

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

11/10/12

Operator: License # 5214  
Name: Lario Oil & Gas Company  
Address: 301 S. Market  
City/State/Zip: Wichita, KS 67202  
Purchaser: Plains **KCC**  
Operator Contact Person: Jay G. Schweikert  
Phone: (316) 265-5611  
Contractor: Name: WW Drilling, LLC  
License: 33575  
Wellsite Geologist: Tim Lauer

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, 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./SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_

8-27-10 9-5-10 10-15-10  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 063-21855-00-00  
County: Gove  
S2 NE NW NW Sec. 31 Twp. 13 S. R. 31  East  West  
335 feet from S (N) (circle one) Line of Section  
990 feet from E (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE (NW) SW  
Lease Name: Knapp Well #: 4-31  
Field Name: Maurice Northeast

Producing Formation: Lansing  
Elevation: Ground: 2928' Kelly Bushing: 2933'  
Total Depth: 4715' Plug Back Total Depth: 4654'  
Amount of Surface Pipe Set and Cemented at 255 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 2323 Feet  
If Alternate II completion, cement circulated from 2323  
feet depth to surface w/ 350 sx cmt.

Drilling Fluid Management Plan AKJWB 11-17-10  
(Data must be collected from the Reserve Pit)  
Chloride content 12,100 ppm Fluid volume 810 bbls  
Dewatering method used evaporation

Location of fluid disposal if hauled offsite:  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Jay G. Schweikert  
Title: Jay G. Schweikert, Operations Engineer Date: 11-10-10

Subscribed and sworn to before me this 11th day of November,  
20 10  
Notary Public: Kathy L. Ford  
My Appt Expires 10-22-14  
Date Commission Expires: 10-22-14

**KCC Office Use ONLY**  
 Letter of Confidentiality Received 11/10/10 - 11/10/12  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
**RECEIVED**  
**NOV 15 2010**

KCC WICHITA

Operator Name: Lario Oil & Gas Company Lease Name: Knapp Well #: 4-31  
 Sec. 31 Twp. 13 S. R. 31  East  West County: Gove

**INSTRUCTIONS:** Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  <b>DIL/MEL/CDL/CNL/PE</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>3908</td> <td>-975</td> </tr> <tr> <td>Lansing</td> <td>3952</td> <td>-1019</td> </tr> <tr> <td>Hushpuckney</td> <td>4232</td> <td>-1299</td> </tr> <tr> <td>Base KC</td> <td>4276</td> <td>-1343</td> </tr> <tr> <td>Marmaton</td> <td>4323</td> <td>-1390</td> </tr> <tr> <td>Ft. Scott</td> <td>4431</td> <td>-1498</td> </tr> <tr> <td>Basal Penn</td> <td>4574</td> <td>-1641</td> </tr> <tr> <td>Mississippian</td> <td>4601</td> <td>-1668</td> </tr> </table>	Name	Top	Datum	Heebner	3908	-975	Lansing	3952	-1019	Hushpuckney	4232	-1299	Base KC	4276	-1343	Marmaton	4323	-1390	Ft. Scott	4431	-1498	Basal Penn	4574	-1641	Mississippian	4601	-1668
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Mississippian	4601	-1668																										

CASING RECORD <input checked="" 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
surface	12 1/4"	8 5/8"	23#	255'	Common	175	2% gel, 3% CC
production		5 1/2"	14#	4677'	AA-2	160	10# sat, .5% FLA, 5# gl, .25 DF
DV tool				2320'	A-Con Lite	350	1/4# floeal

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	
4	4530' - 4535'		300 gal 15% MCA, 1000 gal 15% NEFE	4530' - 4535'
4	4121' - 4127'		300 gal 15% MCA	4121' - 4127'
4	4108' - 4110'		500 gal 15% NEFE	4108' - 4110'

<b>TUBING RECORD</b>		Size <u>2 3/8"</u>	Set At <u>4652'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>10-26-10</u>		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. <u>117</u>	Gas Mcf <u>0</u>	Water Bbls. <u>33</u>	Gas-Oil Ratio	Gravity

Disposition of Gas **METHOD OF COMPLETION** Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  
*(If vented, Submit ACO-18.)*  Other (Specify) \_\_\_\_\_



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887  
Fax: (785) 483-5566

# INVOICE

Invoice Number: 124226  
Invoice Date: Aug 27, 2010  
Page: 1

**Bill To:**  
Lario Oil & Gas Co.  
*P.O. Box 1093  
Garden City, Ks 67846*

**KCC**  
**NOV 10 2010**  
**CONFIDENTIAL**

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Lario	<u>Knopp #4-31</u>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 27, 2010	9/26/10

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	15.45	2,703.75
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
184.00	SER	Handling	2.40	441.60
20.00	SER	Mileage 184 sx @ .10 per sk per mi	18.40	368.00
1.00	SER	Surface	1,018.00	1,018.00
20.00	SER	Pump truck Mileage	7.00	140.00
	<i>Drilling</i>	<i>AFE-10-</i>		

*AC*

Acct:	Exp:	FILE	UN	DRY
SC				
KG				
HY		SEP 07 2010		DB
PV				MM
OD	<i>AC</i>	KF	GV	SP
				DM

*CR 9/2/10*

RECEIVED  
NOV 15 2010  
KCC WICHITA

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

**\$ 1270.75**

ONLY IF PAID ON OR BEFORE  
**Sep 21, 2010**

Subtotal	5,082.95
Sales Tax	250.79
Total Invoice Amount	5,333.74
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,333.74</b>

# ALLIED CEMENTING CO., LLC. 038991

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

KCC  
NOV 10 2010

SERVICE POINT:  
DALLEY ~~80710~~

DATE <u>8-27-10</u>	SEC. <u>31</u>	TWP. <u>13S</u>	RANGE <u>31W</u>	ON LOCATION <u>6:00 pm</u>	JOB START <u>6:30 pm</u>	JOB FINISH <u>7:00 pm</u>
LEASE <u>Knapp</u>	WELL# <u>41-31</u>	LOCATION <u>DALLEY 205-26-49</u>	COUNTY <u>Gove</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)			E in		RECEIVED	

CONTRACTOR W.W #2

TYPE OF JOB Surf Seal

HOLE SIZE 12 1/4 T.D. 256'

CASING SIZE 8 1/2 DEPTH 255'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

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

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

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 15.2

OWNER \_\_\_\_\_

NOV 15 2010

CEMENT

AMOUNT ORDERED 175 com 3070cc

29 local

EQUIPMENT

PUMP TRUCK CEMENTER Tuzzy

# 431 HELPER Kelly

BULK TRUCK

# 347 DRIVER Darren

BULK TRUCK

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

COMMON	<u>175</u>	@	<u>1545</u>	<u>2703<sup>75</sup></u>
POZMIX		@		
GEL	<u>3</u>	@	<u>2050</u>	<u>62<sup>50</sup></u>
CHLORIDE	<u>6</u>	@	<u>5820</u>	<u>349<sup>20</sup></u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>184</u>	@	<u>240</u>	<u>441<sup>60</sup></u>
MILEAGE	<u>1045 km</u>	@		<u>368<sup>00</sup></u>
TOTAL				<u>3924<sup>95</sup></u>

REMARKS:

cement did circulate

Job complete @ 7:00 pm

Thanks Tuzzy & crew

CHARGE TO: Lario Oil & Gas

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB 255'

PUMP TRUCK CHARGE 1018<sup>00</sup>

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

MILEAGE 20 @ 7<sup>00</sup> 140<sup>00</sup>

MANIFOLD @ \_\_\_\_\_

TOTAL 1158<sup>00</sup>

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 Lonnie Lang

SIGNATURE Lonnie Lang

PLUG & FLOAT EQUIPMENT

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

TOTAL \_\_\_\_\_

SALES TAX (if Any) \_\_\_\_\_

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

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

## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "ALLIED" shall mean Allied Cementing Co., LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

### —SERVICE CONDITIONS AND LIABILITIES:

1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

### WARRANTIES:

1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

#### 2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



PAGE 1 of 1	CUST NO 1002301	INVOICE DATE 09/08/2010
INVOICE NUMBER 1717 - 90402719		

Liberal  
 B LARIO OIL & GAS  
 I PO Box: 1093  
 L GARDEN CITY  
 L KS US 67846  
 T  
 O ATTN:

(620) 624-2277

KCC  
 NOV 10 2010  
 CONFIDENTIAL

J LEASE NAME Knapp #4-31 Drilling  
 O LOCATION AFE-10-196 OK 9/10/10  
 B COUNTY Gove  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40226613	27462		Net - 30 days	10/08/2010
For Service Dates: 09/05/2010 to 09/05/2010				
0040226613				
171701012A Cement-New Well Casing/Pi 09/05/2010 5 1/2" Longstring				
AA2 Cement	160.00	EA	10.52	1,682.69 T
A-Con Blend	300.00	EA	10.75	3,224.38 T
Premium Plus Cement	100.00	EA	9.42	941.89 T
Salt	807.00	EA	0.29	233.16 T
Gilsonite	800.00	EA	0.39	309.73 T
CAF 38 Defoamer	38.00	EA	4.05	153.71 T
FLA-115	91.00	EA	8.67	788.76 T
WCA-1	57.00	EA	14.45	823.43 T
Celloflake	100.00	EA	2.14	213.80 T
Calcium Chloride	1,034.00	EA	0.61	627.37 T
Auto Fill Float Shoe - 5 1/2"	1.00	EA	208.02	208.02
Basket - 5 1/2"	1.00	EA	167.58	167.58
Latch Down Plug & Assembly - 5 1/2"	1.00	EA	491.17	491.17
Centralizer - 5 1/2"	16.00	EA	63.56	1,017.01
Two Stage Cement Collar - 5 1/2"	1.00	EA	3,524.86	3,524.86
Threadlock Compound Kit	1.00	EA	19.65	19.65
Super Flush II	500.00	EA	0.88	442.05 T
Heavy Equipment Mileage	300.00	MI	4.04	1,213.48
Blending & Mixing Service Charge	560.00	MI	0.81	453.03
Proppant and Bulk Delivery Charge	2,635.00	MI	0.92	2,436.20
Depth Charge; 4001' - 5000'	1.00	EA	1,456.17	1,456.17
Plug Container Charge	1.00	EA	144.46	144.46
Service Supervisor Charge	1.00	HR	101.12	101.12
Car, Pickup or Van Mileage	100.00	MI	2.46	245.58

RECEIVED  
 NOV 15 2010  
 KCC WICHITA

GC	FILE	
KG		
HY		DB
PV		MM
OD	KF	GV SF DM

SEP 13 2010

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	20,919.30
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	760.00
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	21,679.30
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
P.O. Box 129  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 01012 A

9-5-10 DATE TICKET NO. \_\_\_\_\_

DATE OF JOB 9-5-10	DISTRICT Liberal, KS 1717	NEW WELL <input type="checkbox"/>	OLD WELL <input checked="" type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER Lario oil & GAS		LEASE Knapp		WELL NO. 4-3			
ADDRESS KCC		COUNTY Gove		STATE KANSAS			
CITY		STATE NOV 10 2010		SERVICE CREW Carlos Lopez - Robert Cox			
AUTHORIZED BY JERRY BENNET		CONFIDENTIAL		JOB TYPE: 5 1/2" 2 stage LONGSTRING Z41			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 9-5-10	DATE AM 3:00
27462	13					ARRIVED AT JOB 9-5-10	AM 8:00
14284	8					START OPERATION 9-6-10	PM 12:25
19805	8					FINISH OPERATION 9-6-10	PM 8:25
19828	8					RELEASED 9-6-10	AM 9:00
19883	8					MILES FROM STATION TO WELL 135	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *Carl D. Mc...*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL105	AA 2 CEMENT	SKS	160		2912.00
CL101	A' CON' BLEND	SKS	300		5580.00
CL110	PREMIUM PLUS CEMENT	SKS	100		1630.00
CC111	SALT (FINE)	lb	807		4103.50
CC201	Gilsonite	lb	800		5360.00
CC107	CAF 38 Deframer	lb	38		266.00
CC124	FIA-115	lb	91		1345.00
CC130	WCA-1	lb	57		1425.00
CC102	Cello FLAKE (POLE FLAKE-C)	lb	100		370.00
CC109	Calcium Chloride	lb	1,034		1085.70
CE1251	Autofill float shoe 5 1/2"	ea	1		360.00
CE1901	5 1/2" BASKET	ea	1		290.00
CE661	5 1/2" Latch Down Plug & Assembly	ea	1		850.00
CE1771	CENTRALIZERS 5 1/2" x 7 1/8"	ea	16		1760.00
CE401	Two Stage Cement Collar 5 1/2"	ea	1		6100.00
CE3000	Industrial Rubber Thread Lock kit	ea	1		34.00
CC155	Super flush	gal	500		765.00
E101	Heavy Equipment Mileage	mi	300		2100.00
CE240	Blending & Mixing Service Charge	Sk	560		784.00

SUB TOTAL \$20919.30

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE *Carlos Lopez* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY *Carl D. Mc...*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



**BASIC**<sup>™</sup>

ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
 P.O. Box 129  
 Liberal, Kansas 67905  
 Phone 620-624-2277

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CONFIDENTIAL

TICKET NO 01012 A

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 113	Proppant & Bulk Delivery Charge (per ton/m³)	Tm	2635		4216 00
CE 205	Depth Charge; 4001' - 5000'	4 hrs	1		2520 00
CE 504	Plug Container Utilization Charge	Job	1		250 00
5003	Service Supervisor, First 8 hrs. on Loc.	ea	1		175 00
e 100	Unit Mileage Charge - pickup -	mi	100		425 00
<del>CE 402</del>	<del>Additional Hoses on location</del>	<del>hrs</del>	<del>4</del>	<del>\$250/hr</del>	<del>\$1000 00</del>

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Customer <i>LARIO oil &amp; Gas</i>	Lease No.	Date <i>9-5-10</i>
Lease <i>Kwapp</i>	Well # <i>4-31</i>	
Field Order # <i>01012A</i>	Station <i>Liberal, KS 1717</i>	Casing <i>5 1/2"</i> Depth <i>4677'</i> County <i>Grove</i> State <i>KS</i>
Type Job <i>5 1/2" Two Stage Longstring</i>	Formation	Legal Description <i>31-135-31w</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2"</i>	Tubing Size	Shots/Ft	<i>DV tool</i>	Acid		RATE	PRESS	ISIP
Depth <i>4677'</i>	Depth	From	<i>@ 2323</i>	Pre Pad		Max <i>6</i>	<i>1100</i>	5 Min.
Volume <i>113.6</i>	Volume	From	<i>To - 2325</i>	Pad		Min <i>1.7</i>	<i>2</i>	10 Min.
Max Press <i>3120</i>	Max Press	From	<i>To: 900</i>	Frac		Avg <i>4</i>	<i>550</i>	15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>7656</i>	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative <i>CURTIS KEIL</i>	Station Manager <i>JERRY BENNETT</i>	Treater <i>Carlos Lopez</i>
Service Units	<i>19902 27462 19805 14284 19828 19883</i>	
Driver Names	<i>C. Lopez R. Cox Victor Vasquez ABEI ONERA</i>	

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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	STAGE # 1	Service Log
<i>pm 8:00</i>						<i>ARRIVED AT LOCATION</i>
<i>am 12:10</i>						<i>STABIZE CEMENT Head &amp; Drop Ball</i>
<i>am 12:25</i>						<i>CIRCULATE WELL</i>
<i>1:49</i>	<i>3000</i>	<i>2000</i>				<i>TEST LINES &amp; Pump</i>
<i>1:50</i>	<i>200</i>		<i>5</i>	<i>2</i>		<i>5 bbl H2O SPACER Ahead</i>
<i>1:52</i>	<i>200</i>		<i>12</i>	<i>4</i>		<i>12 bbl Super flush</i>
<i>1:55</i>	<i>150</i>		<i>5</i>	<i>3</i>		<i>H2O Behind</i>
<i>1:57</i>	<i>500</i>		<i>40.5</i>	<i>5.5</i>		<i>160 SKS AA2 CEMENT @ 15# - 25# Deformer 0.6% FIA, 10% SALT, 5#/SK Gilsonite</i>
<i>2:08</i>						<i>Washup Pump &amp; Lines</i>
<i>2:09</i>						<i>Drop Latch Down Plug</i>
<i>2:13</i>	<i>250</i>		<i>113.6</i>	<i>6</i>		<i>Displacement w/ RIG mud</i>
<i>2:41</i>	<i>550</i>		<i>103.6</i>	<i>2</i>		<i>Slow Down Pump Rate to 2bpm</i>
<i>2:45</i>	<i>600</i>			<i>1.7</i>		<i>Bump Plug up to 1100psi</i>
<i>2:46</i>						<i>Release Pressure - Flat Held</i>
<i>3:06</i>	<i>900</i>					<i>Drop DV Tool Bomb &amp; Pressure up to OPEN</i>
<i>3:20</i>						<i>Changed over to RIG &amp; Circ. for 3 hours</i>

KCC WICHITA

# BASIC

energy services, L.P.

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TREATMENT REPORT

NOV 10 2010

Customer	LARID Oil & Gas	Lease No.		Date	9-6-10
Lease	KNADO	Well #	4-31	CONFIDENTIAL	
Field Order #	01012 A	Station	Liberal, KS 1717	Casing	3.5"
Type Job	5 1/2" 2 stage Long string	Depth	4677	County	GOVE
		Formation		State	KS
		Legal Description	31-133-31W		

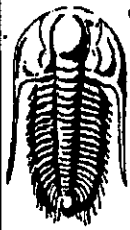
PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad		Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative: *Christi's Keil* Station Manager: *Jerry Bennett* Treater: *Carlos Lopez*

Service Units					
Driver Names					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:35 AM					STAGE #2
6:58	50		7.16	3	Changed lines from Rig to Basic
7:07	50		4.78	3	Plug Rat hole w/ 30 SKS of Prem Plus CMT @ 13.5#
7:12	300		168.83	6	2% CC - 1/4 # Cellflake
7:48					Plug Mouse hole w/ 30 SKS of Prem Plus CMT @ 13.5# - 2% CC - 1/4 # Cellflake
7:52					300 SKS of 'A' con BLEND w/ 3% CC 1/4 # Cellflake - 1/5 # WCA-1
7:58	450		56.7		Shut Down Washup to Pit
8:10	600		46.7	3	Drop Top Plug
8:15	700			3	Displacement w/ Rig Tank H2O
8:17					Slow Down Pump Rate to 3 bpm
8:20					Bump Plug up to 2200 psi
9:00					Release PRESSURE - Float Held
7:45	250		11.9	4	Rig Down Basic Equipment
					DEPART LOCATION
					50 SKS Tank CMT mixed @ 14.8#/gal
					Prem Plus 2% CC - 1/4 # Cellflake

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**DRILL STEM TEST REPORT**

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**KCC**

**31-13s-31w Gove, Ks**

Job Ticket: 039651

DST#: 6

**NOV 10 2010**

Test Start: 2010.09.04 @ 08:30:57

ATTN: Tim Lauer

**GENERAL INFORMATION:**

**CONFIDENTIAL**

Formation: **Johnson**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 10:28:57

Time Test Ended: 15:55:27

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **40**

Interval: **4473.00 ft (KB) To 4552.00 ft (KB) (TVD)**

Total Depth: **4552.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2933.00 ft (KB)**

**2928.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 6771**

**Inside**

Press@RunDepth: **99.71 psig @ 4474.00 ft (KB)**

Start Date: **2010.09.04**

End Date:

**2010.09.04**

Start Time: **08:30:57**

End Time:

**15:36:27**

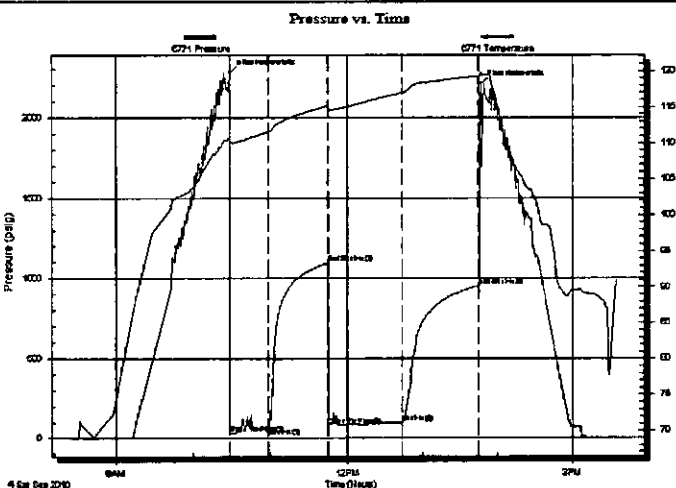
Capacity: **8000.00 psig**

Last Calib.: **2010.09.04**

Time On Btm: **2010.09.04 @ 10:28:42**

Time Off Btm: **2010.09.04 @ 13:47:12**

**TEST COMMENT:** 2 1/4" in blow  
Surface return died in 9 min.  
3" in blow  
Surface return died in 35 min.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.85	110.80	Initial Hydro-static
1	33.54	109.81	Open To Flow (1)
30	70.84	111.58	Shut-In(1)
76	1093.72	115.10	End Shut-In(1)
77	78.88	114.56	Open To Flow (2)
136	99.71	116.97	Shut-In(2)
197	951.89	119.22	End Shut-In(2)
199	2208.61	119.72	Final Hydro-static

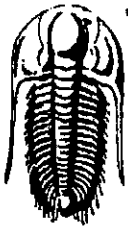
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**Recovery**

Length (ft)	Description	Volume (bbl)
62.00	s g o & w c m 5g 10o 15w 70m	0.30
108.00	s g o c m 5g 45o 50m	0.94
0.00	75' weak gas in pipe	0.00

**Gas Rates**

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



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**31-13s-31w Gove, Ks**

ATTN: Tim Lauer

Job Ticket: 039651

DST#: 6

Test Start: 2010.09.04 @ 08:30:57

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
62.00	s g o & w c m 5g 10o 15w 70m	0.305
108.00	s g o c m 5g 45o 50m	0.941
0.00	75' weak gas in pipe	0.000

Total Length: 170.00 ft      Total Volume: 1.246 bbl

Num Fluid Samples: 0

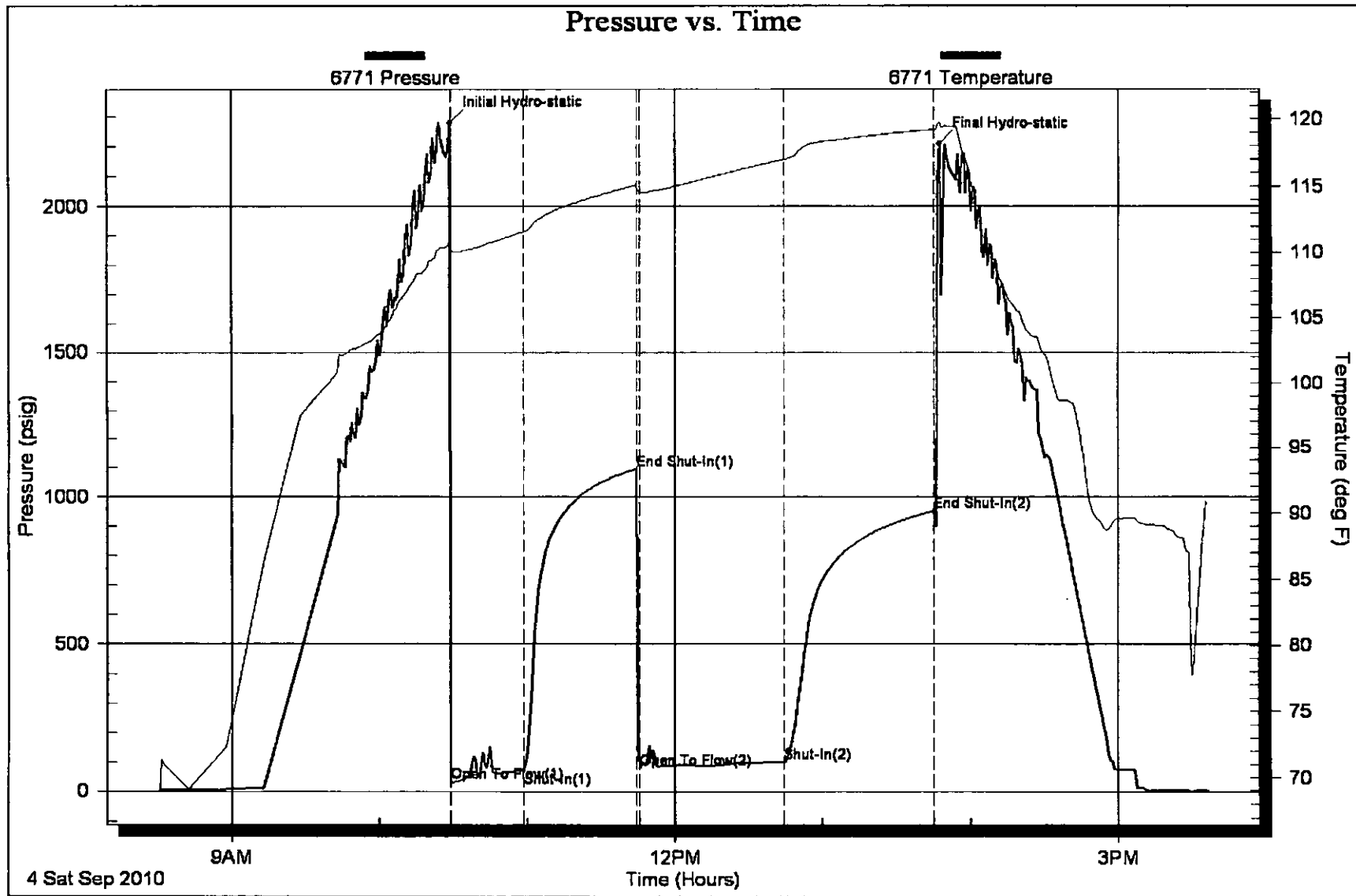
Num Gas Bombs: 0

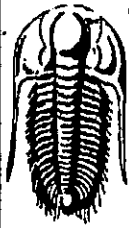
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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## DRILL STEM TEST REPORT

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**31-13s-31w Gove, Ks**

Job Ticket: 039625      DST#: 5

ATTN: Tim Lauer

Test Start: 2010.09.03 @ 14:11:14

### GENERAL INFORMATION:

Formation: **Pawnee, Ft Scott**

Deviated: **No** Whipstock:                      ft (KB)

Time Tool Opened: 15:53:59

Time Test Ended: 20:45:29

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **40**

Interval: **4357.00 ft (KB) To 4455.00 ft (KB) (TVD)**

Reference Elevations:      2933.00 ft (KB)

Total Depth: **4455.00 ft (KB) (TVD)**

2928.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

**Serial #: 6771**

**Inside**

Press@RunDepth: **63.85 psig @ 4358.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.09.03**

End Date:

**2010.09.03**

Last Calib.: **2010.09.03**

Start Time: **14:11:14**

End Time:

**20:27:29**

Time On Btm: **2010.09.03 @ 15:53:44**

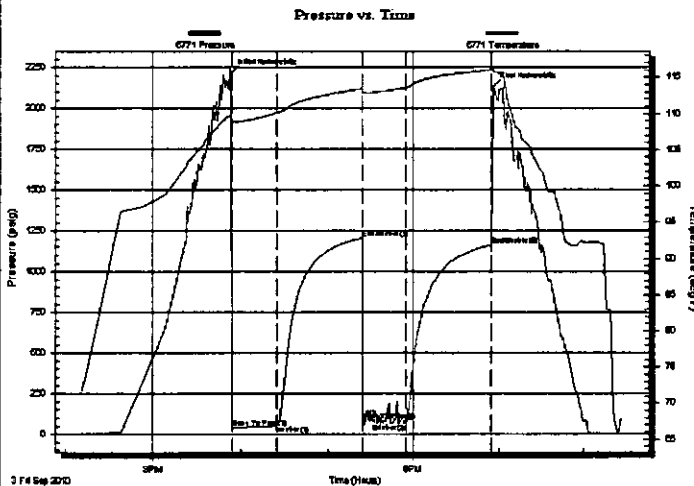
Time Off Btm: **2010.09.03 @ 18:56:14**

**TEST COMMENT:** Weak blow died in 20 min.

No return

No blow

No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2219.07	109.71	Initial Hydro-static
1	43.38	109.04	Open To Flow (1)
31	51.12	110.06	Shut-in(1)
90	1205.72	113.44	End Shut-in(1)
91	84.85	113.00	Open To Flow (2)
121	63.85	113.55	Shut-in(2)
182	1162.06	116.04	End Shut-in(2)
183	2134.65	115.87	Final Hydro-static

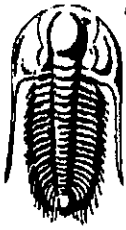
### Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100m oil spots in tool	0.20

### Gas Rates

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

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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**31-13s-31w Gove, Ks**

Job Ticket: 039625

**DST#: 5**

ATTN: Tim Lauer

Test Start: 2010.09.03 @ 14:11:14

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil Apt:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in <sup>2</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
40.00	mud 100m oil spots in tool	0.197

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

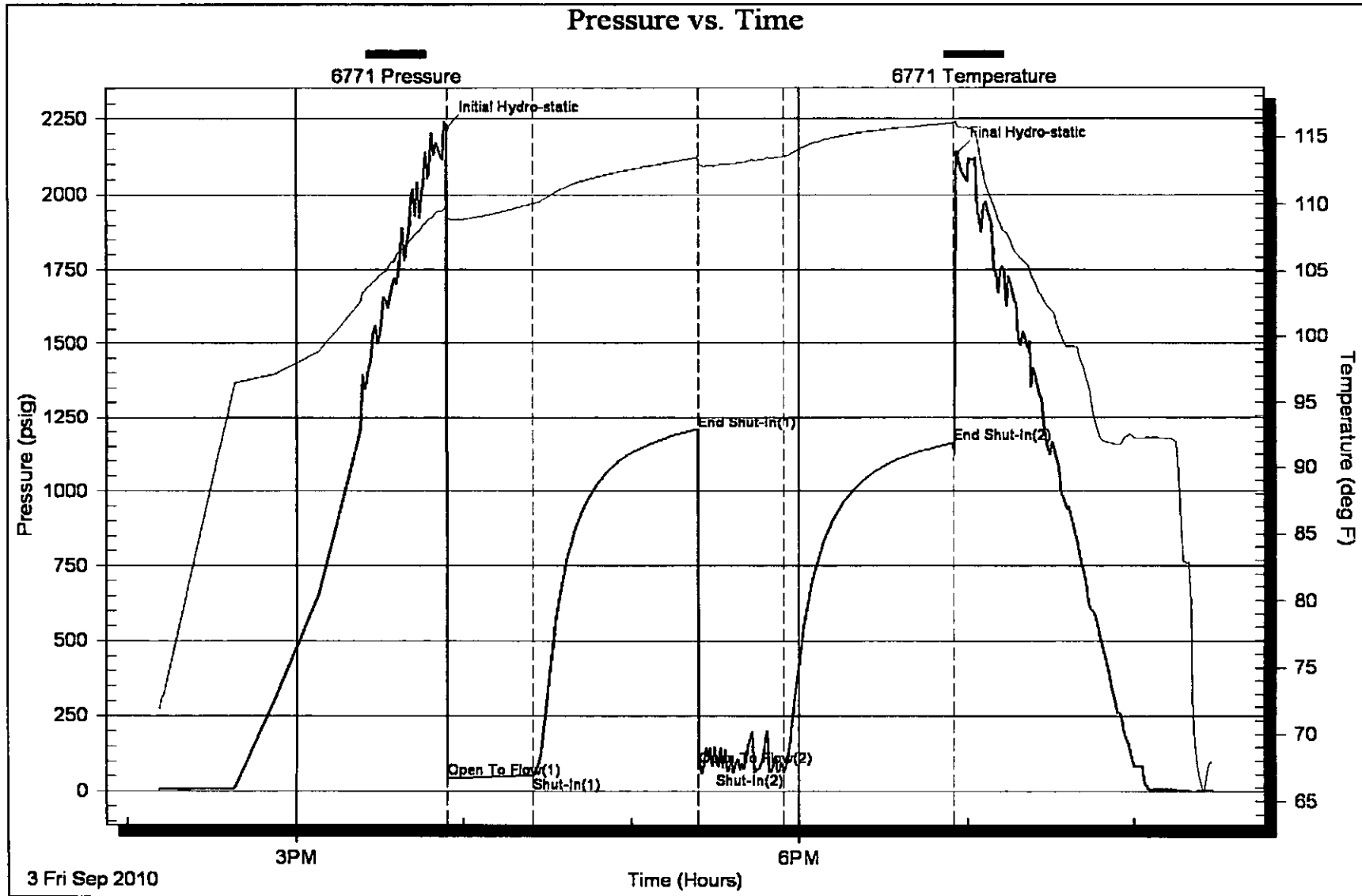
Num Gas Bombs: 0

Serial #:

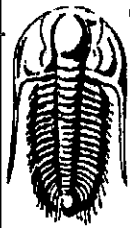
Laboratory Name:

Laboratory Location:

Recovery Comments:







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## DRILL STEM TEST REPORT

Lario Oil & Gas  
301 S Market  
Wichita, Ks  
67202  
ATTN: Tim Lauer

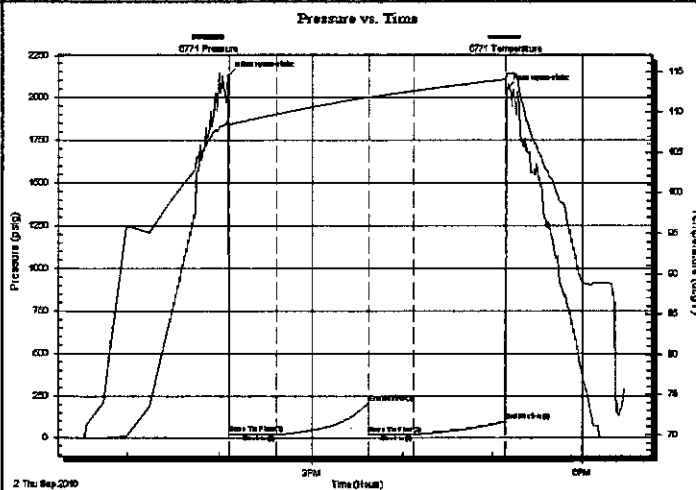
**Knapp #4-31**  
**31-13s-31w Gove, Ks**  
Job Ticket: 039624      DST#: 4  
Test Start: 2010.09.02 @ 12:32:31

### GENERAL INFORMATION:

Formation: L  
Deviated: No Whipstock      ft (KB)  
Time Tool Opened: 14:06:01  
Time Test Ended: 18:45:01  
Test Type: Conventional Bottom Hole  
Tester: Shane McBride  
Unit No: 40  
Interval: 4231.00 ft (KB) To 4270.00 ft (KB) (TVD)  
Reference Elevations: 2933.00 ft (KB)  
Total Depth: 4270.00 ft (KB) (TVD)      2928.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 6771**      Inside  
Press@RunDepth: 24.67 psig @ 4232.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.09.02      End Date: 2010.09.02      Last Calib.: 2010.09.02  
Start Time: 12:32:31      End Time: 18:29:01      Time On Btm: 2010.09.02 @ 14:05:46  
Time Off Btm: 2010.09.02 @ 17:09:16

**TEST COMMENT:** Weak blow died in 20 min  
No return  
No blow  
No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2130.32	109.03	Initial Hydro-static
1	29.42	108.27	Open To Flow (1)
31	23.95	109.72	Shut-In(1)
92	208.86	111.83	End Shut-In(1)
92	26.58	111.75	Open To Flow (2)
122	24.67	112.59	Shut-In(2)
183	100.11	114.01	End Shut-In(2)
184	2053.58	114.70	Final Hydro-static

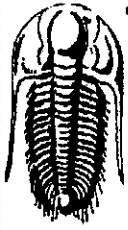
### Recovery

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

### Gas Rates

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

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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**31-13s-31w Gove, Ks**

Job Ticket: 039624

**DST#: 4**

ATTN: Tim Lauer

Test Start: 2010.09.02 @ 12:32:31

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

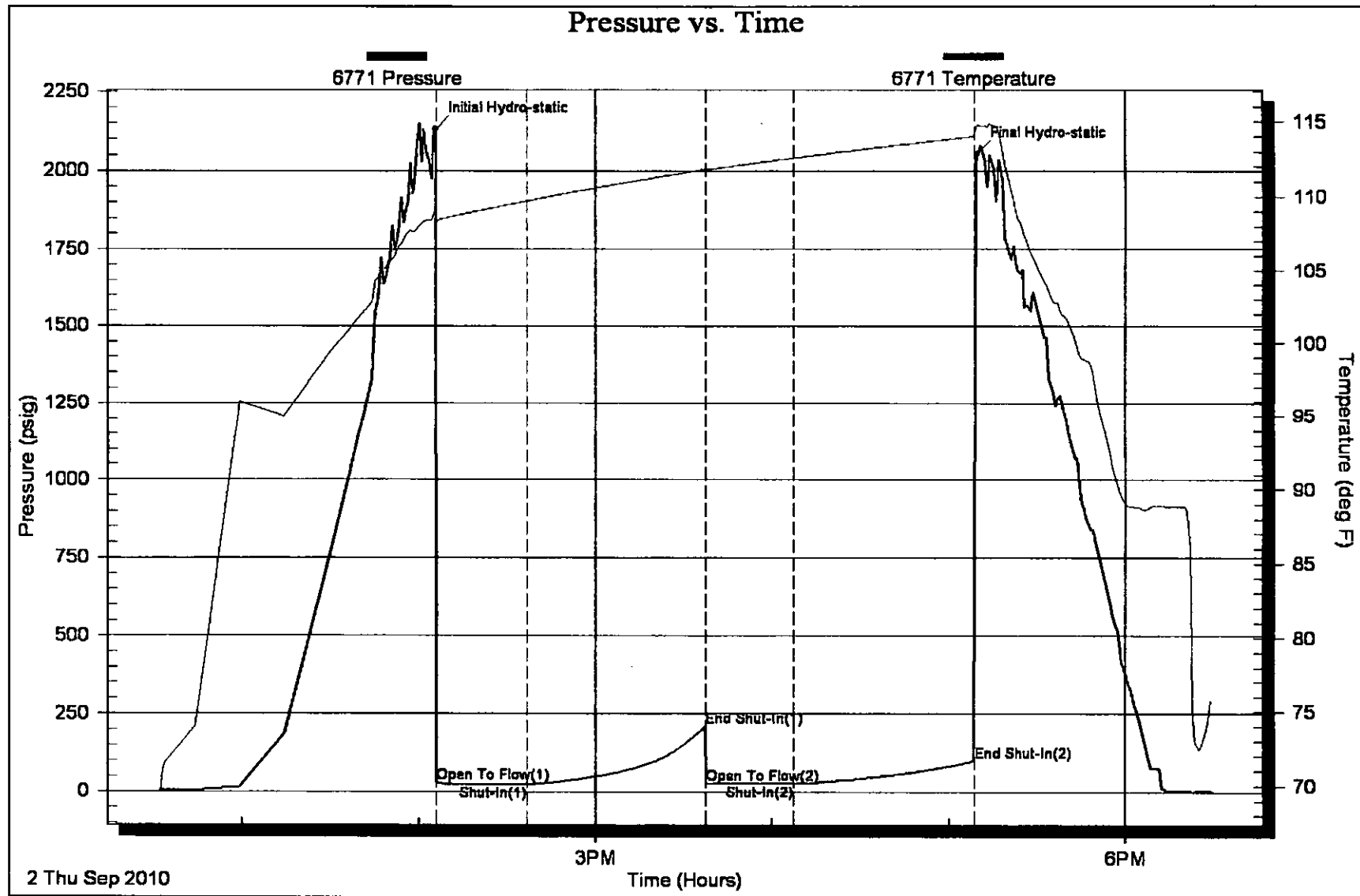
Num Gas Bombs: 0

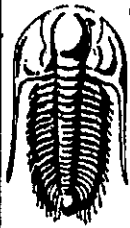
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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## DRILL STEM TEST REPORT

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**31-13s-31w Gove, Ks**

Job Ticket: 039623

**DST#: 3**

ATTN: Tim Lauer

Test Start: 2010.09.01 @ 18:45:45

### GENERAL INFORMATION:

Formation: **J**

Deviated: **No** Whipstock **ft (KB)**

Time Tool Opened: 20:38:00

Time Test Ended: 01:35:15

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **4176.00 ft (KB) To 4190.00 ft (KB) (TVD)**

Reference Elevations: 2933.00 ft (KB)

Total Depth: 4190.00 ft (KB) (TVD)

2928.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6667**

**Outside**

Press@RunDepth: 194.54 psig @ 4177.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.01

End Date:

2010.09.02

Last Calib.: 2010.09.02

Start Time: 18:45:45

End Time:

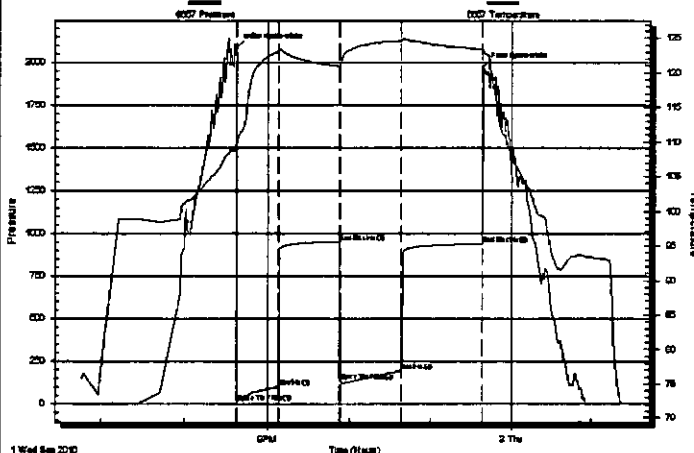
01:23:15

Time On Btm: 2010.09.01 @ 20:37:45

Time Off Btm: 2010.09.01 @ 23:39:15

**TEST COMMENT:** 6" in. blow  
No return  
7" in. blow  
No return

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.48	109.59	Initial Hydro-static
1	13.56	109.23	Open To Flow (1)
31	103.33	123.09	Shut-in(1)
75	951.10	120.96	End Shut-in(1)
75	135.82	120.82	Open To Flow (2)
121	194.54	124.60	Shut-in(2)
181	940.48	123.37	End Shut-in(2)
182	1976.31	123.05	Final Hydro-static

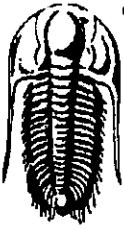
### Recovery

Length (ft)	Description	Volume (bbl)
300.00	w ater 100%w	3.07
60.00	s m c w 10m 90w	0.84

### Gas Rates

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

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**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**31-13s-31w Gove, Ks**

Job Ticket: 039623

**DST#: 3**

ATTN: Tim Lauer

Test Start: 2010.09.01 @ 18:45:45

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

31500 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbl
300.00	water 100%w	3.070
60.00	s m c w 10m 90w	0.842

Total Length: 360.00 ft      Total Volume: 3.912 bbl

Num Fluid Samples: 0

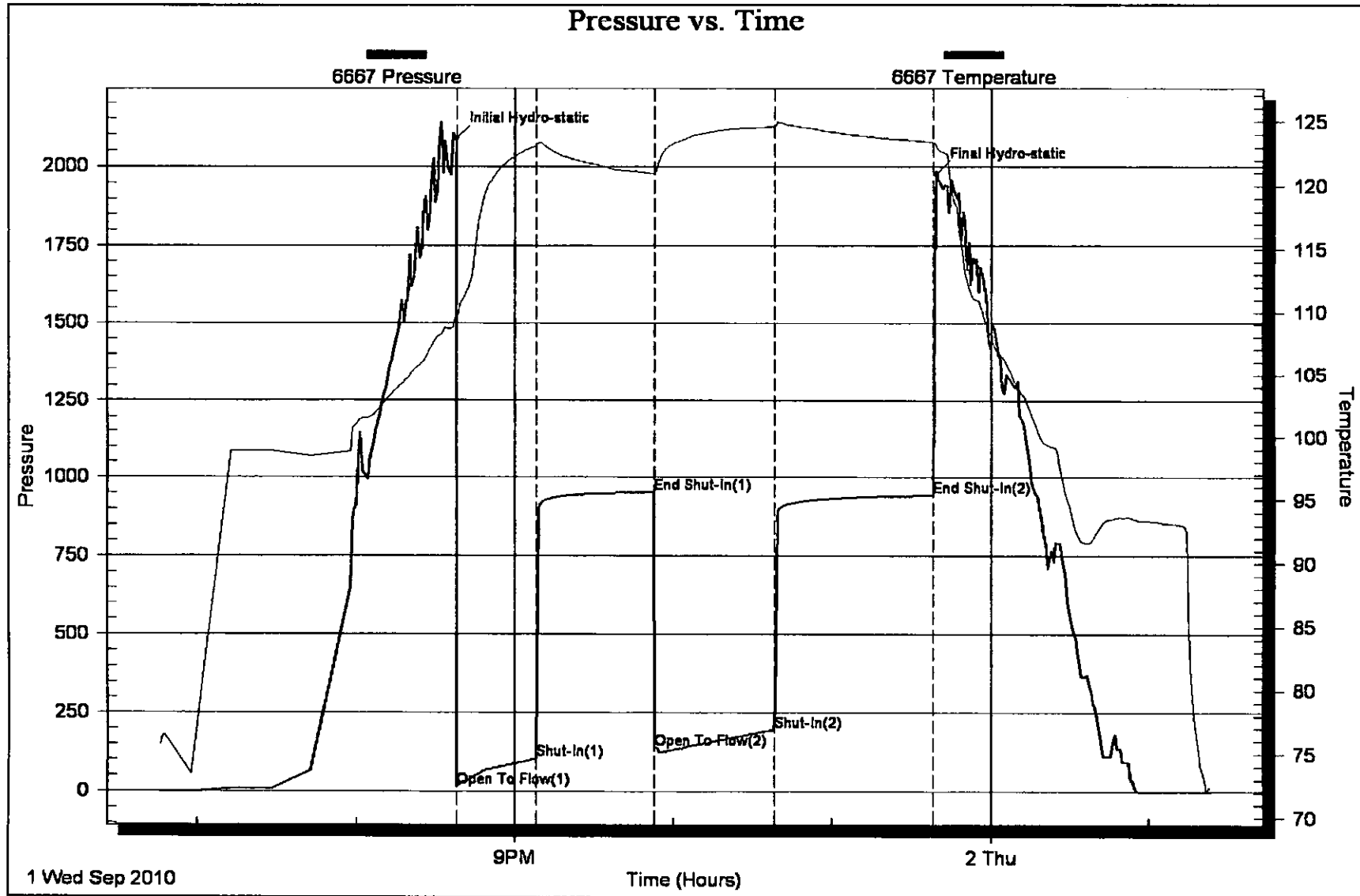
Num Gas Bombs: 0

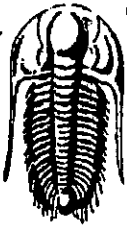
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .239 @ 65°F = 31,000 chlor





**TRIOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**31-13s-31w Gove, Ks**

Job Ticket: 039622

**DST#: 2**

ATTN: Tim Lauer

Test Start: 2010.09.01 @ 03:03:14

## GENERAL INFORMATION:

Formation: **H**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: **04:56:14**

Time Test Ended: **10:05:44**

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **40**

Interval: **4100.00 ft (KB) To 4131.00 ft (KB) (TVD)**

Reference Elevations: **2933.00 ft (KB)**

Total Depth: **4131.00 ft (KB) (TVD)**

**2928.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

**Serial #: 6771**

**Inside**

Press@RunDepth: **197.97 psig @ 4101.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.09.01**

End Date:

**2010.09.01**

Last Calib.: **2010.09.01**

Start Time: **03:03:14**

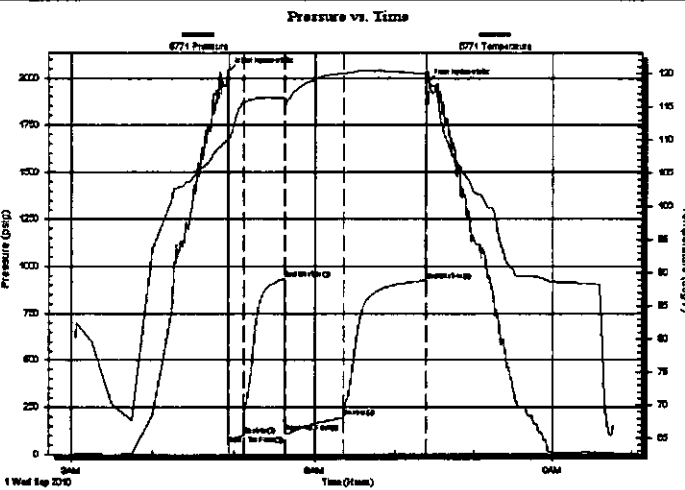
End Time:

**09:47:44**

Time On Btrc: **2010.09.01 @ 04:55:59**

Time Off Btrc: **2010.09.01 @ 07:24:29**

**TEST COMMENT:** B.O.B. in 4 min.  
1 3/4" in blow  
B.O.B. in 5 min.  
6" in return blow died back to 2" in.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.18	110.10	Initial Hydro-static
1	54.89	109.46	Open To Flow (1)
11	104.53	115.62	Shut-In(1)
42	936.79	116.33	End Shut-In(1)
42	117.62	115.59	Open To Flow (2)
86	197.97	120.04	Shut-In(2)
148	926.72	119.98	End Shut-In(2)
149	1973.52	120.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
380.00	g m c o 25g 15m 60o	4.19
130.00	c g o 25g 75o	1.82

## Gas Rates

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

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TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY.**

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**31-13s-31w Gove, Ks**

Job Ticket: 039622

**DST#: 2**

ATTN: Tim Lauer

Test Start: 2010.09.01 @ 03:03:14

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3400.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbl
380.00	g m c o 25g 15m 60o	4.192
130.00	c g o 25g 75o	1.824

Total Length: 510.00 ft      Total Volume: 6.016 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

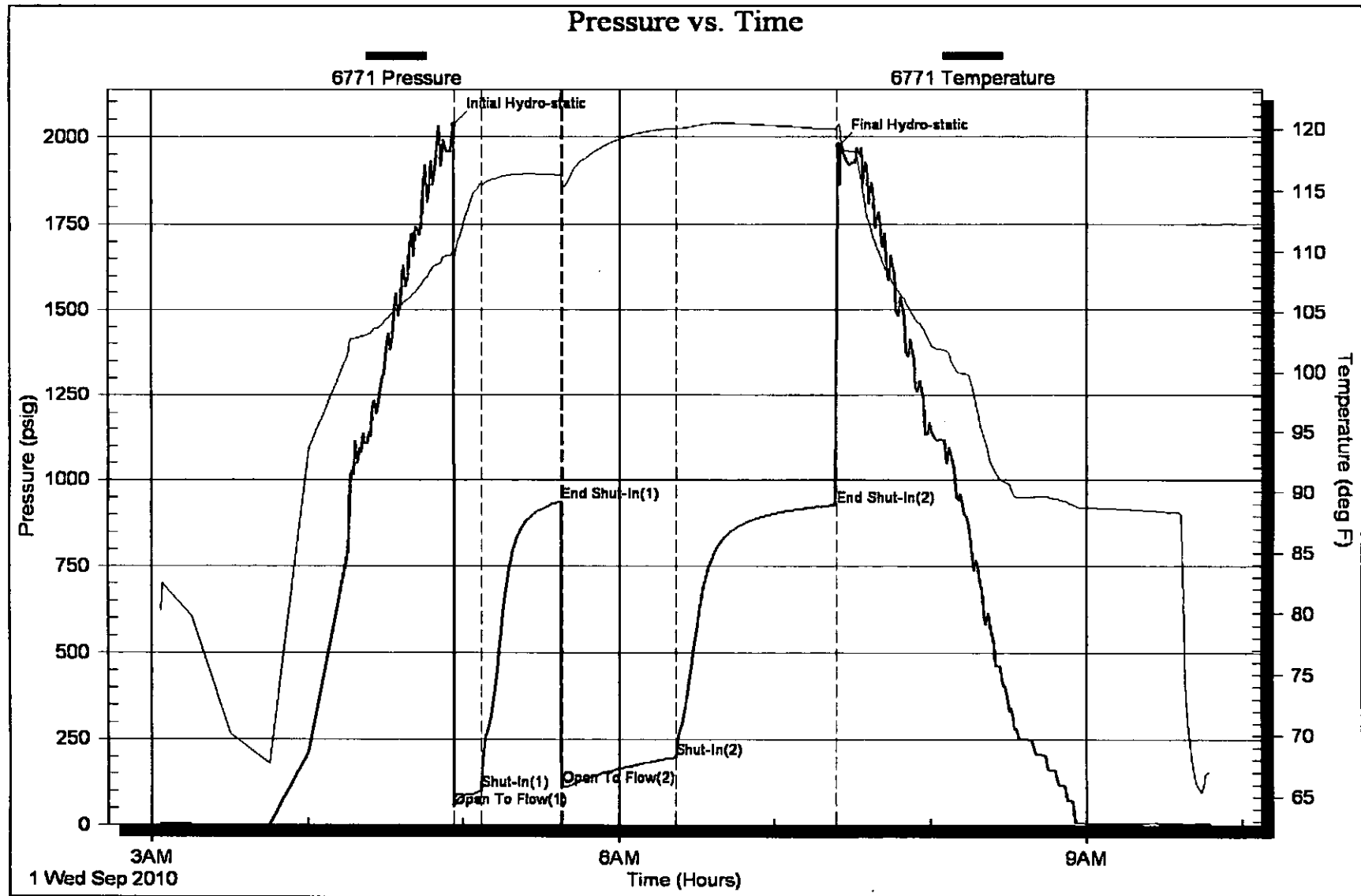
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**31-13s-31w Gove, Ks**

Job Ticket: 039621

**DST#: 1**

ATTN: Tim Lauer

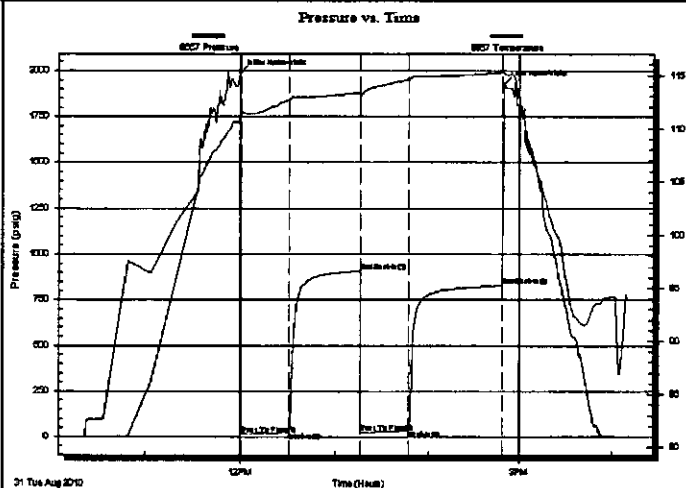
Test Start: 2010.08.31 @ 10:21:40

### GENERAL INFORMATION:

Formation: **B**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 12:00:10  
 Time Test Ended: 16:25:40  
 Interval: **4025.00 ft (KB) To 4040.00 ft (KB) (TVD)**  
 Total Depth: **4040.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Shane McBride**  
 Unit No: **40**  
 Reference Elevations: **2933.00 ft (KB)**  
**2928.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

Serial #: **6667** Outside  
 Press@RunDepth: **35.55 psig @ 4026.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2010.08.31** End Date: **2010.08.31** Last Calib.: **2010.08.31**  
 Start Time: **10:21:40** End Time: **16:09:40** Time On Btrr: **2010.08.31 @ 11:59:55**  
 Time Off Btrr: **2010.08.31 @ 14:49:25**

TEST COMMENT: **1/4"+ blow died back to 1/8" in**  
**No return**  
**No blow**  
**No return**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1986.48	111.47	Initial Hydro-static
1	17.68	111.03	Open To Flow (1)
31	25.72	112.66	Shut-in(1)
76	906.44	113.40	End Shut-in(1)
77	27.51	112.86	Open To Flow (2)
108	35.55	114.61	Shut-in(2)
169	828.33	115.28	End Shut-in(2)
170	1928.19	115.25	Final Hydro-static

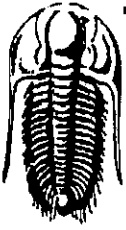
### Recovery

Length (ft)	Description	Volume (bbl)
30.00	w c m w /oil spots	0.15
0.00	show of oil on top	0.00

### Gas Rates

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

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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas

**Knapp #4-31**

301 S Market  
Wichita, Ks  
67202

**31-13s-31w Gove, Ks**

Job Ticket: 039621

**DST#: 1**

ATTN: Tim Lauer

Test Start: 2010.08.31 @ 10:21:40

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

37000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbl
30.00	w c m w /oil spots	0.148
0.00	show of oil on top	0.000

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Borrs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .139 @ 95°F= 37,000 chlor

