

**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 # 263685

=====  
Invoice Date: 10/31/2013      Terms:      Page 1  
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LARIO OIL & GAS  
P.O. BOX 1093  
GARDEN CITY KS 67846  
(316)265-5611

FEIER TAS A 9-15  
15-19-33

Feiertag A 9-15  
drilling AFE 13.268  
11-6-13 LK

=====  
Part Number      Description      Qty      Unit Price      Total

1104S	CLASS "A" CEMENT (SALE)	375.00	18.5500	6956.25
1102	CALCIUM CHLORIDE (50#)	1058.00	.9400	994.52
1118B	PREMIUM GEL / BENTONITE	705.00	.2700	190.35

Sublet Performed      Description      Total

9996-130	CEMENT MATERIAL DISCOUNT	-814.11
9995-130	CEMENT EQUIPMENT DISCOUNT	-259.20

Description      Hours      Unit Price      Total

456 CEMENT PUMP (SURFACE)	1.00	1150.00	1150.00
456 EQUIPMENT MILEAGE (ONE WAY)	40.00	5.25	210.00
460 TON MILEAGE DELIVERY	1.00	616.00	616.00
566 TON MILEAGE DELIVERY	1.00	616.00	616.00

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Date stamp: NOV 8 2013  
Handwritten initials: *LS*

=====  
Parts:      8141.12      Freight:      .00      Tax:      597.14      AR      10256.95  
Labor:      .00      Misc:      .00      Total:      10256.95  
Sublt:      -1073.31      Supplies:      .00      Change:      .00  
=====

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

MARTLESVILLE, OK      EL DORADO, KS      EUREKA, KS      PONCA CITY, OK      OAKLEY, KS      OTTAWA, KS      THAYER, KS      GILLETTE, WY      CUSHING, OK  
 818/338-0908      316/322-7022      620/583-7664      580/762-2303      785/672-8822      785/242-4044      620/839-5269      307/686-4914      918/225-2650

# Rebill to Lario - Invoice # 26385

263252



TICKET NUMBER 44375  
 LOCATION Oakley, Ks.  
 FOREMAN Dauen, Jermey

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

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
10/14/13	47214793	Feiertag A 9-15	15	19	33	Scott	
CUSTOMER <u>Lario oil &amp; Gas</u>		CITY <u>Scott City</u>		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 1093</u>		STATE <u>KS</u>		<u>456</u>	<u>Tyler L</u>		
CITY <u>Garden City</u>		ZIP CODE <u>66</u>		<u>460</u>	<u>Jermy R</u>		
				<u>566</u>	<u>Merle Roberts</u>		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 409 CASING SIZE & WEIGHT 9 5/8 32.3  
 CASING DEPTH 415 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING 30'  
 DISPLACEMENT 30.29 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting Rig up on Val #7 Run casing Break Circulation with Rig Pump, Hook up to Pump Truck mix 375 sks Cement Com with 3% CC 2% Gel Displaced with 30.29 bbl water + Shut in

Cement Did Circulate

Approx 10 sks To Pit

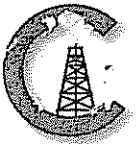
Thanks Dauen + Crew

ACCOUNT CODE	QUANTITY OF UNITS	DESCRIPTION OF SERVICES OR PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	1150.00	1150.00 ✓
5404	40	MILEAGE	5.25	210.00 ✓
5407A	17.6	Ten Mileage Delivery	1.75	132.00 ✓
11045	375 sks	Class 'A' Cement	18.55	6956.25 ✓
1102	1058 "	Calcium Chloride	91	974.58 ✓
1118B	705 "	Bentonite	22	1551.00 ✓
			SubTotal	10733.12 ✓
			Less 10%	1073.31 ✓
			SubTotal	9659.81 ✓
			8.15% SALES TAX	597.14 ✓
			ESTIMATED TOTAL	10256.95 ✓

Ravin 3737

AUTHORIZATION [Signature] TITLE Pig manager DATE \_\_\_\_\_

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 # 263607

=====  
Invoice Date: 10/31/2013 Terms: 10/10/30,n/30 Page 1  
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LARIO OIL & GAS  
P.O. BOX 1093  
GARDEN CITY KS 637846  
(316)265-5611

FEIERTAG A 9-15  
44476  
15-19S-33W  
10-29-2013  
KS

drilling/AFF 13 268  
11-6-13 LK

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	240.00	23.7000	5688.00
1131	60/40 POZ MIX	400.00	15.8600	6344.00
1110A	KOL SEAL (50# BAG)	1200.00	.5600	672.00
1107	FLO-SEAL (25#)	100.00	2.9700	297.00
1118B	PREMIUM GEL / BENTONITE	2752.00	.2700	743.04
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4107	CEMENT BASKET 7"	1.00	336.0000	336.00
4131	CENTRALIZER 7"	18.00	72.5000	1305.00
4164	FLOAT SHOE 7" AFU	1.00	577.5000	577.50
4278A	DV TOOL-WEATHERFORD 7"	1.00	8900.0000	8900.00
4455	7" LATCH DOWN PLUG	1.00	650.0000	650.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-2601.25
9995-130	CEMENT EQUIPMENT DISCOUNT	-537.86

Description	Hours	Unit Price	Total
T-118 SINGLE PUMP	1.00	3175.00	3175.00
T-118 EQUIPMENT MILEAGE (ONE WAY)	40.00	5.25	210.00
T-129 TON MILEAGE DELIVERY	1.00	996.80	996.80
566 TON MILEAGE DELIVERY	1.00	996.80	996.80

NOV 8 2013

LLS

Amount Due 33511.18 if paid after 11/30/2013

Parts:	26012.54	Freight:	.00	Tax:	1908.04	AR	30160.07
Labor:	.00	Misc:	.00	Total:	30160.07		
Sublt:	-3139.11	Supplies:	.00	Change:	.00		

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



**CONSOLIDATED**  
Oil Well Services, LLC

263607

TICKET NUMBER 44476

LOCATION Oakley KS

FOREMAN Mikes Shaw

Walt Drinkel

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
10-29-13	4793	Ferretas A 9-15	15	195	33W	Schaff
CUSTOMER		Sebbitt Co 65 3U N. Inb				
MAILING ADDRESS		Lario Oil Gas				
CITY		STATE	ZIP CODE			
			TRUCK #	DRIVER	TRUCK #	DRIVER
			530T118	Dave		
			516	Steven O		
			529TD9	Jeremy R / Schaff		

JOB TYPE 2 Stage HOLE SIZE 1 1/4" HOLE DEPTH 4794 CASING SIZE & WEIGHT 7" 23#  
 CASING DEPTH 4777 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER Dited @ 2793  
 SLURRY WEIGHT 14.2/12.4 SLURRY VOL 1.42/1.9 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 19.68  
 DISPLACEMENT 175%/105% DISPLACEMENT PSI 100/100 MIX PSI 0/1400 RATE \_\_\_\_\_

REMARKS: Safety meeting and rig upon Uall drilling rig #7 Float equipment  
Centralizers on job # 2, 5, 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, 38, 41, 44, 47, 59, 62 Basket on  
59 Ditch tool top #59 @ 2793' Run casing to bottom circulate casing 1 1/2 hrs - Pump 5 bbls  
Water mud flush 5 bbls water mix 190 SKS OWC w. 5# Kolsal down casing Shut down  
Clear pump & lines release plug displace 77.50 bbls water 118 bbls mud with 800 PSI  
1 1/4" Plug did not land Float held, Drop at opening lost on Ditch tool entry 700 PSI circulate  
1 1/2 hrs - Pump 5 bbls water mix 350 SKS OWC w. 5# Kolsal 1/4" Pooled down casing bailed in with  
50 SKS OWC #5 Kolsal Shut down cleared pump & lines released plug displaced 109 1/2 bbls  
Water with 200 PSI 1 1/4" Plug land closed tool @ 1400 PSI Cement did circulate 200 PSI  
mix 20 SKS RH 20 SKS MH Thanks Mikes & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00 ✓
5406	40	MILEAGE	5.25	210.00 ✓
5407A	28.48 tons	ton mileage delivery	1.75	1993.60 ✓
1126	240 SKS	OWC	23.70	5688.00 ✓
1131	400 SKS	60/40 p 2	15.86	6344.00 ✓
110A	1200 #		15.00	672.00 ✓
1107	100 #		2.97	297.00 ✓
111PB	2752 #		1.27	743.04 ✓
1144G	500 gal	Mud Flush	1.00	500.00 ✓
4107	1	Cement Basket 7"	336.00	336.00 ✓
4131	18	7" Centralizers	72.50	1305.00 ✓
4164	1	7" AFU Float shoe	577.50	577.50 ✓
4278A	1	7" Ditch tool	890.00	890.00 ✓
4455	1	7" catch down plug	650.00	650.00 ✓
			Subtotal	31391.14 ✓
			less 10% discount	3139.11 ✓
			Subtotal	28252.03 ✓
			SALES TAX 8.15	1908.04 ✓
			ESTIMATED TOTAL	30160.07 ✓

Ravin 3737

AUTHORIZATION Center Oil TITLE Foreman DATE 10/29/13

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.



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 139898  
Invoice Date: Nov 20, 2013  
Page: 1

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

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

Customer ID	Field Ticket #	Payment Terms	
Lario	61380	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-05	Oakley	Nov 20, 2013	12/20/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Feiertag A #9-15		
100.00	CEMENT MATERIALS	Class A Common	17.90	1,790.00
100.00	CEMENT SERVICE	Cubic Feet	2.48	248.00
258.50	CEMENT SERVICE	Ton Mileage	2.60	672.10
1.00	CEMENT SERVICE	Squeeze	2,558.75	2,558.75
55.00	CEMENT SERVICE	Pump Truck Mileage	7.70	423.50
1.00	CEMENT SERVICE	Squeeze Manifold Rental	300.00	300.00
55.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	242.00
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

*Handwritten signatures and initials*  
 DEC 4 2013  
*Handwritten initials: R, S, P, 35*

Subtotal	6,234.35
Sales Tax	508.10
Total Invoice Amount	6,742.45
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,742.45</b>

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

\$ 1,242.67

ONLY IF PAID ON OR BEFORE  
Dec 15, 2013

# ALLIED OIL & GAS SERVICES, LLC 061380

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oshtemo KS

DATE <u>11-20-13</u>	SEC. <u>15</u>	TWP. <u>19S</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>6:30AM</u>	JOB START <u>11:30AM</u>	JOB FINISH <u>12:00PM</u>
LEASE <u>Fierberg A</u>	WELL# <u>9-15</u>	LOCATION <u>Scott city 65301 NKS</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>5 side</u>				

CONTRACTOR #2 Piggins OWNER Jame

TYPE OF JOB Squeeze

HOLE SIZE 1 T.D. \_\_\_\_\_ CEMENT \_\_\_\_\_

CASING SIZE 5" DEPTH \_\_\_\_\_ AMOUNT ORDERED 100 SKS COM

TUBING SIZE 2 7/8 DEPTH \_\_\_\_\_

DRILL PIPE DEPTH \_\_\_\_\_

TOOL DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_ COMMON 100 SKS @ 1769 176950

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_ POZMIX \_\_\_\_\_ @ \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_ GEL \_\_\_\_\_ @ \_\_\_\_\_

PERFS. 3988 - 3994 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_ ASC \_\_\_\_\_ @ \_\_\_\_\_

**EQUIPMENT**

PUMP TRUCK CEMENTER Kelly

# 38422 HELPER Wayne

BULK TRUCK \_\_\_\_\_ @ \_\_\_\_\_

# 3865310 DRIVER Braundon

BULK TRUCK \_\_\_\_\_ @ \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON 100 SKS @ 1769 176950

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

ASC \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING 100 SKS @ 248 24800

MILEAGE 4.7 ton x 55 x 250 672.50

TOTAL 2689.10

**REMARKS:**

rigged up tested tools to locat  
pressured back side to 500 psi, took injection  
rate down tubing at 3000 psi in 1200' mixed  
100 SKS COM, displaced with 2000' water  
staged on cement squeezed to  
1000'

Shankel  
Kelly

**SERVICE**

DEPTH OF JOB \_\_\_\_\_ 3941

PUMP TRUCK CHARGE \_\_\_\_\_ 2558.25

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE MILV 55 @ 440 242.00

MANIFOLD squeeze @ 302.50

MILV 55 @ 770 423.00

TOTAL 3524.35

CHARGE TO: Lurie Oil & Gas

STREET \_\_\_\_\_

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

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

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.

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

TOTAL CHARGES 6,213.35

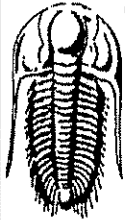
DISCOUNT 1,242.67 IF PAID IN 30 DAYS

PRINTED NAME Jason Majors

4,970.68 Net.

SIGNATURE Jason Majors AFE 13-268





**TRILOBITE**  
TESTING, INC.

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas

S15-19s-33w Scott, KS

301 S. Market St.  
Wichita, KS 67202

Feiertag A # 9-15

Job Ticket: 55532

DST#: 1

ATTN: Bob Bayer

Test Start: 2013.10.19 @ 22:50:00

**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:

64000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
0.00	RW: .160 @ 53 Degrees F = 64000 PPM	0.000
744.00	MW 5m 95w	10.436
620.00	OSMW 20m 80w	8.697
248.00	OSWM 30w 70m	3.479
124.00	OSWM 5w 95m	1.739

Total Length: 1736.00 ft      Total Volume: 24.351 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

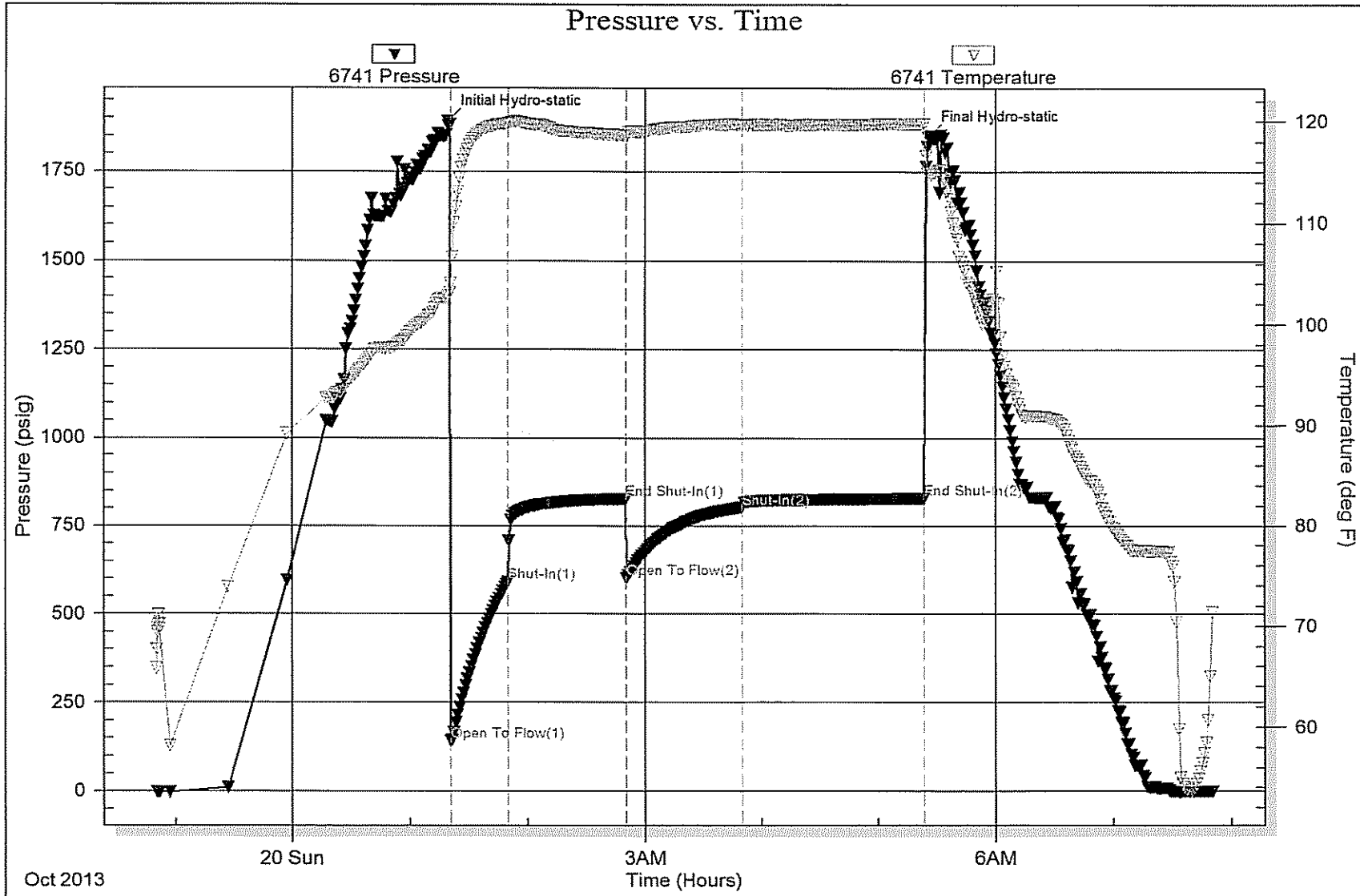
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 74 PPM H2S During recovery.







**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas  
 301 S. Market St.  
 Wichita, KS 67202  
 ATTN: Bob Bayer

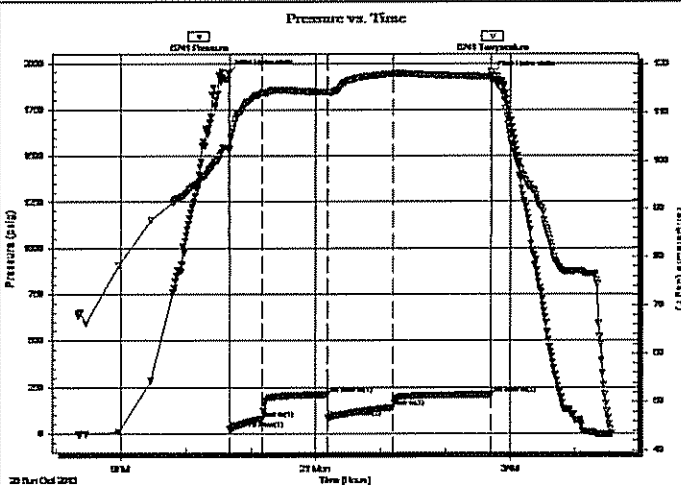
**S15-19s-33w Scott, KS**  
**Feiertag A # 9-15**  
 Job Ticket: 55533      DST#: 2  
 Test Start: 2013.10.20 @ 20:21:00

### GENERAL INFORMATION:

Formation: **Lansing B**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:40:20  
 Time Test Ended: 04:34:50  
 Interval: **3900.00 ft (KB) To 3925.00 ft (KB) (TVD)**  
 Total Depth: **3925.00 ft (KB) (TVD)**  
 Hole Diameter: **8.75 inches** Hole Condition: Good  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Chuck Smith**  
 Unit No: **62**  
 Reference Elevations: **2967.00 ft (KB)**  
**2957.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

**Serial #: 6741** Inside  
 Press@RunDepth: **141.82 psig @ 3922.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2013.10.20** End Date: **2013.10.21** Last Calib.: **2013.10.21**  
 Start Time: **20:21:02** End Time: **04:34:50** Time On Btm: **2013.10.20 @ 22:39:00**  
 Time Off Btm: **2013.10.21 @ 02:42:10**

TEST COMMENT: B.O.B. @ 15 min.  
 2" Return.  
 B.O.B. @ 32 min.  
 3/4" Return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.83	102.72	Initial Hydro-static
2	23.20	102.42	Open To Flow (1)
32	81.87	114.16	Shut-In(1)
92	211.23	114.33	End Shut-In(1)
92	86.39	114.29	Open To Flow (2)
153	141.82	118.03	Shut-In(2)
243	210.88	117.45	End Shut-In(2)
244	1935.93	118.43	Final Hydro-static

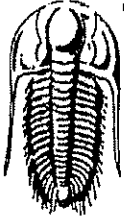
### Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .163 @ 53 Degrees F = 63000 PPM	0.00
124.00	OSMW 15m 85w	1.74
62.00	OSWM 10w 90m	0.87
72.00	GOCM 5g 40o 55m	1.01
0.00	115 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

**S15-19s-33w Scott, KS**

301 S. Market St.  
Wichita, KS 67202

**Feiertag A # 9-15**

Job Ticket: 55533

**DST#: 2**

ATTN: Bob Bayer

Test Start: 2013.10.20 @ 20:21:00

**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:

63000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
0.00	RW: .163 @ 53 Degrees F = 63000 PPM	0.000
124.00	OSMW 15m 85w	1.739
62.00	OSWM 10w 90m	0.870
72.00	GOCM 5g 40o 55m	1.010
0.00	115 Weak GIP	0.000

Total Length: 258.00 ft      Total Volume: 3.619 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

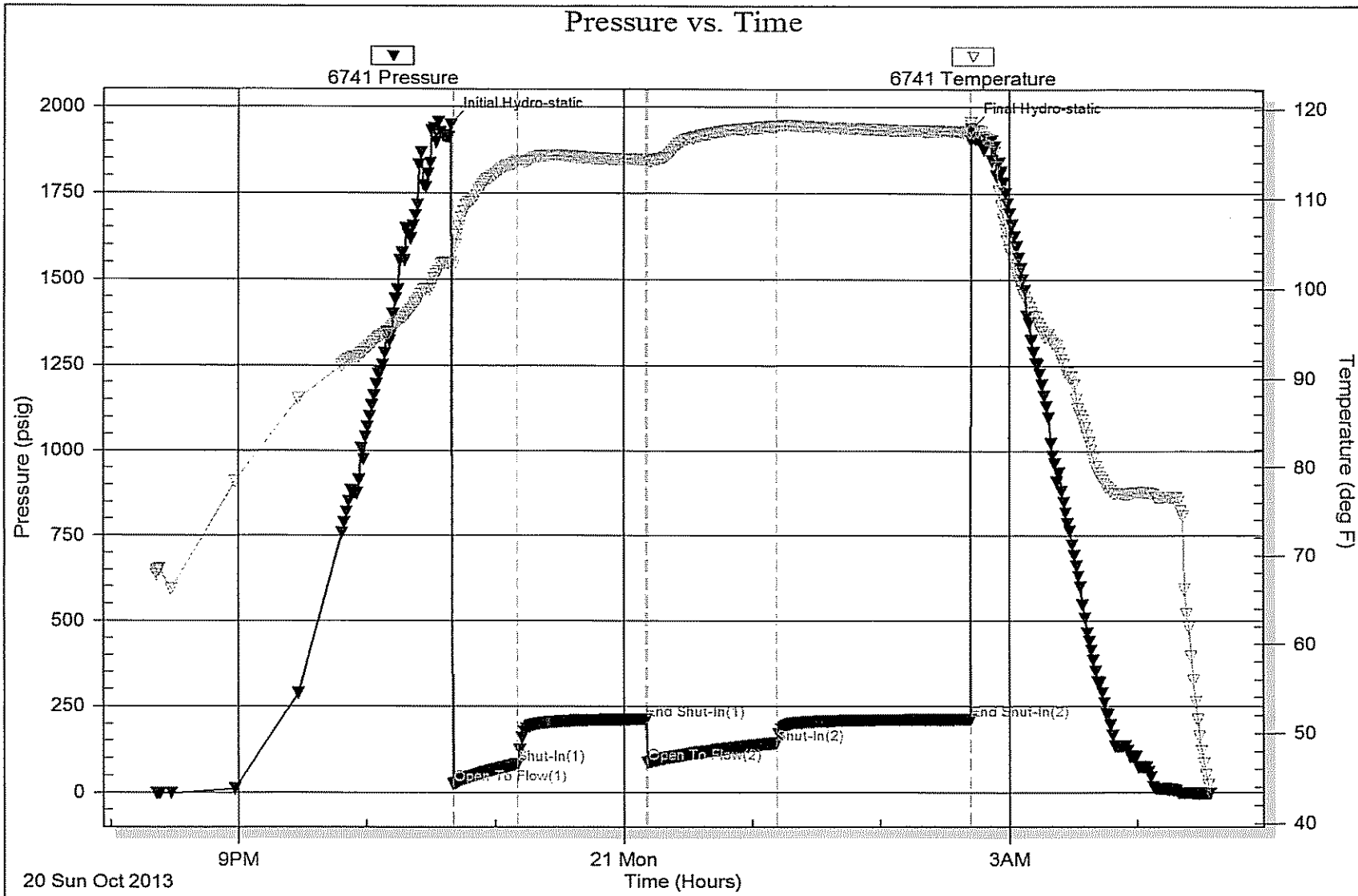
Recovery Comments: API: 27 @ 40 Degrees F = 29

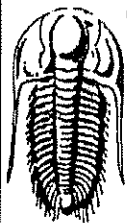
Serial #: 6741

Inside Lario Oil & Gas

Feiertag A # 9-15

DST Test Number: 2





**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas Co.

S15-19s-33w Scott, KS

301 S. Market St.  
Wichita, KS 67202

Feiertag A # 9-15

Job Ticket: 55534

DST#: 3

ATTN: Bob Bayer

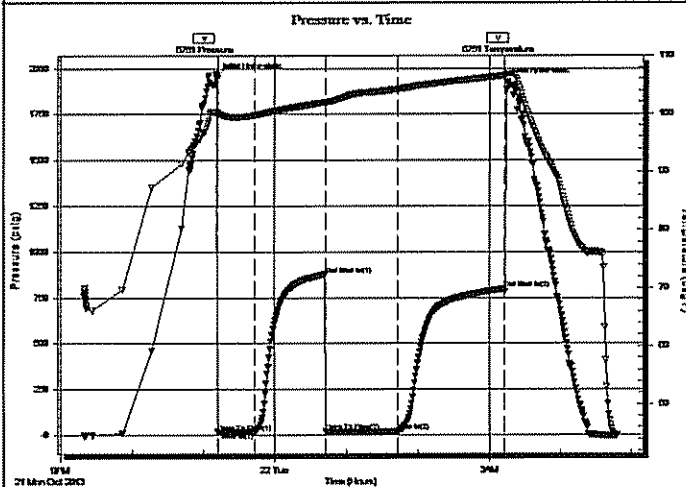
Test Start: 2013.10.21 @ 21:20:00

### GENERAL INFORMATION:

Formation: **Lansing 'D'**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:12:20  
 Time Test Ended: 04:48:09  
 Interval: **3970.00 ft (KB) To 4000.00 ft (KB) (TVD)**  
 Total Depth: **4000.00 ft (KB) (TVD)**  
 Hole Diameter: **8.75 inches** Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Chuck Smith  
 Unit No: 62  
 Reference Elevations: 2967.00 ft (KB)  
 2957.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6751** Outside  
 Press@RunDepth: 20.94 psig @ 3997.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.21 End Date: 2013.10.22 Last Calib.: 2013.10.22  
 Start Time: 21:20:02 End Time: 04:48:10 Time On Blrm: 2013.10.21 @ 23:11:10  
 Time Off Blrm: 2013.10.22 @ 03:14:30

TEST COMMENT: 1 1/2 " Blow.  
 Very weak surface return.  
 Surface blow.  
 No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.80	100.12	Initial Hydro-static
2	17.73	99.72	Open To Flow (1)
32	18.17	99.69	Shut-in(1)
91	878.46	101.95	End Shut-in(1)
92	19.63	101.55	Open To Flow(2)
152	20.94	104.20	Shut-in(2)
242	799.13	106.55	End Shut-in(2)
244	1923.77	106.82	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 10o 90m	0.14

\* 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.

**S15-19s-33w Scott, KS**

301 S. Market St.  
Wichita, KS 67202

**Feiertag A # 9-15**

Job Ticket: 55534

**DST#: 3**

ATTN: Bob Bayer

Test Start: 2013.10.21 @ 21:20:00

**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:

bbbl

Water Loss: 9.99 in<sup>2</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 10o 90m	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:

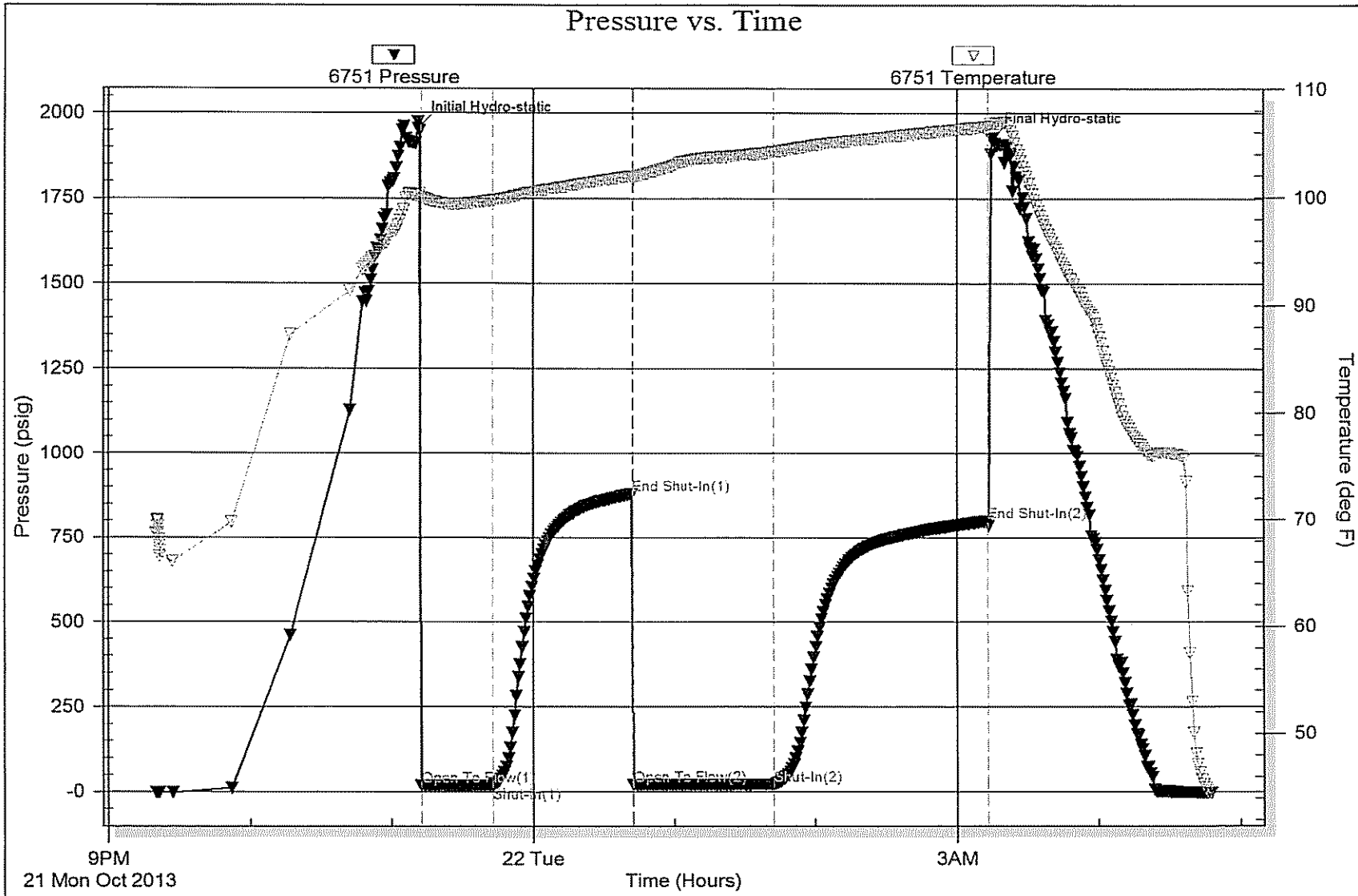
Recovery Comments:

Serial #: 6751

Outside Lario Oil & Gas Co.

Feiertag A # 9-15

DST Test Number: 3





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co.

301 S. Market St.  
Wichita, KS 67202

ATTN: Bob Bayer

**S15-19s-33w Scott, KS**

**Feiertag A # 9-15**

Job Ticket: 55535

DST#: 4

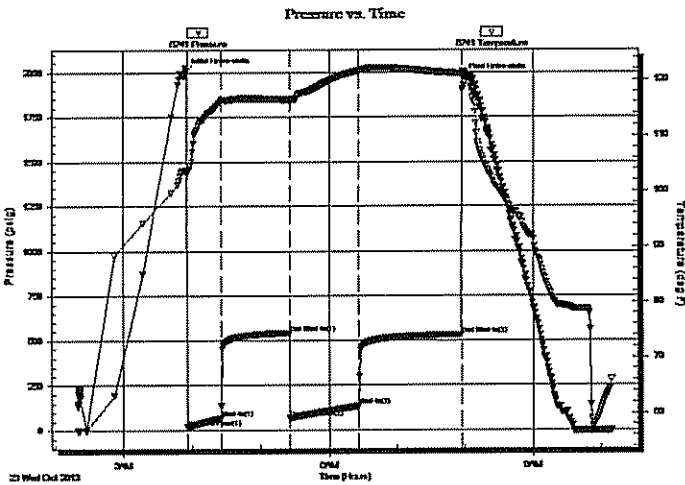
Test Start: 2013.10.23 @ 02:20:00

## GENERAL INFORMATION:

Formation: <b>Lansing 'I'</b>	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Chuck Smith
Time Tool Opened: 03:55:50	Unit No: 62
Time Test Ended: 10:09:30	
Interval: <b>4100.00 ft (KB) To 4130.00 ft (KB) (TVD)</b>	Reference Elevations: 2967.00 ft (KB)
Total Depth: 4130.00 ft (KB) (TVD)	2957.00 ft (CF)
Hole Diameter: 8.75 inches	Hole Condition: Good
	KB to GR/CF: 10.00 ft

<b>Serial #: 6741</b>	Inside				
Press@RunDepth: 135.74 psig @ 4127.00 ft (KB)	Capacity: 8000.00 psig				
Start Date: 2013.10.23	End Date: 2013.10.23				
Start Time: 02:20:02	End Time: 10:09:30				
	Last Calib.: 2013.10.23				
	Time On Blm: 2013.10.23 @ 03:54:40				
	Time Off Blm: 2013.10.23 @ 07:58:00				

**TEST COMMENT:** 11" Blow.  
Very weak surface return.  
B.O.B. @ 43 min.  
No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.61	103.61	Initial Hydro-static
2	18.74	103.26	Open To Flow (1)
31	66.68	116.20	Shut-In(1)
91	543.00	116.49	End Shut-In(1)
92	68.33	116.20	Open To Flow (2)
152	135.74	121.67	Shut-In(2)
243	532.89	121.12	End Shut-In(2)
244	1965.84	121.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOCMW 2o 10m 88w	1.74
62.00	SOCMW 3o 40m 57w	0.87
62.00	OCWM 5o 40w 55m	0.87
15.00	GMCO 3g 5m 92o	0.21

\* 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.

S15-19s-33w Scott, KS

301 S. Market St.  
Wichita, KS 67202

Feiertag A # 9-15

Job Ticket: 55535

DST#: 4

ATTN: Bob Bayer

Test Start: 2013.10.23 @ 02:20:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	SOCMV 2o 10m 88w	1.739
62.00	SOCMV 3o 40m 57w	0.870
62.00	OCWM 5o 40w 55m	0.870
15.00	GMCO 3g 5m 92o	0.210

Total Length: 263.00 ft      Total Volume: 3.689 bbf

Num Fluid Samples: 0

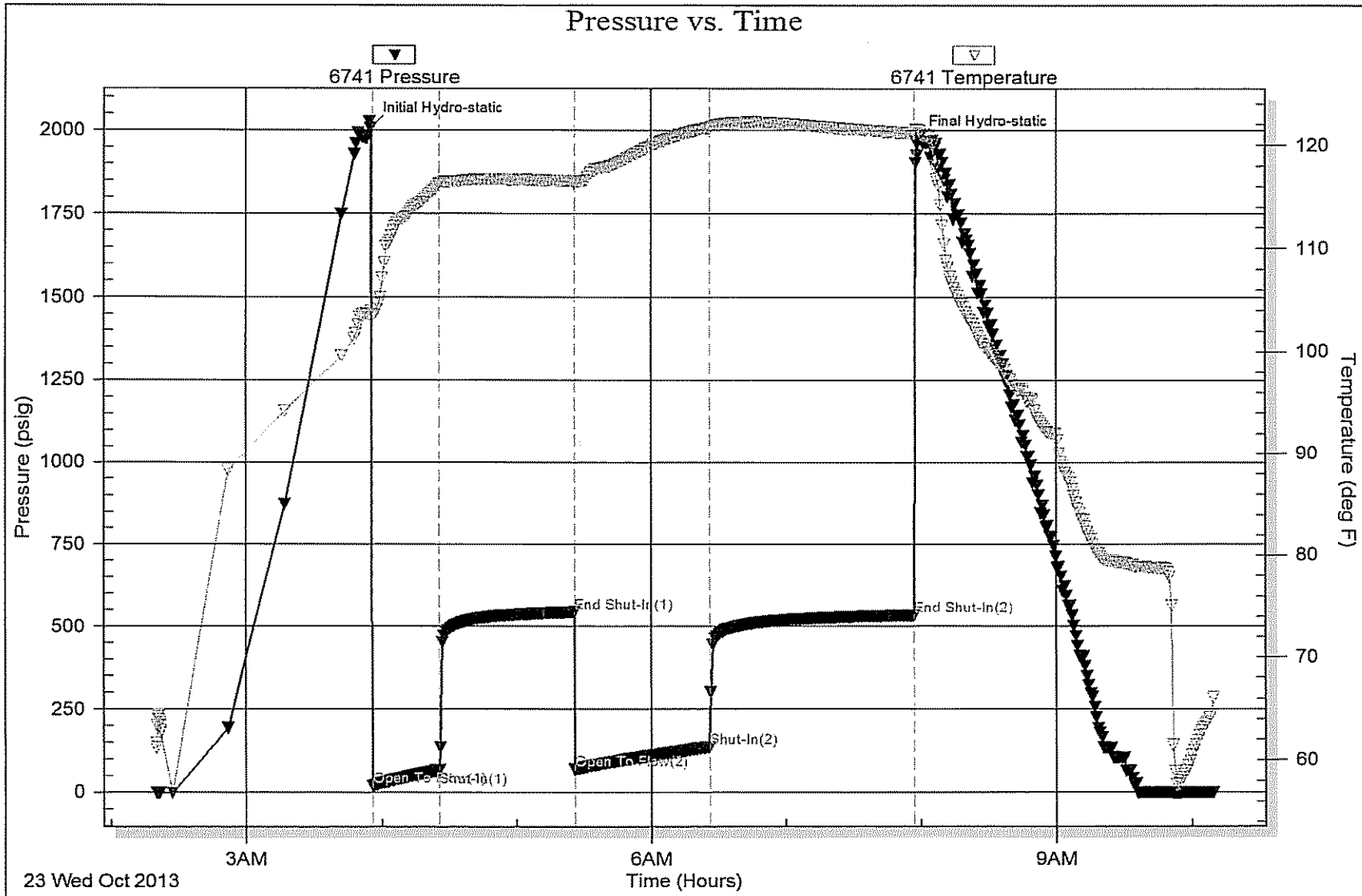
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 23 @ 80 Degrees F = 31 RW: 190. @ 59 Degrees F = 48000 PPM





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co.  
301 S. Market St.  
Wichita, KS 67202  
ATTN: Bob Bayer

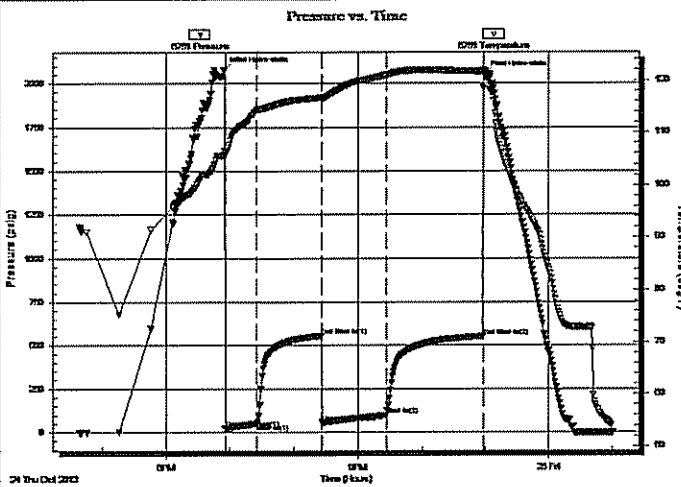
S15-19s-33w Scott, KS  
Feiertag A # 9-15  
Job Ticket: 55537      DST#: 6  
Test Start: 2013.10.24 @ 16:39:00

## GENERAL INFORMATION:

Formation: **Lansing 'L'**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 18:55:50  
Time Test Ended: 01:00:50  
Interval: **4225.00 ft (KB) To 4255.00 ft (KB) (TVD)**  
Total Depth: **4255.00 ft (KB) (TVD)**  
Hole Diameter: **8.75 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Chuck Smith**  
Unit No: **62**  
Reference Elevations: **2967.00 ft (KB)**  
**2957.00 ft (CF)**  
KB to GR/CF: **10.00 ft**

**Serial #: 6751**      Outside  
Press@RunDepth: **98.06 psig @ 4252.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2013.10.24**      End Date: **2013.10.25**      Last Calib.: **2013.10.25**  
Start Time: **16:39:02**      End Time: **01:00:50**      Time On Btm: **2013.10.24 @ 18:54:20**  
Time Off Btm: **2013.10.24 @ 22:58:40**

TEST COMMENT: 8" Blow.  
No return.  
10" Blow.  
No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.96	105.71	Initial Hydro-static
2	20.53	105.70	Open To Flow (1)
32	50.64	114.31	Shut-In(1)
92	555.90	116.59	End Shut-In(1)
93	55.10	116.42	Open To Flow (2)
152	98.06	120.99	Shut-In(2)
244	551.38	121.63	End Shut-In(2)
245	2047.58	121.91	Final Hydro-static

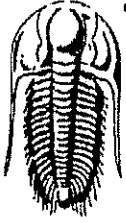
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .222 @ 52 Degrees F = 48000 PPM	0.00
62.00	OSMW 20m 80w	0.87
62.00	OSMW 50m 50w	0.87
56.00	OCM 45o 55m	0.79
0.00	68' 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.

**S15-19s-33w Scott, KS**

301 S. Market St.  
Wichita, KS 67202

**Feiertag A # 9-15**

Job Ticket: 55537

DST#: 6

ATTN: Bob Bayer

Test Start: 2013.10.24 @ 16:39:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

25 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
0.00	RW: .222 @ 52 Degrees F = 48000 PPM	0.000
62.00	OSMV 20m 80w	0.870
62.00	OSMV 50m 50w	0.870
56.00	OCM 45o 55m	0.786
0.00	68' Weak GIP	0.000

Total Length: 180.00 ft      Total Volume: 2.526 bbf

Num Fluid Samples: 0

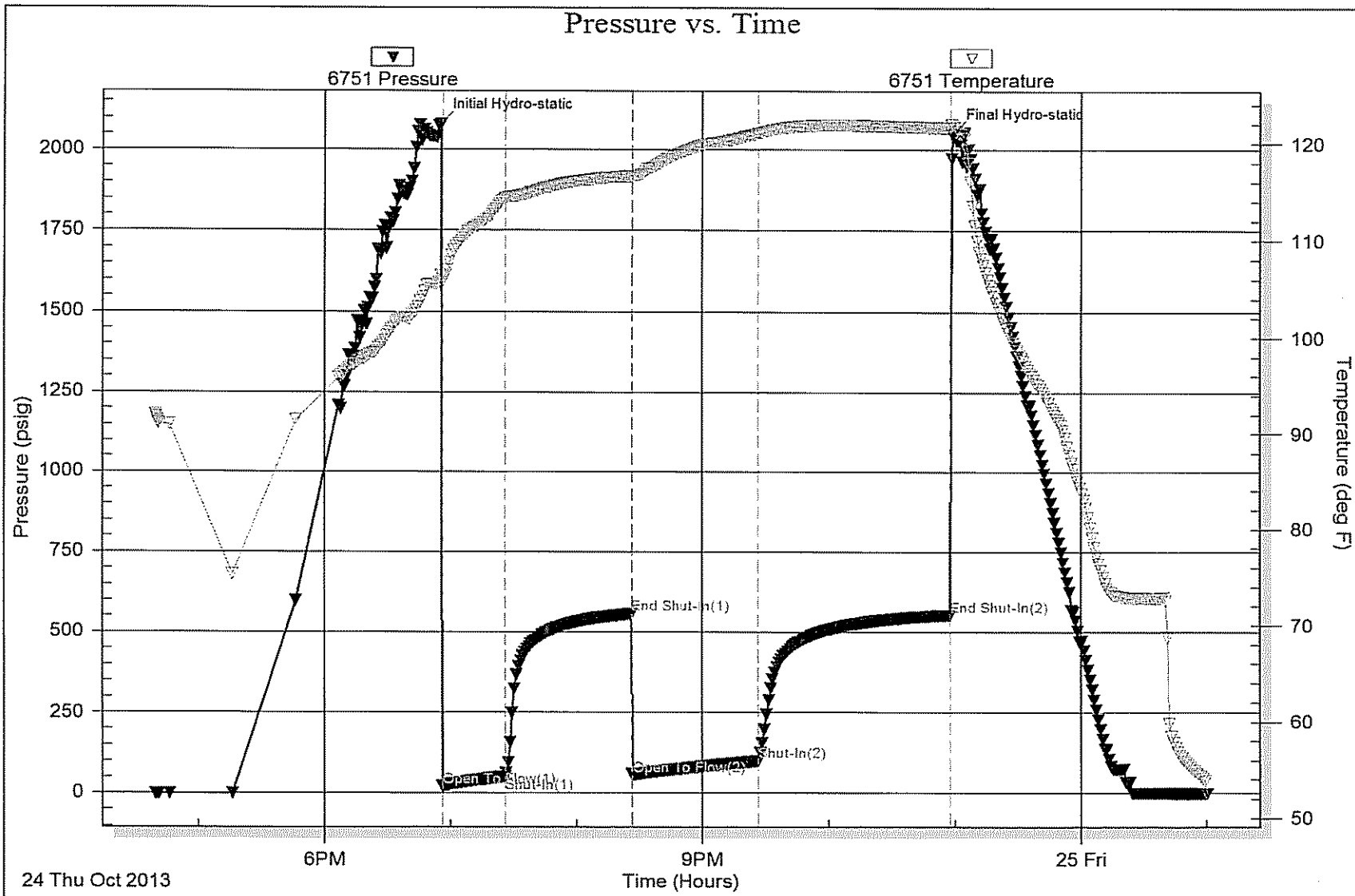
Num Gas Bombs: 0

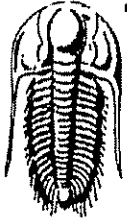
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 23 @ 40 Degrees F = 25.





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas Co.

301 S. Market St.  
Wichita, KS 67202

ATTN: Bob Bayer

**S15-19s-33w Scott, KS**

**Feiertag A # 9-15**

Job Ticket: 55539

DST#: 7

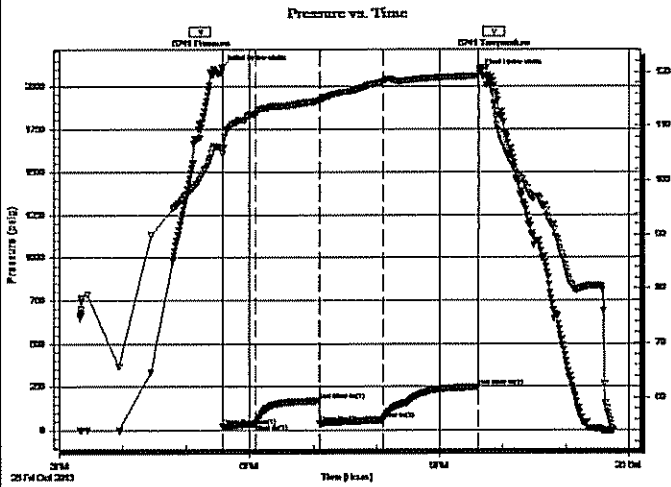
Test Start: 2013.10.25 @ 15:20:00

### GENERAL INFORMATION:

Formation: **Marmaton 'B'**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:34:40  
 Time Test Ended: 23:45:30  
 Interval: **4335.00 ft (KB) To 4365.00 ft (KB) (TVD)**  
 Total Depth: **4365.00 ft (KB) (TVD)**  
 Hole Diameter: **8.75 inches** Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Chuck Smith  
 Unit No: 62  
 Reference Elevations: 2967.00 ft (KB)  
 2957.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6741** Inside  
 Press@RunDepth: 59.58 psig @ 4362.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.25 End Date: 2013.10.25 Last Calib.: 2013.10.26  
 Start Time: 15:20:02 End Time: 23:45:30 Time On Btm: 2013.10.25 @ 17:33:40  
 Time Off Btm: 2013.10.25 @ 21:37:30

TEST COMMENT: B.O.B. @ 6 min.  
 B.O.B. @ 35 min.  
 B.O.B. @ 8 min.  
 B.O.B. @ 26 min.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.52	106.03	Initial Hydro-static
1	20.35	104.91	Open To Flow (1)
33	36.37	112.20	Shut-in(1)
92	170.26	114.56	End Shut-in(1)
93	40.01	114.63	Open To Flow (2)
153	59.58	118.25	Shut-in(2)
243	246.37	119.25	End Shut-in(2)
244	2075.15	120.45	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM 5o 95m Some emulsion	0.87
50.00	GOCM 15g 15o 70m Some emulsion	0.70
0.00	630' 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.

S15-19s-33w Scott, KS

301 S. Market St.  
Wichita, KS 67202

Feiertag A # 9-15

Job Ticket: 55539

DST#: 7

ATTN: Bob Bayer

Test Start: 2013.10.25 @ 15:20:00

### 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:

bbf

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
62.00	OCM 5o 95m Some emulsion	0.870
50.00	GOCM 15g 15o 70m Some emulsion	0.701
0.00	630' Weak GIP	0.000

Total Length: 112.00 ft      Total Volume: 1.571 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

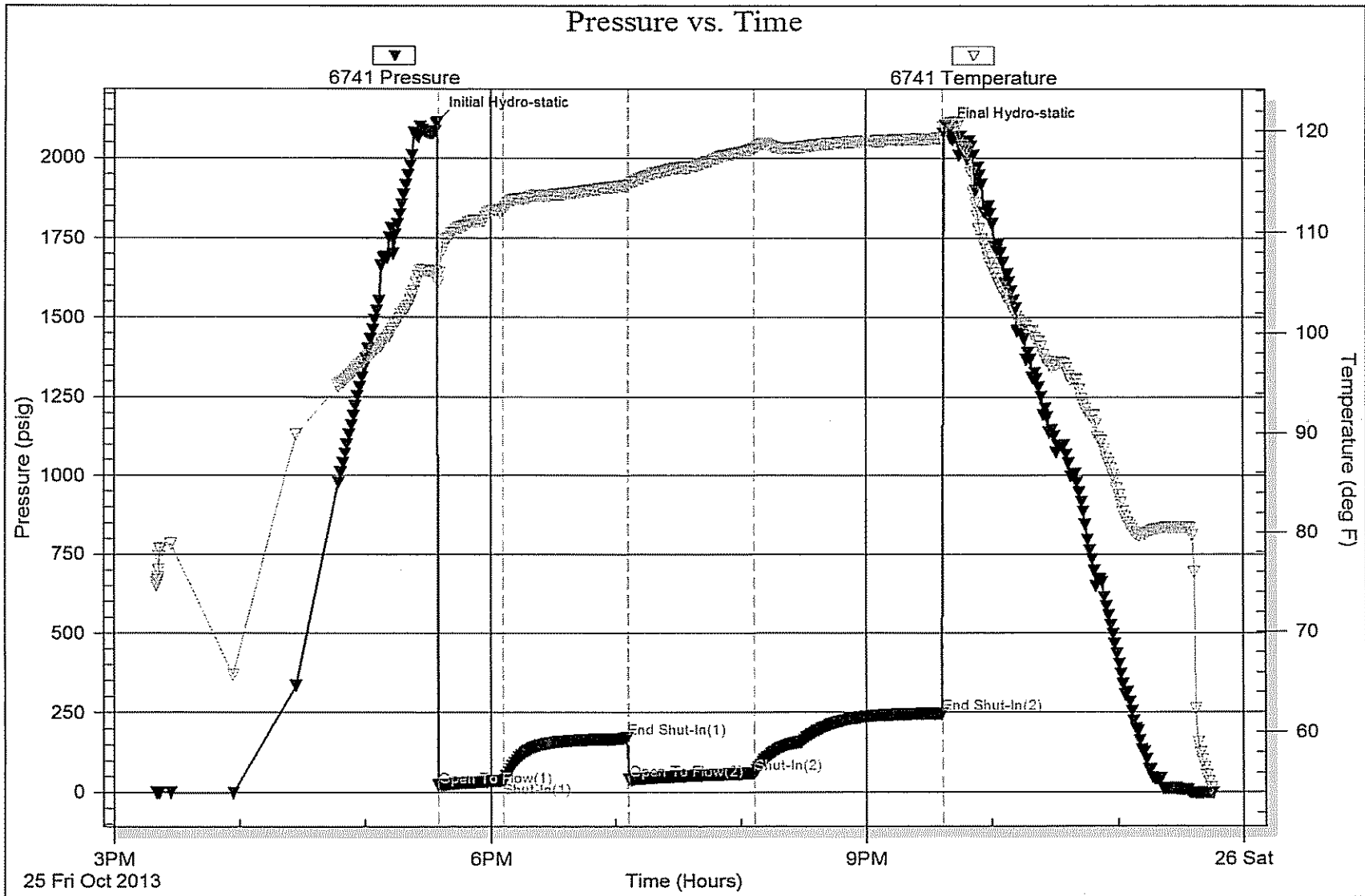
Recovery Comments:

Serial #: 6741

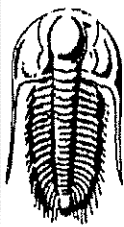
Inside Lario Oil & Gas Co.

Feiertag A # 9-15

DST Test Number: 7







**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas Co.

S15-19s-33w Scott, KS

301 S. Market St.  
Wichita, KS 67202

Feiertag A # 9-15

Job Ticket: 55540

DST#: 8

ATTN: Bob Bayer

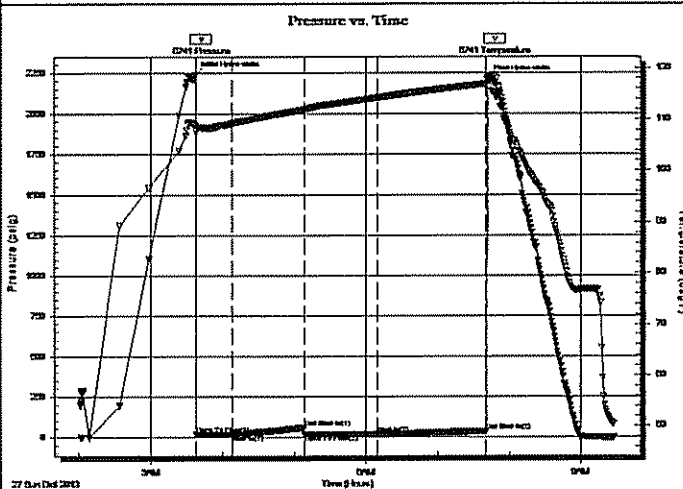
Test Start: 2013.10.27 @ 02:02:00

### GENERAL INFORMATION:

Formation: **Morrow**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:38:20  
 Time Test Ended: 09:28:39  
 Interval: 4585.00 ft (KB) To 4620.00 ft (KB) (TVD)  
 Total Depth: 4620.00 ft (KB) (TVD)  
 Hole Diameter: 8.75 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Chuck Smith  
 Unit No: 62  
 Reference Elevations: 2967.00 ft (KB)  
 2957.00 ft (CF)  
 KB to GR/CF: 10.00 ft

Serial #: **6741** Inside  
 Press@RunDepth: 19.38 psig @ 4617.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.27 End Date: 2013.10.27 Last Calib.: 2013.10.27  
 Start Time: 02:02:02 End Time: 09:28:40 Time On Btm: 2013.10.27 @ 03:37:10  
 Time Off Btm: 2013.10.27 @ 07:41:10

TEST COMMENT: 1/2" Blow receded to weak surface blow.  
 Weak surface return.  
 Weak surface blow.  
 No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.43	108.93	Initial Hydro-static
2	17.50	107.68	Open To Flow (1)
31	18.61	109.24	Shut-In(1)
92	59.53	111.89	End Shut-In(1)
92	19.27	111.88	Open To Flow (2)
152	19.38	114.22	Shut-In(2)
243	35.66	116.91	End Shut-In(2)
244	2204.09	117.69	Final Hydro-static

### Recovery

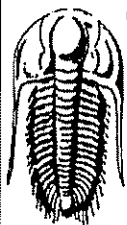
Length (ft)	Description	Volume (bbl)
10.00	SOCM 2o 98m	0.14

\* 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.

**S15-19s-33w Scott, KS**

301 S. Market St.  
Wichita, KS 67202

**Feiertag A # 9-15**

Job Ticket: 55540

**DST#: 8**

ATTN: Bob Bayer

Test Start: 2013.10.27 @ 02:02:00

**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:

bbf

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

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
10.00	SOCM 2o 98m	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbf

Num Fluid Samples: 0

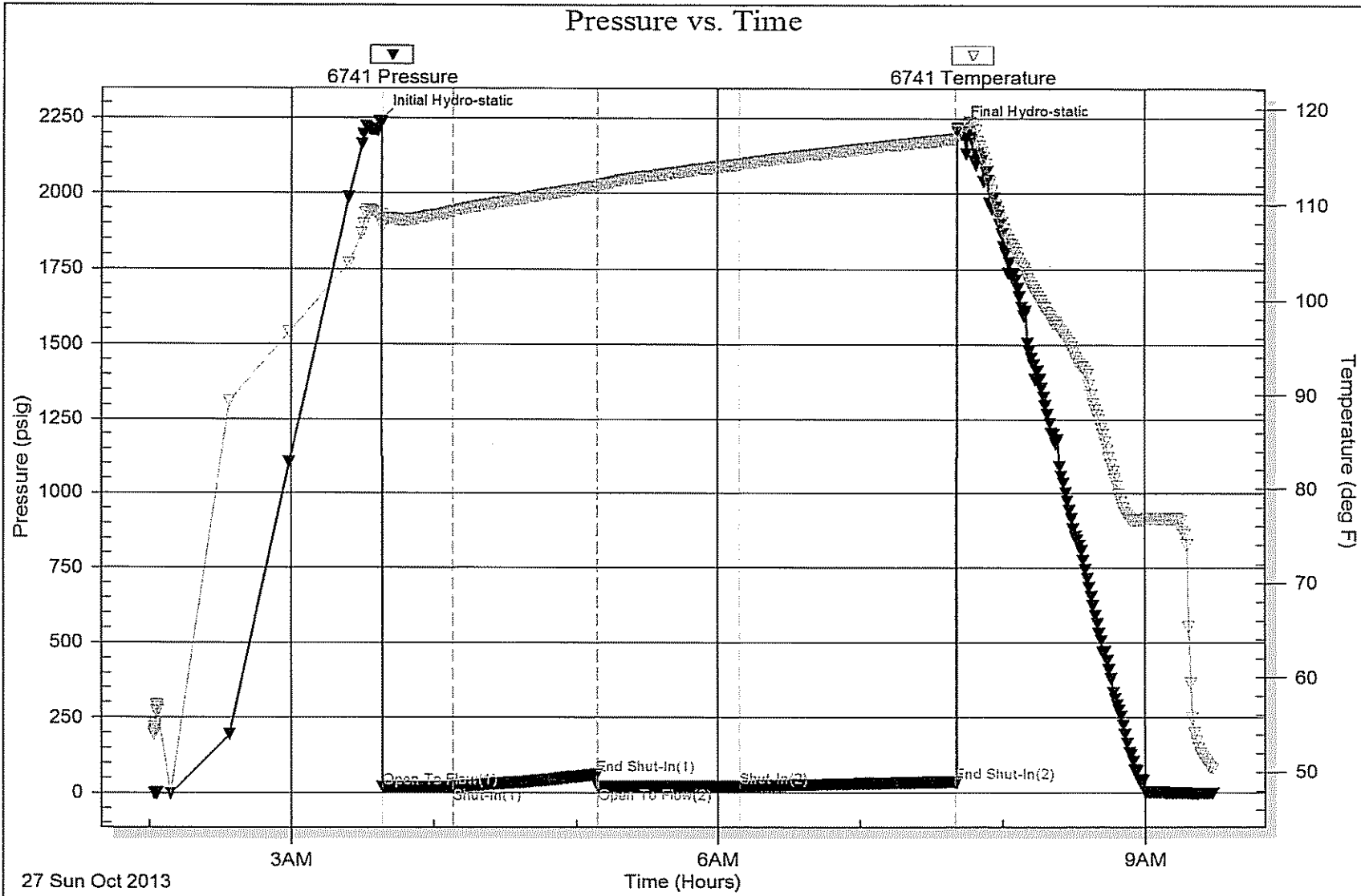
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 6751

Outside Lario Oil & Gas Co.

Feiertag A # 9-15

DST Test Number: 8

