



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1151578
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: _____



1151578

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
--	---

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
----------------	--	---

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Boulware 2-21
Doc ID	1151578

All Electric Logs Run

CDL/CNL
PE
DIL
SON
MEL

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Boulware 2-21
Doc ID	1151578

Tops

Name	Top	Datum
Heebner	3949	-839
Lansing	3994	-884
Stark Shale	4290	-1180
Hushpuckney	4348	-1238
Base KC	4422	-1312
Marmaton	4451	-1341
Pawnee	4538	-1428
Ft. Scott	4558	-1448
Cherokee	4572	-1462
Johnson	4660	-1550
Morrow	4743	-1633
Basal Penn	4788	-1678
Mississippian	4816	-1706
St. Louis	4894	-1784

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Boulware 2-21
Doc ID	1151578

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4626 - 4630	500 g 7.5% MCA;1500 g 7.5%NEFE;8500 g ProGel+3000# 20/40	4626 - 4630
4	4501 - 4504	250 g 15% MCA	4501 - 4504
4	4476 - 4478	250 g 15% MCA	4476 - 4478
4	4458 - 4467	350 g 15% MCA	4458 - 4467
4	4234 - 4238	250 g 15% MCA;500 g 15% NEFE	4234 - 4238
4	4198 - 4204	350 g 15% MCA	4198 - 4204

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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

August 15, 2013

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

Re: ACO1
API 15-171-20957-00-00
Boulware 2-21
SW/4 Sec.21-18S-34W
Scott 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



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 260506

=====
Invoice Date: 07/15/2013 Terms: 10/10/30,n/30 Page 1

LARIO OIL & GAS
P.O. BOX 1093
GARDEN CITY KS 637846
(316)265-5611

BOULWARE 2-21

37970
21-18-34
07-13-2013
KS

Drilling
AFE-13-163
CK 7/17/13

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	260.00	18.5500	4823.00
1102	CALCIUM CHLORIDE (50#)	733.00	.9400	689.02
1118B	PREMIUM GEL / BENTONITE	489.00	.2700	132.03

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-564.41
9995-130	CEMENT EQUIPMENT DISCOUNT	-221.40

Description	Hours	Unit Price	Total
493 CEMENT PUMP (SURFACE)	1.00	1150.00	1150.00
493 EQUIPMENT MILEAGE (ONE WAY)	40.00	5.25	210.00
693 TON MILEAGE DELIVERY	1.00	854.00	854.00

al
al
[Signature]

Amount Due 8318.04 if paid after 08/14/2013

=====
Parts: 5644.05 Freight: .00 Tax: 413.99 AR 7486.23
Labor: .00 Misc: .00 Total: 7486.23
Sublt: -785.81 Supplies: .00 Change: .00
=====

Signed _____ Date _____



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 137590
Invoice Date: Jul 26, 2013
Page: 1

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

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Lario	61277	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jul 26, 2013	8/25/13

Quantity	Item	Description	Unit Price	Amount
4.00	MAT	Boulware #2-21		
200.00	MAT	Gel -- No Charge		
470.00	MAT	ASC	20.90	4,180.00
56.00	MAT	Lightweight Type 1 Class A	16.50	7,755.00
28.00	MAT	FL-160	18.90	1,058.40
1,000.00	MAT	Defoamer	9.80	274.40
12.00	MAT	Gilsonite	0.98	980.00
118.00	MAT	Super Flush	58.70	704.40
		Flo Seal	2.97	350.46
		Salt -- No Charge		
777.27	SER	Cuicb Feet	2.48	1,927.64
1,647.20	SER	Ton Mileage	2.60	4,282.72
1.00	SER	Production -- Bottom Stage	2,665.75	2,665.75
1.00	SER	Production -- Top Stage	2,406.25	2,406.25
50.00	SER	Pump Truck Mileage	7.70	385.00
1.00	SER	Manifold Head Rental	275.00	275.00
50.00	SER	Light Vehicle Mileage	4.40	220.00
1.00	EQP	5.5 AFU Float Shoe	431.80	431.80
1.00	EQP	5.5 Latch Down Plug Assembly	558.25	558.25
9.00	EQP	5.5 Centralizer	39.80	358.20
1.00	EQP	5.5 Basket	237.79	237.79

[Handwritten signature]

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

\$ 12,035.21

ONLY IF PAID ON OR BEFORE
Aug 20, 2013

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
TOTAL	Continued



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 137590
Invoice Date: Jul 26, 2013
Page: 2

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Lario	61277	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jul 26, 2013	8/25/13

Quantity	Item	Description	Unit Price	Amount
1.00	EQP	5.5 Stage Collar	5,335.26	5,335.26
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		

Handwritten initials: *KE*
Stamp: AUG 7 2013
Handwritten initials: *KE*

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

\$ 12,035.21

ONLY IF PAID ON OR BEFORE
Aug 20, 2013

Subtotal	34,386.32
Sales Tax	1,811.25
Total Invoice Amount	36,197.57
Payment/Credit Applied	
TOTAL	36,197.57

ALLIED OIL & GAS SERVICES, LLC 061277

Federal Tax I.D. # 20-8661475

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

SERVICE POINT:

DARLGT.

DATE <u>7-26-2013</u>	SEC. <u>21</u>	TWP. <u>18S</u>	RANGE <u>34W</u>	CALLED OUT	ON LOCATION <u>2:00 AM</u>	JOB START <u>1:30 PM</u>	JOB FINISH <u>3:00 PM</u>
LEASE <u>BOULWARE</u>	WELL # <u>2-21</u>		LOCATION <u>Madoc 1/2 N-15-E + N INTO</u>		COUNTY <u>SCOTT</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>W+W OIL & GAS RIG # 2</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>Production Two-stage</u>	
HOLE SIZE <u>7 7/8"</u>	T.D. <u>5000'</u>
CASING SIZE <u>5 1/2"</u>	DEPTH <u>4975'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>D-U</u>	DEPTH <u>2348'</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>18.51'</u>	
PERFS.	
DISPLACEMENT <u>Bottom stage 63.35 water 57.29 Mud</u>	
EQUIPMENT <u>TOTAL 120.64</u>	

PUMP TRUCK	CEMENTER <u>TERRY Heinrich</u>	
# <u>120</u>	HELPER <u>TYLER Rippe</u>	
BULK TRUCK		
# <u>566-595</u>	DRIVER <u>BRANDON Wilkinson</u>	
BULK TRUCK		
# <u>600</u>	DRIVER <u>ALVRO (TWO)</u>	

CEMENT			
AMOUNT ORDERED <u>200 SKS ASC 10% SALT 28.9E1</u>			
<u>5" GILSONITE 3/4 OF 1/8 FT-160 1/4" PER SK DEFORMER</u>			
COMMON	@		
POZMIX	@		
GEL <u>4 SKS</u>	@	<u>N/C</u>	<u>N/C</u>
CHLORIDE	@		
ASC <u>200 SKS</u>	@	<u>20.92</u>	<u>4180.00</u>
<u>LITE TYPE 1 CLASS A 470SK</u>	@	<u>16.50</u>	<u>7755.00</u>
<u>FT-160 56"</u>	@	<u>18.90</u>	<u>1058.40</u>
<u>DEFORMER 28"</u>	@	<u>9.80</u>	<u>274.40</u>
<u>GILSONITE 1000"</u>	@	<u>9.98</u>	<u>980.00</u>
<u>SUPER FLASH 12 001</u>	@	<u>58.20</u>	<u>704.40</u>
<u>PLG-SEAL 118"</u>	@	<u>2.97</u>	<u>350.46</u>
<u>SALT</u>	@	<u>N/C</u>	<u>N/C</u>
HANDLING <u>777.275 CU.FT</u>	@	<u>2.48</u>	<u>1927.64</u>
MILBAGE <u>32.994 TONS X 50 X 2.60</u>	@		<u>4282.72</u>
TOTAL			<u>21513.02</u>

REMARKS:

Hook up to 5 1/2 casing pump ball through float shoe, 900psi & circulate 1 1/2 hrs. mix 200 SKS ASC 10% SALT 5" GILSONITE 28gel 3/4 OF 1/8 FT-160 1/4" PER SKS DEFORMER. WASH TRUCK & LINES
DISPLACE 63.35 GAL WATER 57.29 GAL MUD, LAUNDED PLUG AT 1500PSI. 750PSI LIFT PRESSURE. TOP STAGE MIX 20SKS MUD. MIX 30 SKS AT HOLE. MIX 420SKS LITE TYPE 1 CLASS A. WASH TRUCK & LINES. DISPLACE 57.29 GAL WATER. PLUG LAUNCHED AT 1750 PSI. TAIL HELD. CEMENT OK. THANK YOU

CHARGE TO: LARIO OIL & GAS, CO.
 STREET P.O. Box 1093
 CITY Garden STATE KS ZIP 67846

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE <u>2665.25 - 2406.25</u>		
EXTRA FOOTAGE	@	
MILBAGE <u>50 mi</u>	@	<u>7.20</u> <u>385.00</u>
MANIFOLD + HEAD	@	<u>275.00</u>
LIGHT VEHICLE # <u>50</u>	@	<u>220.00</u>
TOTAL		<u>5952.00</u>

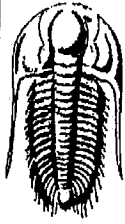
5 1/2 PLUG & FLOAT EQUIPMENT

<u>1- APU FLOAT SHOE</u>		<u>431.80</u>
<u>1- LATCH DOWN PLUG ASSY F/CH</u>		<u>558.20</u>
<u>9- CEMENTIZERS</u>	@ <u>39.80</u>	<u>358.20</u>
<u>1- BASKET</u>	@	<u>237.29</u>
<u>1- STAGE COLLAR</u>	@	<u>5335.20</u>
TOTAL		<u>6921.30</u>

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 34,386.32
 DISCOUNT 12,635.21 IF PAID IN 30 DAYS
 Bid 22,351.10 Net.

PRINTED NAME Curtis D Keil
 SIGNATURE Curtis D Keil



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas
 301 S Market St
 Wichita, Ks
 67202-3805
 ATTN: Brad Rine

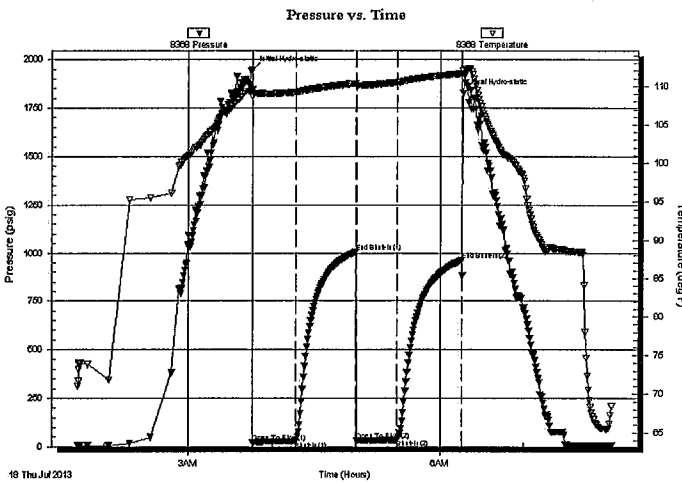
21-18s-34w Scott, Ks
Boulevard #2-21
 Job Ticket: 52827 **DST#: 1**
 Test Start: 2013.07.18 @ 01:41:03

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 03:45:58
 Time Test Ended: 08:03:27
 Interval: **3950.00 ft (KB) To 4005.00 ft (KB) (TVD)**
 Total Depth: 4005.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3110.00 ft (KB)
 3105.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8368 Outside
 Press@RunDepth: 35.95 psig @ 3951.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.18 End Date: 2013.07.18 Last Calib.: 2013.07.18
 Start Time: 01:41:03 End Time: 08:03:27 Time On Btm: 2013.07.18 @ 03:45:43
 Time Off Btm: 2013.07.18 @ 06:16:42

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



PRESSURE SUMMARY

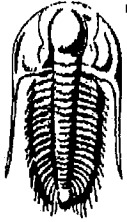
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1949.58	109.55	Initial Hydro-static
1	23.58	108.65	Open To Flow (1)
31	29.41	109.23	Shut-In(1)
74	1006.19	110.38	End Shut-In(1)
75	31.10	109.90	Open To Flow (2)
104	35.95	110.49	Shut-In(2)
150	964.19	111.66	End Shut-In(2)
151	1828.50	112.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w/oil spots 100%m	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

21-18s-34w Scott, Ks

301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

Boulevard #2-21

Job Ticket: 52827

DST#: 1

Test Start: 2013.07.18 @ 01:41:03

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in⁹

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
10.00	mud w/oil spots 100%m	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:

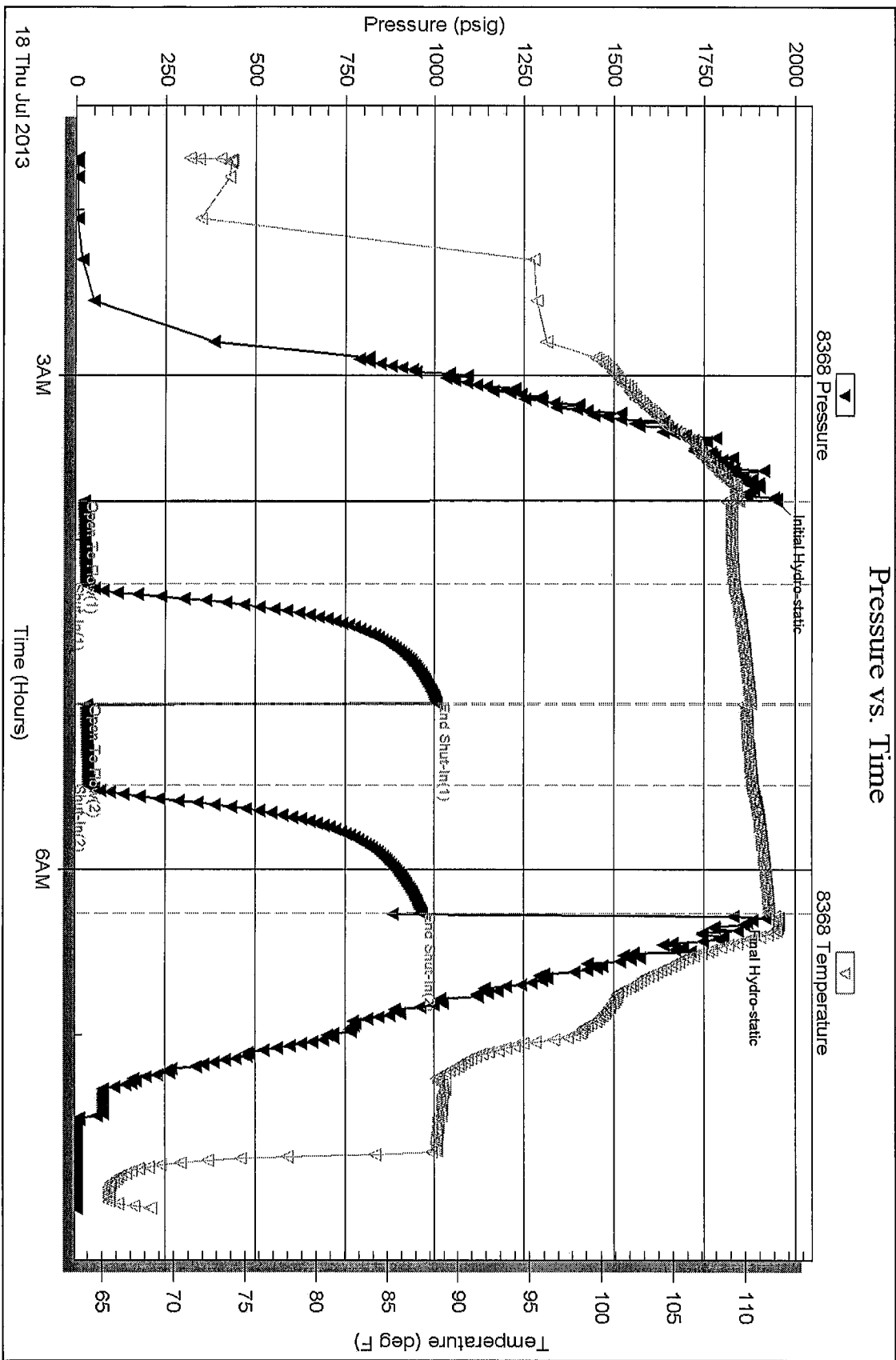
Recovery Comments:

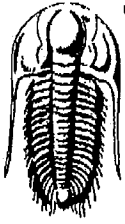
Serial #: 8368

Outside Lario Oil & Gas

Boilw are #2-21

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas
 301 S Market St
 Wichita, Ks
 67202-3805
 ATTN: Brad Rine

21-18s-34w Scott, Ks

Boulevard #2-21

Job Ticket: 52830

DST#: 2

Test Start: 2013.07.18 @ 18:55:24

GENERAL INFORMATION:

Formation: D
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 20:34:19
 Time Test Ended: 01:16:48

Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55

Interval: **4076.00 ft (KB) To 4100.00 ft (KB) (TVD)**
 Total Depth: 4100.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3110.00 ft (KB)
 3105.00 ft (CF)
 KB to GR/CF: 5.00 ft

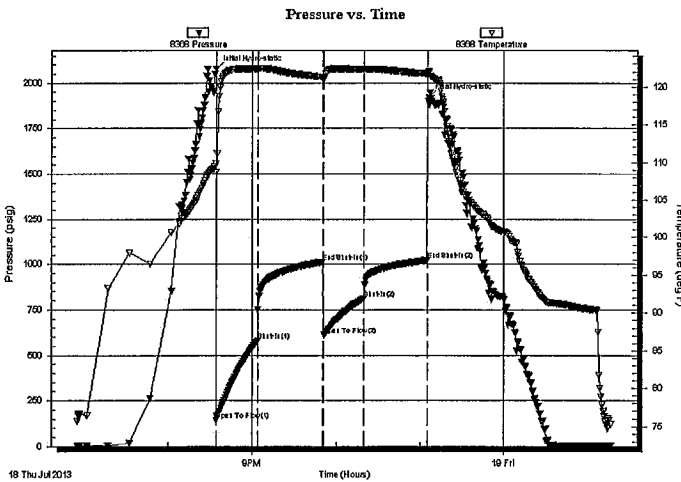
Serial #: 8368

Outside

Press@RunDepth: 811.45 psig @ 4077.00 ft (KB)
 Start Date: 2013.07.18 End Date: 2013.07.19
 Start Time: 18:55:24 End Time: 01:16:48

Capacity: 8000.00 psig
 Last Calib.: 2013.07.19
 Time On Btm: 2013.07.18 @ 20:34:04
 Time Off Btm: 2013.07.18 @ 23:06:04

TEST COMMENT: B.O.B. in 2 min
 No return
 B.O.B. in 4 min
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.10	109.79	Initial Hydro-static
1	143.97	108.72	Open To Flow (1)
30	579.33	122.35	Shut-In(1)
76	1012.64	121.26	End Shut-In(1)
77	613.24	121.04	Open To Flow (2)
106	811.45	122.30	Shut-In(2)
151	1020.54	121.75	End Shut-In(2)
152	1922.00	121.98	Final Hydro-static

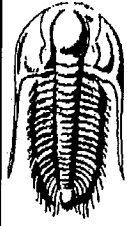
Recovery

Length (ft)	Description	Volume (bbl)
1550.00	water 100% w	20.61
186.00	s m c w 10% m 90% w	2.61

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas
301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

21-18s-34w Scott, Ks
Boulware #2-21
Job Ticket: 52830 **DST#: 2**
Test Start: 2013.07.18 @ 18:55:24

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: 41000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1550.00	water 100% w	20.613
186.00	s m c w 10% m 90% w	2.609

Total Length: 1736.00 ft Total Volume: 23.222 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw .166 @ 76*f= 41,000 chlor

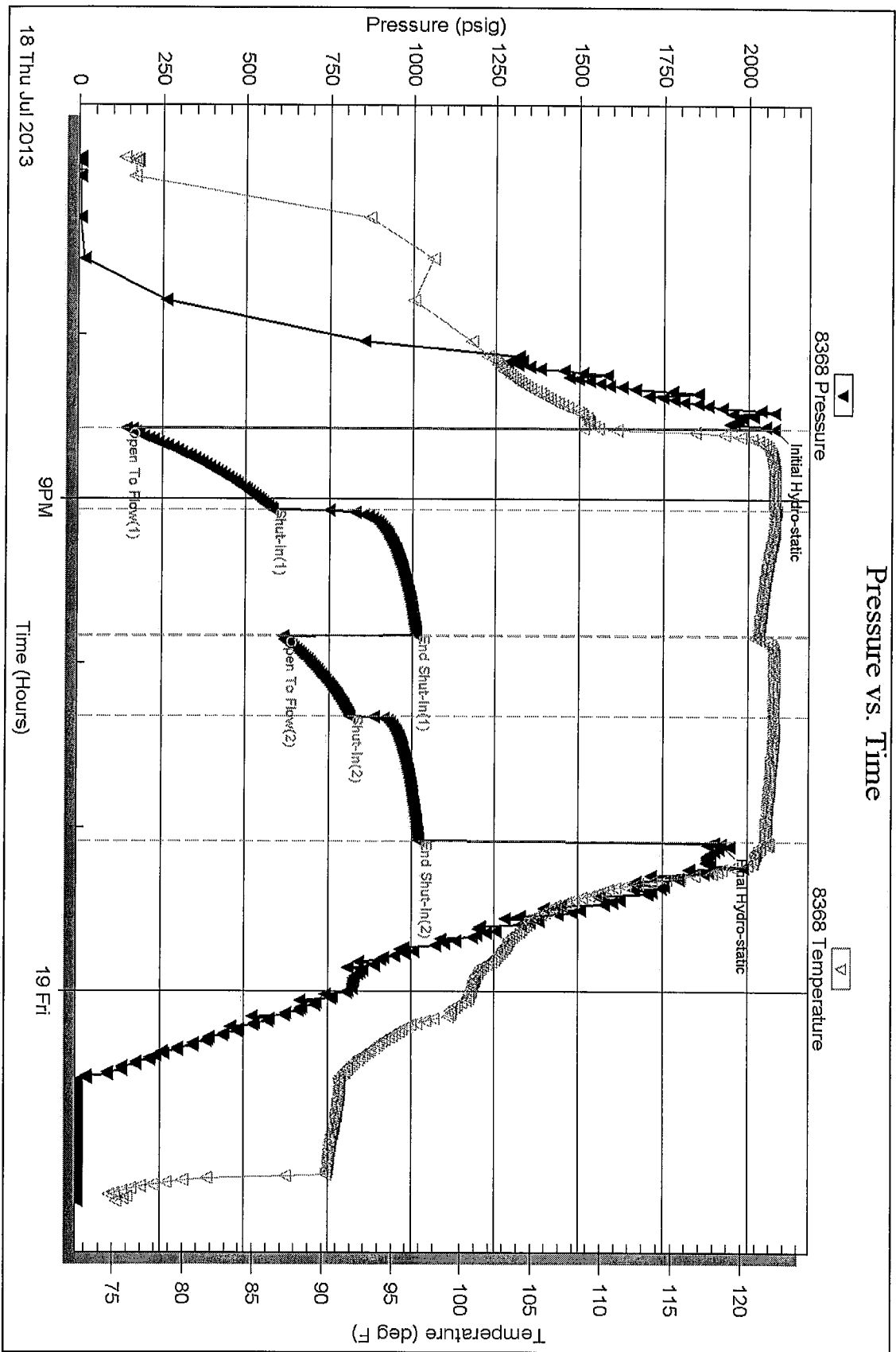
Serial #: 8368

Outside Lario Oil & Gas

Boulevard #2-21

DST Test Number: 2

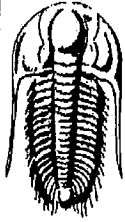
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 52830

Printed: 2013.07.19 @ 06:34:45



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas
301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

21-18s-34w Scott, Ks

Boulevard #2-21

Job Ticket: 52831

DST#: 3

Test Start: 2013.07.19 @ 13:00:08

GENERAL INFORMATION:

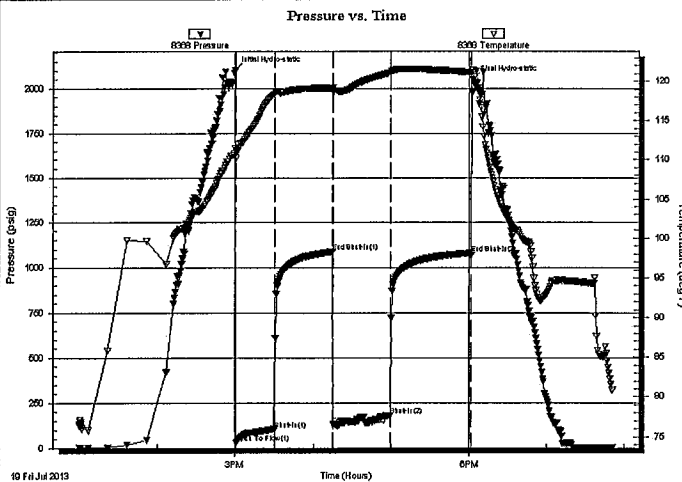
Formation: **H**
 Deviated: **No** Whipstock: **0.00 ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **15:00:18** Tester: **Shane McBride**
 Time Test Ended: **19:51:02** Unit No: **55**
 Interval: **4181.00 ft (KB) To 4207.00 ft (KB) (TVD)** Reference Elevations: **3110.00 ft (KB)**
 Total Depth: **4207.00 ft (KB) (TVD)** **3105.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: 8368

Outside

Press@RunDepth: **179.66 psig @ 4182.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2013.07.19** End Date: **2013.07.19** Last Calib.: **2013.07.19**
 Start Time: **13:00:08** End Time: **19:51:02** Time On Btm: **2013.07.19 @ 15:00:03**
 Time Off Btm: **2013.07.19 @ 18:02:48**

TEST COMMENT: **9" in blow**
No return
5 1/4" in blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.99	111.45	Initial Hydro-static
1	28.43	110.22	Open To Flow (1)
30	105.10	118.36	Shut-In(1)
75	1086.13	119.13	End Shut-In(1)
75	126.51	118.53	Open To Flow (2)
119	179.66	121.11	Shut-In(2)
181	1078.12	121.19	End Shut-In(2)
183	2050.77	121.38	Final Hydro-static

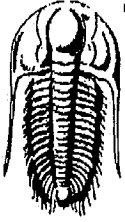
Recovery

Length (ft)	Description	Volume (bbl)
120.00	m & w c o 20m 30w 50o	0.59
120.00	w & o c m 20w 35o 45m	1.65
30.00	w & o c m 10w 20o 70m	0.42
10.00	s m c o 10m 90o	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

21-18s-34w Scott, Ks

301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

Boulevard #2-21

Job Ticket: 52831

DST#: 3

Test Start: 2013.07.19 @ 13:00:08

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:

33500 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	m & w c o 20m 30w 50o	0.590
120.00	w & o c m 20w 35o 45m	1.647
30.00	w & o c m 10w 20o 70m	0.421
10.00	s m c o 10m 90o	0.140

Total Length: 280.00 ft Total Volume: 2.798 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .149 @ 95*f = 33,500

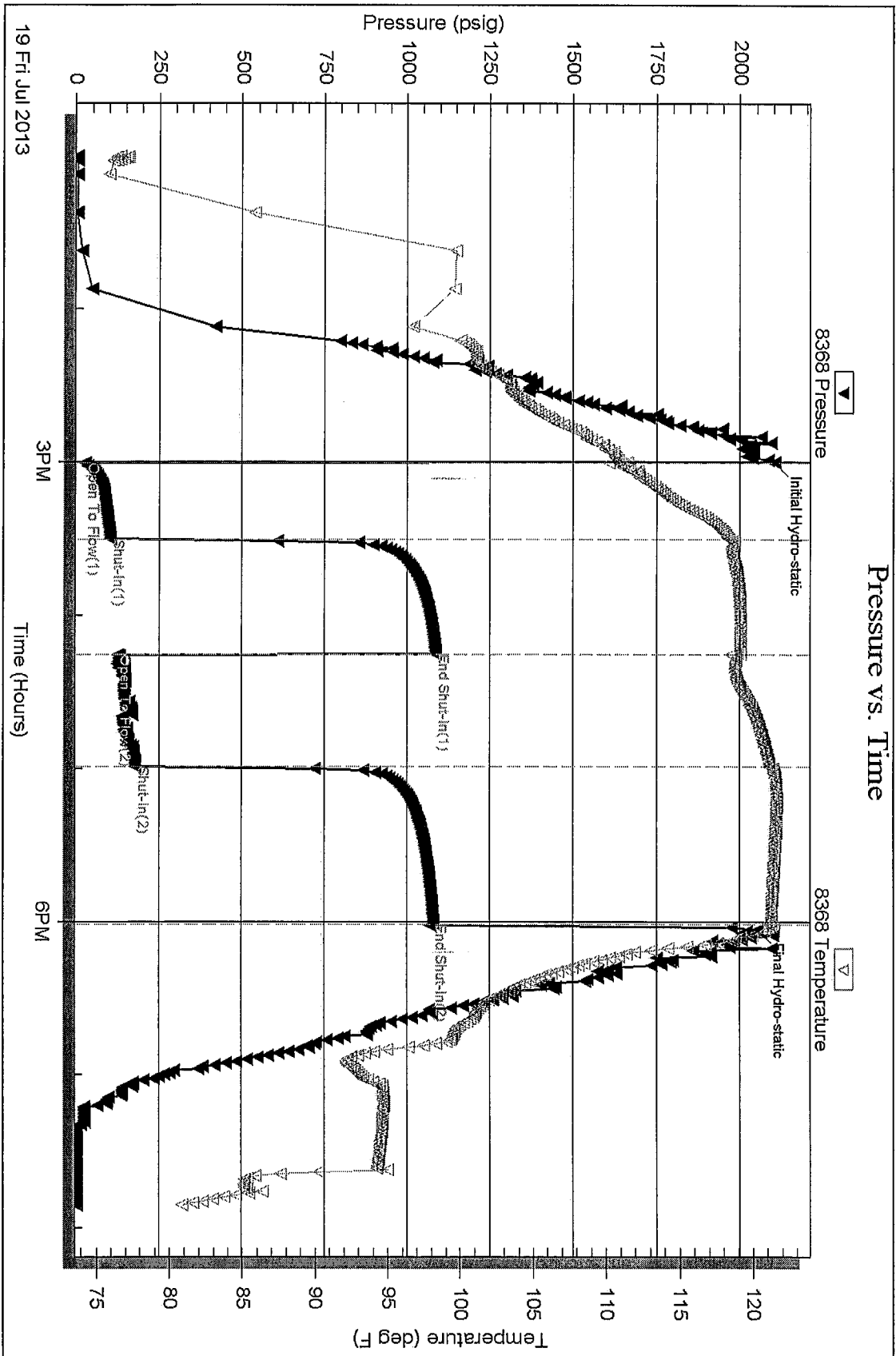
Serial #: 8368

Outside Larjo Oil & Gas

Boilw are #2-21

DST Test Number: 3

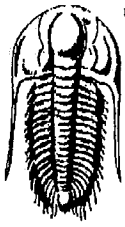
Pressure vs. Time



Tribble Testing, Inc

Ref. No: 52831

Printed: 2013.07.19 @ 23:20:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas
 301 S Market St
 Wichita, Ks
 67202-3805
 ATTN: Brad Rine

21-18s-34w Scott, Ks
Boulevard #2-21
 Job Ticket: 52832 **DST#: 4**
 Test Start: 2013.07.20 @ 04:00:39

GENERAL INFORMATION:

Formation: I
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 06:09:49
 Time Test Ended: 11:22:33
 Interval: **4220.00 ft (KB) To 4239.00 ft (KB) (TVD)**
 Total Depth: 4239.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3110.00 ft (KB)
 3105.00 ft (CF)
 KB to GR/CF: 5.00 ft

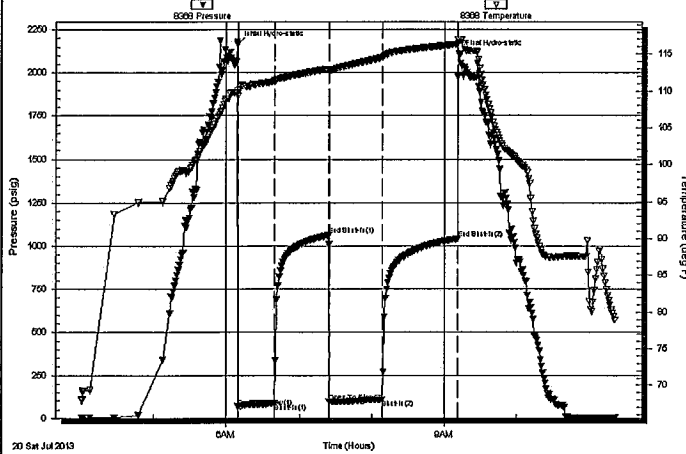
Serial #: 8368

Outside

Press@RunDepth: 109.33 psig @ 4221.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.20 End Date: 2013.07.20 Last Calib.: 2013.07.20
 Start Time: 04:00:39 End Time: 11:22:33 Time On Btm: 2013.07.20 @ 06:09:34
 Time Off Btm: 2013.07.20 @ 09:12:04

TEST COMMENT: 3 3/4" in blow
 No return
 5" in blow
 No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2165.70	110.02	Initial Hydro-static
1	65.89	109.30	Open To Flow (1)
30	86.77	111.27	Shut-In(1)
75	1063.04	112.99	End Shut-In(1)
75	95.38	112.60	Open To Flow (2)
119	109.33	114.52	Shut-In(2)
182	1042.66	116.34	End Shut-In(2)
183	2106.99	116.95	Final Hydro-static

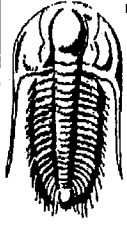
Recovery

Length (ft)	Description	Volume (bbl)
60.00	o c m 30o 70m	0.30
90.00	o c m 40o 60m	0.68
50.00	c o 100o	0.70

* 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

21-18s-34w Scott, Ks

301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

Boulware #2-21

Job Ticket: 52832

DST#: 4

Test Start: 2013.07.20 @ 04:00:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

20 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	o c m 30o 70m	0.295
90.00	o c m 40o 60m	0.679
50.00	c o 100o	0.701

Total Length: 200.00 ft Total Volume: 1.675 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

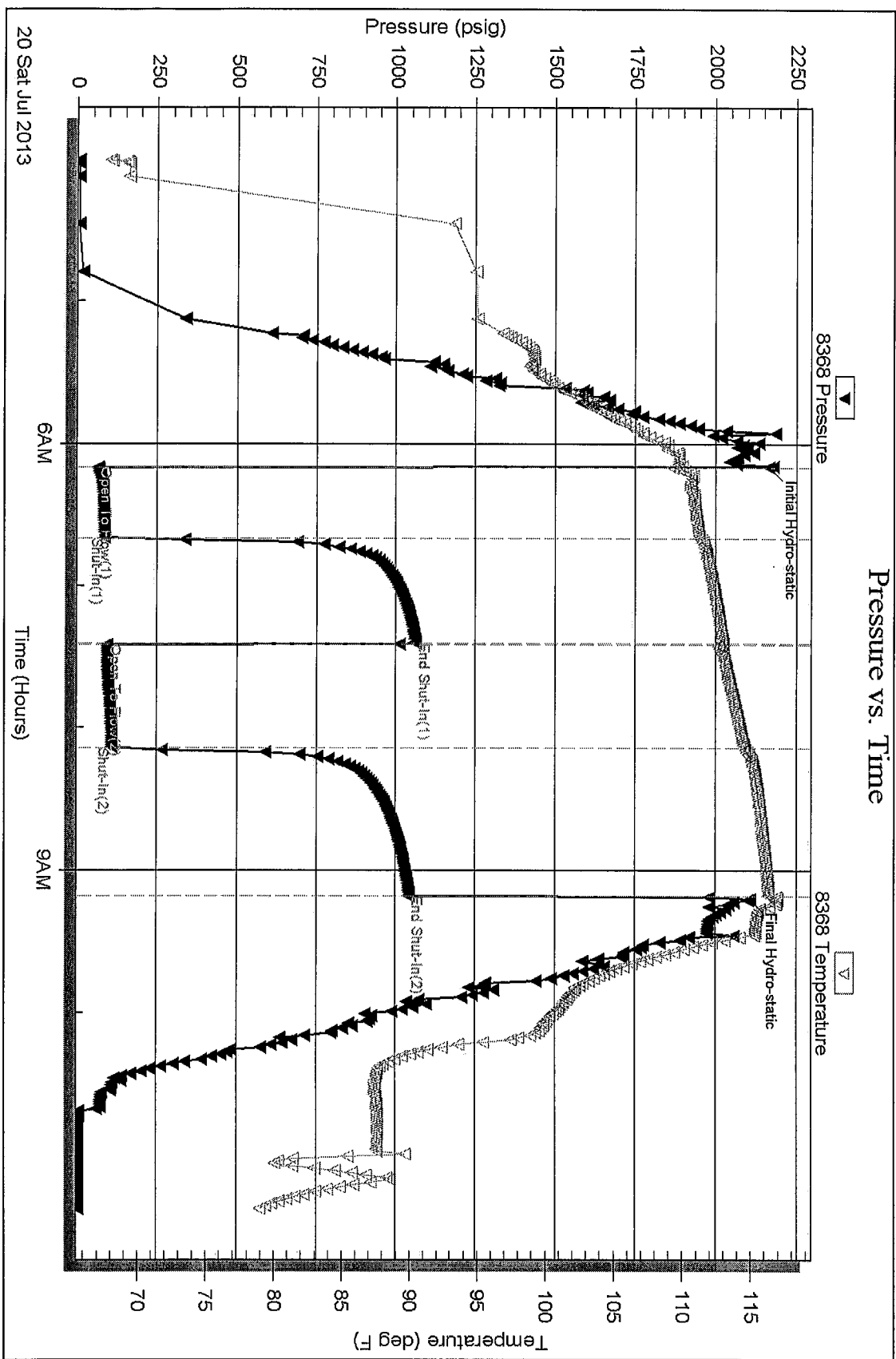
Serial #: 8368

Outside Lario Oil & Gas

Boulevard #2-21

DST Test Number: 4

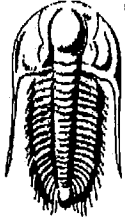
Pressure vs. Time



Triobrite Testing, Inc

Ref. No: 52832

Printed: 2013.07.20 @ 23:06:28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas
 301 S Market St
 Wichita, Ks
 67202-3805
 ATTN: Brad Rine

21-18s-34w Scott, Ks
Boulevard #2-21
 Job Ticket: 52833 **DST#: 5**
 Test Start: 2013.07.20 @ 18:30:31

GENERAL INFORMATION:

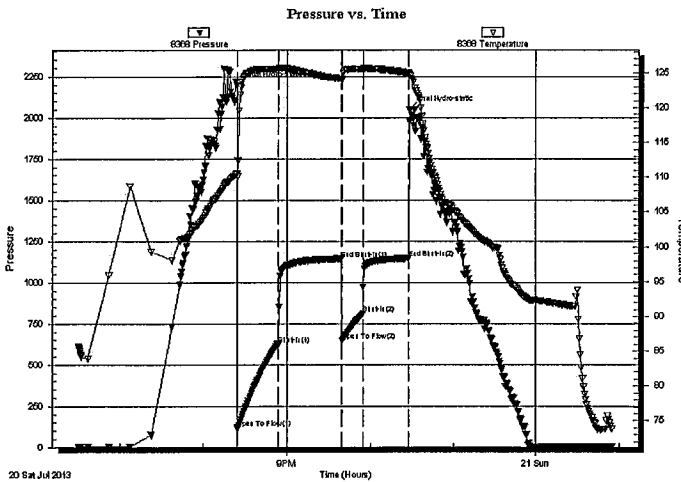
Formation: **J**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 20:24:41
 Time Test Ended: 00:54:55
 Interval: **4258.00 ft (KB) To 4272.00 ft (KB) (TVD)**
 Total Depth: 4272.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3110.00 ft (KB)
 3105.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8368

Outside

Press@RunDepth: 811.14 psig @ 4259.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.20 End Date: 2013.07.21 Last Calib.: 2013.07.21
 Start Time: 18:30:31 End Time: 00:54:55 Time On Btm: 2013.07.20 @ 20:24:11
 Time Off Btm: 2013.07.20 @ 22:28:11

TEST COMMENT: B.O.B. in 3 min.
 No return
 B.O.B. in 4 1/2 min
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2197.62	110.54	Initial Hydro-static
1	116.28	110.12	Open To Flow (1)
30	626.30	125.54	Shut-In(1)
75	1143.94	124.16	End Shut-In(1)
76	648.58	123.94	Open To Flow (2)
91	811.14	125.51	Shut-In(2)
123	1145.33	124.90	End Shut-In(2)
124	2050.50	124.79	Final Hydro-static

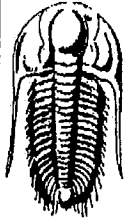
Recovery

Length (ft)	Description	Volume (bbl)
1380.00	water w/oil scum 100w	18.23
270.00	s o c w tr/of mud 2o 98w	3.79
0.00	6" in free oil on top	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

21-18s-34w Scott, Ks

301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

Boulware #2-21

Job Ticket: 52833

DST#: 5

Test Start: 2013.07.20 @ 18:30:31

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:

45000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1380.00	water w/oil scum 100w	18.228
270.00	s o c w tr/of mud 2o 98w	3.787
0.00	6" in free oil on top	0.000

Total Length: 1650.00 ft Total Volume: 22.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .141 @ 73*f= 45,000 chlor

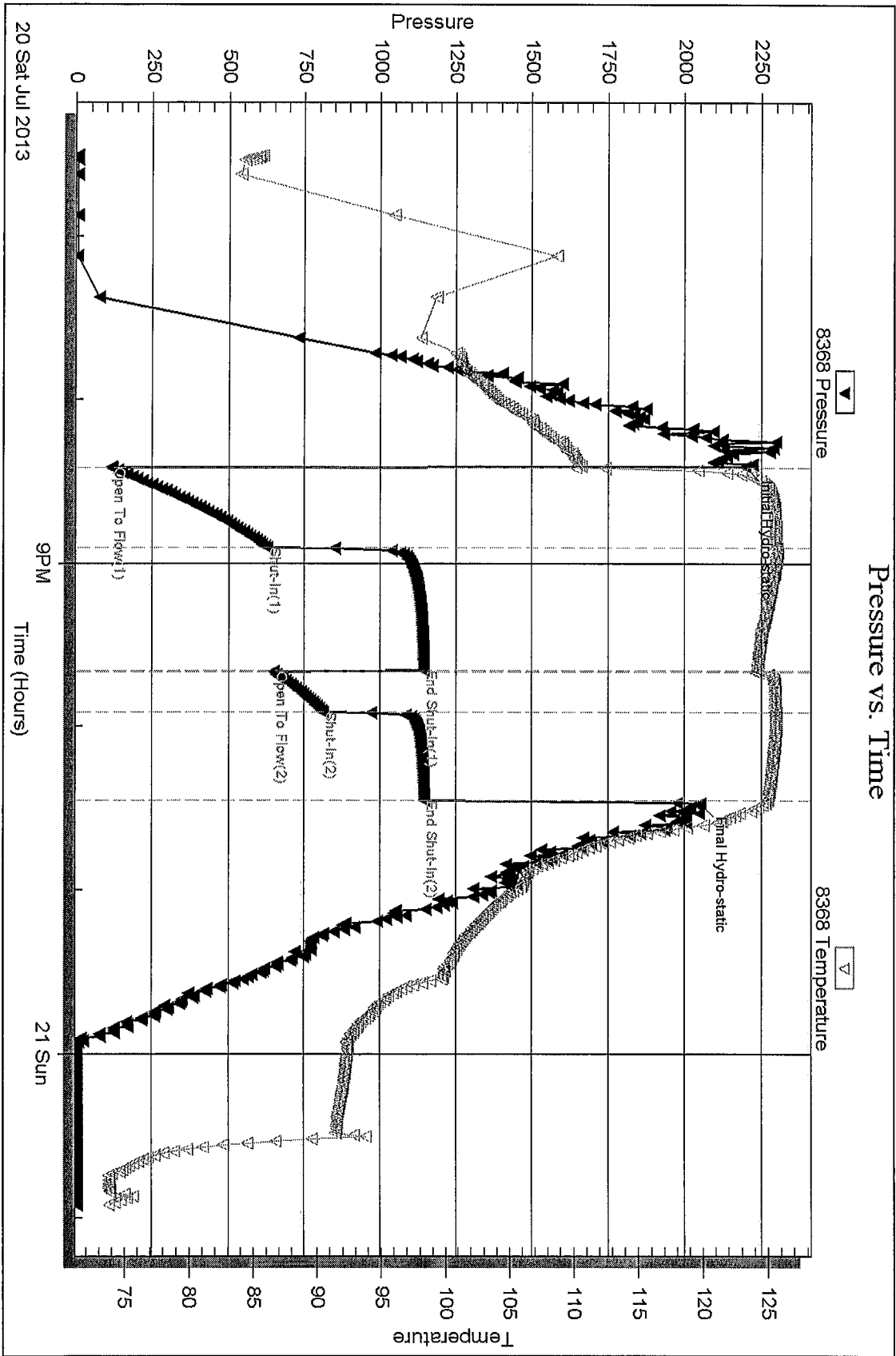
Serial #: 8368

Outside Larjo Oil & Gas

Boulevard #2-21

DST Test Number: 5

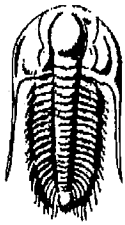
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52833

Printed: 2013.07.22 @ 01:29:11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Lario Oil & Gas

21-18s-34w Scott, Ks

301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

Boulevard #2-21

Job Ticket: 52834

DST#: 6

Test Start: 2013.07.21 @ 07:35:29

GENERAL INFORMATION:

Formation: **K**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 09:47:24
Time Test Ended: 14:03:23

Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55

Interval: **4288.00 ft (KB) To 4310.00 ft (KB) (TVD)**
Total Depth: 4310.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3110.00 ft (KB)
3105.00 ft (CF)
KB to GR/CF: 5.00 ft

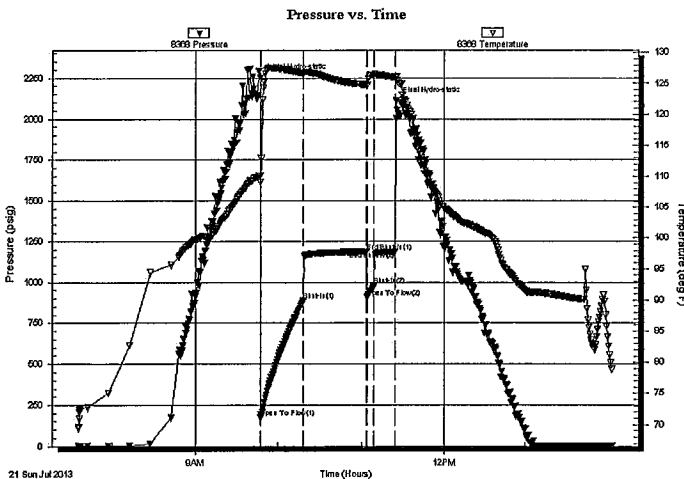
Serial #: 8368

Outside

Press@RunDepth: 978.94 psig @ 4289.00 ft (KB)
Start Date: 2013.07.21 End Date: 2013.07.21
Start Time: 07:35:29 End Time: 14:03:23

Capacity: 8000.00 psig
Last Calib.: 2013.07.21
Time On Btm: 2013.07.21 @ 09:47:09
Time Off Btm: 2013.07.21 @ 11:25:39

TEST COMMENT: B.O.B. in 2 min.
No return
B.O.B. in 3 min
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.26	110.16	Initial Hydro-static
1	173.48	109.14	Open To Flow (1)
31	888.54	126.65	Shut-In(1)
77	1185.11	124.76	End Shut-In(1)
77	905.07	124.60	Open To Flow (2)
82	978.94	126.44	Shut-In(2)
98	1184.28	125.90	End Shut-In(2)
99	2109.50	126.05	Final Hydro-static

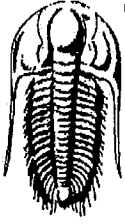
Recovery

Length (ft)	Description	Volume (bbl)
1500.00	water 100w	19.91
300.00	s m c w 10m 90w	4.21
180.00	m c w 30m 70w	2.52

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas
301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

21-18s-34w Scott, Ks
Boulevard #2-21
Job Ticket: 52834 **DST#: 6**
Test Start: 2013.07.21 @ 07:35:29

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 36500 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.38 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 9400.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1500.00	water 100w	19.911
300.00	s m c w 10m 90w	4.208
180.00	m c w 30m 70w	2.525

Total Length: 1980.00 ft Total Volume: 26.644 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw .141 @ 97*f= 36,500

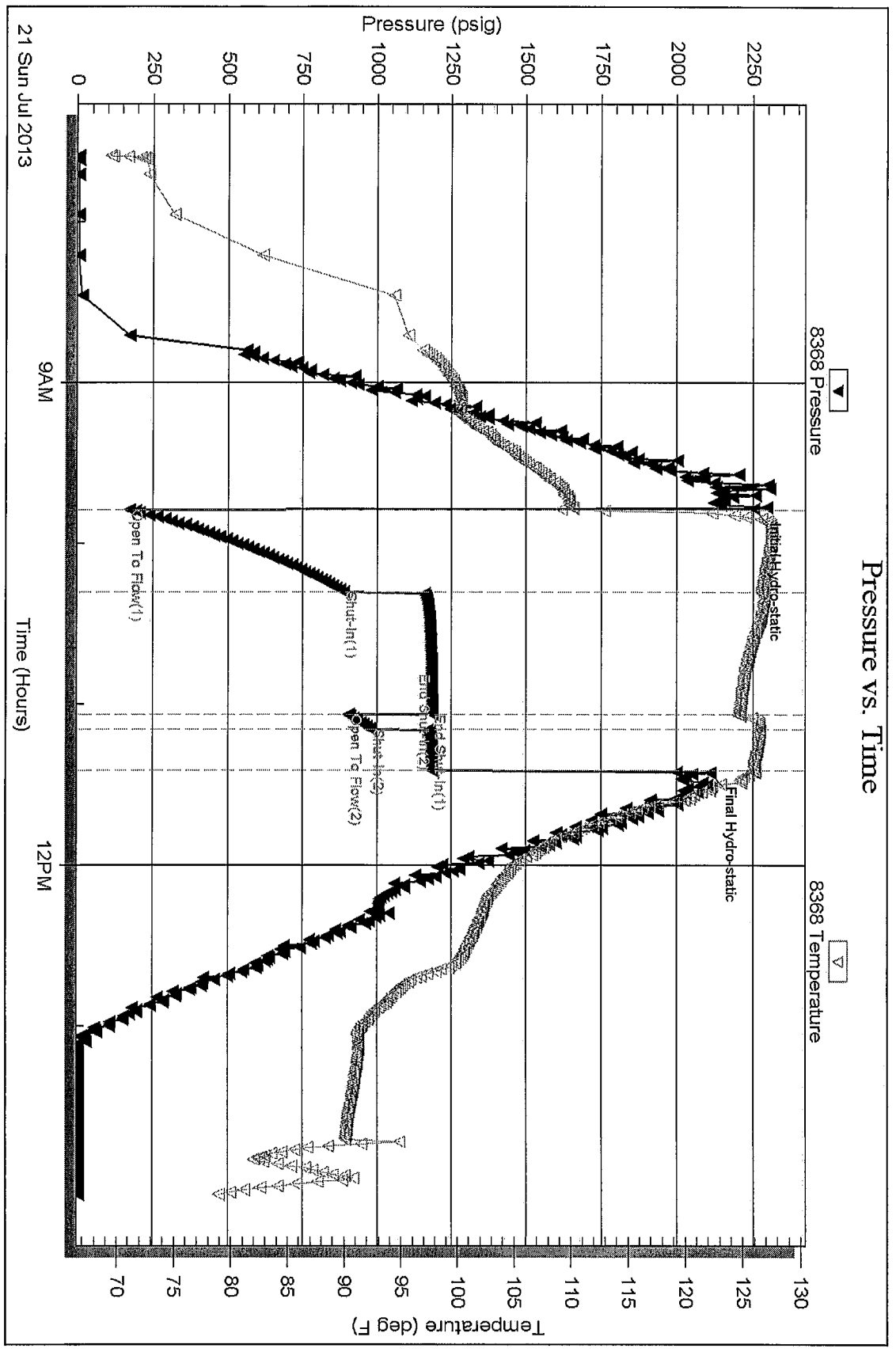
Serial #: 8368

Outside Lario Oil & Gas

Boulevard #2-21

DST Test Number: 6

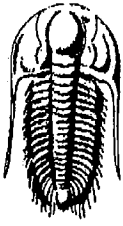
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52834

Printed: 2013.07.22 @ 01:28:23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas
301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

21-18s-34w Scott, Ks

Boulevard #2-21

Job Ticket: 52835

DST#: 7

Test Start: 2013.07.22 @ 00:55:50

GENERAL INFORMATION:

Formation: L
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 03:04:15
Time Test Ended: 08:41:14

Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55

Interval: **4379.00 ft (KB) To 4402.00 ft (KB) (TVD)**
Total Depth: 4402.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3110.00 ft (KB)
3105.00 ft (CF)
KB to GR/CF: 5.00 ft

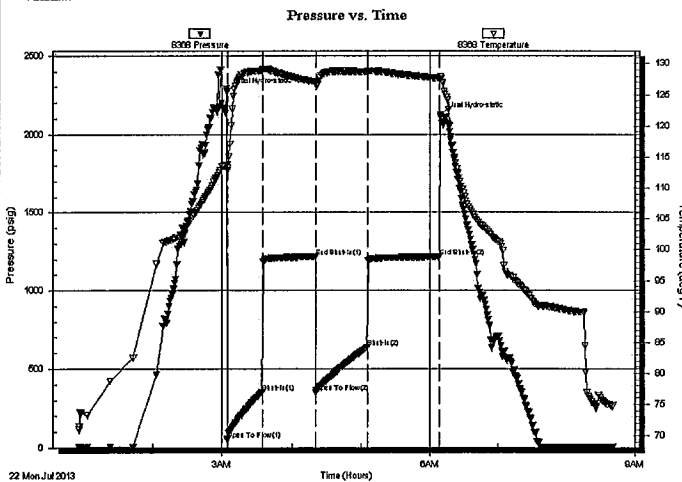
Serial #: 8368

Outside

Press@RunDepth: 635.53 psig @ 4380.00 ft (KB)
Start Date: 2013.07.22 End Date: 2013.07.22
Start Time: 00:55:50 End Time: 08:41:14

Capacity: 8000.00 psig
Last Calib.: 2013.07.22
Time On Btm: 2013.07.22 @ 03:04:00
Time Off Btm: 2013.07.22 @ 06:09:15

TEST COMMENT: B.O.B. in 5 min.
No return
B.O.B. in 10 min
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.98	113.72	Initial Hydro-static
1	53.62	112.85	Open To Flow (1)
31	353.91	128.90	Shut-In(1)
77	1215.98	127.07	End Shut-In(1)
77	348.37	126.55	Open To Flow (2)
122	635.53	128.67	Shut-In(2)
185	1214.85	127.65	End Shut-In(2)
186	2119.31	127.89	Final Hydro-static

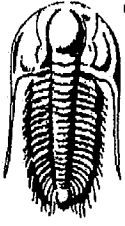
Recovery

Length (ft)	Description	Volume (bbl)
780.00	water w/oil scum 100%w	9.81
300.00	s m c w w/oil scum 5%m 95%w	4.21
220.00	m c w w/oil scum 25%m 75%w	3.09
0.00	2" in of free oil on top 100%o	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
301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

21-18s-34w Scott, Ks
Boulware #2-21
Job Ticket: 52835 **DST#: 7**
Test Start: 2013.07.22 @ 00:55:50

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.14 in ³	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
780.00	water w/oil scum 100%w	9.812
300.00	s m c w w/oil scum 5%m 95%w	4.208
220.00	m c w w/oil scum 25%m 75%w	3.086
0.00	2" in of free oil on top 100%o	0.000

Total Length: 1300.00 ft Total Volume: 17.106 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: rw .182 @ 73*f = 37,000 chlor

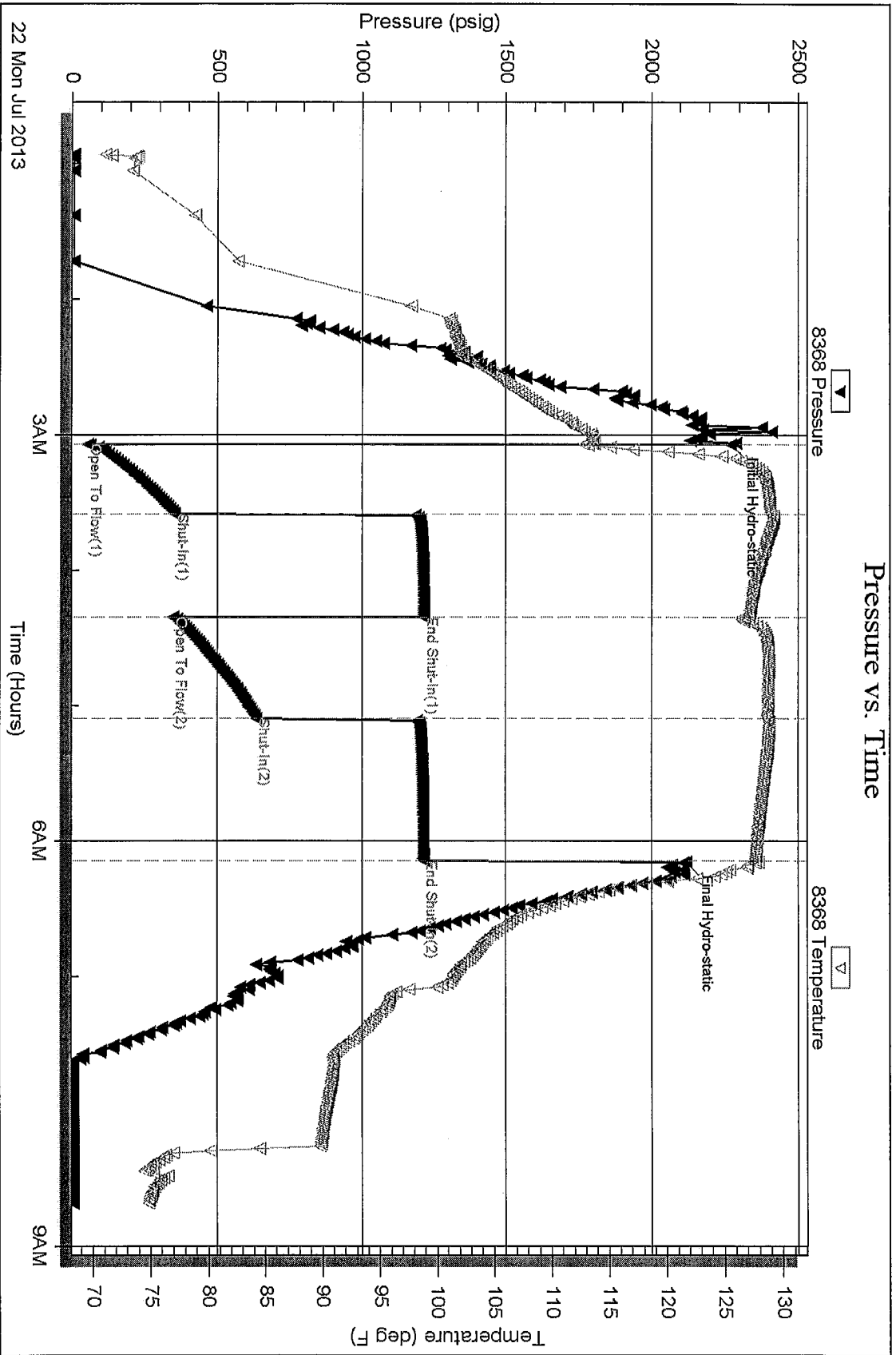
Serial #: 8368

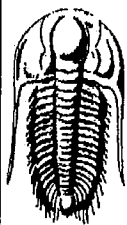
Outside Lario Oil & Gas

Boulevard #2-21

DST Test Number: 7

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas
 301 S Market St
 Wichita, KS
 67202-3805
 ATTN: Brad Rine

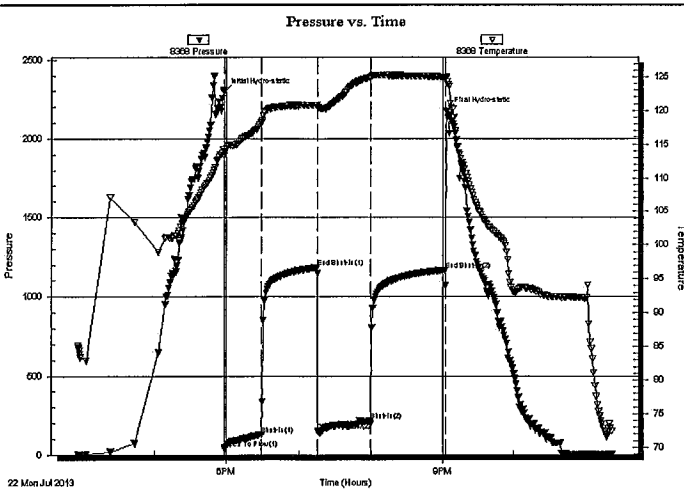
21-18s-34w Scott, Ks
Boulware #2-21
 Job Ticket: 52836 **DST#: 8**
 Test Start: 2013.07.22 @ 15:55:56

GENERAL INFORMATION:

Formation: **Marmaton A**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 17:58:06
 Time Test Ended: 23:23:05
 Interval: **4440.00 ft (KB) To 4468.00 ft (KB) (TVD)**
 Total Depth: 4468.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3110.00 ft (KB)
 3105.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8368 **Outside**
 Press@RunDepth: 217.89 psig @ 4441.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.22 End Date: 2013.07.22 Last Calib.: 2013.07.23
 Start Time: 15:55:56 End Time: 23:23:05 Time On Btm: 2013.07.22 @ 17:57:51
 Time Off Btm: 2013.07.22 @ 21:03:51

TEST COMMENT: B.O.B. in 15 1/2 min.
 No return
 B.O.B. in 17 min.
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.75	114.31	Initial Hydro-static
1	38.30	113.24	Open To Flow (1)
32	128.85	118.24	Shut-In(1)
78	1185.16	120.84	End Shut-In(1)
78	151.53	120.44	Open To Flow (2)
122	217.89	124.90	Shut-In(2)
185	1169.47	125.00	End Shut-In(2)
186	2178.57	124.31	Final Hydro-static

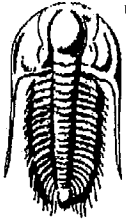
Recovery

Length (ft)	Description	Volume (bbl)
60.00	g w & o c m 20g 10w 30o 40m	0.30
180.00	m c g o 20g 30m 50o	1.94
180.00	s m c g o 10m 25g 65o	2.52
20.00	c g o 5g 95o	0.28
0.00	160' weak 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

21-18s-34w Scott, Ks

301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

Boulware #2-21

Job Ticket: 52836

DST#: 8

Test Start: 2013.07.22 @ 15:55:56

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.36 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 9400.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	g w & o c m 20g 10w 30o 40m	0.295
180.00	m c g o 20g 30m 50o	1.942
180.00	s m c g o 10m 25g 65o	2.525
20.00	c g o 5g 95o	0.281
0.00	160' weak gas in pipe	0.000

Total Length: 440.00 ft Total Volume: 5.043 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

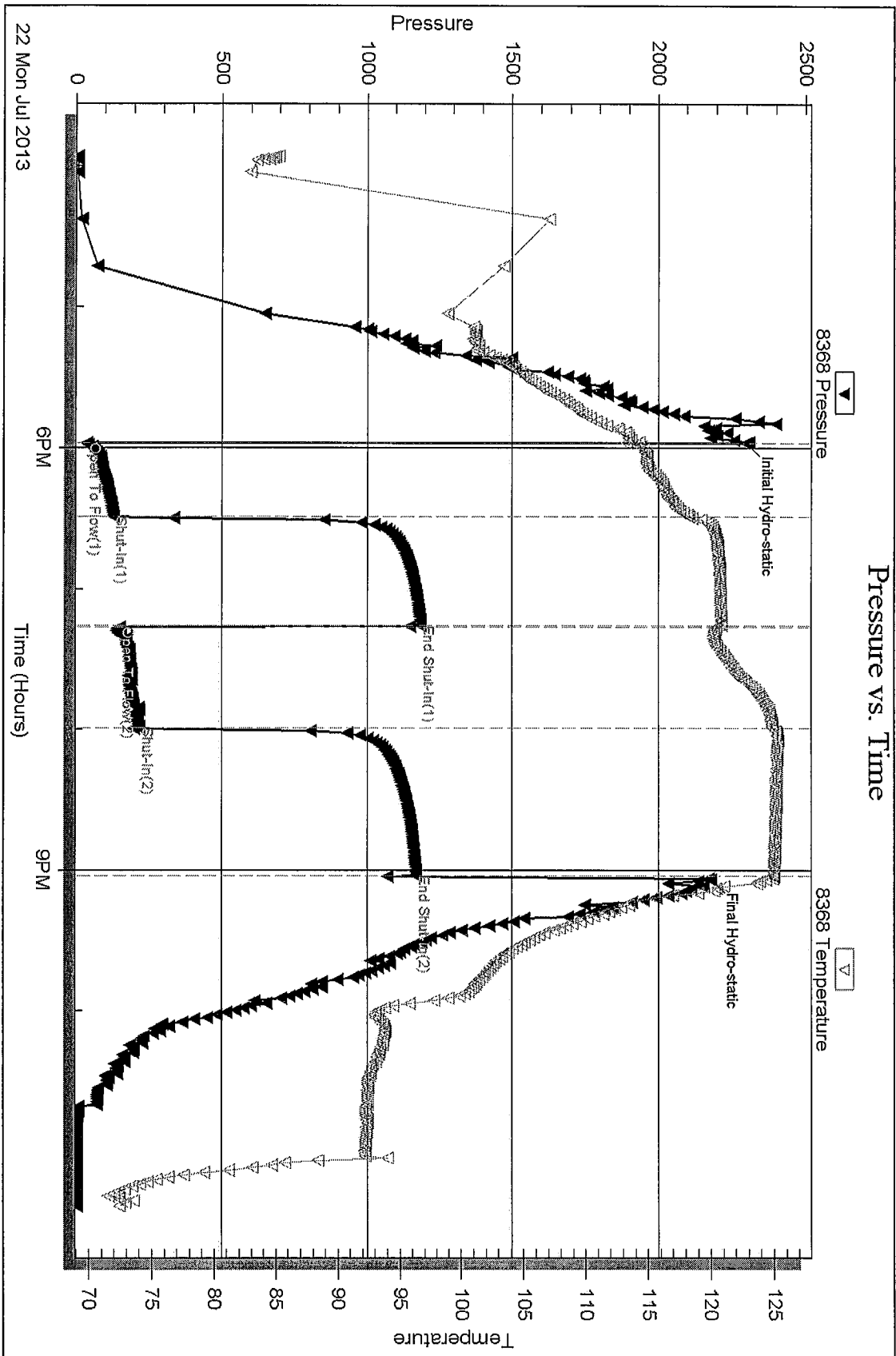
Serial #: 8368

Outside Lario Oil & Gas

Boullw are #2-21

DST Test Number: 8

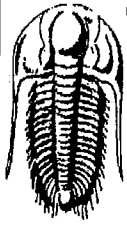
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 52836

Printed: 2013.07.23 @ 06:57:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas
301 S Market St
Wichita, Ks
67202-3805
ATTN: Brad Rine

21-18s-34w Scott, Ks
Boulware #2-21
Job Ticket: 52837 **DST#: 9**
Test Start: 2013.07.24 @ 18:05:54

GENERAL INFORMATION:

Formation: **Miss - St Louis**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 20:10:04
Time Test Ended: 01:38:18
Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55
Interval: **4866.00 ft (KB) To 4910.00 ft (KB) (TVD)**
Total Depth: 4910.00 ft (KB) (TVD)
Reference Elevations: 3110.00 ft (KB)
3105.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 5.00 ft

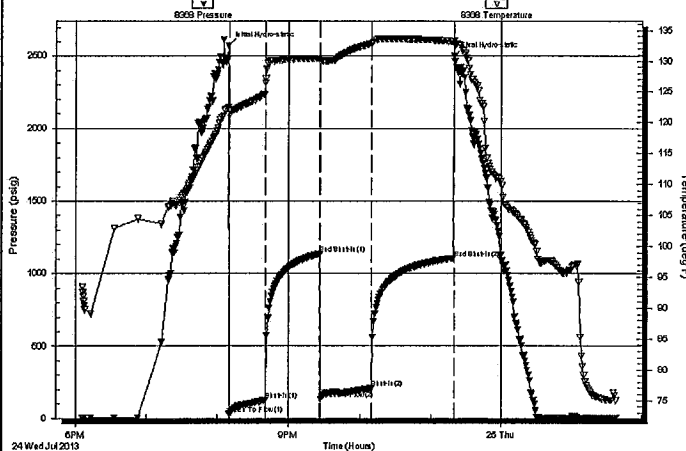
Serial #: 8368

Outside

Press@RunDepth: 209.63 psig @ 4867.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.07.24 End Date: 2013.07.25 Last Calib.: 2013.07.25
Start Time: 18:05:54 End Time: 01:38:18 Time On Btm: 2013.07.24 @ 20:09:34
Time Off Btm: 2013.07.24 @ 23:20:19

TEST COMMENT: 9 1/4" blow
No return
8 1/4" blow
No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2573.23	122.45	Initial Hydro-static
1	32.92	121.23	Open To Flow (1)
32	128.71	127.18	Shut-In(1)
77	1136.83	130.42	End Shut-In(1)
77	136.48	129.85	Open To Flow (2)
121	209.63	132.84	Shut-In(2)
191	1107.71	133.17	End Shut-In(2)
191	2501.17	133.19	Final Hydro-static

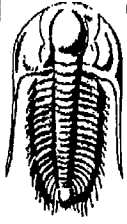
Recovery

Length (ft)	Description	Volume (bbl)
120.00	s m c w 10m 90w	0.59
120.00	m c w 25m 75w	1.65
135.00	m c w 45m 55w	1.89

* 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

21-18s-34w Scott, Ks

301 S Market St

Boulware #2-21

Wichita, Ks

Job Ticket: 52837

DST#: 9

67202-3805

Test Start: 2013.07.24 @ 18:05:54

ATTN: Brad Rine

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:

22500 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	s m c w 10m 90w	0.590
120.00	m c w 25m 75w	1.647
135.00	m c w 45m 55w	1.894

Total Length: 375.00 ft Total Volume: 4.131 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .275 @ 75*f= 22,500 chlor

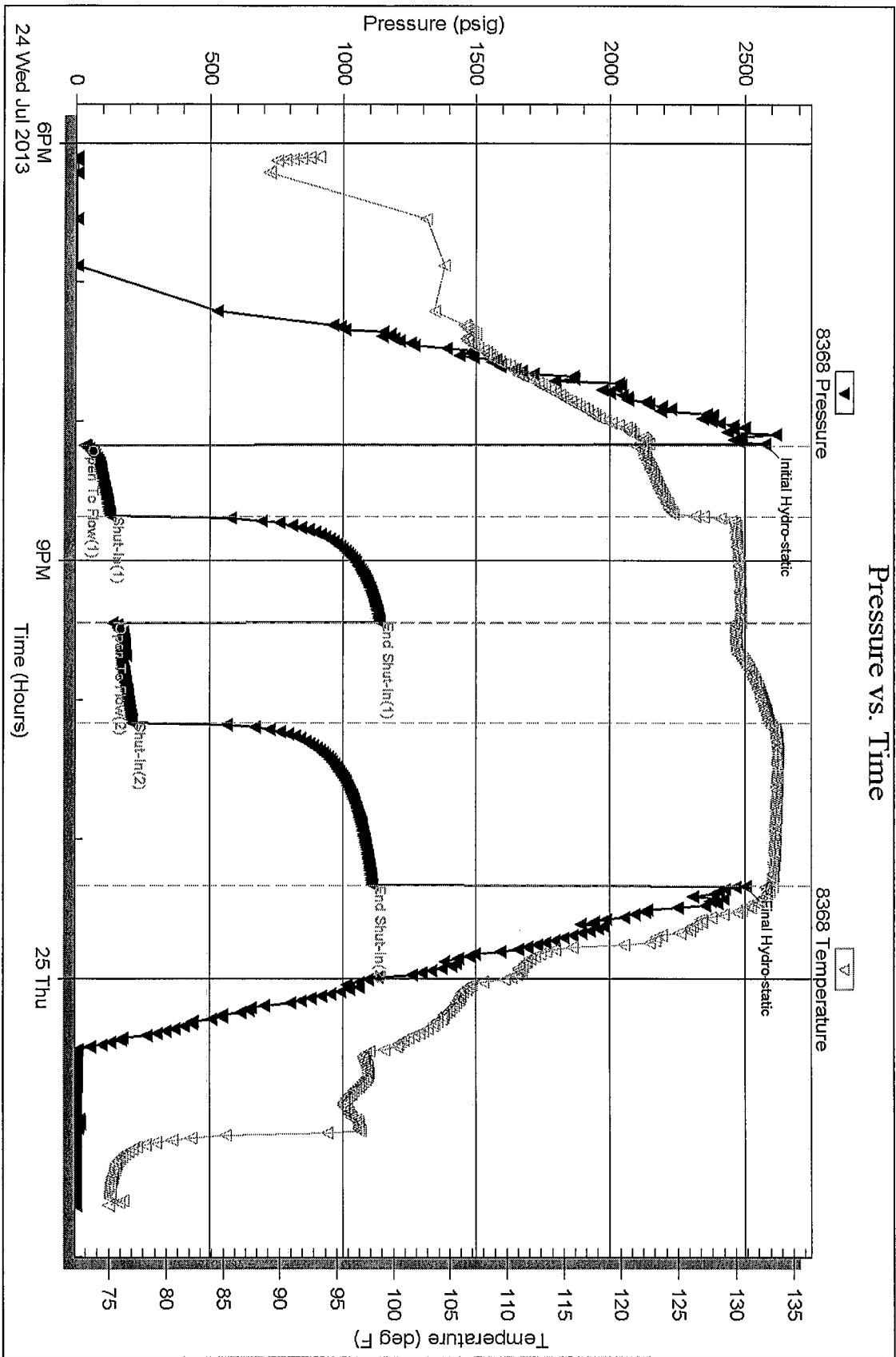
Serial #: 8368

Outside Lario Oil & Gas

Bowlw are #2-21

DST Test Number: 9

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 52837

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