

CONFIDENTIAL

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

11/17/12

Operator: License # 5214
Name: Lario Oil & Gas Company
Address: 301 S. Market
City/State/Zip: Wichita, KS 67202
Purchaser: Plains
Operator Contact Person: Jay G. Schwelkert
Phone: (316) 265-5611
Contractor: Name: Murfin Drilling
License: 30606
Wellsite Geologist: Tim Lauer

**KCC
NOV 17 2010
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Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW 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. _____

8-4-10	8-11-10	10-11-10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 051-26017 - 00-00
County: Ellis
E2 NW NW SW Sec. 31 Twp. 11 S. R. 17 East West
2310 feet from S N (circle one) Line of Section
430 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Marshall A Well #: 31
Field Name: Bemis-Shutts

Producing Formation: Lansing
Elevation: Ground: 2108' Kelly Bushing: 2113'
Total Depth: 3700' Plug Back Total Depth: 3635'
Amount of Surface Pipe Set and Cemented at 262 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2688 Feet
If Alternate II completion, cement circulated from 2688
feet depth to surface w/ 570 sx cmt.

Drilling Fluid Management Plan AK II NS 11-2310
(Data must be collected from the Reserve Pit)

Chloride content 42,400 ppm Fluid volume 655 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. Schwelkert
Title: Jay G. Schwelkert, Operations Engineer Date: 11-9-10

Subscribed and sworn to before me this 9th day of November

20 10
Notary Public: KATHY L. FORD
Notary Public - State of Kansas
My Appt. Expires: 10-22-14
Date Commission Expires: _____

KCC Office Use ONLY
 Letter of Confidentiality Received 11/17/10 - 11/17/12
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
RECEIVED
NOV 17 2010

KCC WICHITA

Operator Name: Lario Oil & Gas Company Lease Name: Marshall A Well #: 31
 Sec. 31 Twp. 11 S. R. 17 East West County: Ellis

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.

<p>Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i></p> <p>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i></p> <p>List All E. Logs Run: DIL/MEL/CDL/CNL/PE</p>	<p><input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample</p> <table border="0" style="width: 100%;"> <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>3276</td> <td>-1163</td> </tr> <tr> <td>Toronto</td> <td>3294</td> <td>-1181</td> </tr> <tr> <td>Lansing B</td> <td>3347</td> <td>-1234</td> </tr> <tr> <td>Muncie Creek</td> <td>3442</td> <td>-1329</td> </tr> <tr> <td>Stark Shale</td> <td>3509</td> <td>-1396</td> </tr> <tr> <td>Base KC</td> <td>3575</td> <td>-1462</td> </tr> <tr> <td>Arbuckle</td> <td>3601</td> <td>-1488</td> </tr> </table>	Name	Top	Datum	Heebner	3276	-1163	Toronto	3294	-1181	Lansing B	3347	-1234	Muncie Creek	3442	-1329	Stark Shale	3509	-1396	Base KC	3575	-1462	Arbuckle	3601	-1488
Name	Top	Datum																							
Heebner	3276	-1163																							
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Lansing B	3347	-1234																							
Muncie Creek	3442	-1329																							
Stark Shale	3509	-1396																							
Base KC	3575	-1462																							
Arbuckle	3601	-1488																							

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#	262'	Common	165	3% CC, 2% gel
production		5 1/2"	14#	3695'	Common	165	2% gel, 10# salt
DV tool				2688'	Lite	570	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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	3650'-3652'	250 gal 15% MCA & 950 gal 15% NEFE	3410'-3416'
4	3410'-3416'		
4	3350'-3354'	250 gal 15% MCA	3350'-3354'

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 7/8"	3621'	3635'	

Date of First, Resumerd Production, SWD or Enhr.	Producing Method
10-14-10	<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	31	0	1,008		

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

KCC
NOV 17 2010
CONFIDENTIAL

INVOICE

Invoice Number: 123965
Invoice Date: Aug 11, 2010
Page: 1

Bill To:
Lario Oil & Gas Co.
P.O. Box 784
Harp. Ks 67601

Federal Tax I.D.#:

RECEIVED

NOV 17 2010

KCC WICHITA

David Jensen 8-19-10

ACE: 10-202

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Lario	Marshall A #31 / <i>DRILLING</i>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Aug 11, 2010	9/10/10

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	13.50	2,227.50
3.00	MAT	Gel	20.25	60.75
7.00	MAT	Saqt	21.25	148.75
570.00	MAT	Lightweight Class A	11.85	6,754.50
142.00	MAT	Flo Seal	2.45	347.90
500.00	MAT	WFR-2	1.10	550.00
367.00	SER	Handling	2.25	825.75
20.00	SER	Mileage 367 sx @ .10 per sk per mi	36.70	734.00
1.00	SER	Production String	1,957.00	1,957.00
20.00	SER	Pump Truck Mileage	7.00	140.00
1.00	EQP	5.5 D V Tool	4,380.00	4,380.00
1.00	EQP	5.5 Basket	161.00	161.00
9.00	EQP	5.5 Centralizer	35.00	315.00
1.00	EQP	5.5 AFU Float Shoe	515.00	515.00
1.00	EQP	5.5 Latch Down	164.00	164.00

Acct. No.	Expt.	FILE
GC		
KG		
HY		
PV		
OD		

xe
AUG 23 2010

Subtotal	19,281.15
Sales Tax	984.34
Total Invoice Amount	20,265.49
Payment/Credit Applied	
TOTAL	20,265.49

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

\$ *4820.29*

ONLY IF PAID ON OR BEFORE
Sep 5, 2010

ALLIED CEMENTING CO., LLC. 035106

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

KCC
NOV 17 2010
CONFIDENTIAL

SERVICE POINT:
OAKLEY

DATE <u>9-4-10</u>	SEC <u>31</u>	TWP <u>11S</u>	RANGE <u>17W</u>	CALLED OUT	ON LOCATION <u>2:30 PM</u>	JOB START <u>7:45 PM</u>	JOB FINISH <u>8:15 PM</u>
LEASE <u>MARSHALL 'A'</u>		WELL # <u>31</u>		LOCATION <u>HAYS 6N-3E-3N-N+E</u>		COUNTY <u>ELIAS</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>INTO</u>			

CONTRACTOR MURFEN DRUG REA* 16

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 265'

CASING SIZE 8 5/8" DEPTH 262.47'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 15 3/4 BBLs

OWNER SAME

CEMENT AMOUNT ORDERED
165 SKS COM 3% CL 2% GEL

COMMON	<u>165 SKS</u>	@	<u>13.50</u>	<u>2227.50</u>
POZMIX		@		
GEL	<u>3 SKS</u>	@	<u>20.00</u>	<u>60.00</u>
CHLORIDE	<u>6 SKS</u>	@	<u>51.50</u>	<u>309.00</u>
ASC		@		
RECEIVED				
NOV 17 2010				
KCC WICHITA				
HANDLING	<u>17 1/2 SKS</u>	@	<u>2.25</u>	<u>391.25</u>
MILEAGE	<u>MEMORANDUM CHARGE</u>			<u>300.00</u>
				TOTAL <u>3288.75</u>

EQUIPMENT

PUMP TRUCK # 431 CEMENTER TERRY
HELPER KELLY

BULK TRUCK # 473 DRIVER RON

BULK TRUCK # _____ DRIVER _____

REMARKS:

Cement deal OK.

THANK YOU

CHARGE TO: LARID OIL & GAS

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 262.47'

PUMP TRUCK CHARGE 991.25

EXTRA FOOTAGE _____ @ _____

MILEAGE 15 mi @ 7.00 105.00

MANIFOLD _____ @ _____

TOTAL 1096.25

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.

PRINTED NAME AFD

SIGNATURE Azy [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES [Signature]

DISCOUNT [Signature] IF PAID IN 30 DAYS



PO BOX 31 Russell, KS 67665

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

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Jim Dillig
8-7-10

INVOICE

Invoice Number: 123864
Invoice Date: Aug 4, 2010
Page: 1

Bill To:

Lario Oil & Gas Co.
P.O. Box 784
Hays, KS 67601

Marshall A #31
(Surface casing)
AFE # 10-202

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Lario	Marshall A #31	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Oakley	Aug 4, 2010	9/3/10

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	13.50	2,227.50
3.00	MAT	Gel	20.25	60.75
6.00	MAT	Chloride	51.50	309.00
174.00	SER	Handling	2.25	391.50
1.00	SER	Handling Mileage Charge	300.00	300.00
1.00	SER	Surface	991.00	991.00
15.00	SER	Pump Truck Mileage	7.00	105.00

RECEIVED
NOV 17 2010
KCC WICHITA

all

GC	KB	HY	PV	OD

AUG 10 2010

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

\$ 1096.19

ONLY IF PAID ON OR BEFORE
Aug 29, 2010

Subtotal	4,384.75
Sales Tax	163.63
Total Invoice Amount	4,548.38
Payment/Credit Applied	
TOTAL	4,548.38

ALLIED CEMENTING CO., LLC. 041889

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

KCC
NOV 17 2010

SERVICE POINT:

Russell

CONFIDENTIAL

DATE <u>8-11-10</u>	SEC. <u>31</u>	TWP. <u>11 S</u>	RANGE <u>17 W</u>	CALLED OUT	ON LOCATION <u>Top</u>	JOB START <u>9:50 AM</u>	JOB FINISH <u>10:30 AM</u>
LEASE <u>Marshall</u>	WELL # <u>A #31</u>	LOCATION <u>Hays + 2-70 N to River Rd</u>		COUNTY <u>Ellis</u>	STATE <u>KS</u>	RECEIVED	
OLD OR <u>NEW</u> (Circle one)		E to Horse theft Canceled 2 1/2 S Eats					

NOV 17 2010

CONTRACTOR Munton Drilling Co #16
 TYPE OF JOB Production String
 HOLE SIZE 7 7/8 T.D. 3700'
 CASING SIZE 5 1/2 14" 155' DEPTH 3700'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL DV Tool DEPTH 2688'
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 19, 15'
 CEMENT LEFT IN CSG. 19, 15'
 PERFS. _____
 DISPLACEMENT 89, 82 @ Bottom
 EQUIPMENT 65, 59 Top.

OWNER KCC WICHITA
 CEMENT
 AMOUNT ORDERED Bottom 165 Cor 101.561 + 286, Top 570 Lite 7 7/8 Fl.
500 Gal WFR-2

PUMP TRUCK CEMENTER Shane
 # 417 HELPER Heath
 BULK TRUCK
 # 481 DRIVER Richard Tws
 BULK TRUCK
 # 473-187 DRIVER Dill Tws John F.
344- Roger

COMMON	<u>165</u>	@	<u>13.50</u>	<u>2227.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>20.25</u>	<u>60.75</u>
CHLORIDE		@		
ASC		@		
<u>Salt</u>	<u>7</u>	@	<u>21.25</u>	<u>148.75</u>
<u>Lite</u>	<u>570</u>	@	<u>11.85</u>	<u>6754.50</u>
<u>Fl. Seal</u>	<u>142</u>	@	<u>2.45</u>	<u>347.90</u>
<u>WFR-2</u>	<u>500</u>	@	<u>1.10</u>	<u>550.00</u>
		@		
		@		
		@		
HANDLING	<u>367</u>	@	<u>2.25</u>	<u>825.75</u>
MILEAGE	<u>110/sk/mile</u>			<u>734.00</u>
TOTAL				<u>11,649.15</u>

REMARKS:

Insert @ 3680.85
Mixed + Pumped 500 Gal WFR-2
Pumped 18 661 Spacer, Mixed 160 skt
@ 14,98 PPG. Shut down washed Pump
+ Lines Displaced 27661 H²⁰ 54661 Mud
8.5 661 H²⁰. Canded Plug @ 1200psi.
Effect Kelly. Operd DV Tool @ 900 psi.
Plugged Rat Hole. Mixed 540 skt to
Circulate Cement. Displaced 65,516 11 Closed
DV Tool. Released off hole.

CHARGE TO: Cario
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>1957.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>20</u>	@	<u>7.00</u>	<u>140.00</u>
MANIFOLD		@		
		@		
TOTAL				<u>2,097.00</u>

Thanks!

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 DAVID L. JENSEN
 SIGNATURE David Jensen

PLUG & FLOAT EQUIPMENT

<u>(R) DV Tool</u>	@	<u>4380.00</u>
<u>1- Basket</u>	@	<u>161.00</u>
<u>9- Centralizers</u>	@	<u>35.00</u>
<u>(R) AFU- Float Shoe</u>	@	<u>515.00</u>
<u>Latch down</u>	@	<u>164.00</u>
TOTAL <u>5535.00</u>		

SALES TAX (if Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS



TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario
301 S. Market St.
Wichita, Ks
67202
ATTN: Tim Lauer

Marshall A #31
31-11-17/Ellis
Job Ticket: 39541 **DST#: 4**
Test Start: 2010.08.10 @ 03:29:42

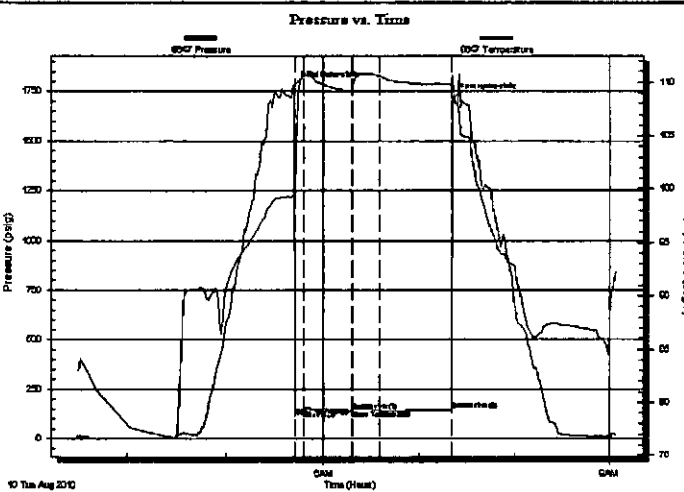
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GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: **05:42:42**
Time Test Ended: **09:04:12**
Interval: **3608.00 ft (KB) To 3618.00 ft (KB) (TVD)**
Total Depth: **3618.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor**
Test Type: **Conventional Bottom Hole**
Tester: **Dustin Rash**
Unit No: **41**
Reference Elevations: **2113.00 ft (KB)**
2108.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8647 **Inside**
Press@RunDepth: **144.39 psig @ 3615.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.10** End Date: **2010.08.10** Last Calib.: **2010.08.10**
Start Time: **03:29:47** End Time: **09:04:11** Time On Btrn: **2010.08.10 @ 05:42:12**
Time Off Btrn: 2010.08.10 @ 07:21:42

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes.
IS-No Return.
FF-Steady building blow . Built to 8 inches.
FSI-No Return.

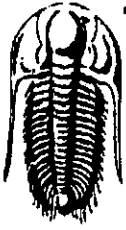


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1778.87	99.40	Initial Hydro-static
1	116.31	98.96	Open To Flow (1)
6	143.82	110.59	Shut-In(1)
36	140.08	109.16	End Shut-In(1)
36	142.49	109.52	Open To Flow (2)
53	144.39	110.60	Shut-In(2)
99	143.74	109.77	End Shut-In(2)
100	1717.44	109.02	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	95%Water/5%Mud	1.15
120.00	90%Water/10%Mud	1.68
40.00	75%Water/25%Mud	0.56

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

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario
301 S. Market St.
Wichita, Ks
67202
ATTN: Tim Lauer

Marshall A #31
31-11-17/Ellis
Job Ticket: 39541 **DST#: 4**
Test Start: 2010.08.10 @ 03:29:42

Mud and Cushion Information

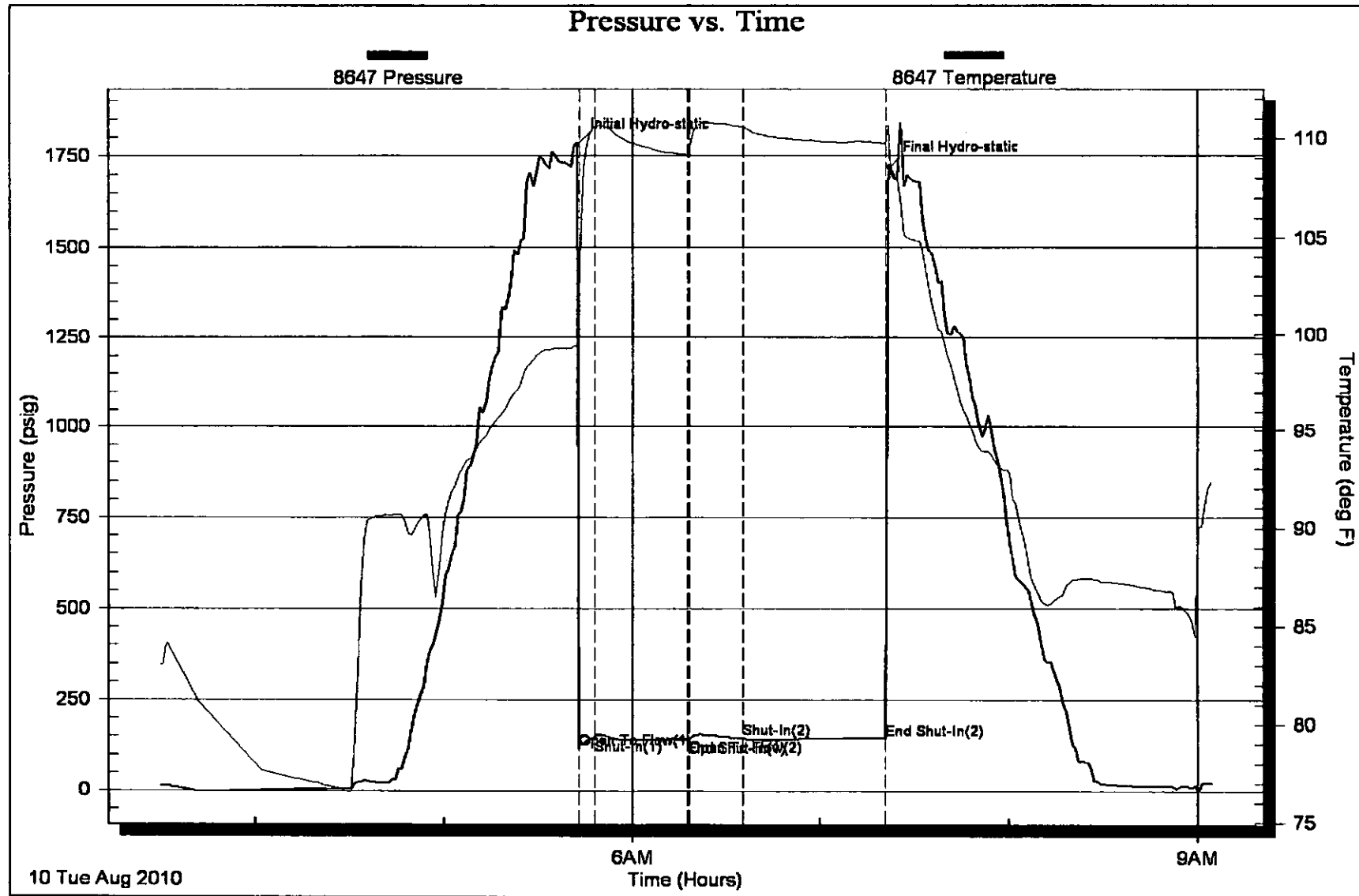
Mud Type: Gel Chem	Cushion Type:	Oil Apt:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	23000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

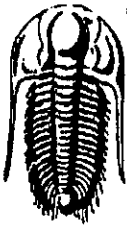
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	95%Water/5%Mud	1.146
120.00	90%Water/10%Mud	1.683
40.00	75%Water/25%Mud	0.561

Total Length: 280.00 ft Total Volume: 3.390 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario
301 S. Market St.
Wichita, Ks
67202
ATTN: Tim Lauer

Marshall A #31
31-11-17/Ellis
Job Ticket: 39540 **DST#: 3**
Test Start: 2010.08.09 @ 16:01:45

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NOV 17 2010
CONFIDENTIAL

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 17:47:15
Time Test Ended: 22:42:15

Test Type: **Conventional Bottom Hole**
Tester: **Dustin Rash**
Unit No: **41**

Interval: **3571.00 ft (KB) To 3608.00 ft (KB) (TVD)**
Total Depth: **3608.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **2113.00 ft (KB)**
2108.00 ft (CF)
KB to GR/CF: **5.00 ft**

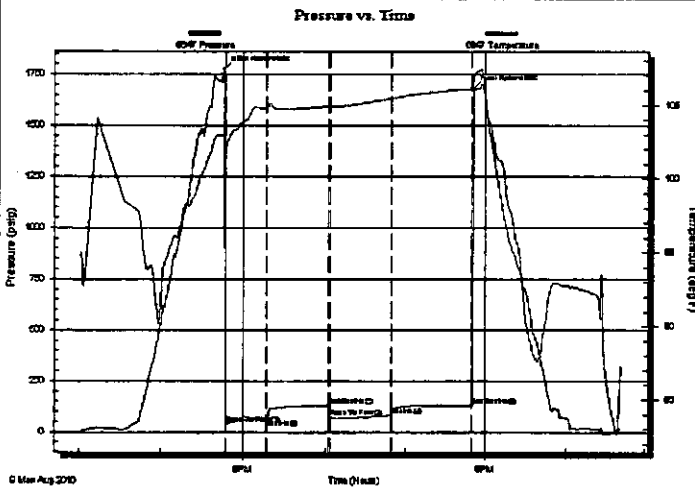
Serial #: 8647

Inside

Press@RunDepth: **81.47 psig @ 3580.00 ft (KB)**
Start Date: **2010.08.09** End Date: **2010.08.09**
Start Time: **16:01:50** End Time: **22:42:14**

Capacity: **8000.00 psig**
Last Calib.: **2010.08.09**
Time On Btm: **2010.08.09 @ 17:45:45**
Time Off Btm: **2010.08.09 @ 20:51:15**

TEST COMMENT: IF-Steady building blow. Built to 8 inches.
ISI-No Return.
FF-Steady building blow after 4 minutes. Built to 7 inches.
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.17	102.97	Initial Hydro-static
2	41.52	102.02	Open To Flow (1)
31	61.46	104.78	Shut-In(1)
77	127.99	104.90	End Shut-In(1)
78	73.82	104.89	Open To Flow (2)
124	81.47	105.41	Shut-In(2)
184	129.13	106.10	End Shut-In(2)
186	1679.28	106.94	Final Hydro-static

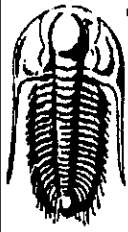
Recovery

Length (ft)	Description	Volume (bbl)
30.00	50%Mud/40%Oil/10%Gas	0.15
30.00	70%Oil/20%Mud/10%Gas	0.16
60.00	50%Oil/40%Mud/10%Gas	0.84
40.00	75%Oil/25%Gas	0.56

Gas Rates

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

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Lario
301 S. Market St.
Wichita, Ks
67202
ATTN: Tim Lauer

Marshall A #31
31-11-17/Ellis
Job Ticket: 39540 **DST#: 3**
Test Start: 2010.08.09 @ 16:01:45

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	50%Mud/40%Oil/10%Gas	0.148
30.00	70%Oil/20%Mud/10%Gas	0.157
60.00	50%Oil/40%Mud/10%Gas	0.842
40.00	75%Oil/25%Gas	0.561

Total Length: 160.00 ft Total Volume: 1.708 bbl

Num Fluid Samples: 0

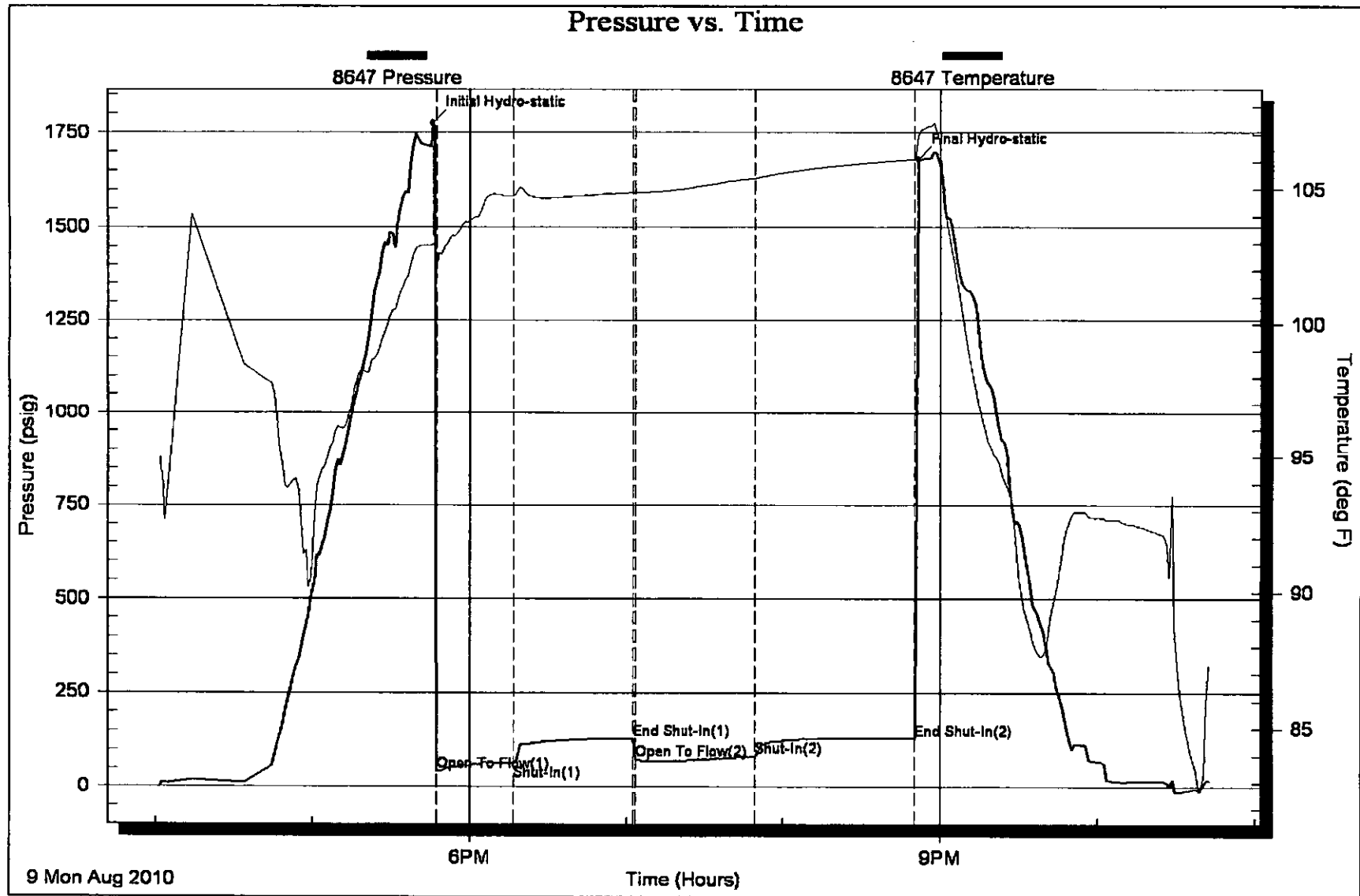
Num Gas Bombs: 0

Serial #:

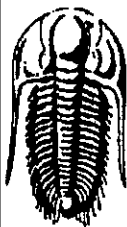
Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

Lario
301 S. Market St.
Wichita, Ks
67202
ATTN: Tim Lauer

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Marshall A #31
31-11-17/Ellis
Job Ticket: 39539 **DST#: 2**
Test Start: 2010.08.09 @ 00:40:29

GENERAL INFORMATION:

Formation: **Lansing H-K**
Deviated: **No Whipstock** ft (KB) Test Type: **Conventional Bottom Hole**
Time Tool Opened: **02:01:59** Tester: **Dustin Rash**
Time Test Ended: **06:57:59** Unit No: **41**
Interval: **3439.00 ft (KB) To 3540.00 ft (KB) (TVD)** Reference Elevations: **2113.00 ft (KB)**
Total Depth: **3540.00 ft (KB) (TVD)** **2108.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor** KB to GR/CF: **5.00 ft**

Serial #: 8371 **Outside**
Press@RunDepth: **57.52 psig @ 3448.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.09** End Date: **2010.08.09** Last Calib.: **2010.08.09**
Start Time: **00:40:34** End Time: **06:57:58** Time On Btm: **2010.08.09 @ 01:58:59**
Time Off Btm: **2010.08.09 @ 05:18:29**

TEST COMMENT: IF-Steady surface blow.
ISI-No Return.
FF-No Blow.
FSI-No Return.

PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.76	104.46	Initial Hydro-static
3	50.83	103.99	Open To Flow (1)
35	55.34	104.13	Shut-In(1)
98	94.12	104.87	End Shut-In(1)
99	54.57	104.85	Open To Flow (2)
135	57.52	105.22	Shut-In(2)
198	87.05	105.78	End Shut-In(2)
200	1683.89	106.27	Final Hydro-static

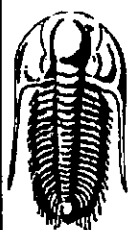
Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%Mud	0.05

Gas Rates

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

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DRILL STEM TEST REPORT

FLUID SUMMARY

Lario	Marshall A #31
301 S. Market St.	31-11-17/Ellis
Wichita, Ks	Job Ticket: 39539 DST#: 2
67202	Test Start: 2010.08.09 @ 00:40:29
ATTN: Tim Lauer	

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

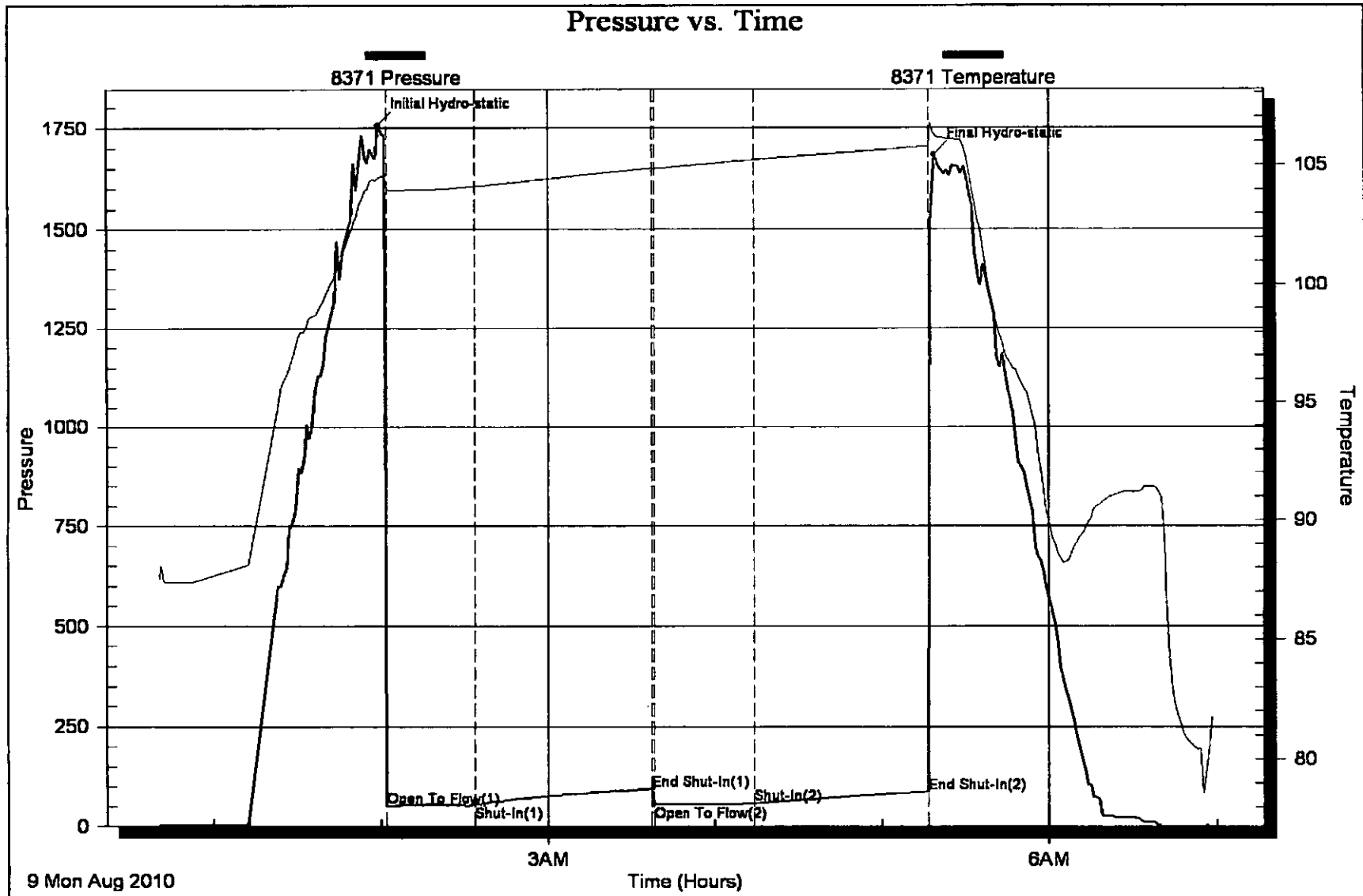
Length ft	Description	Volume bbl
10.00	100%Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

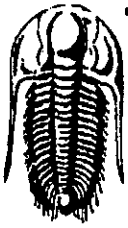
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

Lario
301 S. Market St.
Wichita, Ks
67202
ATTN: Tim Lauer

Marshall A #31
31-11-17/Ellis
Job Ticket: 39538 DST#: 1
Test Start: 2010.08.07 @ 23:53:31

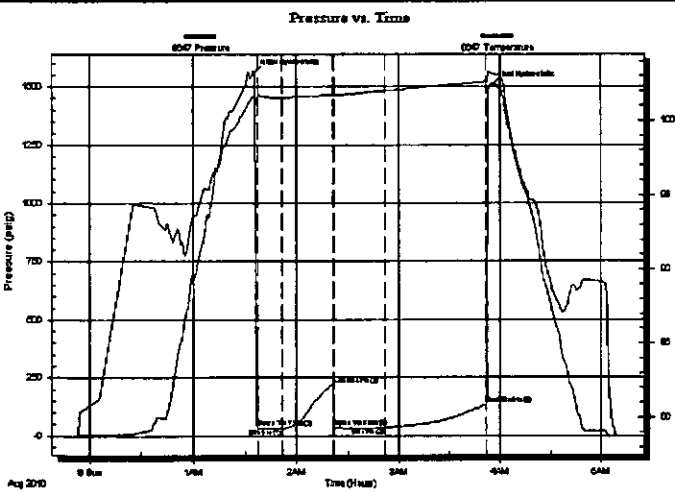
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GENERAL INFORMATION:

Formation: *LKC Toronto*
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:37:26
Time Test Ended: 05:09:55
Interval: 3272.00 ft (KB) To 3310.00 ft (KB) (TVD)
Total Depth: 3310.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 2113.00 ft (KB)
2108.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8647 **Inside**
Press@RunDepth: 34.69 psig @ 3275.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.08.07 End Date: 2010.08.08 Last Calib.: 2010.08.08
Start Time: 23:53:31 End Time: 05:09:55 Time On Btrn: 2010.08.08 @ 01:35:26
Time Off Btrn: 2010.08.08 @ 03:54:56

TEST COMMENT: IFP - stg sur blow throughout
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1558.39	101.58	Initial Hydro-static
2	34.19	101.74	Open To Flow (1)
16	30.10	101.55	Shut-In(1)
46	217.77	101.76	End Shut-In(1)
46	36.14	101.70	Open To Flow (2)
77	34.69	102.02	Shut-In(2)
136	131.70	102.60	End Shut-In(2)
140	1505.60	103.15	Final Hydro-static

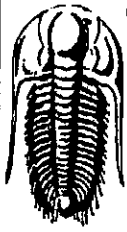
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%	0.02

Gas Rates

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

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DRILL STEM TEST REPORT

FLUID SUMMARY

Lario
301 S. Market St.
Wichita, Ks
67202
ATTN: Tim Lauer

Marshall A #31
31-11-17/Ellis
Job Ticket: 39538 **DST#: 1**
Test Start: 2010.08.07 @ 23:53:31

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%	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:

