



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1084037
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: _____

1084037

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Christy Family Farms 1-20
Doc ID	1084037

All Electric Logs Run

MAI/MFE
MPD/MDN
MSS
MML

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Christy Family Farms 1-20
Doc ID	1084037

Tops

Name	Top	Datum
Heebner	3688	-956
Lansing	3726	-994
Stark Shale	3975	-1243
Hushpuckney	4007	-1275
Base KC	4054	-1322
Marmaton	4118	-1386
Pawnee	4182	-1450
Ft. Scott	4214	-1482
Johnson	4310	-1578
Morrow	4345	-1613
Basal Penn	4382	-1650
Mississippian	4390	-1658

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

July 12, 2012

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

Re: ACO1
API 15-109-21087-00-00
Christy Family Farms 1-20
NE/4 Sec.20-14S-32W
Logan 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: 131437
Invoice Date: Jun 6, 2012
Page: 1

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



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

Christy Family Farms 1-20
AFE 12.073 Drilling
6-19-12 LK

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Lario	Family Farms#1-20	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 6, 2012	7/6/12

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
60.00	SER	Ton Miles	8.69	521.40
1.00	SER	Surface	1,125.00	1,125.00
60.00	SER	Heavy Vehicle Mileage	7.00	420.00
1.00	SER	Manifold Head Rental	200.00	200.00
60.00	SER	Light Vehicle Mileage	4.00	240.00
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	Adam Holcomb		
1.00	OPER ASSIST	Jeremy Sterger		

cal
HE
JUN 19 2012
ve

Subtotal	5,654.15
Sales Tax	203.83
Total Invoice Amount	5,857.98
Payment/Credit Applied	
TOTAL	5,857.98

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

\$ 1398.87

ONLY IF PAID ON OR BEFORE
Jul 1, 2012

ALLIED CEMENTING CO., LLC. 034496

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Oakley, KS

DATE 6-6-12 SEC. 20 TWP. 14 RANGE 32 CALLED OUT _____ ON LOCATION 11:00pm JOB START 3:30am JOB FINISH 4:30am
 LEASE Forms WELL # L-20 LOCATION Oakley, 17 S, 3 E, 25, 3 COUNTY Logan STATE KS
 OLD OR NEW (Circle one) NEW E of Spc 10

CONTRACTOR Murphy #2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4" T.D. 227'
 CASING SIZE 8 7/8" DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 13,49 gal
 EQUIPMENT _____
 PUMP TRUCK # 431 CEMENTER Lakone HELPER Dane
 BULK TRUCK # 347 DRIVER Adam / Jeremy S.
 BULK TRUCK # _____ DRIVER _____

OWNER same
 CEMENT AMOUNT ORDERED 150sk cement 325cc
27 gal
 COMMON 150sk @ 16.25 2437.50
 POZMIX @ _____
 GEL .35lb @ 2625 63.75
 CHLORIDE 55lb @ 58.20 279.00
 ASC @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 HANDLING 198sk @ 2.25 355.50
 MILEAGE 119 sk/mile 521.40
 TOTAL 3669.15

REMARKS:
Mix 150 sk cement
Displace with water
Cement did circulate
Frank you

CHARGE TO: Lario Oil & Gas Co.
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB 227
 PUMP TRUCK CHARGE 1125.00
 EXTRA FOOTAGE @ _____
 MILEAGE 60 @ 2.00 120.00
 MANIFOLD head @ 200.00
200 mi loop 60 @ 4.00 240.00
 @ _____
 TOTAL 1785.00

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

PLUG & FLOAT EQUIPMENT
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____

PRINTED NAME Arno Caberos
 SIGNATURE Arno Caberos

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

Bid



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 131664
Invoice Date: Jun 17, 2012
Page: 1

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



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

Christy Family Farms
drilling AFE 12-073
7-2-12 LK

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Lario	-OttleyFamilyTr#1-20	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jun 17, 2012	7/17/12

Quantity	Item	Description	Unit Price	Amount
123.00	MAT	Class A Common	16.25	1,998.75
82.00	MAT	Pozmix	8.50	697.00
7.00	MAT	Gel	21.25	148.75
51.00	MAT	Flo Seal	2.70	137.70
220.16	SER	Handling	2.10	462.34
183.85	SER	Drayage	2.35	432.05
1.00	SER	Plug to Abandon	1,250.00	1,250.00
20.00	SER	Pump truck Mileage	7.00	140.00
20.00	SER	Light Vehicle Mileage	4.00	80.00
1.00	EQP	8.5/8 Dry Hole Plug	92.00	92.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	Ethan Glassman		

Subtotal	5,438.59
Sales Tax	397.02
Total Invoice Amount	5,835.61
Payment/Credit Applied	
TOTAL	5,835.61

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

\$ 1305.27

ONLY IF PAID ON OR BEFORE
Jul 12, 2012

ALLIED OIL & GAS SERVICES, LLC 056284

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Christy Family Farms 1-20

Oakley

DATE <u>6-17-12</u>	SEC. <u>20</u>	TWP. <u>14</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 AM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Christy Family</u>			WELL# <u>1-20</u>		LOCATION <u>Oakley 12.5 3w 25</u>		COUNTY <u>Logan</u>
STATE <u>Ks</u>			LOCATION <u>1/2 E S14 T20 R32</u>		STATE <u>Ks</u>		
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Murphy 2

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4360'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2200'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER same

CEMENT AMOUNT ORDERED 205 sks 4960

48 gals. 14 Flo-seal

COMMON <u>123 sks</u>	@ <u>16.25</u>	<u>1998.25</u>
POZMIX <u>82 sks</u>	@ <u>8.50</u>	<u>697.00</u>
GEL <u>7 sks</u>	@ <u>21.25</u>	<u>148.25</u>
CHLORIDE _____	@ _____	_____
ASC _____	@ _____	_____
<u>Flo-seal 51 1/2</u>	@ <u>2.20</u>	<u>137.20</u>
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING <u>220.163 gals</u>	@ <u>2.10</u>	<u>462.34</u>
MILEAGE <u>2.35 miles</u>	@ <u>180.00</u>	<u>423.00</u>
		TOTAL <u>3876.61</u>

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Fornlund

423-281 HELPER Dane Retzlaff

BULK TRUCK

342 DRIVER Ethan Grossman

BULK TRUCK

_____ DRIVER _____

REMARKS:

25 sks @ 2200'

100 sks @ 1150'

40 sks @ 225'

10 sks @ 40'

30 sks Ref hole

Thank you

CHARGE TO: Lario Oil & Gas

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 2200'

PUMP TRUCK CHARGE _____ 1850.00

EXTRA FOOTAGE @ _____

MILEAGE 20 miles @ 7.00 140.00

MANIFOLD @ _____

Light vehicle @ 4.00 80.00

_____ @ _____

TOTAL 1470.00

PLUG & FLOAT EQUIPMENT

85%

1 Dry hole plug @ _____ 92.00

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL 92.00

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

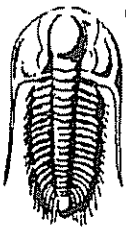
SALES TAX (If Any) _____

TOTAL CHARGES 5,438.61

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Arnica Cabezas

SIGNATURE Arnica Cabezas



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48303

DST#: 1

ATTN: Max Armstrong

Test Start: 2012.06.10 @ 06:40:00

GENERAL INFORMATION:

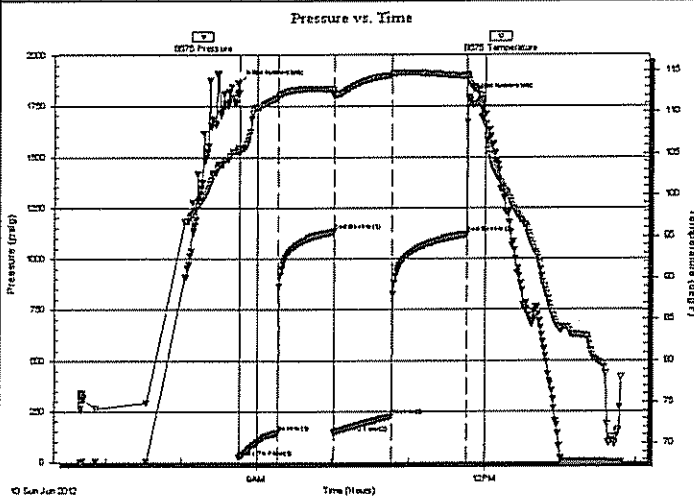
Formation: **Lansing "B"**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 08:45:30
 Time Test Ended: 13:48:15
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jace McKinney
 Unit No: 46
 Interval: **3756.00 ft (KB) To 3788.00 ft (KB) (TVD)**
 Total Depth: **3788.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Reference Elevations: **2732.00 ft (KB)**
2721.00 ft (CF)
 KB to GR/CF: **11.00 ft**

Serial #: 8675

Inside

Press@RunDepth: 226.91 psig @ 3757.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.10 End Date: 2012.06.10 Last Calib.: 2012.06.10
 Start Time: 06:40:01 End Time: 13:48:15 Time On Blmt: 2012.06.10 @ 08:44:30
 Time Off Blmt: 2012.06.10 @ 11:47:00

TEST COMMENT: B.O.B. in 22 min.
 Bled off for 5 min. No return blow
 B.O.B. in 24 min.
 Bled off for 5 min. No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1860.66	105.41	Initial Hydro-static
1	20.86	105.03	Open To Flow (1)
32	144.11	111.67	Shut-In(1)
77	1131.88	112.66	End Shut-In(1)
77	143.25	111.96	Open To Flow (2)
122	226.91	114.42	Shut-In(2)
182	1119.45	114.30	End Shut-In(2)
183	1791.37	114.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
236.00	100% Water	1.16
229.00	mcw 40%M60%W	3.21

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48303

DST#: 1

ATTN: Max Armstrong

Test Start: 2012.06.10 @ 06:40:00

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:

65000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
236.00	100% Water	1.161
229.00	mcw 40%M 60%W	3.208

Total Length: 465.00 ft Total Volume: 4.369 bbf

Num Fluid Samples: 0

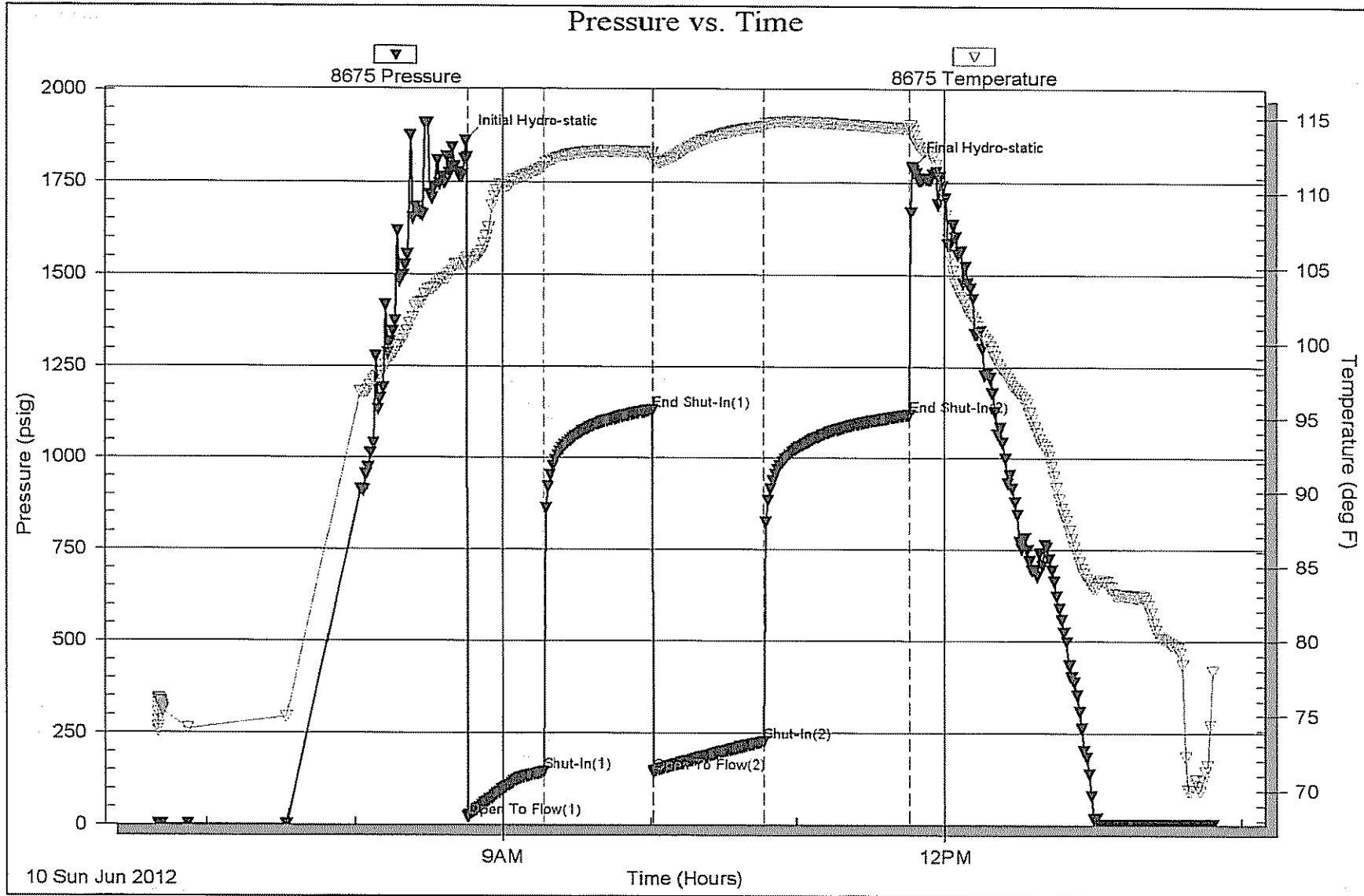
Num Gas Bombs: 0

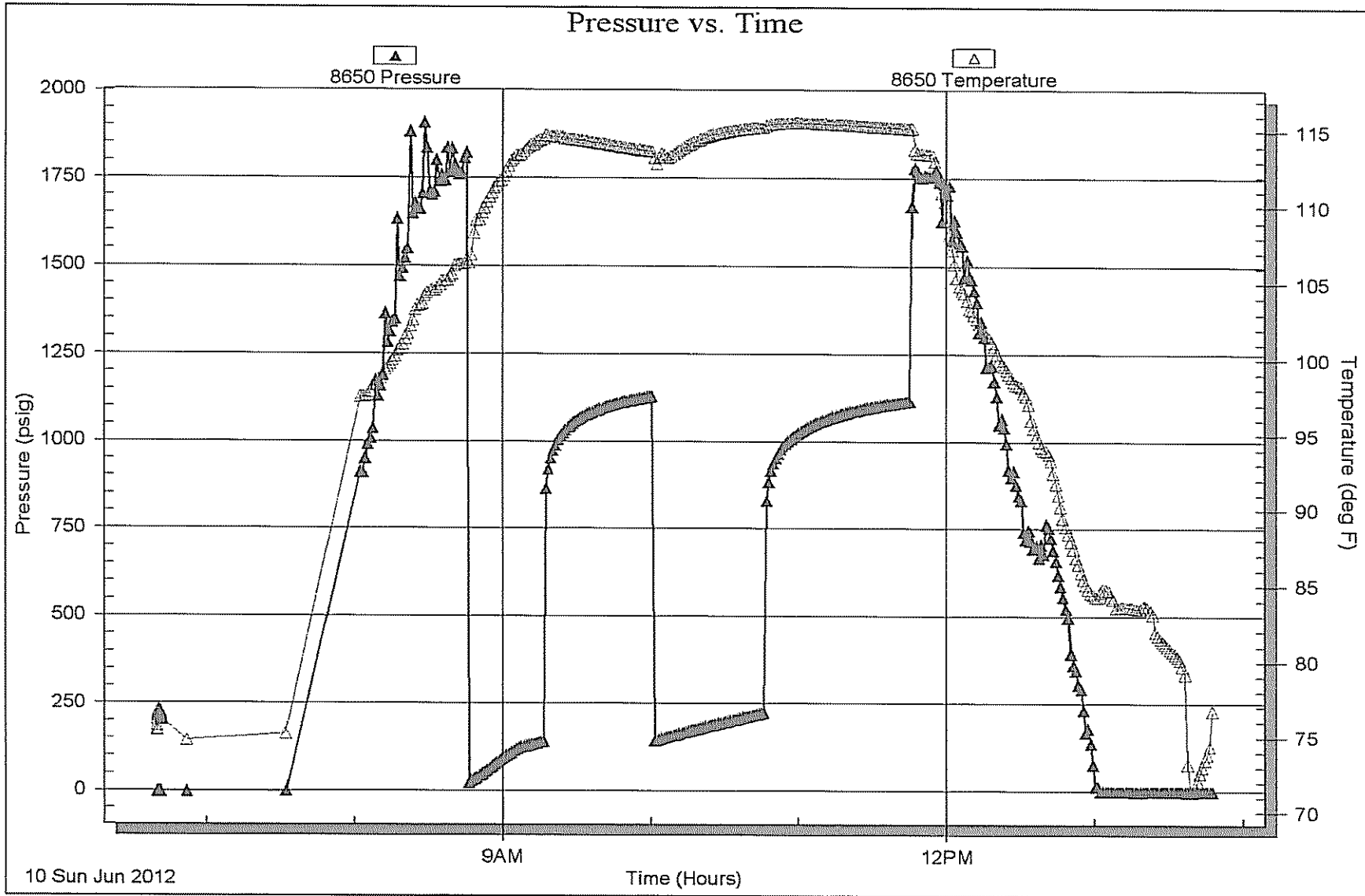
Serial #:

Laboratory Name:

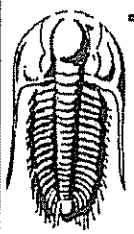
Laboratory Location:

Recovery Comments: RW: .10 @ 80 F = 65,000





chgs on 6/11 Report



TRIBOLITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Company
 301 S Market ST
 Wichita KS 67202-3805
 ATTN: Max Armstrong

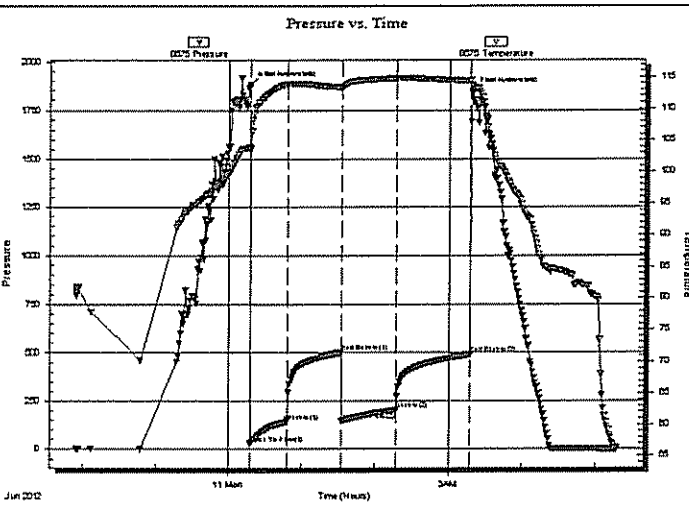
20-14s-32w
Christy Farms 1-20
 Job Ticket: 48304 DST#: 2
 Test Start: 2012.06.10 @ 21:55:00

GENERAL INFORMATION:

Formation: **Lansing "C & D"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: **00:18:00**
 Time Test Ended: **05:17:15**
 Interval: **3800.00 ft (KB) To 3827.00 ft (KB) (TVD)**
 Total Depth: **3827.00 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: **2732.00 ft (KB)**
 2721.00 ft (CF)
 KB to GRVCF: **11.00 ft**

Serial #: 8675 **Inside**
 Press@RunDepth: **204.38 psig @ 3801.00 ft (KB)**
 Start Date: **2012.06.10** End Date: **2012.06.11**
 Start Time: **21:55:01** End Time: **05:17:15**
 Capacity: **8000.00 psig**
 Last Calib.: **2012.06.11**
 Time On Btm: **2012.06.11 @ 00:17:45**
 Time Off Btm: **2012.06.11 @ 03:19:00**

TEST COMMENT: B.O.B. in 18 min.
 Bled off for 5 min. Weak surface return blow
 B.O.B. in 27 min.
 Bled off for 5 min. Weak surface return blow

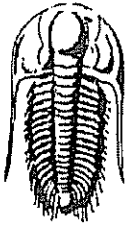


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1881.16	103.90	Initial Hydro-static
1	27.22	103.31	Open To Flow (1)
31	141.13	113.86	Shut-In(1)
75	499.82	113.35	End Shut-In(1)
76	145.93	113.16	Open To Flow (2)
120	204.38	114.76	Shut-In(2)
180	489.65	114.34	End Shut-In(2)
182	1845.20	113.73	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
402.00	water 100%	3.49
20.00	gco 5%G 95%O	0.28
0.00	83 Feet Gas In Pipe	0.00

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48304

DST#: 2

ATTN: Max Armstrong

Test Start: 2012.06.10 @ 21:55:00

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: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
402.00	water 100%	3.485
20.00	gco 5%G 95%O	0.281
0.00	83 Feet Gas In Pipe	0.000

Total Length: 422.00 ft Total Volume: 3.766 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

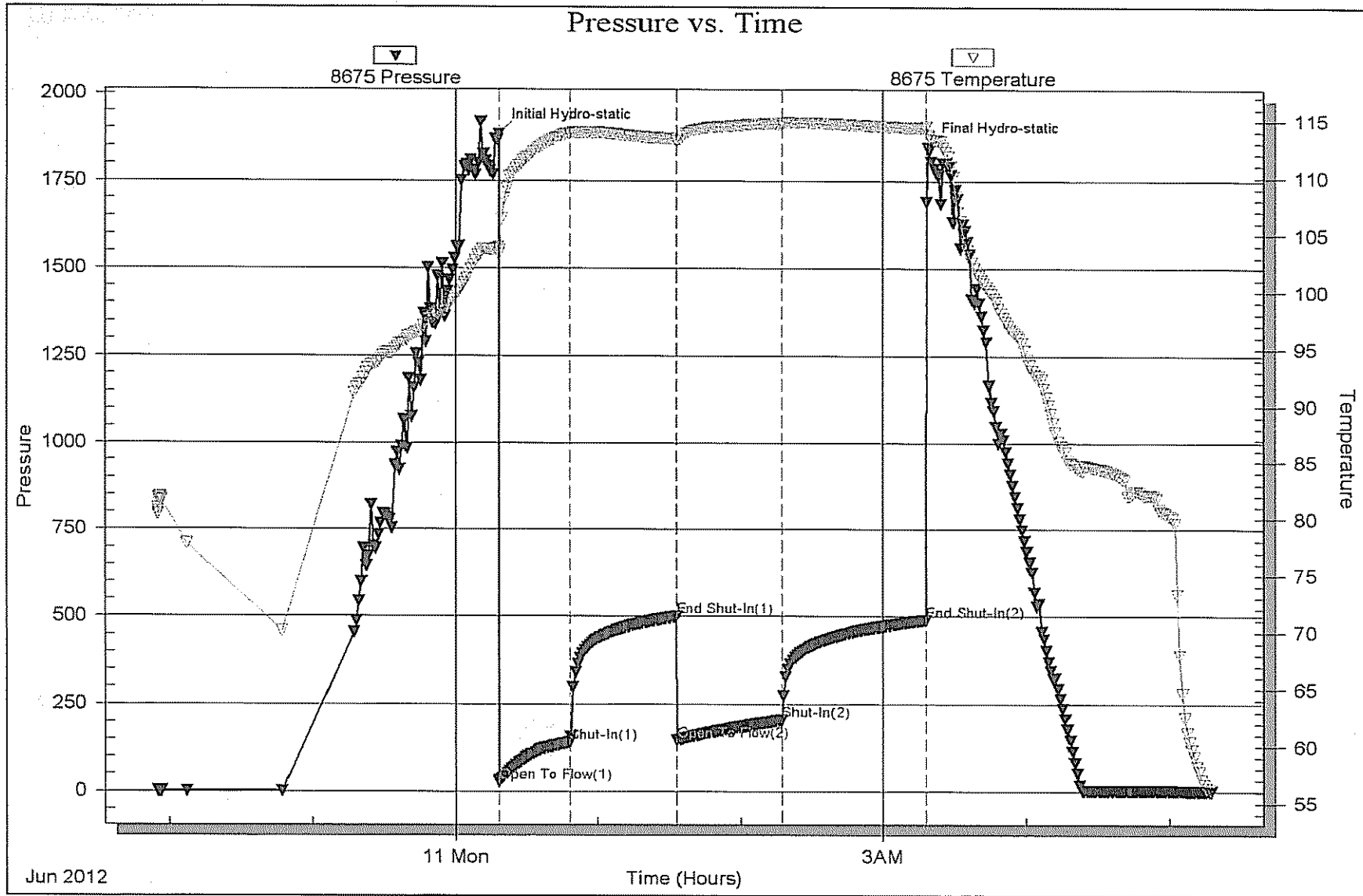
Serial #:

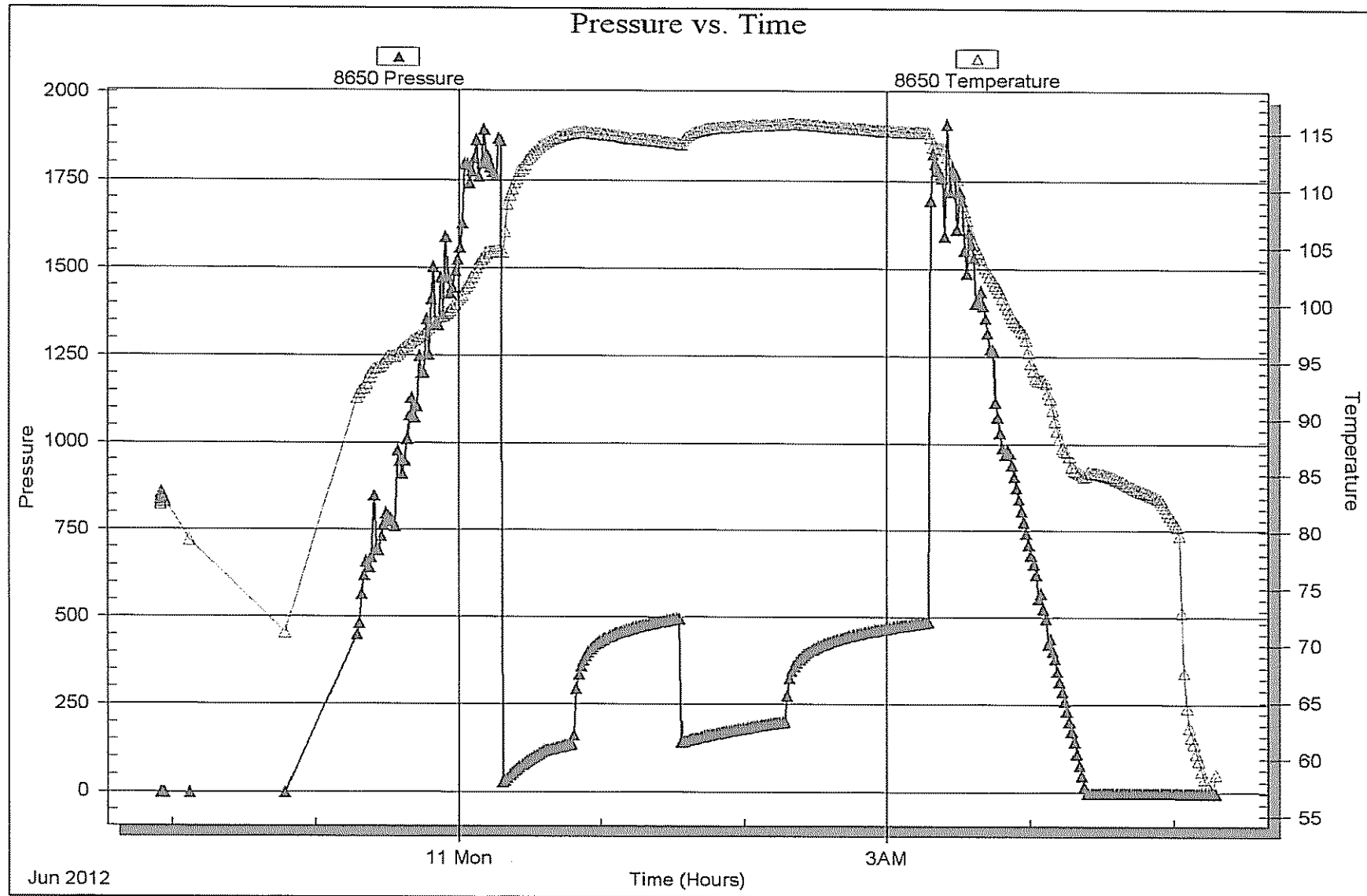
Laboratory Name:

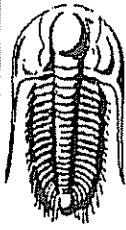
Laboratory Location:

Recovery Comments: API 32 @ 50 F= 33

RW .1 @ 50 F= 100,000







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48305

DST#: 3

ATTN: Max Armstrong

Test Start: 2012.06.11 @ 16:30:00

GENERAL INFORMATION:

Formation: **Lansing "H"**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 18:58:45

Time Test Ended: 00:13:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 3876.00 ft (KB) To 3924.00 ft (KB) (TVD)

Reference Elevations: 2732.00 ft (KB)

Total Depth: 3924.00 ft (KB) (TVD)

2721.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press@RunDepth: 332.44 psig @ 3877.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.11

End Date:

2012.06.12

Last Calib.:

2012.06.12

Start Time: 16:30:01

End Time:

00:13:30

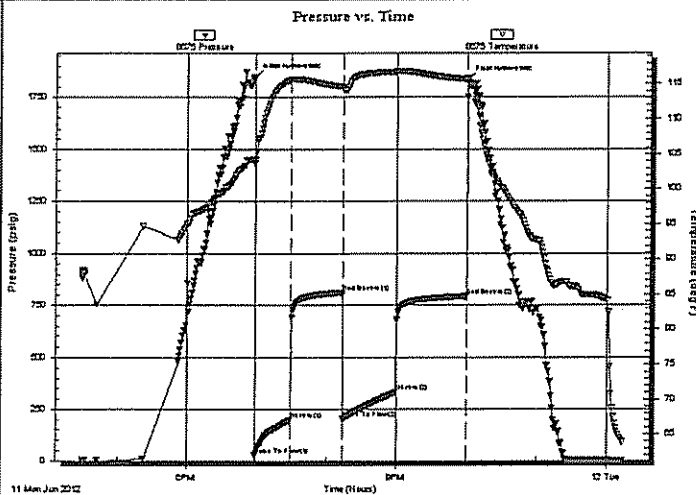
Time On Btm:

2012.06.11 @ 18:58:30

Time Off Btm:

2012.06.11 @ 22:00:45

TEST COMMENT: B.O.B. in 11 min.
Bled off for 5 min. No return blow
B.O.B. in 16 min.
Bled off for 5 min. No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1850.09	104.34	Initial Hydro-static
1	26.67	103.65	Open To Flow (1)
31	199.57	115.59	Shut-In(1)
76	810.77	114.57	End Shut-In(1)
76	202.14	114.28	Open To Flow (2)
121	332.44	116.72	Shut-In(2)
182	793.80	115.64	End Shut-In(2)
183	1835.42	115.30	Final Hydro-static

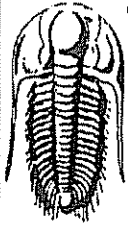
Recovery

Length (ft)	Description	Volume (bbl)
364.00	100% Water	2.95
250.00	w cm 45%W 55%M	3.51
1.00	Clean Oil	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48305

DST#: 3

ATTN: Max Armstrong

Test Start: 2012.06.11 @ 16:30:00

GENERAL INFORMATION:

Formation: **Lansing "H"**

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

Time Tool Opened: 18:58:45

Time Test Ended: 00:13:30

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

Tester: **Jace McKinney**

Unit No: **46**

Interval: **3876.00 ft (KB) To 3924.00 ft (KB) (TVD)**

Total Depth: **3924.00 ft (KB) (TVD)**

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

Reference Elevations: **2732.00 ft (KB)**

2721.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **8650** Outside

Press@RunDepth: **psig @ 3877.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.06.11**

End Date:

2012.06.12

Last Calib.:

2012.06.12

Start Time: **16:30:01**

End Time:

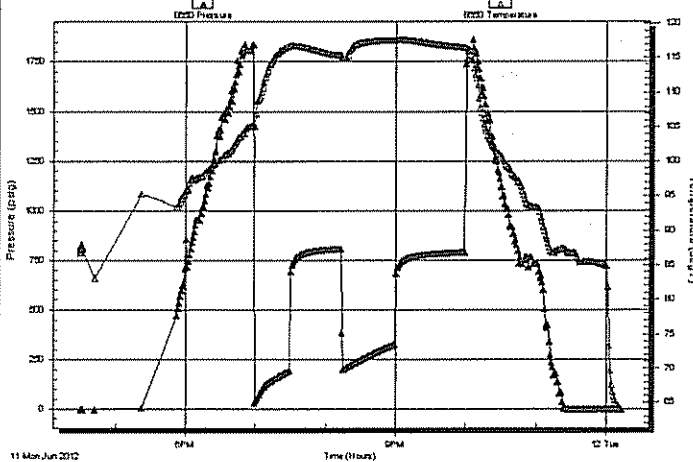
00:13:30

Time On Blm:

Time Off Blm:

TEST COMMENT: B.O.B. in 11 min.
Bled off for 5 min. No return blow
B.O.B. in 16 min.
Bled off for 5 min. No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

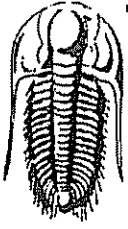
Recovery

Length (ft)	Description	Volume (bbl)
364.00	100% Water	2.95
250.00	w cm 45%W 55%M	3.51
1.00	Clean Oil	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48305

DST#: 3

ATTN: Max Armstrong

Test Start: 2012.06.11 @ 16:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 43.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
364.00	100% Water	2.952
250.00	w cm 45%W 55%M	3.507
1.00	Clean Oil	0.014

Total Length: 615.00 ft Total Volume: 6.473 bbl

Num Fluid Samples: 0

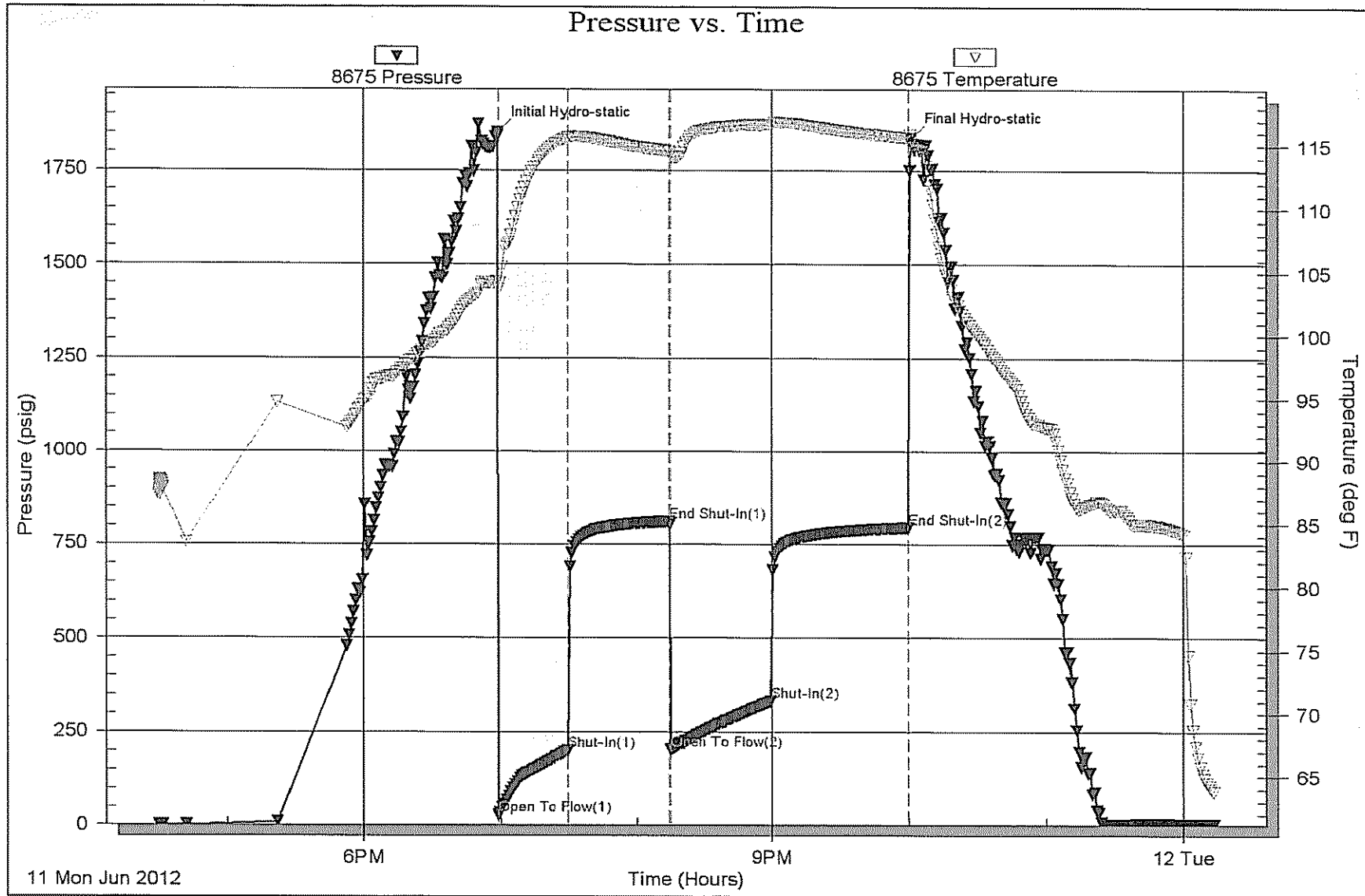
Num Gas Bombs: 0

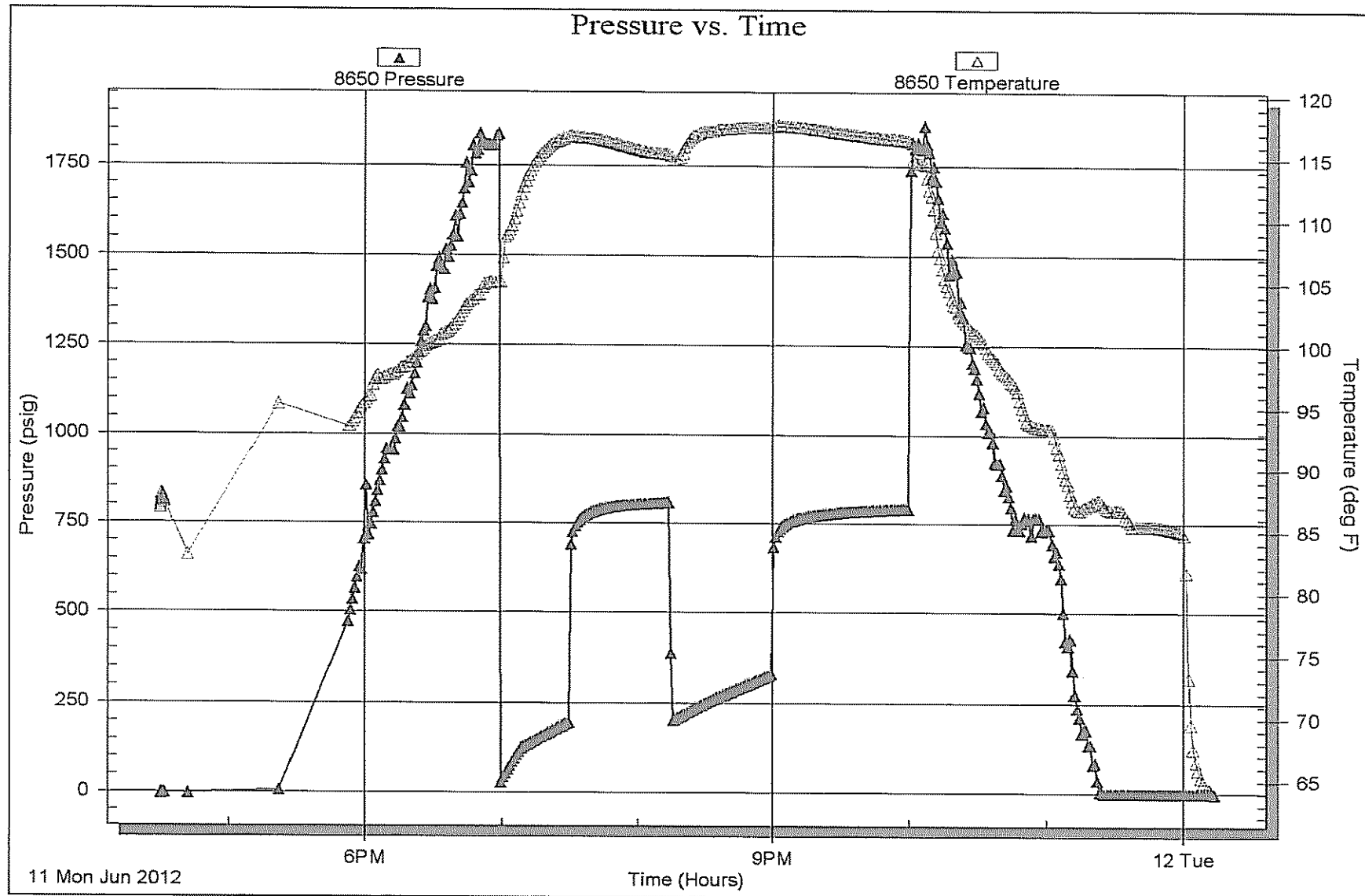
Serial #:

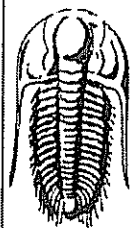
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15 @ 65 F= 50,000







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48306

DST#: 4

ATTN: Max Armstrong

Test Start: 2012.06.12 @ 07:00:00

GENERAL INFORMATION:

Formation: **Lansing "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:03:00

Time Test Ended: 14:09:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 3924.00 ft (KB) To 3950.00 ft (KB) (TVD)

Reference Elevations: 2732.00 ft (KB)

Total Depth: 3950.00 ft (KB) (TVD)

2721.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press@RunDepth: 683.98 psig @ 3925.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.12

End Date:

2012.06.12

Last Calib.: 2012.06.12

Start Time: 07:00:01

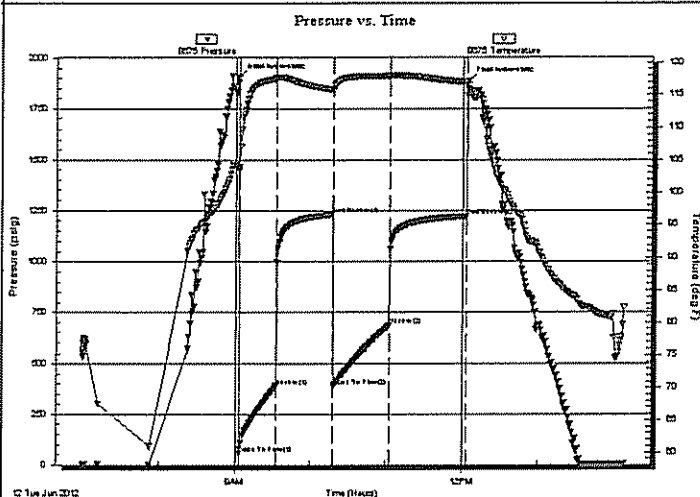
End Time:

14:09:00

Time On Blm: 2012.06.12 @ 09:02:45

Time Off Blm: 2012.06.12 @ 12:04:45

TEST COMMENT: B.O.B. in 4 min.
Bled off for 5 min. No return blow
B.O.B. in 5 min.
Bled off for 5 min. No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.88	103.94	Initial Hydro-static
1	55.39	103.36	Open To Flow (1)
30	388.68	117.51	Shut-In(1)
75	1228.75	115.81	End Shut-In(1)
76	384.98	115.51	Open To Flow (2)
120	683.98	117.94	Shut-In(2)
181	1221.11	116.93	End Shut-In(2)
182	1885.86	115.90	Final Hydro-static

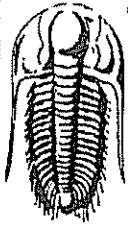
Recovery

Length (ft)	Description	Volume (bbl)
1070.00	100% Water	12.86
315.00	w cm 40% W 60%M	4.42

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48306

DST#: 4

ATTN: Max Armstrong

Test Start: 2012.06.12 @ 07:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 43.00 sec/qt
Water Loss: 7.98 in³
Resistivity: ohm.m
Salinity: 4800.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

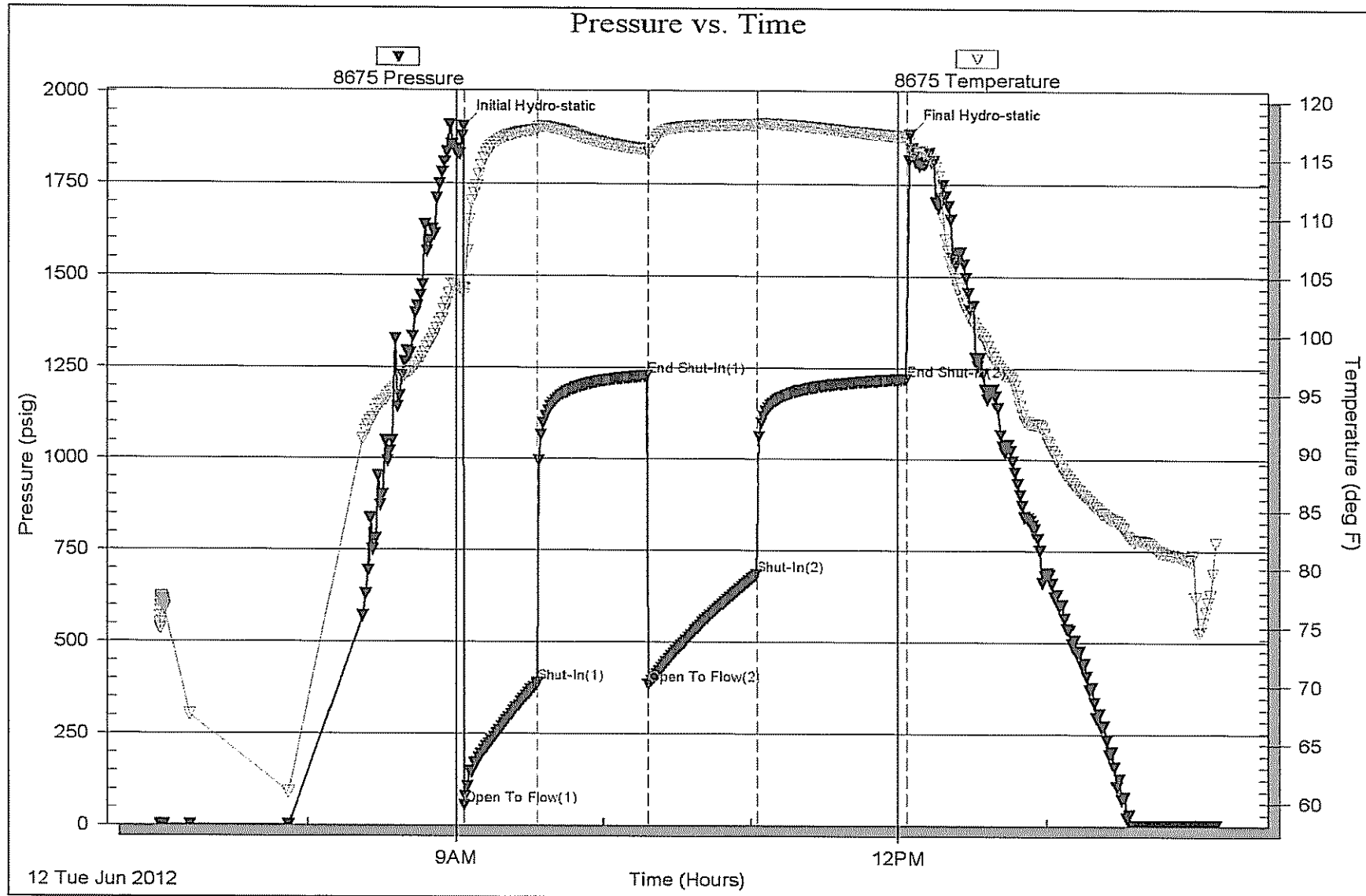
Length ft	Description	Volume bbl
1070.00	100% Water	12.856
315.00	w cm 40% W 60%M	4.419

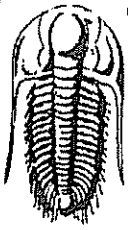
Total Length: 1385.00 ft Total Volume: 17.275 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .09 @ 85 F= 70,000





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48307

DST#: 5

ATTN: Max Armstrong

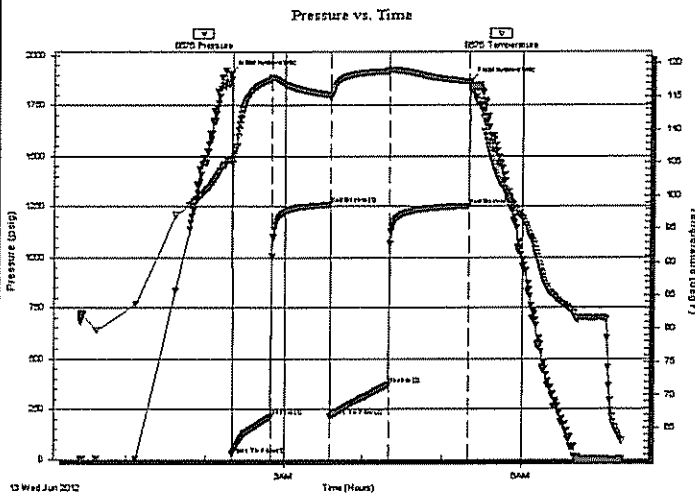
Test Start: 2012.06.13 @ 00:25:00

GENERAL INFORMATION:

Formation: **Lansing "K"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 02:20:15
 Time Test Ended: 07:16:30
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Jace McKinney**
 Unit No: **46**
 Interval: **3972.00 ft (KB) To 4006.00 ft (KB) (TVD)**
 Reference Elevations: **2732.00 ft (KB)**
4006.00 ft (KB) (TVD)
 Total Depth: **2721.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **11.00 ft**

Serial #: **8675** Inside
 Press@RunDepth: **370.88 psig @ 3973.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.06.13** End Date: **2012.06.13** Last Calib.: **2012.06.13**
 Start Time: **00:25:01** End Time: **07:16:30** Time On Btm: **2012.06.13 @ 02:18:30**
 Time Off Btm: **2012.06.13 @ 05:20:30**

TEST COMMENT: B.O.B in 10 1/2 min.
 Bled off for 5 min. No return blow
 B.O.B in 11 1/2 min.
 Bled off for 5 min. No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.80	105.40	Initial Hydro-static
2	24.31	104.85	Open To Flow (1)
32	212.22	117.51	Shut-in(1)
77	1259.56	115.18	End Shut-In(1)
77	214.03	114.73	Open To Flow (2)
122	370.88	118.79	Shut-In(2)
182	1252.84	117.19	End Shut-In(2)
182	1871.44	116.91	Final Hydro-static

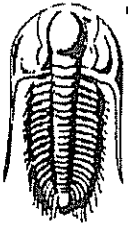
Recovery

Length (ft)	Description	Volume (bbl)
611.00	100% Water	6.42
189.00	mcw 50%M 50%W	2.65

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48307

DST#: 5

ATTN: Max Armstrong

Test Start: 2012.06.13 @ 00:25:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 63.00 sec/qt
Water Loss: 6.40 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

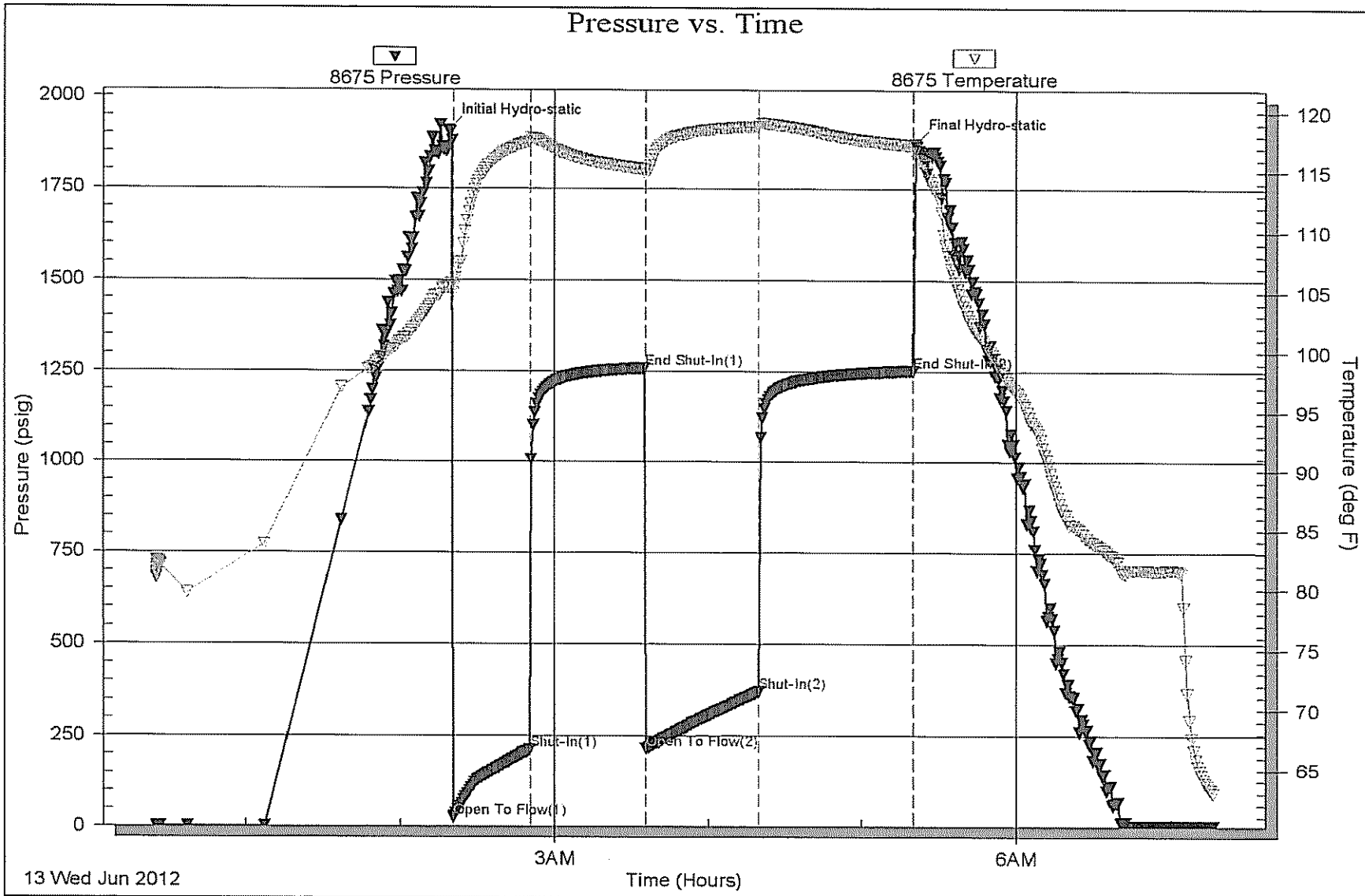
Length ft	Description	Volume bbl
611.00	100% Water	6.417
189.00	mcw 50%M 50%W	2.651

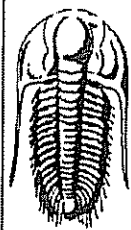
Total Length: 800.00 ft Total Volume: 9.068 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .20 @ 60 F= 40,000





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48308

DST#: 6

ATTN: Max Armstrong

Test Start: 2012.06.13 @ 14:20:00

GENERAL INFORMATION:

Formation: **Lansing "L"**

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

Time Tool Opened: 16:23:45

Time Test Ended: 20:43:45

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

Tester: **Jace McKinney**

Unit No: **46**

Interval: **4006.00 ft (KB) To 4030.00 ft (KB) (TVD)**

Total Depth: **4030.00 ft (KB) (TVD)**

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

Reference Elevations: **2732.00 ft (KB)**

2721.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **8675**

Inside

Press@RunDepth: **17.77 psig @ 4007.00 ft (KB)**

Start Date: **2012.06.13**

End Date:

2012.06.13

Start Time: **14:20:01**

End Time:

20:43:45

Capacity: **8000.00 psig**

Last Calib.: **2012.06.13**

Time On Blmt: **2012.06.13 @ 16:21:45**

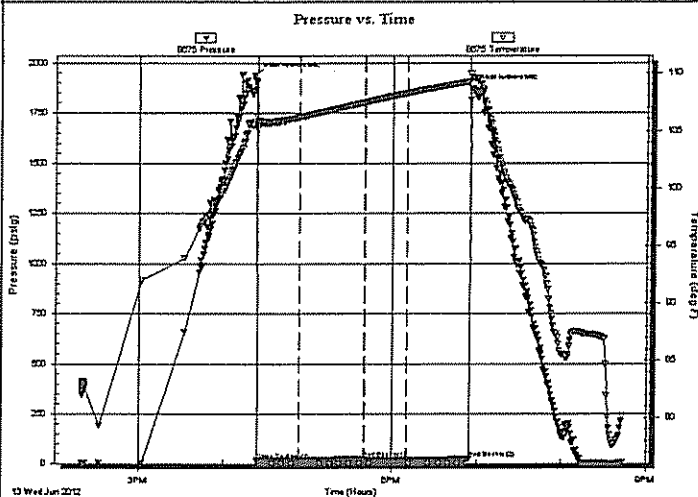
Time Off Blmt: **2012.06.13 @ 18:56:00**

TEST COMMENT: **Weak surface blow**

No return blow

No blow

No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.38	105.53	Initial Hydro-static
2	13.97	105.13	Open To Flow (1)
32	17.41	106.13	Shut-In(1)
78	21.26	107.43	End Shut-In(1)
79	17.36	107.44	Open To Flow (2)
109	17.77	108.24	Shut-In(2)
153	20.62	109.27	End Shut-In(2)
155	1874.24	109.67	Final Hydro-static

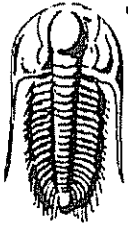
Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48308

DST#: 6

ATTN: Max Armstrong

Test Start: 2012.06.13 @ 14:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 5.60 in³
Resistivity: ohm.m
Salinity: 4400.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

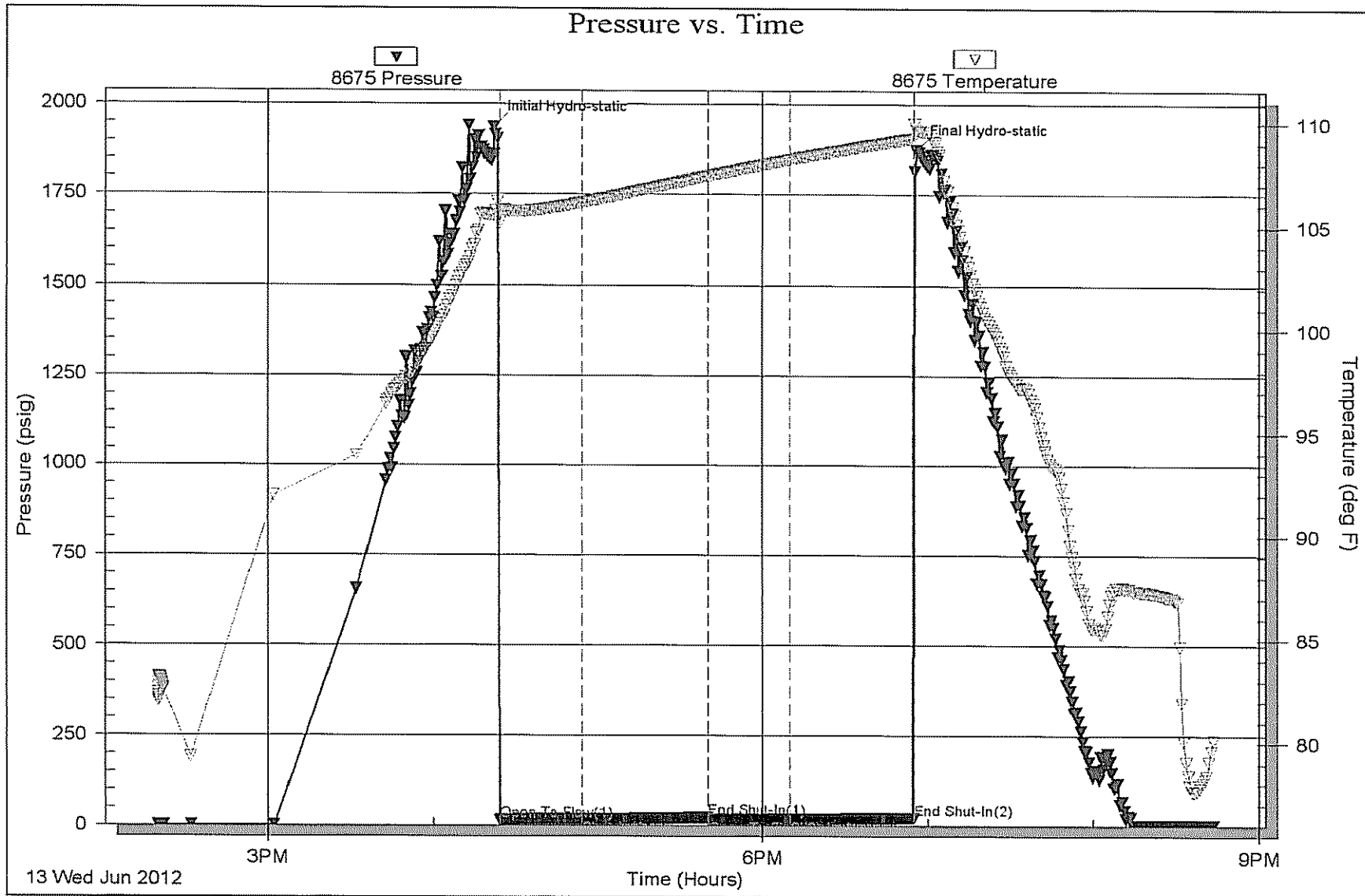
Num Gas Bombs: 0

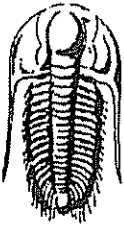
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48309

DST#: 7

ATTN: Max Armstrong

Test Start: 2012.06.14 @ 17:00:00

GENERAL INFORMATION:

Formation: Fort Scott

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:40:30

Time Test Ended: 00:07:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4198.00 ft (KB) To 4235.00 ft (KB) (TVD)

Total Depth: 4235.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2732.00 ft (KB)

2721.00 ft (CF)

KB to GRVCF: 11.00 ft

Serial #: 8675

Inside

Press@RunDepth: 21.27 psig @ 4199.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.14

End Date:

2012.06.15

Last Calib.: 2012.06.15

Start Time: 17:00:01

End Time:

00:07:30

Time On Btm: 2012.06.14 @ 19:39:00

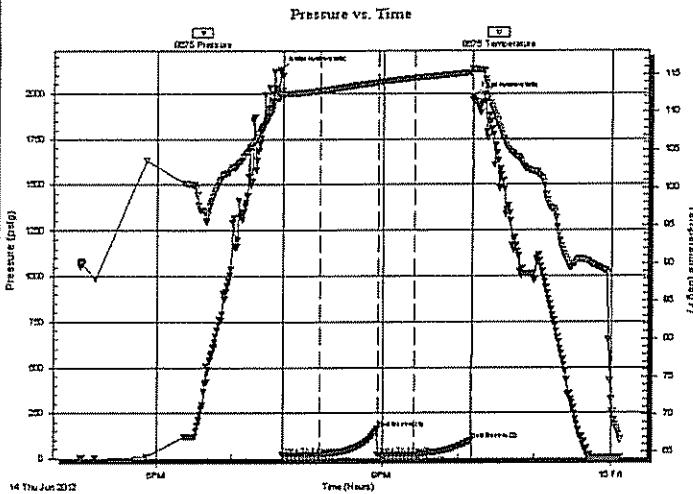
Time Off Btm: 2012.06.14 @ 22:11:45

TEST COMMENT: Weak surface blow, Died in 15 min.

No return blow

No blow

No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.10	112.38	Initial Hydro-static
2	18.82	111.95	Open To Flow (1)
31	21.22	112.78	Shut-In(1)
77	162.37	113.91	End Shut-In(1)
77	20.40	113.85	Open To Flow (2)
106	21.27	114.51	Shut-In(2)
152	100.82	115.26	End Shut-In(2)
153	1980.61	115.74	Final Hydro-static

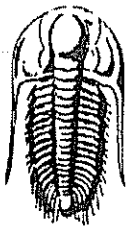
Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% Mud with oil spots	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company
301 S Market ST
Wichita KS 67202-3805
ATTN: Max Armstrong

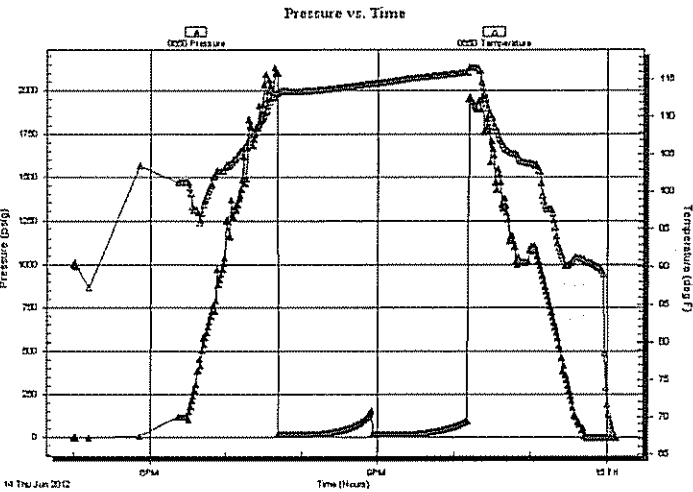
20-14s-32w
Christy Farms 1-20
Job Ticket: 48309 DST#: 7
Test Start: 2012.06.14 @ 17:00:00

GENERAL INFORMATION:

Formation: **Fort Scott**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 19:40:30
Time Test Ended: 00:07:30
Interval: **4198.00 ft (KB) To 4235.00 ft (KB) (TVD)**
Total Depth: **4235.00 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: **2732.00 ft (KB)**
2721.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: **8650** Outside
Press@RunDepth: psig @ **4199.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.06.14** End Date: **2012.06.15** Last Calib.: **2012.06.15**
Start Time: **17:00:01** End Time: **00:07:30** Time On Btm:
Time Off Btm:

TEST COMMENT: Weak surface blow , Died in 15 min.
No return blow
No blow
No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

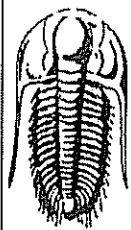
Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% Mud with oil spots	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48309

DST#: 7

ATTN: Max Armstrong

Test Start: 2012.06.14 @ 17:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 6.40 in³

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

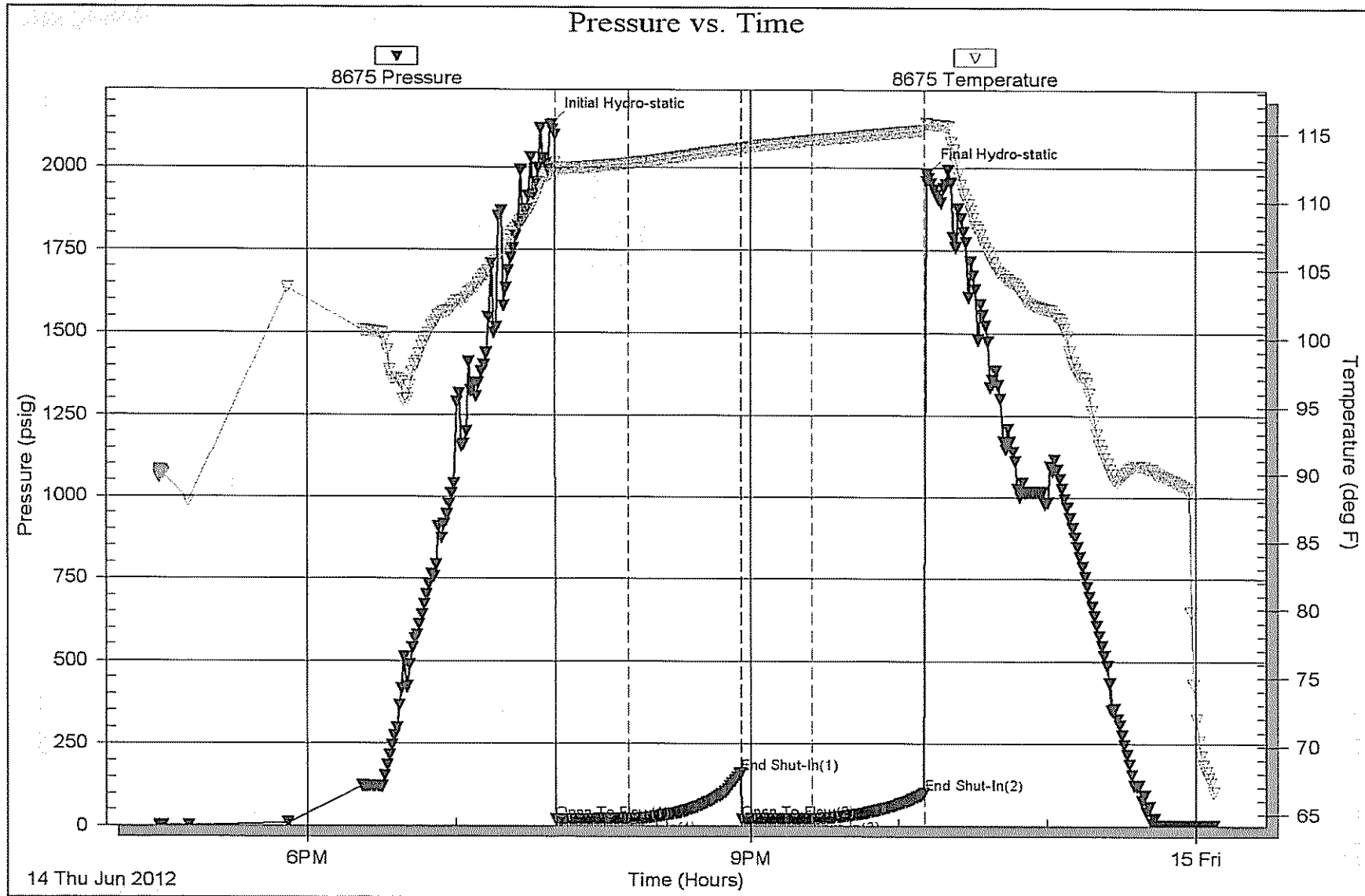
Length ft	Description	Volume bbl
1.00	100% Mud with oil spots	0.005

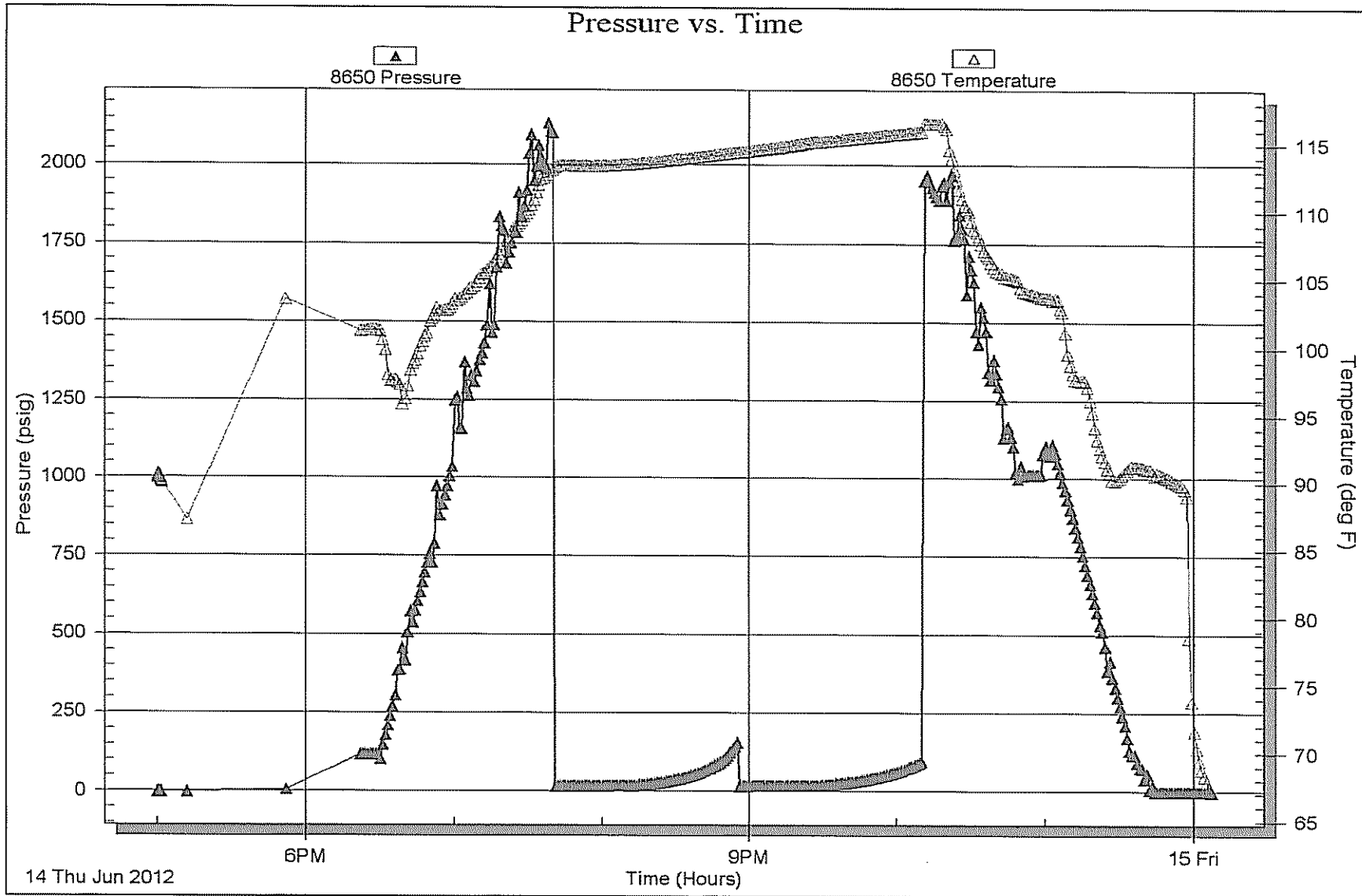
Total Length: 1.00 ft Total Volume: 0.005 bbl

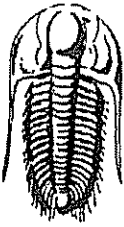
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48310

DST#: 8

ATTN: Max Armstrong

Test Start: 2012.06.15 @ 13:00:00

GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 15:17:15

Time Test Ended: 22:17:00

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

Tester: **Jace McKinney**

Unit No: **46**

Interval: **4259.00 ft (KB) To 4330.00 ft (KB) (TVD)**

Total Depth: **4330.00 ft (KB) (TVD)**

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

Reference Elevations: **2732.00 ft (KB)**

2721.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **8675**

Inside

Press@RunDepth: **112.52 psig @ 4259.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.06.15**

End Date: **2012.06.15**

Last Calib.: **2012.06.15**

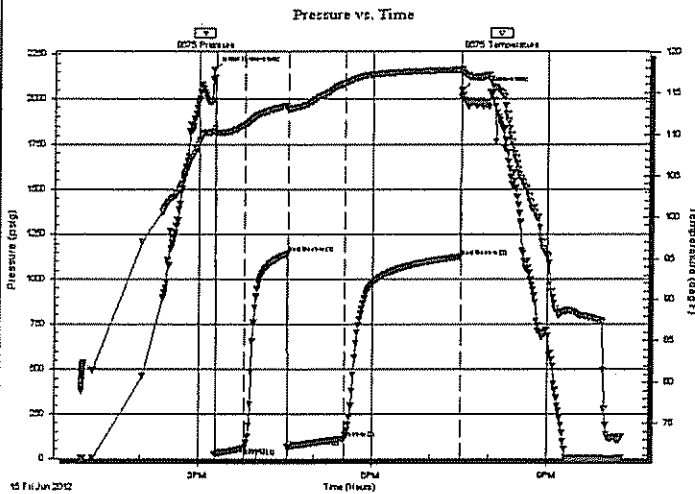
Start Time: **13:00:01**

End Time: **22:17:00**

Time On Btm: **2012.06.15 @ 15:15:00**

Time Off Btm: **2012.06.15 @ 19:31:45**

TEST COMMENT: Built to 5" blow
No return blow
Built to 4 1/2" blow
No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.77	110.39	Initial Hydro-static
3	21.78	110.23	Open To Flow (1)
32	55.97	111.22	Shut-In(1)
77	1141.82	113.52	End Shut-In(1)
77	65.69	112.95	Open To Flow (2)
137	112.52	116.27	Shut-In(2)
256	1125.04	117.88	End Shut-In(2)
257	2048.86	117.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocw m 10%O 40%W 50%M	0.30
134.00	w com 10%W 20%O 70%M	0.66
30.00	gco 10%G 90%O	0.15
0.00	103 Feet Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

301 S Market ST
Wichita KS 67202-3805

ATTN: Max Armstrong

20-14s-32w

Christy Farms 1-20

Job Ticket: 48310

DST#: 8

Test Start: 2012.06.15 @ 13:00:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:17:15

Time Test Ended: 22:17:00

Interval: 4259.00 ft (KB) To 4330.00 ft (KB) (TVD)

Total Depth: 4330.00 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: 2732.00 ft (KB)

2721.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 4259.00 ft (KB)

Start Date: 2012.06.15

End Date: 2012.06.15

Start Time: 13:00:01

End Time: 22:16:45

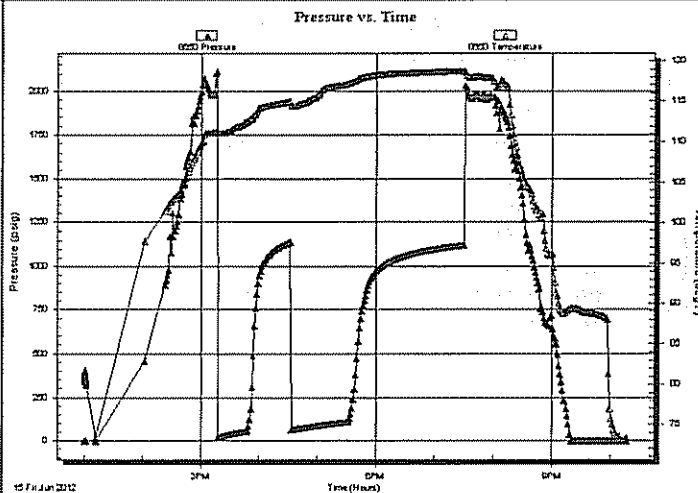
Capacity: 8000.00 psig

Last Calib.: 2012.06.15

Time On Blmt

Time Off Blmt

TEST COMMENT: Built to 5" blow
No return blow
Built to 4 1/2" blow
No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

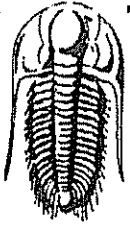
Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocw m 10%O 40%W 50%M	0.30
134.00	w com 10%W 20%O 70%M	0.66
30.00	gco 10%G 90%O	0.15
0.00	103 Feet Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-14s-32w

301 S Market ST
Wichita KS 67202-3805

Christy Farms 1-20

Job Ticket: 48310

DST#: 8

ATTN: Max Armstrong

Test Start: 2012.06.15 @ 13:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 6.80 in³
Resistivity: ohm.m
Salinity: 2500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 30 deg API
Water Salinity: 35000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	ocw m 10%O 40%W 50%M	0.305
134.00	w com 10%W 20%O 70%M	0.659
30.00	gco 10%G 90%O	0.148
0.00	103 Feet Gas In Pipe	0.000

Total Length: 226.00 ft Total Volume: 1.112 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API 30 @ 60 F = 30

RW .20 @ 75 F = 35,000

