



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1076187  
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: \_\_\_\_\_

1076187

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Hanna A 1-15
Doc ID	1076187

All Electric Logs Run

CDL/CNL
MEL
SON
DIL

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Hanna A 1-15
Doc ID	1076187

Tops

Name	Top	Datum
Heebner	3875	-1031
Lansing	3912	-1068
Stark Sh	4154	-1310
Hushpuckney	4189	-1345
Base KC	4243	-1399
Marmaton	4295	-1451
Pawnee	4358	-1514
Ft. Scott	4388	-1544
Johnson	4409	-1565
Morrow	4511	-1667
Basal Penn	4540	-1696
Mississippian	4545	-1701

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 14, 2012

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

Re: ACO1  
API 15-063-21973-00-00  
Hanna A 1-15  
SW/4 Sec.15-14S-31W  
Gove County, Kansas

Dear Production Department:

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

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

Respectfully,  
Jay Schweikert



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 130413  
Invoice Date: Mar 5, 2012  
Page: 1

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

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

Federal Tax I.D.#: 20-8651475

*drilling AFE 12-043  
3-19-2012 LK*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Lario	<u>Hanna A #1-15</u>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Mar 5, 2012	4/4/12

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	16.25	2,437.50
3.00	MAT	Gel	21.25	63.75
5.00	MAT	Chloride	58.20	291.00
158.00	SER	Handling	2.25	355.50
20.00	SER	Mileage	17.38	347.60
1.00	SER	Surface	1,125.00	1,125.00
20.00	SER	Heavy Vehicle Mileage	7.00	140.00
20.00	SER	Light Vehicle Mileage	4.00	80.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Billy Turner		

*allied*  
*allied*  
MAR 21 2012  
*allied*

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

**\$ 871.45**

ONLY IF PAID ON OR BEFORE  
**Mar 30, 2012**

Subtotal	4,840.35
Sales Tax	224.78
Total Invoice Amount	5,065.13
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,065.13</b>

# ALLIED CEMENTING CO., LLC. 035353

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

*Dalkey, KS*

DATE <i>3/5/12</i>	SEC. <i>15</i>	TWP. <i>14</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION	JOB START <i>3:00pm</i>	JOB FINISH <i>3:30pm</i>
LEASE <i>Hanna A</i>	WELL# <i>1-15</i>	LOCATION <i>Dalkey S to Dry Hawk 4E</i>			COUNTY <i>Goose</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <i>NEW</i>		<i>2 1/2 IE 1 1/2 Sinto</i>					

CONTRACTOR *Mr. Arnold*  
 TYPE OF JOB *Surface*  
 HOLE SIZE *12 1/4* T.D.  
 CASING SIZE *8 5/8* DEPTH *216.77*  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. *15'*  
 PERFS.  
 DISPLACEMENT *12.86*

OWNER *Same*  
 CEMENT  
 AMOUNT ORDERED *150 Slls Gsm 3070cc*  
*2070gals*

COMMON *150* @ *16.25* *2437.50*  
 POZMIX @  
 GEL *8* @ *21.25* *170.00*  
 CHLORIDE *5* @ *58.00* *291.00*  
 ASC @

EQUIPMENT  
 PUMP TRUCK CEMENTER *Alan*  
 # *412* HELPER *Wagner*  
 BULK TRUCK  
 # *404* DRIVER *Billy*  
 BULK TRUCK  
 # DRIVER

HANDLING *158* @ *2.25* *355.00*  
 MILEAGE *125K/mile* @ *3.47* *433.75*  
 TOTAL *3194.25*

REMARKS:

*Run Log, Circulate, Mix Cement, Displace Cement*

*Cement Bid: Circulate*

*Frank Van Alstynga*

CHARGE TO: *Lorip Oil & Gas Company*  
 STREET  
 CITY STATE ZIP

SERVICE

DEPTH OF JOB *210'*  
 PUMP TRUCK CHARGE *1125.00*  
 EXTRA FOOTAGE @  
 MILEAGE *20* @ *7.00* *140.00*  
 MANIFOLD @  
*Lite Vehicle 20* @ *4.00* *80.00*  
 TOTAL *1345.00*

PLUG & FLOAT EQUIPMENT

@  
 @  
 @  
 @  
 @  
 TOTAL

To Allied Cementing Co., 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  
 DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME *KELLY WILSON*  
 SIGNATURE *Kelly Wilson*

*Bid*



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 130489  
Invoice Date: Mar 13, 2012  
Page: 1

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

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

*Drilling  
AFS-12-043  
CK 3/26/12*



Customer ID	Well Name# or Customer P.O.	Payment Terms	
Lario	Hanna A # 1-15	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Mar 13, 2012	4/12/12

Quantity	Item	Description	Unit Price	Amount
130.00	MAT	Class A Common	16.25	2,112.50
90.00	MAT	Pozmix	8.50	765.00
8.00	MAT	Gel	21.25	170.00
55.00	MAT	FloSeal	2.70	148.50
230.00	SER	Handling	2.25	517.50
20.00	SER	Mileage	25.30	506.00
1.00	SER	Plugged to Abandon	1,250.00	1,250.00
20.00	SER	Heavy Vehicle Mileage	7.00	140.00
20.00	SER	Light Vehicle Mileage	4.00	80.00

*xe*  
*CP*  
MAR 13 2012

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

\$ **1137.90**

ONLY IF PAID ON OR BEFORE  
**Apr 7, 2012**

Subtotal	5,689.50
Sales Tax	458.00
Total Invoice Amount	6,147.50
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,147.50</b>

# ALLIED CEMENTING CO., LLC. 040939

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT

Oakley

DATE <u>3-13-12</u>	SEC. <u>15</u>	TWP. <u>14</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>9:00</u>	JOB START <u>11:30 AM</u>	JOB FINISH <u>12:30 PM</u>
LEASE <u>Hanna A</u>	WELL# <u>1-15</u>	LOCATION <u>Oakley S To Jayhawk RD</u>			COUNTY <u>Gove</u>	STATE <u>Ks.</u>	
OLD OR NEW (Circle one)			<u>4E-2N-1E-1/2 Sinto</u>				

CONTRACTOR Murfin 22

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D.

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

WEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Same

CEMENT AMOUNT ORDERED 5 SKS 60/40 4% Gel  
14" Flo Seal

COMMON	<u>130 SKS</u>	@ <u>\$16.25</u>	<u>\$2112.50</u>
POZMIX	<u>90 SKS</u>	@ <u>\$8.50</u>	<u>\$765.00</u>
GEL	<u>8 SKS</u>	@ <u>\$21.25</u>	<u>\$170.00</u>
CHLORIDE		@	
ASC		@	
Flo Seal	<u>55 "</u>	@ <u>\$2.70</u>	<u>\$148.50</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>230</u>	@ <u>\$2.25</u>	<u>\$517.50</u>
MILEAGE	<u>11 1/4 Per mile</u>	@	<u>\$506.00</u>
TOTAL			<u>\$4219.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Darren R.

431 HELPER Tyler

BULK TRUCK

347 DRIVER Steve

BULK TRUCK

DRIVER

REMARKS:

Mix 25 SKS Cement 2330 ft  
Mix 100 SKS Cement 1358 ft  
Mix 40 SKS Cement 265 ft  
Mix 10 SKS Cement 40 ft  
Plug Rat Hole 15 SKS Cement  
Plug Mouse Hole 30 SKS Cement

Thank You.

CHARGE TO: Lario Oil & Gas Co.

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB	<u>2330</u>		
PUMP TRUCK CHARGE			<u>\$1250.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>20</u>	@ <u>\$7.00</u>	<u>\$140.00</u>
MANIFOLD		@	
<u>LU Mileage</u>		@ <u>\$4.00</u>	<u>\$80.00</u>
		@	
TOTAL			<u>\$1470.00</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL \_\_\_\_\_

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

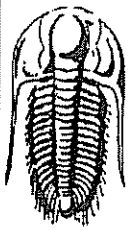
TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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

PRINTED NAME KELLY WILSON

SIGNATURE Kelly Wilson



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co.  
301 S Market St. Wichita Ks. 67202-3805  
ATTN: Mac Armstrong

15/14/31  
Hanna A No. 1-15  
Job Ticket: 41249      DST#: 1  
Test Start: 2012.03.09 @ 14:15:00

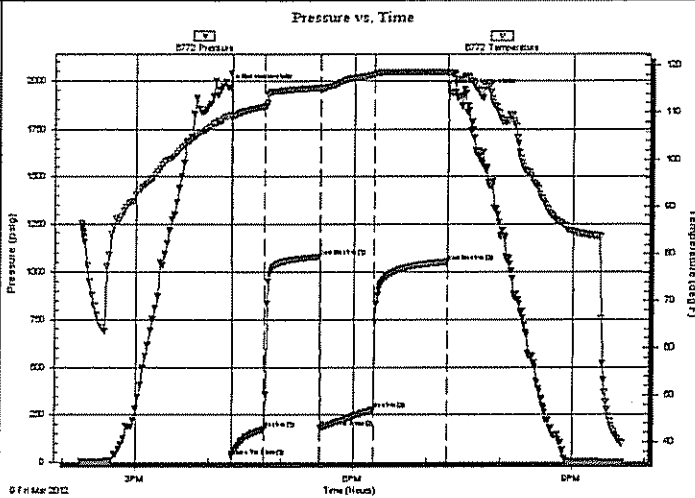
## GENERAL INFORMATION:

Formation: HIJ  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 16:19:15  
Time Test Ended: 21:40:30  
Interval: 4053.00 ft (KB) To 4153.00 ft (KB) (TVD)  
Total Depth: 4150.00 ft (KB) (TVD)  
Hole Diameter: 7.78 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Harley Davidson  
Unit No: 58  
Reference Elevations: 2844.00 ft (KB)  
2832.00 ft (CF)  
KB to GR/CF: 12.00 ft

## Serial #: 6772

Press@RunDepth: 276.24 psig @      ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.03.09      End Date: 2012.03.09      Last Calib.: 2012.03.09  
Start Time: 14:15:05      End Time: 21:40:29      Time On Blrm: 2012.03.09 @ 16:15:30  
Time Off Blrm: 2012.03.09 @ 19:18:15

TEST COMMENT: IF- Good Building blow , BOB 12min.  
IS- No blow back.  
FF- Good building blow BOB 29min.  
FS- No blow back.



## PRESSURE SUMMARY

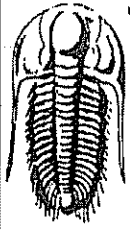
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.80	109.11	Initial Hydro-static
4	31.32	108.98	Open To Flow (1)
31	174.38	111.24	Shut-In(1)
76	1080.56	115.25	End Shut-In(1)
77	179.46	115.07	Open To Flow (2)
121	276.24	118.06	Shut-In(2)
181	1049.41	118.58	End Shut-In(2)
183	1942.03	118.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
200.00	5%oil 15%water 80 % mud	0.98
410.00	5%oil 20%mud 75%water	5.42

## 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 St. Wichita Ks. 67202-3805  
ATTN: Mac Armstrong

15/14/31  
**Hanna A No. 1-15**  
Job Ticket: 41249      DST#: 1  
Test Start: 2012.03.09 @ 14:15:00

### Mud and Cushion Information

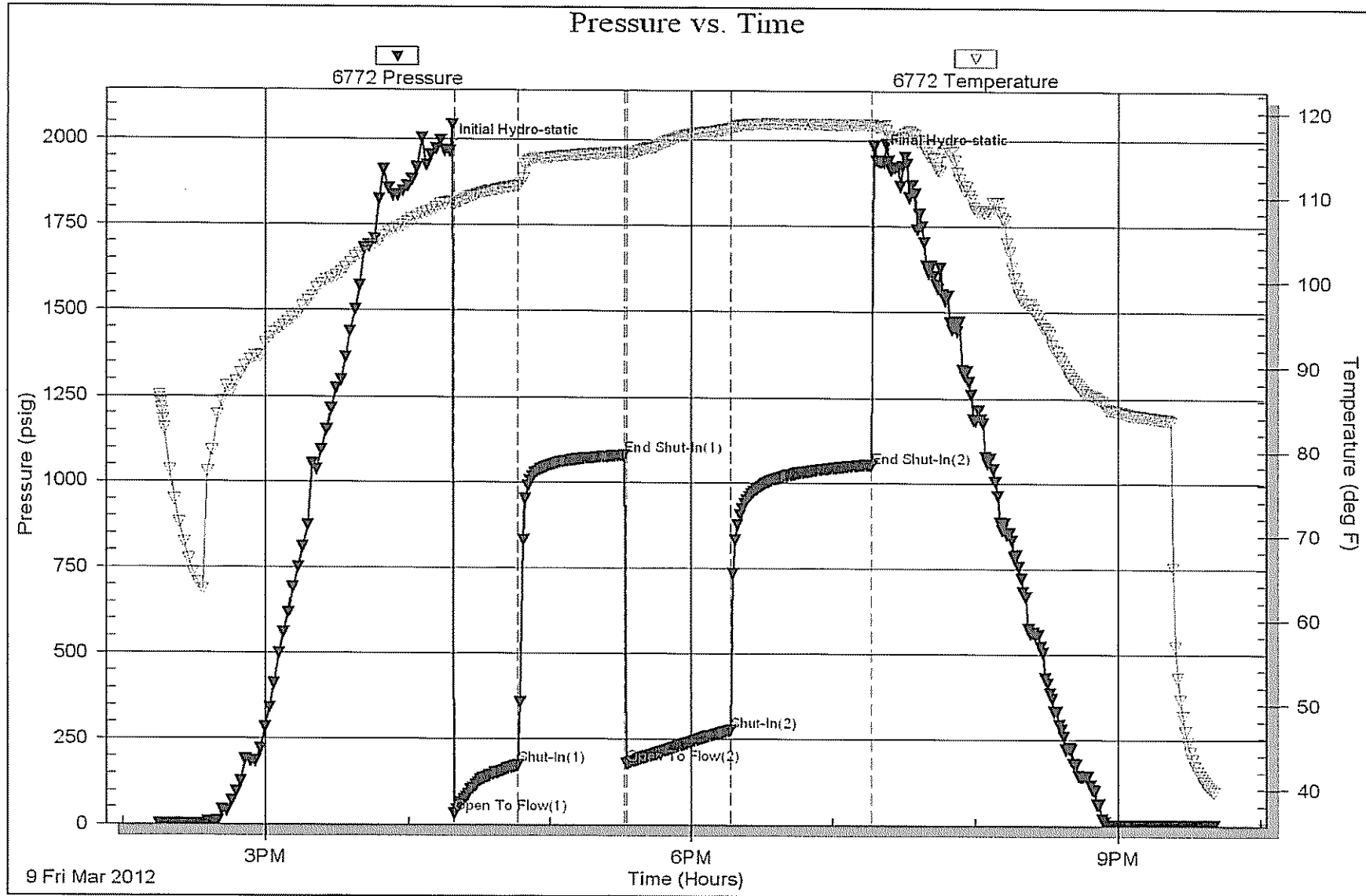
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

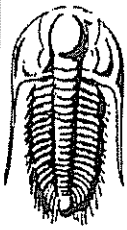
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	5%oil 15%water 80 % mud	0.984
410.00	5%oil 20%mud 75%water	5.423

Total Length: 610.00 ft      Total Volume: 6.407 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Sorry water to dirty to get CHL.





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas Co.  
301 S Market St. Wichita Ks. 67202-3805  
ATTN: Mac Armstrong

15/14/31  
Hanna A No. 1-15  
Job Ticket: 41250 DST#: 2  
Test Start: 2012.03.10 @ 16:15:00

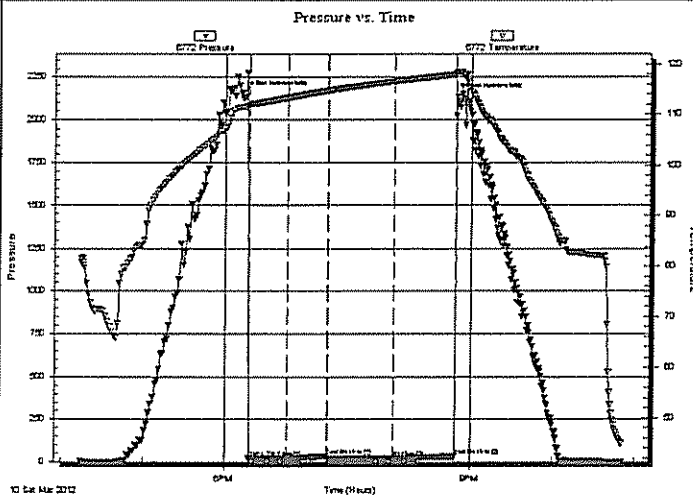
### GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: **No Whipstock** ft (KB)  
Time Tool Opened: 18:17:15  
Time Test Ended: 22:50:45  
Interval: **4314.00 ft (KB) To 4346.00 ft (KB) (TVD)**  
Total Depth: **4346.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole (Initial)**  
Tester: **Harley Davidson**  
Unit No: **58**  
Reference Elevations: **2844.00 ft (KB)**  
**2832.00 ft (CF)**  
KB to GR/CF: **12.00 ft**

### Serial #: 6772

Press@RunDepth: **21.89 psig @** ft (KB) Capacity: **8000.00 psig**  
Start Date: **2012.03.10** End Date: **2012.03.10** Last Calib.: **2012.03.10**  
Start Time: **16:15:05** End Time: **22:50:44** Time On Btm: **2012.03.10 @ 18:11:30**  
Time Off Btm: **2012.03.10 @ 20:49:30**

TEST COMMENT: IF- Weak surface blow that died after 20min.  
IS- No blow back.  
FF- No blow.  
FSI- No blow back.



### PRESSURE SUMMARY

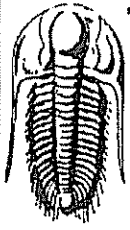
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2153.07	111.40	Initial Hydro-static
6	19.32	111.79	Open To Flow (1)
34	20.13	113.29	Shut-In(1)
63	33.09	114.69	End Shut-In(1)
64	20.44	114.71	Open To Flow (2)
112	21.89	116.59	Shut-In(2)
157	30.09	117.98	End Shut-In(2)
158	2133.04	118.43	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud few oil spots	0.05

### 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 St. Wichita Ks. 67202-3805  
ATTN: Mac Armstrong

15/14/31  
Hanna A No. 1-15  
Job Ticket: 41250      DST#: 2  
Test Start: 2012.03.10 @ 16:15:00

### Mud and Cushion Information

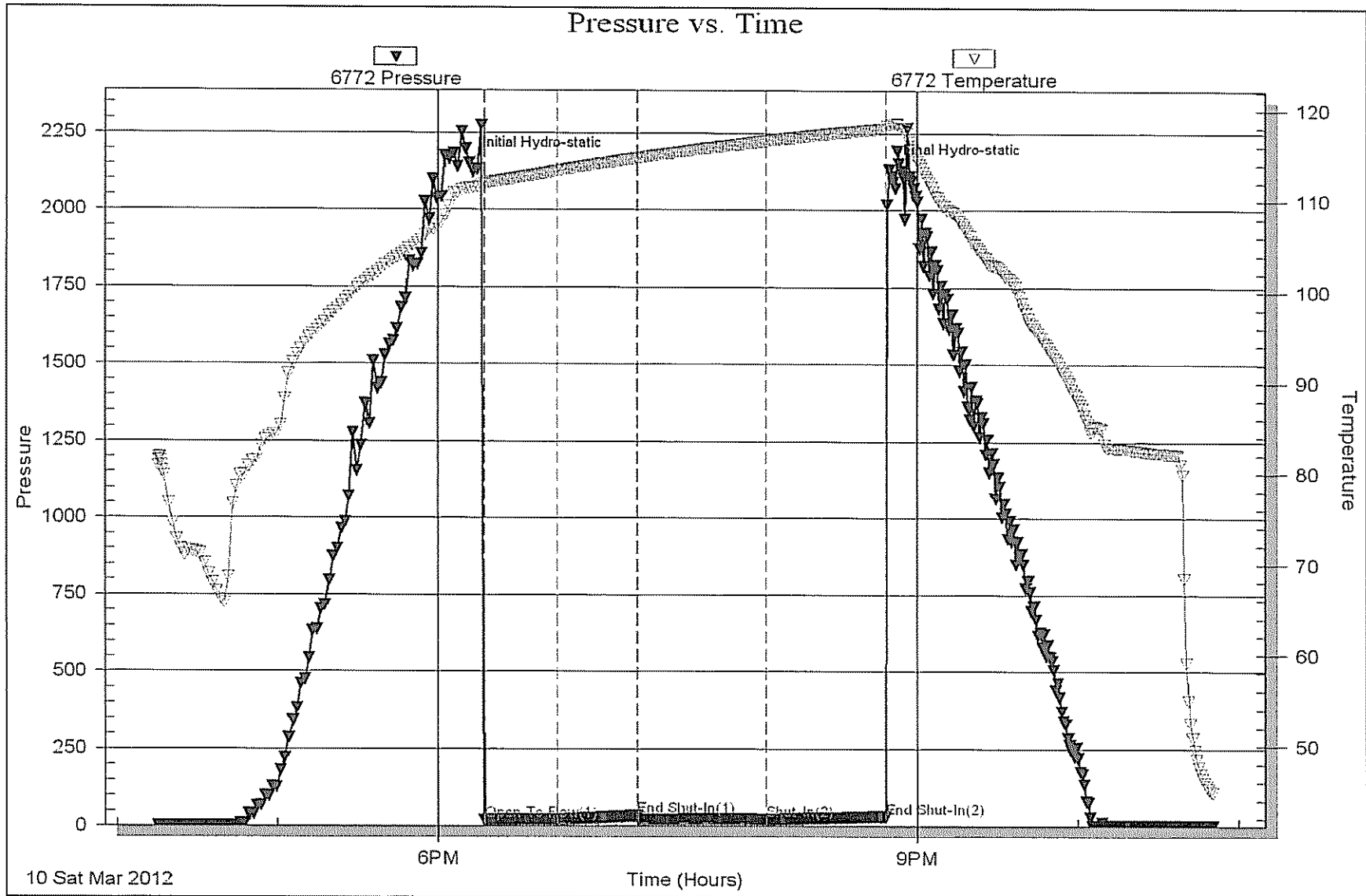
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: inches			

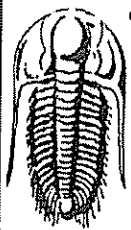
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% mud few oil spots	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:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co.  
301 S Market St. Wichita Ks. 67202-3805  
ATTN: Mac Armstrong

15/14/31  
**Hanna A No. 1-15**  
Job Ticket: 41251      DST#: 3  
Test Start: 2012.03.11 @ 17:45:00

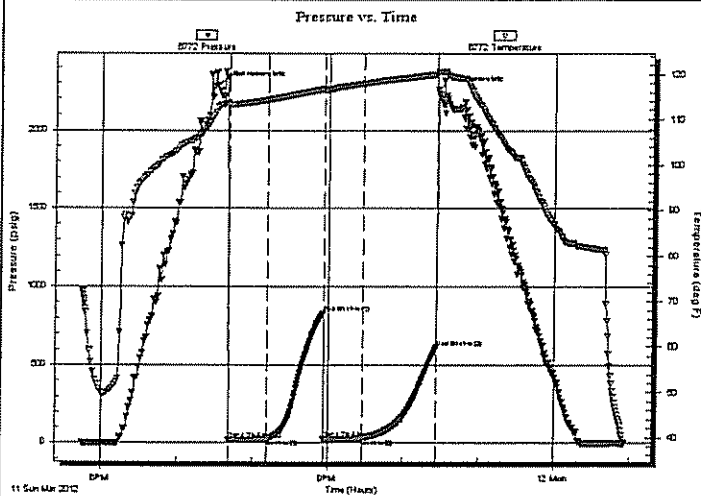
## GENERAL INFORMATION:

Formation: **Johnson**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 19:41:30  
Time Test Ended: 00:55:30  
Interval: **4450.00 ft (KB) To 4504.00 ft (KB) (TVD)**  
Total Depth: **4504.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole (Initial)**  
Tester: **Harley Davidson**  
Unit No: **58**  
Reference Elevations: **2844.00 ft (KB)**  
**2832.00 ft (CF)**  
KB to GR/CF: **12.00 ft**

## Serial #: 6772

Press@RunDepth: **30.39 psig @**      ft (KB)      Capacity: **8000.00 psig**  
Start Date: **2012.03.11**      End Date: **2012.03.12**      Last Calib.: **2012.03.12**  
Start Time: **17:45:05**      End Time: **00:55:29**      Time On Blm: **2012.03.11 @ 19:32:30**  
Time Off Blm: **2012.03.11 @ 22:27:00**

TEST COMMENT: IF- Weak surface blow.  
ISI-  
FF-  
FSI-



## PRESSURE SUMMARY

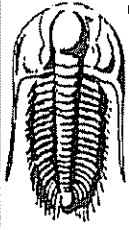
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2288.72	112.76	Initial Hydro-static
9	20.70	113.03	Open To Flow (1)
40	24.85	114.32	Shut-In(1)
84	829.60	116.68	End Shut-In(1)
85	27.13	116.48	Open To Flow (2)
115	30.39	117.89	Shut-In(2)
174	609.40	120.00	End Shut-In(2)
175	2256.83	120.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	2% oil 98% mud	0.10

## 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 St. Wichita Ks. 67202-3805  
ATTN: Mac Armstrong

15/14/31  
Hanna A No. 1-15  
Job Ticket: 41251      DST#: 3  
Test Start: 2012.03.11 @ 17:45:00

**Mud and Cushion Information**

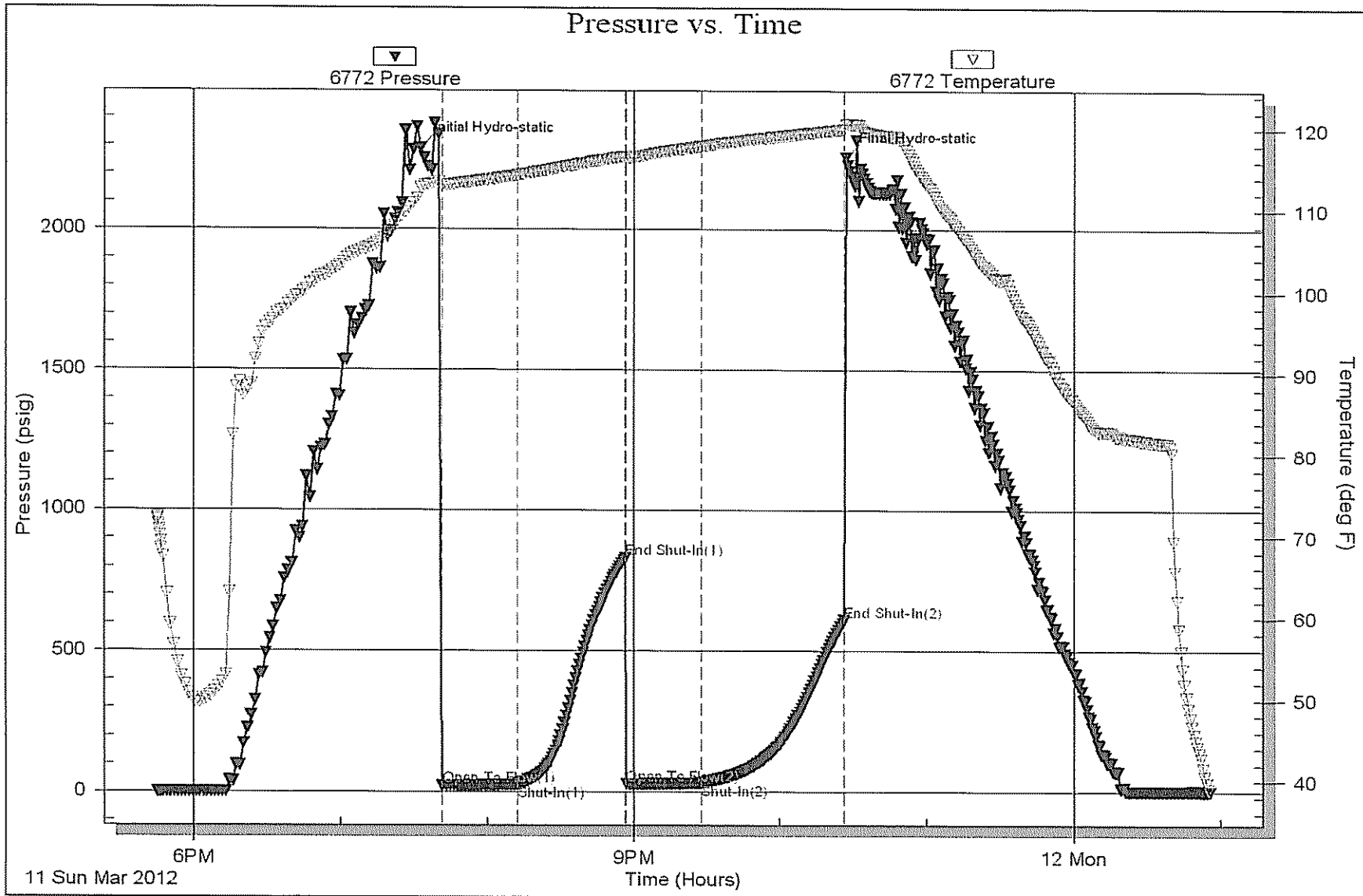
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

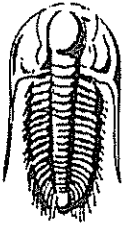
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
20.00	2% oil 98% mud	0.098

Total Length: 20.00 ft      Total Volume: 0.098 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  
301 S Market ST  
Wichita, KS 67202  
ATTN: Brad Rine

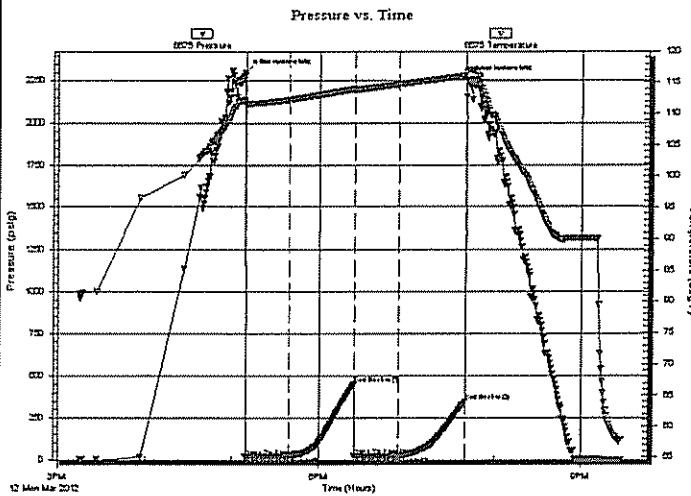
**36 15s 32w**  
**K2 Farms B 1-36**  
Job Ticket: 45928      DST#: 4  
Test Start: 2012.03.12 @ 15:15:00

### GENERAL INFORMATION:

Formation: **Johnson**  
Deviated: **No** Whipstock: **0.00 ft (KB)**  
Time Tool Opened: 17:09:00  
Time Test Ended: 21:27:00  
Interval: **4510.00 ft (KB) To 4573.00 ft (KB) (TVD)**  
Total Depth: **4573.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Jace McKinney**  
Unit No: **46**  
Reference Elevations: **2939.00 ft (KB)**  
**2934.00 ft (CF)**  
KB to GRVCF: **5.00 ft**

**Serial #: 8675**      **Inside**  
Press@RunDepth: **22.51 psig @ 4511.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2012.03.12**      End Date: **2012.03.12**      Last Calib.: **2012.03.12**  
Start Time: **15:15:01**      End Time: **21:27:00**      Time On Btm: **2012.03.12 @ 17:08:45**  
Time Off Btm: **2012.03.12 @ 19:41:00**

TEST COMMENT: Built to 1/4" blow  
No return blow  
No blow  
No return blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.45	112.09	Initial Hydro-static
1	19.17	111.31	Open To Flow (1)
31	20.94	112.21	Shut-In(1)
75	448.19	113.88	End Shut-In(1)
75	21.90	113.71	Open To Flow (2)
105	22.51	114.64	Shut-In(2)
151	346.72	116.04	End Shut-In(2)
153	2257.22	116.88	Final Hydro-static

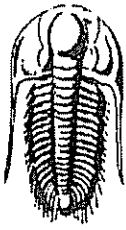
### Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud with oil scum	0.02

\* 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  
301 S Market ST  
Wichita, KS 67202  
ATTN: Brad Rine

36 15s 32w  
K2 Farms B 1-36  
Job Ticket: 45928      DST#: 4  
Test Start: 2012.03.12 @ 15:15:00

**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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud with oil scum	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

