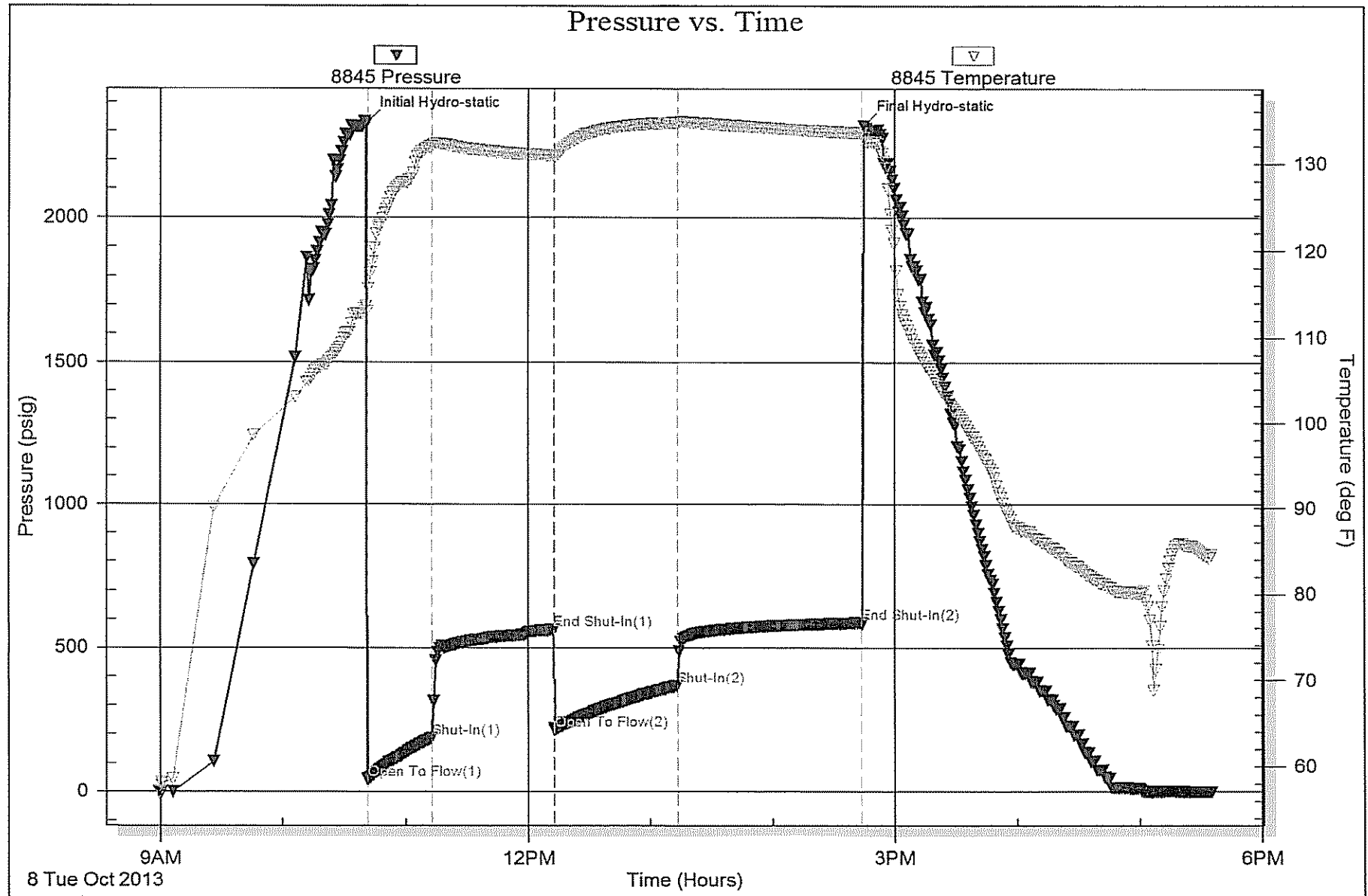
Length ft	Description	Volume bbl
120.00	GOMCW 10g 10o 10m 70w	1.683
120.00	GOCM 10g 30o 60m	1.683
660.00	GO 20g 80o	9.258
0.00	750' GIP	0.000

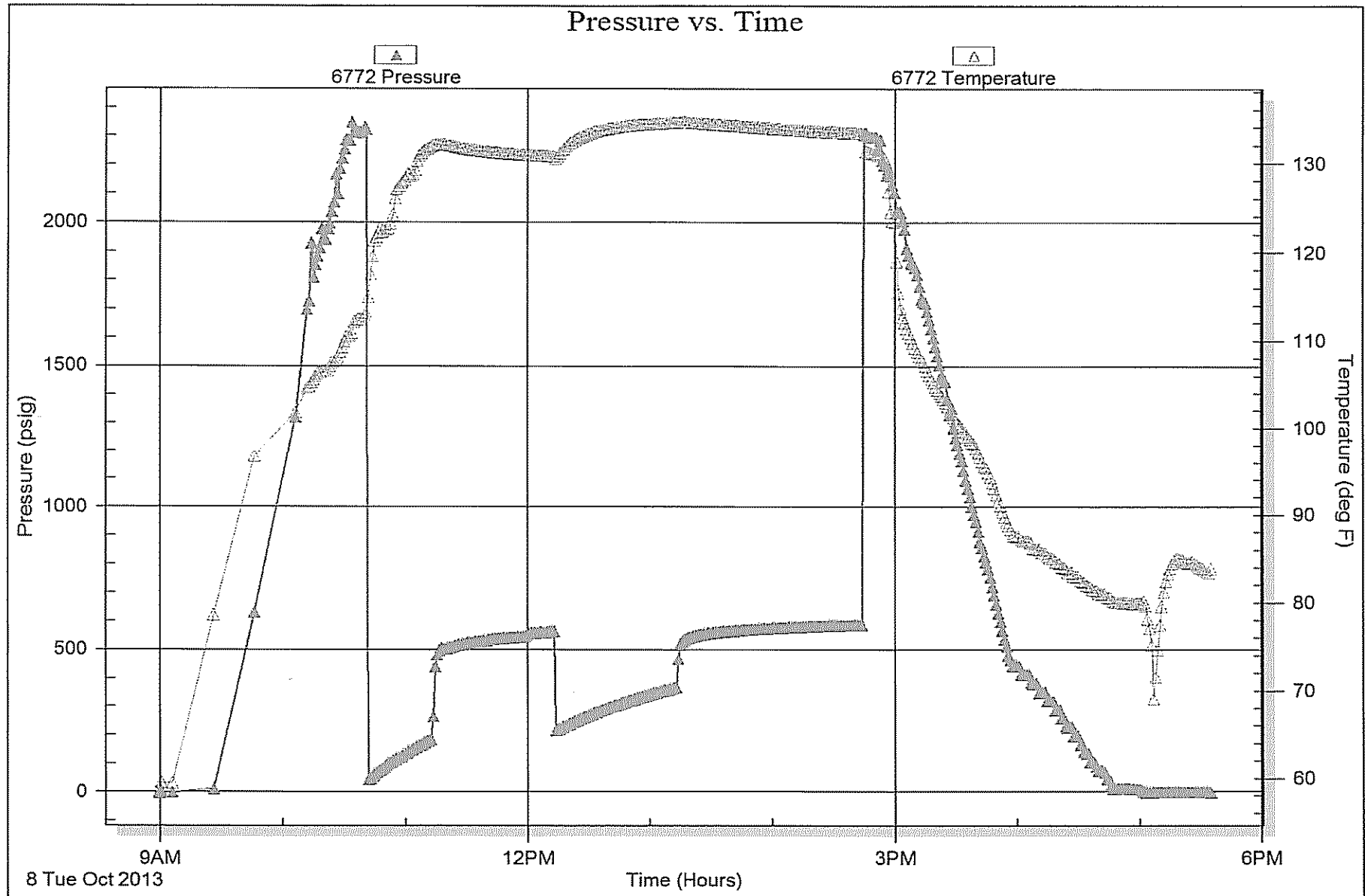
Total Length: 900.00 ft      Total Volume: 12.624 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Oil API: 28 @ 80 degrees= 26 deg API  
Water Salinity: .153 @ 84 degrees= 30,000 ppm





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

November 13, 2013

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

Re: ACO1  
API 15-171-20974-00-00  
Collingwood Unit 1  
E/2 Sec.15-19S-33W  
Scott 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