



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1172750
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
-----------------------------------	-----------------	---

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: _____

1172750

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Rose B Unit 1-4
Doc ID	1172750

Tops

Name	Top	Datum
Heebner	3698	-935
Lansing	3738	-975
Stark Shale	3997	-1234
Hushpuckney	4031	-1268
Base KC	4083	-1320
Marmaton	4121	-1358
Pawnee	4199	-1436
Ft. Scott	4228	-1465
Johnson	4322	-1559
Basal Penn	4376	-1613
Mississippian	4398	-1635



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 140263
Invoice Date: Dec 9, 2013
Page: 1

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

*Rose B Unit #1-4
Drilling AFE-13-
CK 12/23/13-363*

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

Customer ID	Field Ticket #	Payment Terms	
Lario	62183	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Dec 9, 2013	1/8/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Rose B Unit #1-4		
155.00	CEMENT MATERIALS	Class A Common	17.90	2,774.50
5.00	CEMENT MATERIALS	Chloride	64.00	320.00
162.75	CEMENT SERVICE	Cubic Feet Charge	2.48	403.62
187.58	CEMENT SERVICE	Ton Mileage Charge	2.60	487.71
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
25.00	CEMENT SERVICE	Pump Truck Mileage	7.70	192.50
25.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	110.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	OPERATOR ASSISTANT	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Mike McKampson		

Surf Csg Cont

Acct	Expt	File	OK TO PAY
GC			
KG			DB
HY			MM
PV			DM
OD			

DEC 26 2013

Subtotal	5,800.58
Sales Tax	236.73
Total Invoice Amount	6,037.31
Payment/Credit Applied	
TOTAL	6,037.31

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

\$ 1,624.16

ONLY IF PAID ON OR BEFORE
Jan 3, 2014

BID SHEET



Date	12/9/13
Service Point:	Oakley
Manager	Terry Heinrich
Address	P.O. Box 27
	Oakley, KS 67748
Business Phone	785-672-3452
E-mail	terry.heinrich@allied.com
Mobile	785-673-9376

Company		Prepared For:		Well Data	
Company	Larfo Oil & Gas Company	Prepared For:	Jay Schweikert	Open Hole	12 1/4
Address	301 S. Market	Title:	Opers. Eng.	Depth	220
Address	Wichita Kansas, 67202	Business Phone:	316-765-5611	I.D.	32.25
Well Name	Rose B	E-mail:	heinrich@larfo.com	Job Excess	100
Lease	Unit # 1-4	Mobile Phone:		Depth	220
Field		Prepared By:	Ifeal Rupp	O.D.	8.6875
County	Logan	Title:	Sales & Field Operation Manage	I.D.	7.825
State	Kansas	Business Phone:	316-260-3168	Casing Weight	24
Section	4	E-mail:	ifeal.rupp@alliedservices.com	Thread	5TC
Township	15S	Mobile Phone:	316-250-7057	Grade	J-55
Range	32W	Rig Contractor	WW		
API Number		Rig Name	# 2		
Proposal Title:	Surface Casing	Rig Phone			

	Units	UDM	Cost per Unit	Total	Unit	
					Net	Net
CIMH - Casing Pump Charge 0 to 300'	1.00	(for 6 hours)	\$1,512.25	\$ 1,512.25	\$ 1,088.82	\$1,088.82
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 1,512.25		\$1,088.82
Wooden Plug	1.00	Each	\$67.50	\$ 67.50	\$ 67.50	\$67.50
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 67.50		\$67.50
CAC - CLASS A COMMON	140.00	per sack	\$17.90	\$ 2,506.00	\$ 12.89	\$1,804.32
CAC - Calcium Chloride	5.00	per sack	\$64.00	\$ 320.00	\$ 46.08	\$230.40
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 2,826.00		\$2,034.72
HDLG - Products handling service charge	147.00	per cu. ft.	\$2.48	\$ 364.56	\$ 1.79	\$262.48
DRVG - Drayage for products	170.00	ton mile	\$2.60	\$ 442.00	\$ 1.87	\$318.24
MILV - Light Vehicle Mileage	25.00	per mile	\$4.40	\$ 110.00	\$ 3.17	\$79.20
MHW - Heavy Vehicle Mileage	25.00	per mile	\$7.70	\$ 192.50	\$ 5.54	\$138.60
Subtotal				\$ 1,109.06		\$798.52
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ -		\$0.00
Totals:				\$ 5,514.81		\$3,989.56
DISCOUNT: Operations			28.0%	(423.43)		
DISCOUNT: Equipment Sales			0.0%	0.00		
DISCOUNT: Products			28.0%	(791.28)		
DISCOUNT: Transport			28.0%	(310.54)		
DISCOUNT: OTHER			28.0%	0.00		
			Total	(1,525.25)		



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 140429
Invoice Date: Dec 19, 2013
Page: 1

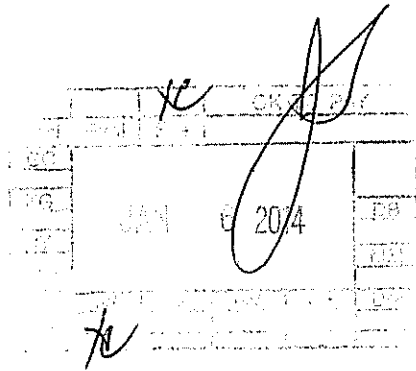
Voice: (817) 546-7282
Fax: (817) 246-3361

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

AFE 13-363
drilling P2A
1-3-13 LK

Customer ID	Field Ticket #	Payment Terms	
Lario	62191	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Dec 19, 2013	1/18/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Rose B Unit #1-4		
132.00	CEMENT MATERIALS	Class A Common	17.90	2,362.80
88.00	CEMENT MATERIALS	Pozmix	9.35	822.80
8.00	CEMENT MATERIALS	Gel	23.40	187.20
55.00	CEMENT MATERIALS	Flo Seal	2.97	163.35
236.27	CEMENT SERVICE	Cubic Feet Charge	2.48	585.95
246.50	CEMENT SERVICE	Ton Mileage Charge	2.60	640.90
1.00	CEMENT SERVICE	Rotary Plug	2,483.59	2,483.59
25.00	CEMENT SERVICE	Pump Truck Mileage	7.70	192.50
25.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	110.00
1.00	EQUIPMENT SALES	8-5/8 Wooden plug	107.64	107.64
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	OPERATOR ASSISTANT	Kevin Ryan		



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

\$ 2,113.74

ONLY IF PAID ON OR BEFORE
Jan 13, 2014

Subtotal	7,656.73
Sales Tax	585.74
Total Invoice Amount	8,242.47
Payment/Credit Applied	
TOTAL	8,242.47

ALLIED OIL & GAS SERVICES, LLC 062191

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Dahlge, TX

DATE <u>12/19/13</u>	SEC. <u>35</u>	TWP. <u>12</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00 AM</u>	JOB FINISH <u>5:00 PM</u>
LEASE <u>Rose B unit</u>	WELL # <u>144</u>	LOCATION <u>Dahlge 235 1 W 5100</u>			COUNTY <u>Logan</u>	STATE <u>TX</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Wor 2
 TYPE OF JOB PTA Rotary
 HOLE SIZE 7 7/8" T.D.
 CASING SIZE 7 7/8" DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

OWNER Sam
 CEMENT
 AMOUNT ORDERED 220 60/40 40/20
14 FLO

EQUIPMENT

PUMP TRUCK CEMENTER Alan Ryan
 # 462 HELPER Kevin Ryan
 BULK TRUCK
 # 396 DRIVER Tuan T (TWS)
 BULK TRUCK
 # DRIVER

COMMON	<u>132</u>	@ <u>17.90</u>	<u>2362.80</u>
POZMIX	<u>88</u>	@	<u>882.80</u>
GEL	<u>8</u>	@	<u>187.20</u>
CHLORIDE		@	
ASC		@	
	<u>Flo Seal 55 68</u>	@ <u>2.97</u>	<u>163.35</u>
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>236.27</u>	@ <u>2.47</u>	<u>585.97</u>
MILEAGE	<u>2.25</u>	@ <u>201.46</u>	<u>453.28</u>
			<u>86 x 25</u>
TOTAL			<u>4762.99</u>

REMARKS:

251K @ 200 FT
1003K @ 1025 FT
405K @ 300 FT
103K @ 4040 FT
305K -AH
153K -MH
Tuan T
Alan Ryan

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>2483.59</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>25</u>	@ <u>7.50</u>	<u>187.50</u>
MANIFOLD	@		
<u>ET Vehicle 25</u>	@ <u>4.40</u>		<u>110.00</u>
	@		

TOTAL 2786.09

CHARGE TO: Logan Oil Gas
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>Pilgrimage Plug</u>	@		<u>107.04</u>
	@		
	@		
	@		
	@		

TOTAL 107.04

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 7656.72
 DISCOUNT 2113.74 IF PAID IN 30 DAYS
5542.97 Net.

PRINTED NAME Walter Brown
 SIGNATURE Walter Brown



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

ATTN: Steve Davis

Job Ticket: 54713

DST#: 1

Test Start: 2013.12.13 @ 13:01:15

GENERAL INFORMATION:

Formation: **Lansing "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:50:00

Time Test Ended: 19:24:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 65

Interval: 3755.00 ft (KB) To 3780.00 ft (KB) (TVD)

Total Depth: 3755.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2760.00 ft (KB)

2755.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8846

Press@RunDepth: 16.03 psig @ ft (KB)

Start Date: 2013.12.13

End Date:

2013.12.13

Start Time: 13:01:15

End Time:

19:24:45

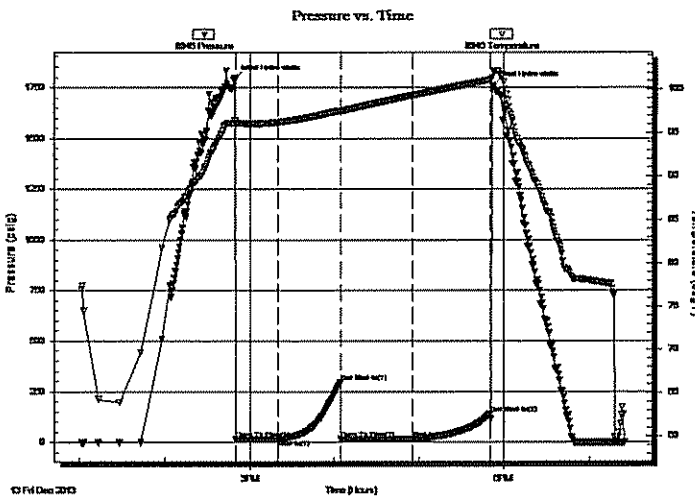
Capacity: 8000.00 psig

Last Calib.: 2013.12.13

Time On Btm: 2013.12.13 @ 14:49:45

Time Off Btm: 2013.12.13 @ 17:52:15

TEST COMMENT: IF: Built to weak surface blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.77	96.50	Initial Hydro-static
1	13.47	96.15	Open To Flow (1)
31	15.20	96.26	Shut-In(1)
75	297.01	97.64	End Shut-In(1)
75	15.27	97.48	Open To Flow (2)
126	16.03	99.35	Shut-In(2)
181	140.17	101.13	End Shut-In(2)
183	1759.50	102.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud with oil spots	0.02

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54713

DST#: 1

ATTN: Steve Davis

Test Start: 2013.12.13 @ 13:01:15

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: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud with oil spots	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbf

Num Fluid Samples: 0

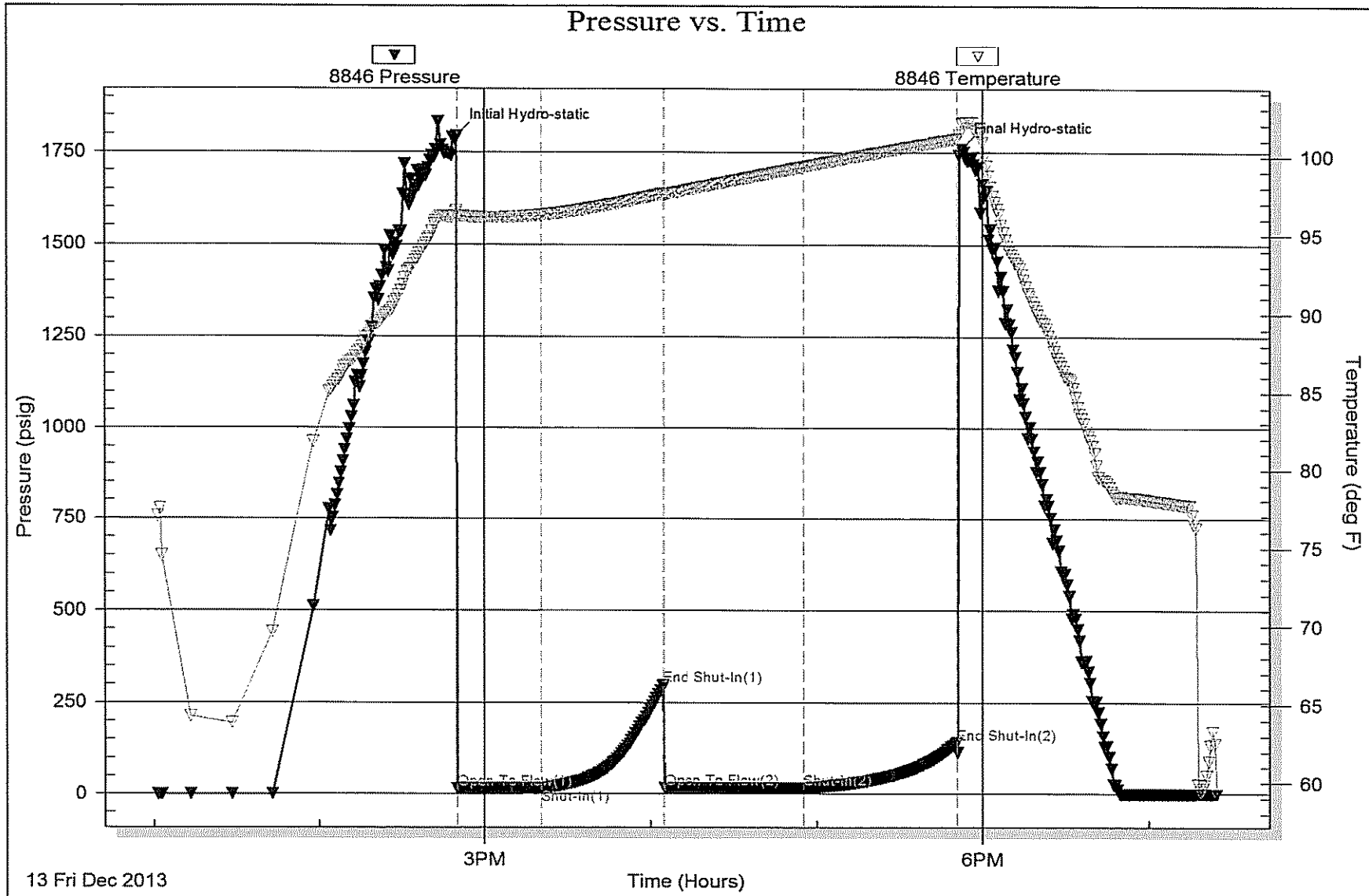
Num Gas Bombs: 0

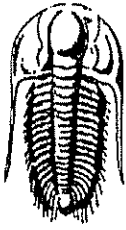
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54714

DST#: 2

ATTN: Steve Davis

Test Start: 2013.12.14 @ 03:10:15

GENERAL INFORMATION:

Formation: **Lansing D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:49:15

Time Test Ended: 09:24:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: 3810.00 ft (KB) To 3832.00 ft (KB) (TVD)

Total Depth: 3810.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2760.00 ft (KB)

2755.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8846

Outside

Press@RunDepth: 14.85 psig @ 3811.00 ft (KB)

Start Date: 2013.12.14

End Date:

2013.12.14

Capacity: 8000.00 psig

Last Calib.: 2013.12.14

Start Time: 03:10:15

End Time:

09:24:00

Time On Btm: 2013.12.14 @ 04:49:00

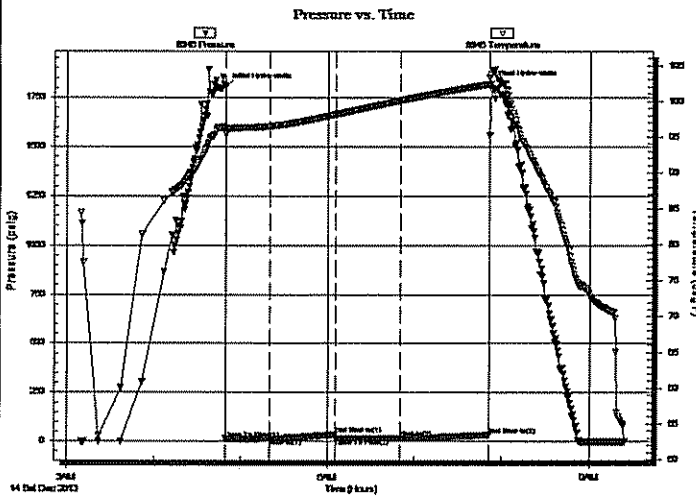
Time Off Btm: 2013.12.14 @ 07:52:15

TEST COMMENT: IF: Built to weak surface blow and died in 28 min.

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1806.07	96.30	Initial Hydro-static
1	12.93	95.31	Open To Flow (1)
31	14.41	96.51	Shut-In(1)
76	35.30	98.14	End Shut-In(1)
76	14.67	98.13	Open To Flow (2)
121	14.85	100.09	Shut-In(2)
183	32.38	102.40	End Shut-In(2)
184	1817.63	103.71	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54714

DST#: 2

ATTN: Steve Davis

Test Start: 2013.12.14 @ 03:10:15

GENERAL INFORMATION:

Formation: **Lansing D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:49:15

Time Test Ended: 09:24:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: **3810.00 ft (KB) To 3832.00 ft (KB) (TVD)**

Reference Elevations: 2760.00 ft (KB)

Total Depth: 3810.00 ft (KB) (TVD)

2755.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8737

Inside

Press@RunDepth: psig @ 3811.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.14

End Date:

2013.12.14

Last Calib.:

2013.12.14

Start Time: 03:10:15

End Time:

09:24:00

Time On Btm:

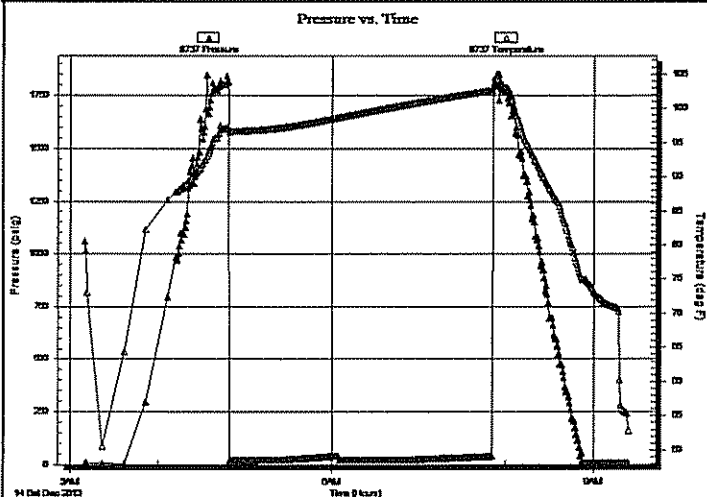
Time Off Btm:

TEST COMMENT: IF:Built to weak surface blow and died in 28 min.

IS:No return blow

FF:No blow

FS:No return blow



PRESSURE SUMMARY

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

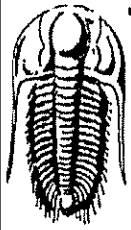
Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54714

DST#: 2

ATTN: Steve Davis

Test Start: 2013.12.14 @ 03:10:15

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: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud 100% _m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

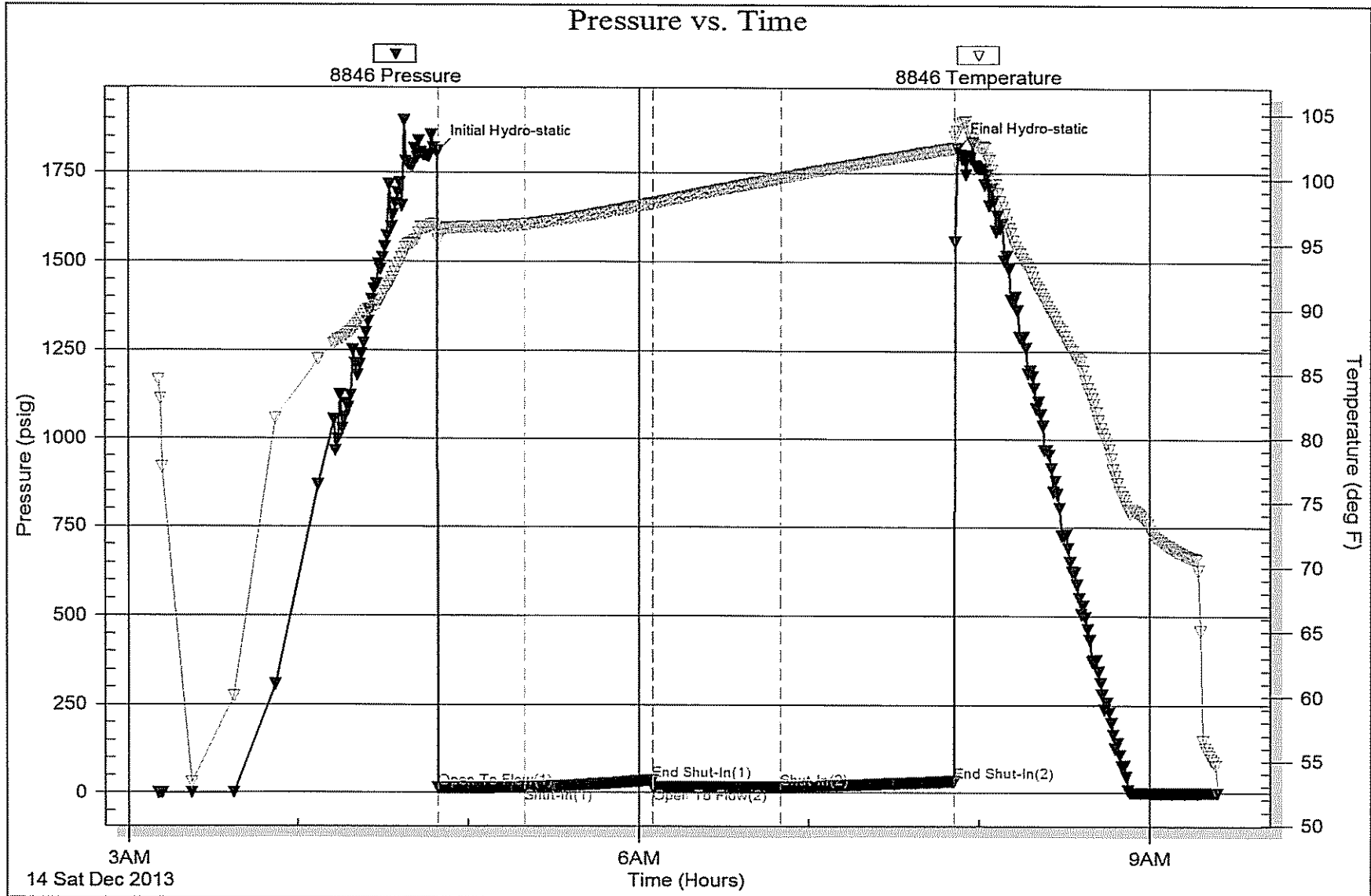
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



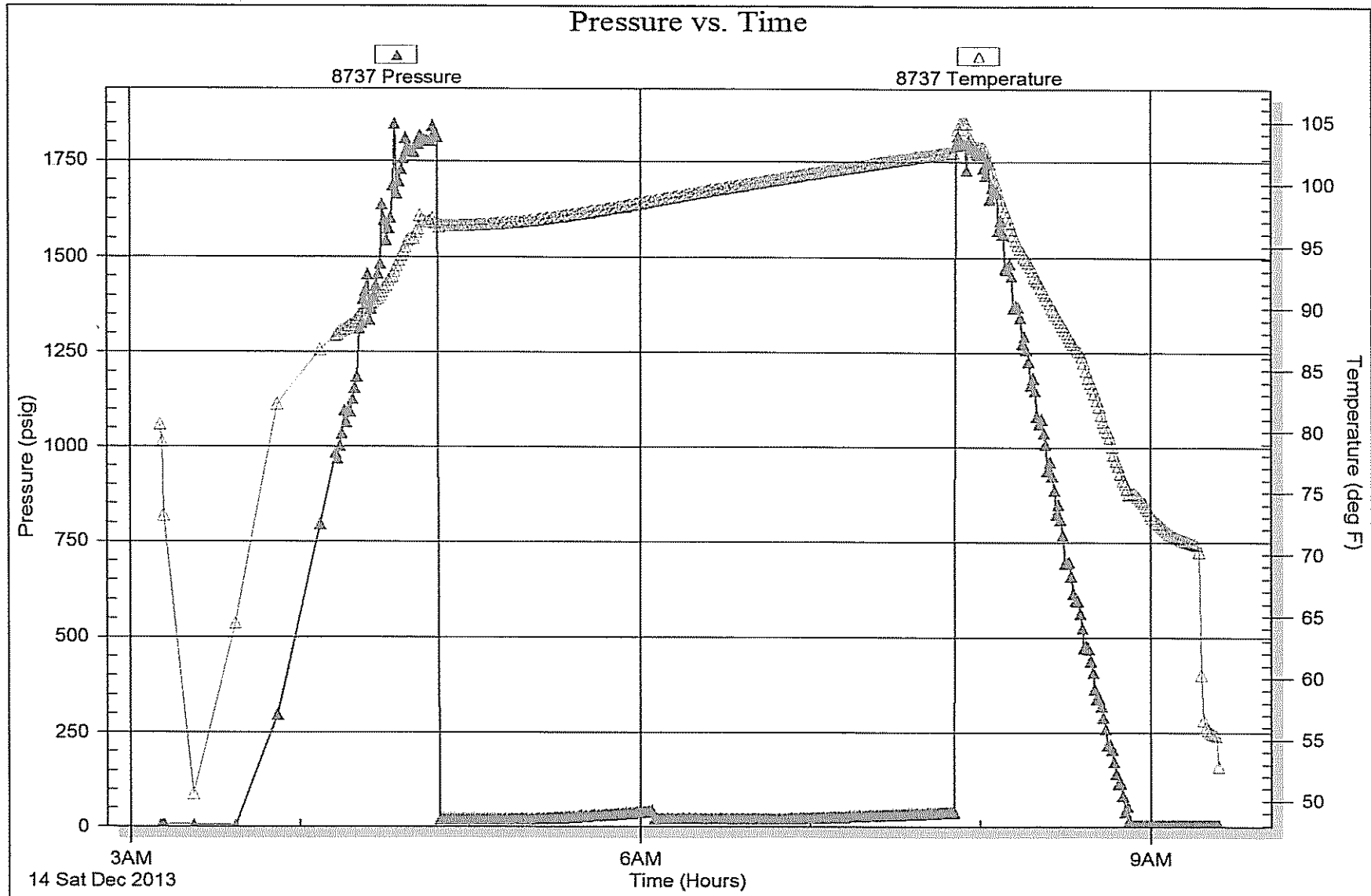
Serial #: 8737

Inside

Lario Oil Company

Rose B Unit 1-4

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54715

DST#: 3

ATTN: Steve Davis

Test Start: 2013.12.14 @ 23:56:15

GENERAL INFORMATION:

Formation: **Lansing I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:52:15

Time Test Ended: 06:48:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: 3925.00 ft (KB) To 3980.00 ft (KB) (TVD)

Total Depth: 3980.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2760.00 ft (KB)

2755.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8846

Inside

Press@RunDepth: 126.07 psig @ 3930.00 ft (KB)

Start Date: 2013.12.14

End Date:

2013.12.15

Capacity: 8000.00 psig

Last Calib.: 2013.12.15

Start Time: 23:56:15

End Time:

06:48:15

Time On Btm: 2013.12.15 @ 01:51:45

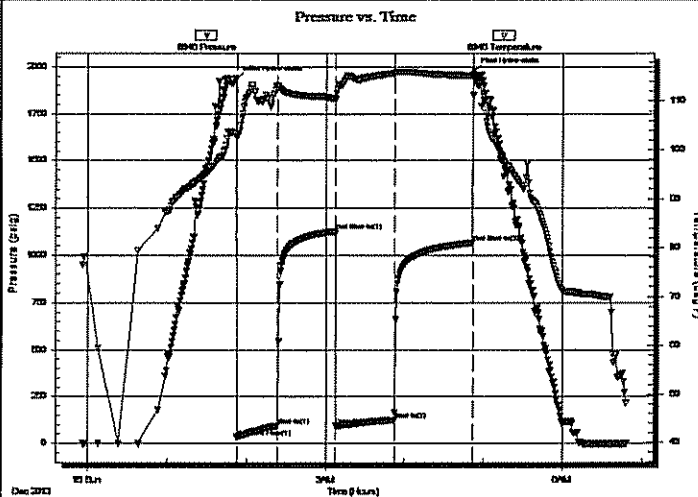
Time Off Btm: 2013.12.15 @ 04:53:00

TEST COMMENT: IF:Built to 4 1/2" blow

IS:No return blow

FF:Built to 5" blow

FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1933.32	103.16	Initial Hydro-static
1	33.34	102.76	Open To Flow (1)
32	92.32	113.21	Shut-In(1)
76	1127.58	110.52	End Shut-In(1)
76	94.62	110.38	Open To Flow (2)
121	126.07	115.77	Shut-In(2)
181	1066.43	115.23	End Shut-In(2)
182	1974.05	115.05	Final Hydro-static

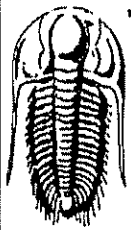
Recovery

Length (ft)	Description	Volume (bbl)
195.00	mud with oil spots	1.61

* 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 Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54715

DST#: 3

ATTN: Steve Davis

Test Start: 2013.12.14 @ 23:56:15

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: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
195.00	mud with oil spots	1.615

Total Length: 195.00 ft Total Volume: 1.615 bbl

Num Fluid Samples: 0

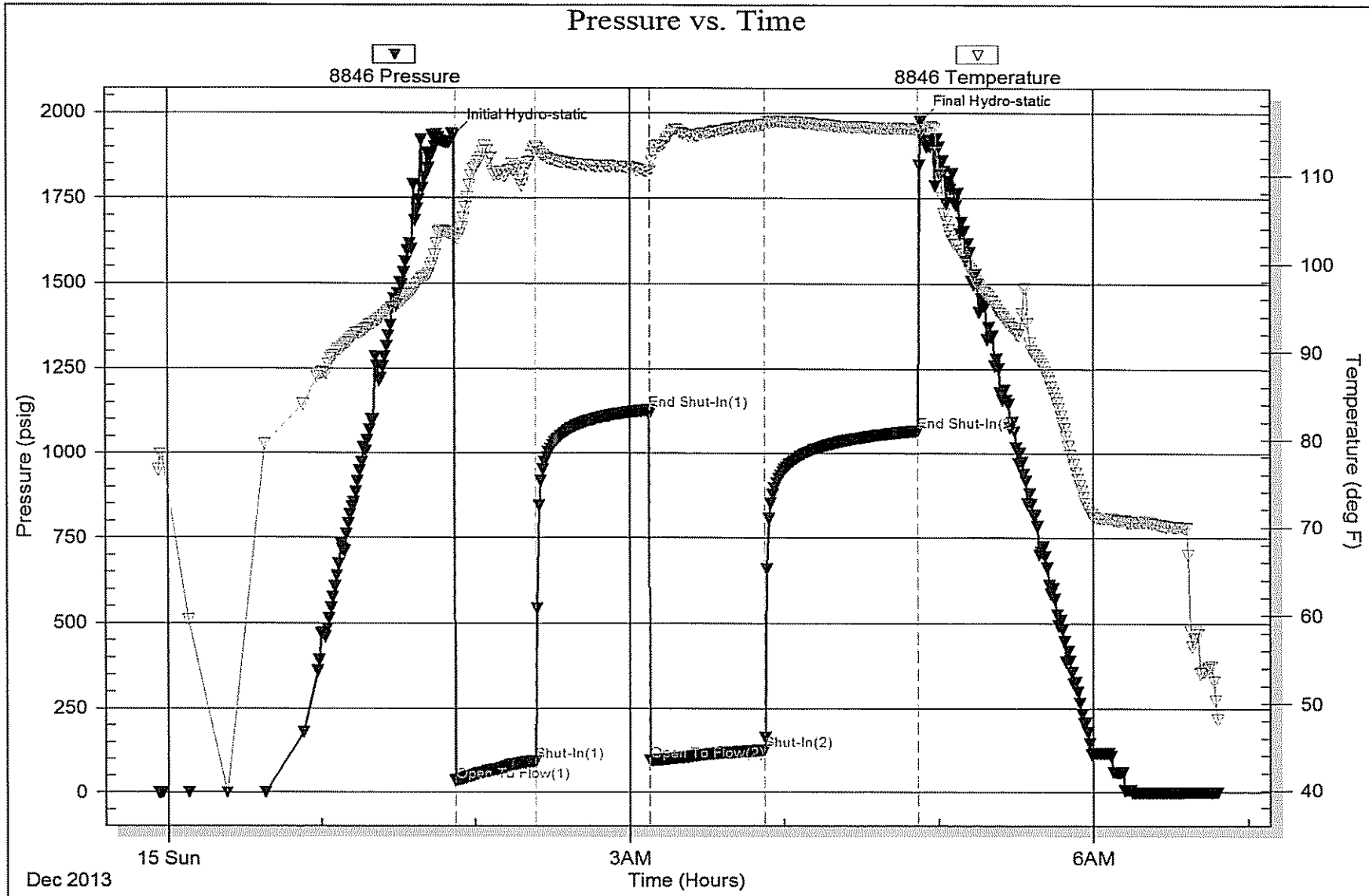
Num Gas Bombs: 0

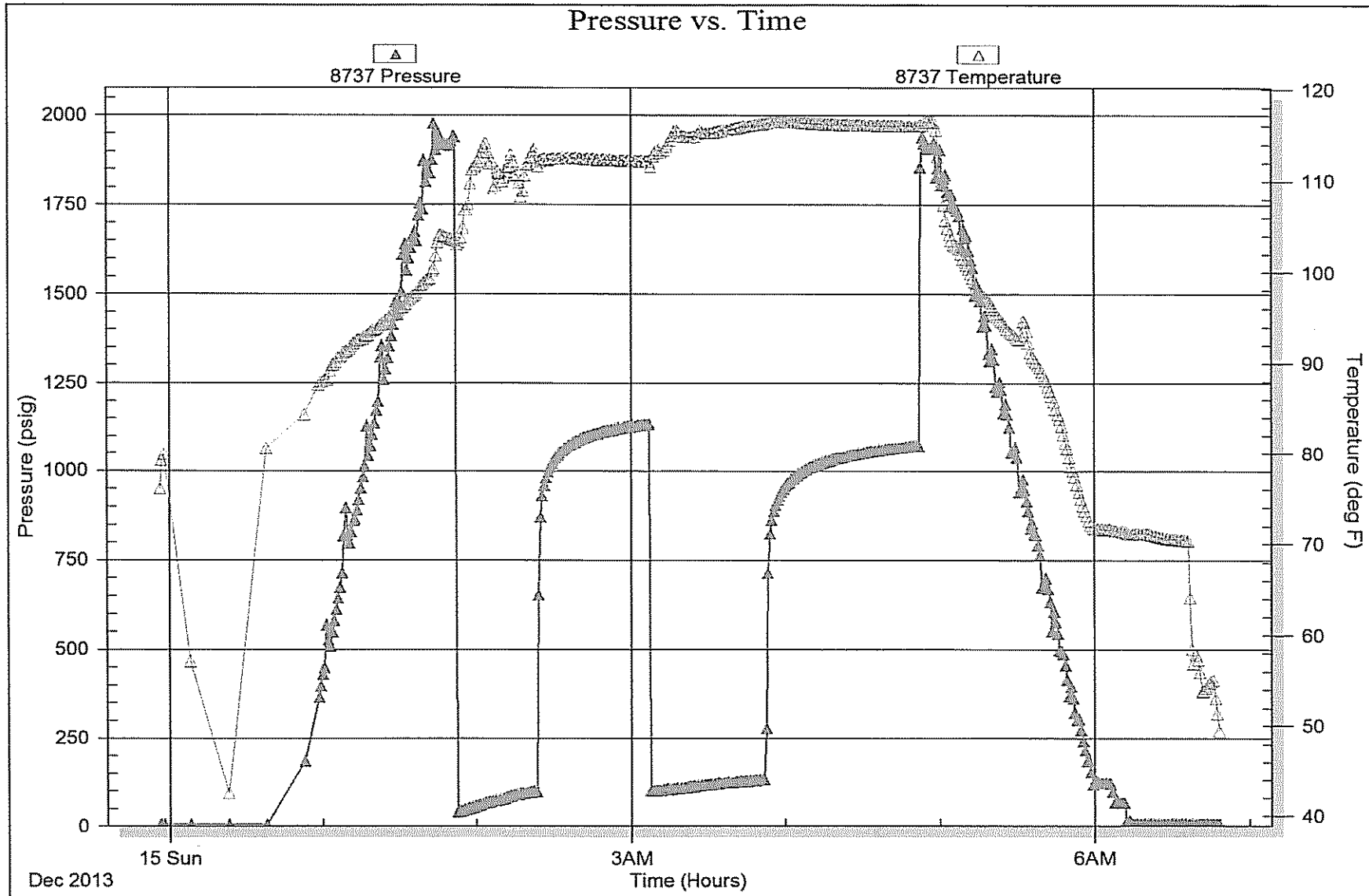
Serial #:

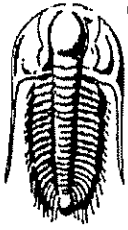
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

ATTN: Steve Davis

Job Ticket: 54716

DST#: 4

Test Start: 2013.12.15 @ 23:36:00

GENERAL INFORMATION:

Formation: **Marmaton A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 03:12:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: 4083.00 ft (KB) To 4145.00 ft (KB) (TVD)

Total Depth: 4145.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2760.00 ft (KB)

2755.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 4084.00 ft (KB)

Start Date: 2013.12.15

End Date:

2013.12.16

Capacity: 8000.00 psig

Last Calib.: 2013.12.16

Start Time: 23:36:15

End Time:

03:12:30

Time On Btm: 2013.12.16 @ 01:17:00

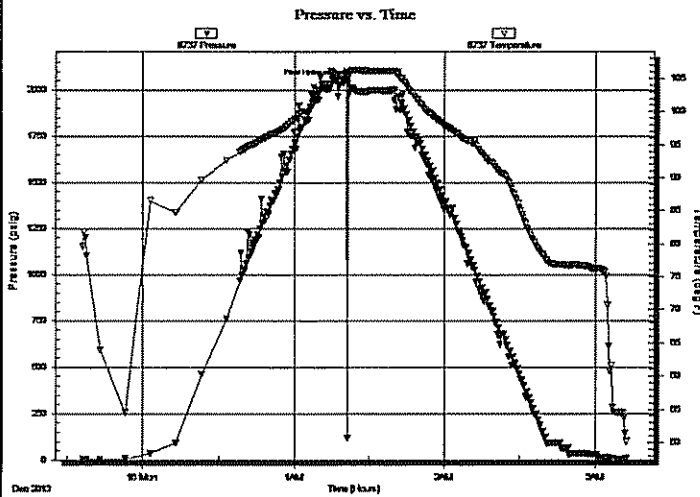
Time Off Btm: 2013.12.16 @ 01:21:30

TEST COMMENT: IF:PACKER FAILURE

IS:

FF:

FS:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.58	105.06	Initial Hydro-static
5	2035.30	105.99	Final Hydro-static

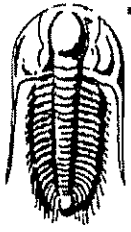
Recovery

Length (ft)	Description	Volume (bbl)
123.00	mud 100% m	0.60

* 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 Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54716

DST#: 4

ATTN: Steve Davis

Test Start: 2013.12.15 @ 23:36:00

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:	59.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.98 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

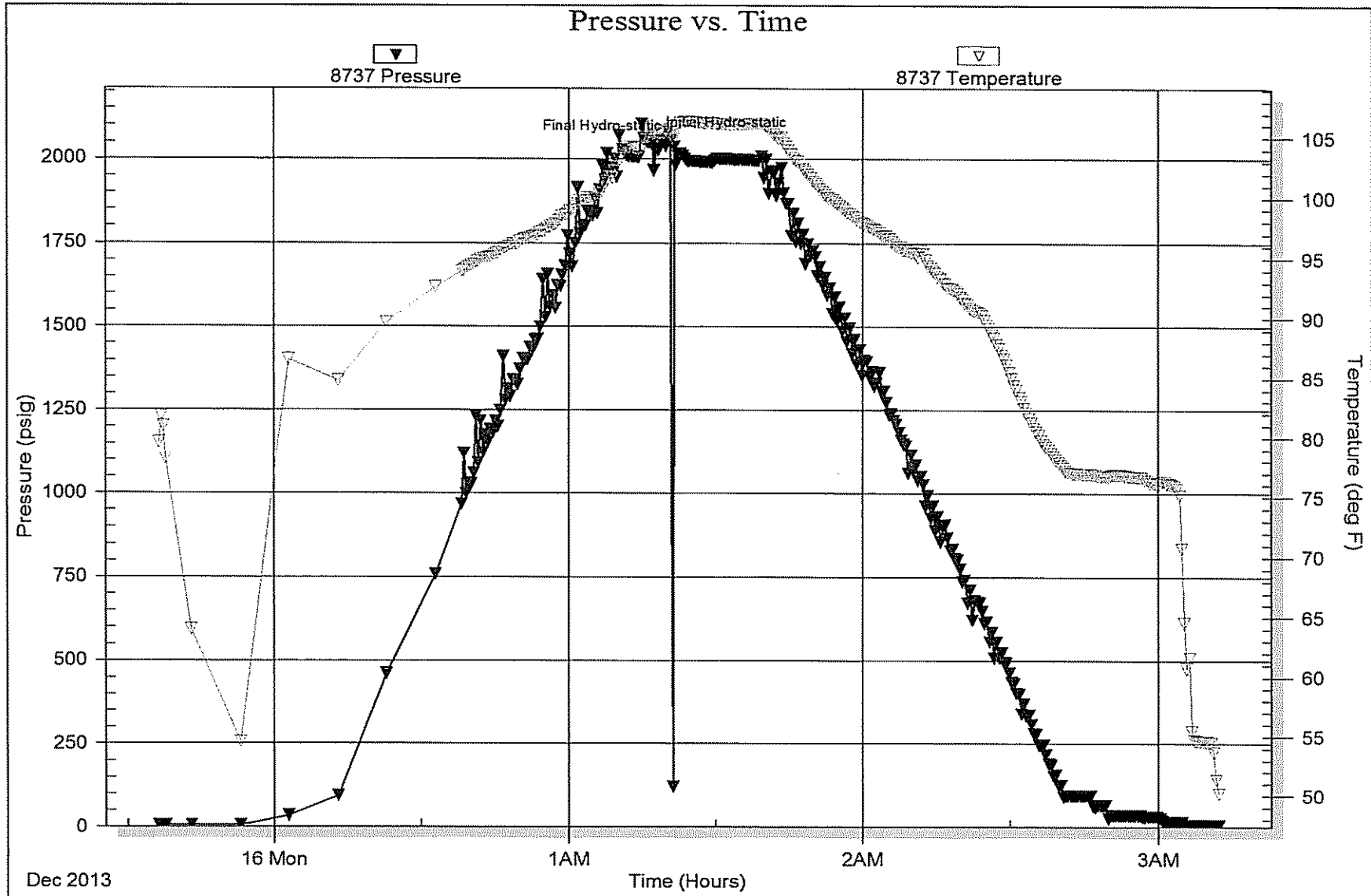
Length ft	Description	Volume bbbl
123.00	mud 100% m	0.605

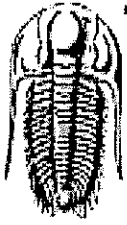
Total Length: 123.00 ft Total Volume: 0.605 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Lario Oil Company
 301 S Market St.
 Wichita KS 67202
 ATTN: Steve Davis

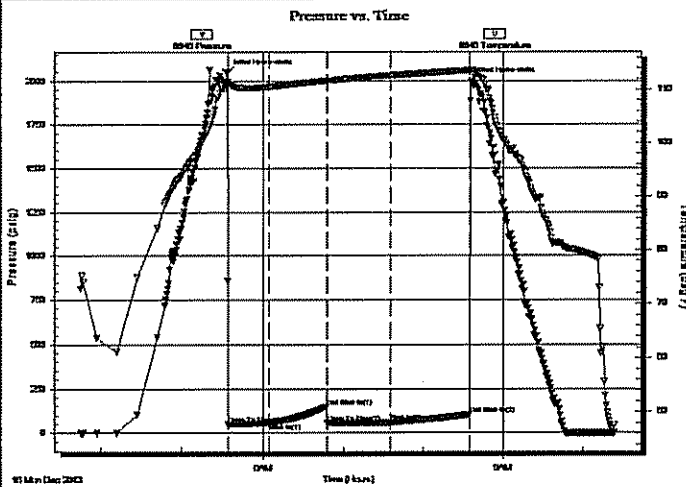
4-15-32 Logan KS
Rose B Unit 1-4
 Job Ticket: 54717 DST#: 5
 Test Start: 2013.12.16 @ 03:45:15

GENERAL INFORMATION:

Formation: **Marm A**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 05:34:15
 Time Test Ended: 10:23:45
 Interval: **4053.00 ft (KB) To 4145.00 ft (KB) (TVD)**
 Total Depth: **4145.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Mike Roberts**
 Unit No: **65**
 Reference Elevations: **2760.00 ft (KB)**
2755.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8846 **Inside**
 Press@RunDepth: **57.81 psig @ 4054.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2013.12.16** End Date: **2013.12.16** Last Calib.: **2013.12.16**
 Start Time: **03:45:15** End Time: **10:23:45** Time On Btm: **2013.12.16 @ 05:33:45**
 Time Off Btm: **2013.12.16 @ 08:36:00**

TEST COMMENT: IF: Built to weak surface blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.91	111.50	Initial Hydro-static
1	49.16	111.08	Open To Flow (1)
31	54.20	110.56	Shut-in(1)
74	146.69	111.68	End Shut-in(1)
74	55.72	111.65	Open To Flow (2)
122	57.81	112.61	Shut-in(2)
181	103.18	113.57	End Shut-in(2)
183	2000.33	113.57	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	mud	0.02
1.00	free oil	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 Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54717

DST#: 5

ATTN: Steve Davis

Test Start: 2013.12.16 @ 03:45:15

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	mud	0.025
1.00	free oil	0.005

Total Length: 6.00 ft Total Volume: 0.030 bbl

Num Fluid Samples: 0

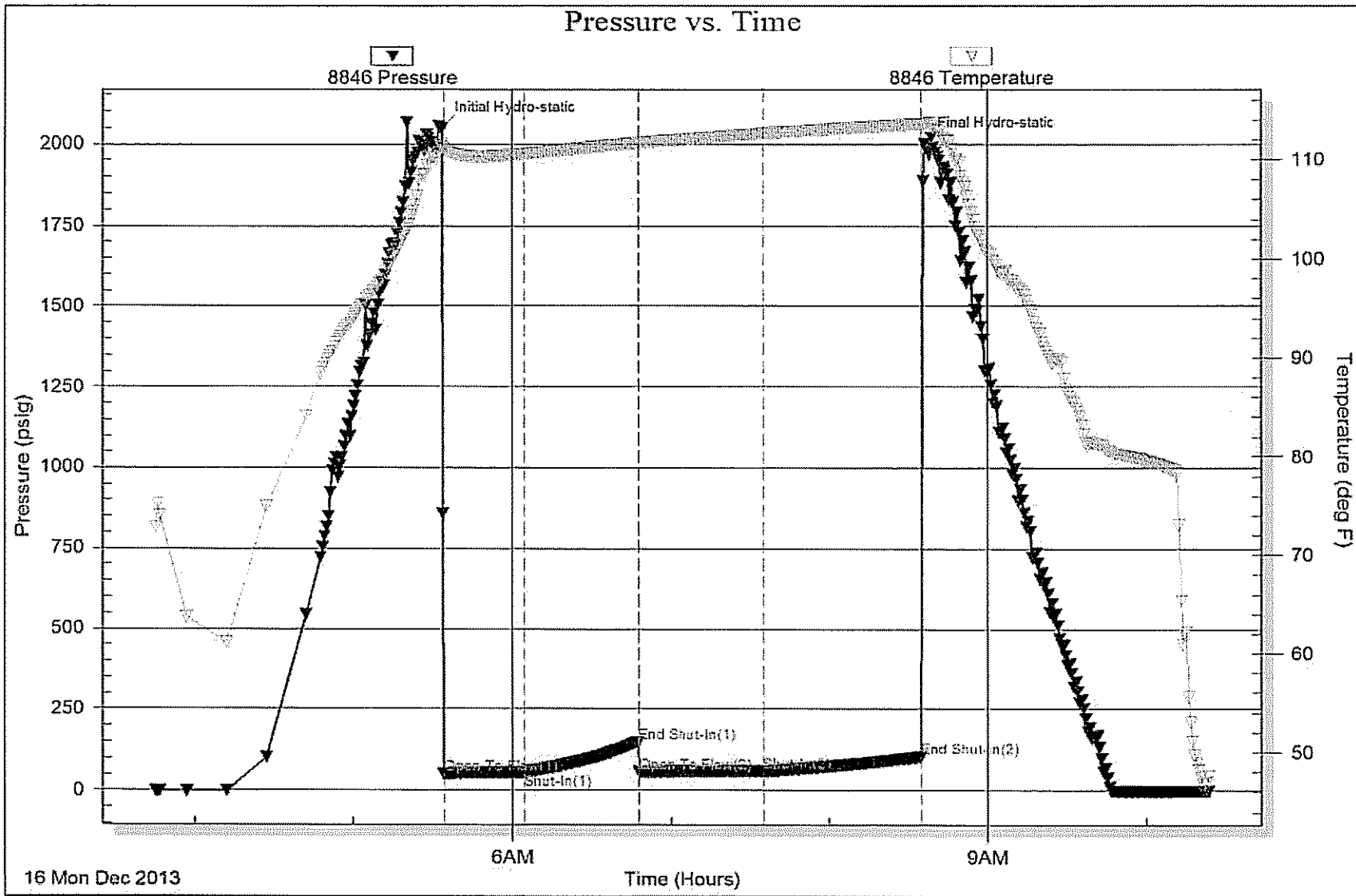
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54718

DST#: 6

ATTN: Steve Davis

Test Start: 2013.12.16 @ 21:19:00

GENERAL INFORMATION:

Formation: Marmaton

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:07:00

Time Test Ended: 01:04:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: 4130.00 ft (KB) To 4214.00 ft (KB) (TVD)

Total Depth: 4214.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2760.00 ft (KB)

2755.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8846 Inside

Press@RunDepth: psig @ 4131.00 ft (KB)

Start Date: 2013.12.16

End Date:

2013.12.17

Capacity: 8000.00 psig

Last Calib.: 2013.12.17

Start Time: 21:19:15

End Time:

01:04:45

Time On Btm: 2013.12.16 @ 23:01:30

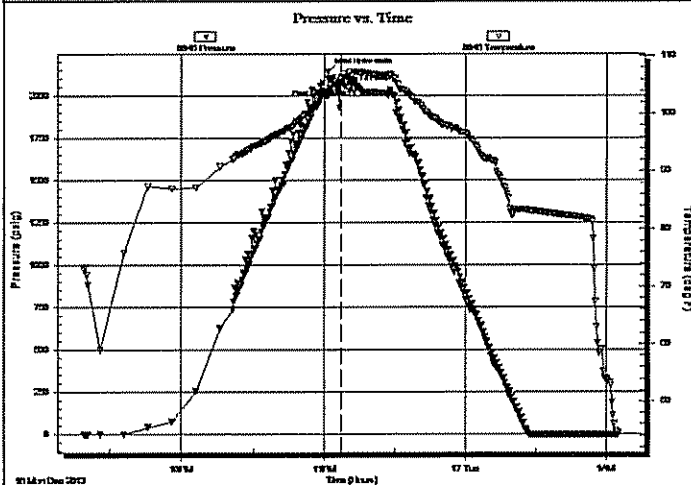
Time Off Btm: 2013.12.16 @ 23:13:00

TEST COMMENT: IF:PACKER FAILURE

IS:

FF:

FS:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.32	103.24	Initial Hydro-static
6	2080.85	106.02	Open To Flow (1)
12	2080.05	107.24	Final Hydro-static

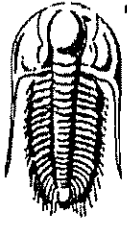
Recovery

Length (ft)	Description	Volume (bbl)
123.00	mud 100%m	0.60

* 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 Company
301 S Market St.
Wichita KS 67202
ATTN: Steve Davis

4-15-32 Logan KS
Rose B Unit 1-4
Job Ticket: 54718 DST#: 6
Test Start: 2013.12.16 @ 21:19:00

Mud and Cushion Information

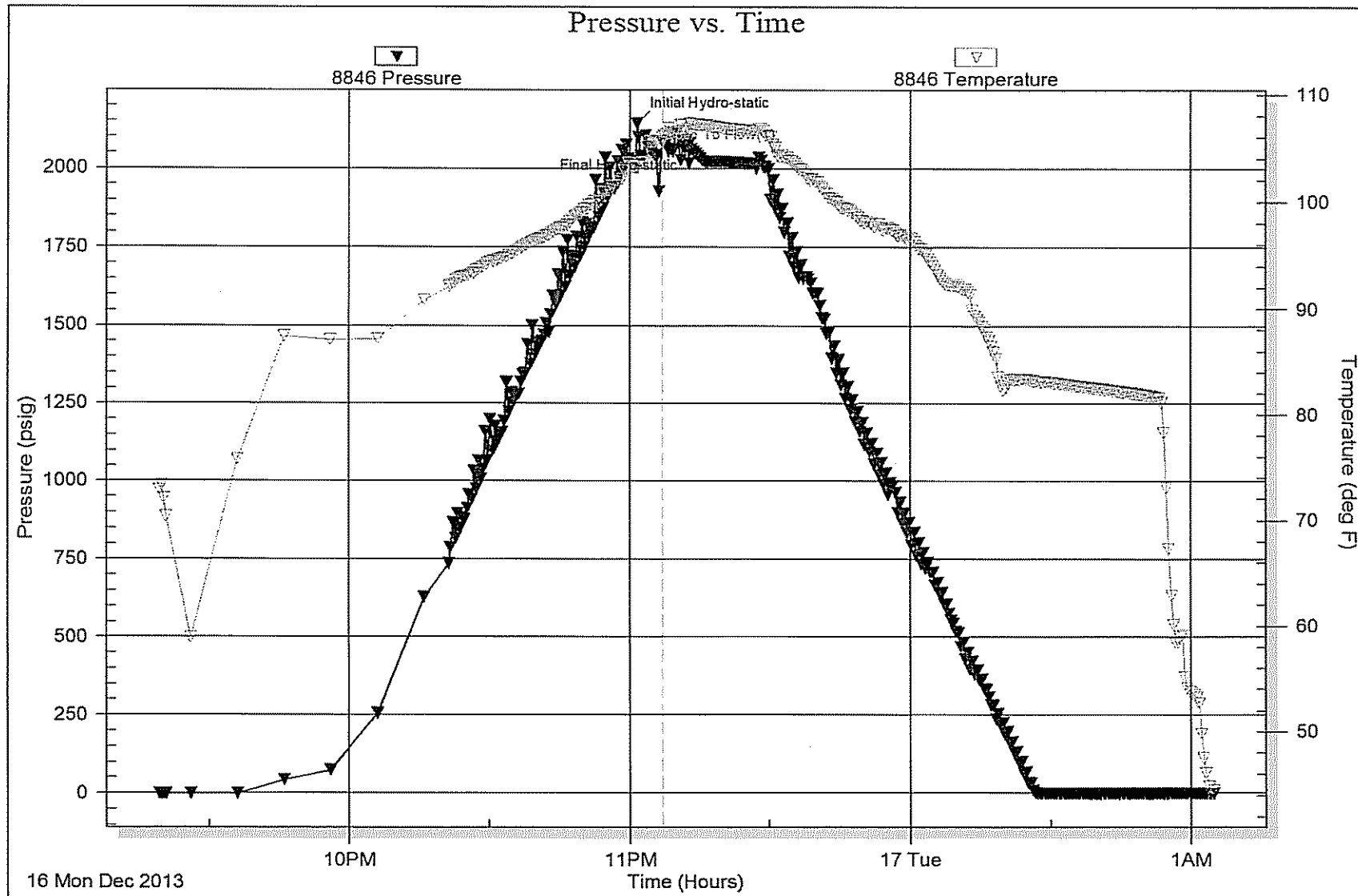
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 1.00 inches			

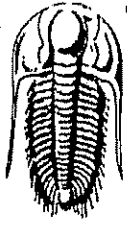
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	mud 100%m	0.605

Total Length: 123.00 ft Total Volume: 0.605 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 Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54719

DST#: 7

ATTN: Steve Davis

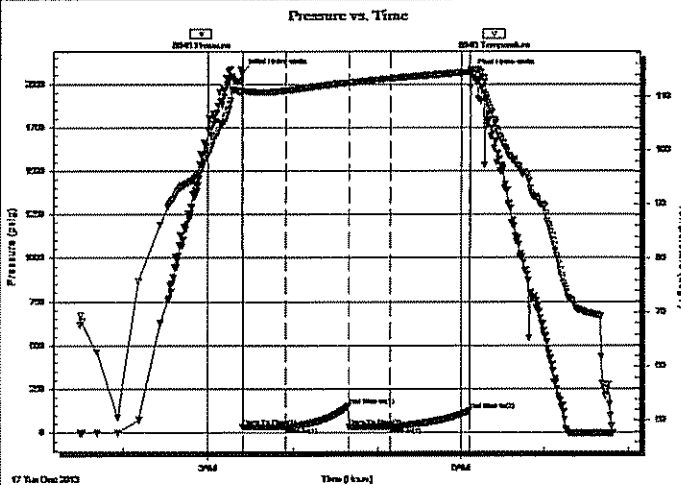
Test Start: 2013.12.17 @ 01:29:15

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:24:30
 Time Test Ended: 07:48:45
 Interval: **4157.00 ft (KB) To 4214.00 ft (KB) (TVD)**
 Total Depth: **4214.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 2760.00 ft (KB)
 2755.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8846 Inside
 Press@RunDepth: 36.22 psig @ 4158.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.17 End Date: 2013.12.17 Last Calib.: 2013.12.17
 Start Time: 01:29:15 End Time: 07:48:45 Time On Btm: 2013.12.17 @ 03:24:00
 Time Off Btm: 2013.12.17 @ 06:07:30

TEST COMMENT: IF: Built to weak surface blow and died in 15 min.
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.23	111.12	Initial Hydro-static
1	32.20	110.85	Open To Flow (1)
31	34.60	111.15	Shut-In(1)
76	154.78	112.60	End Shut-In(1)
76	34.62	112.58	Open To Flow (2)
105	36.22	113.32	Shut-In(2)
163	125.21	114.55	End Shut-In(2)
164	2059.83	115.05	Final Hydro-static

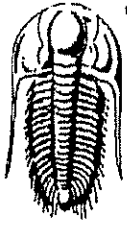
Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54719

DST#: 7

ATTN: Steve Davis

Test Start: 2013.12.17 @ 01:29:15

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in²

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	mud 100% m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

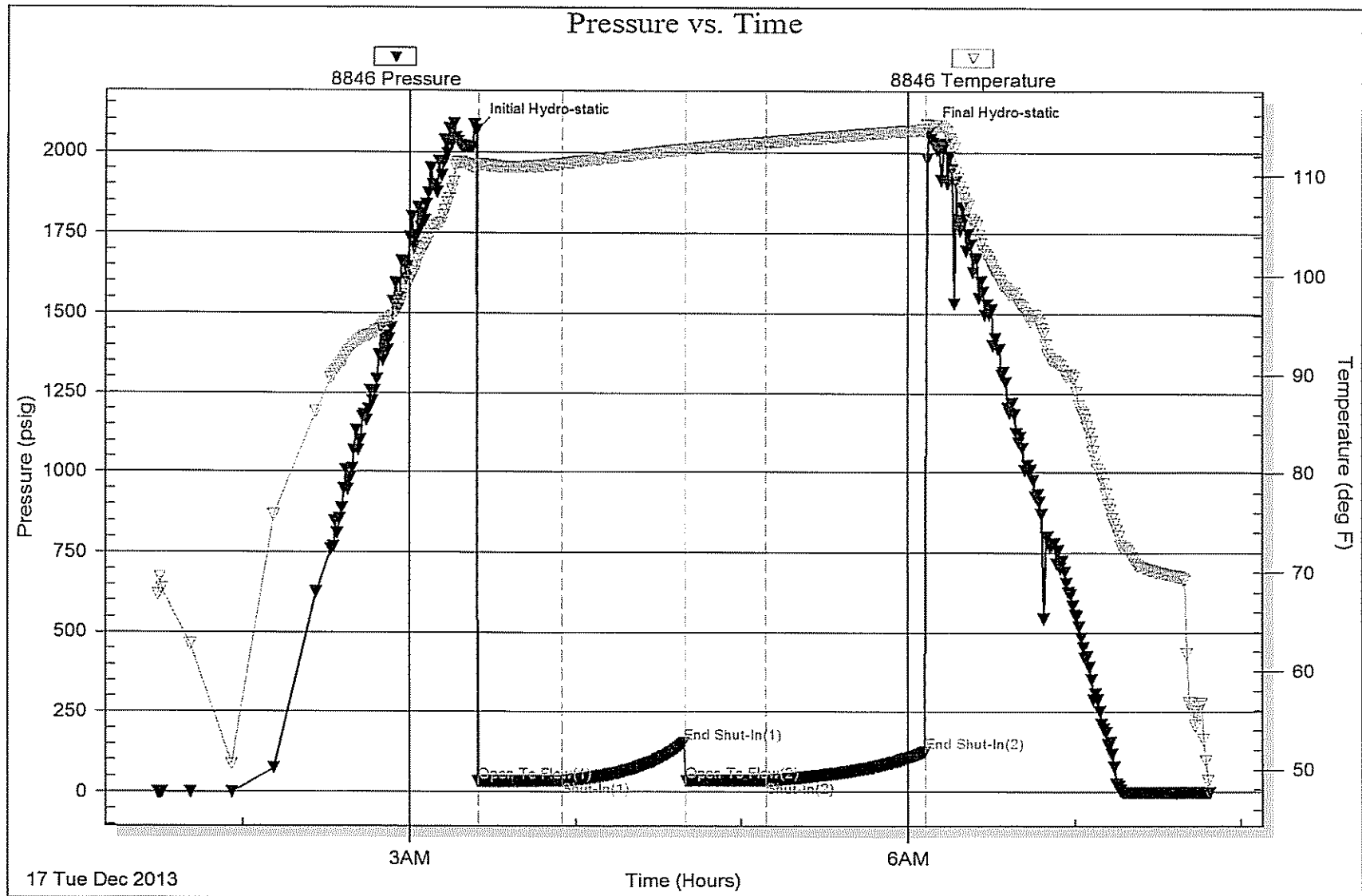
Num Gas Bombs: 0

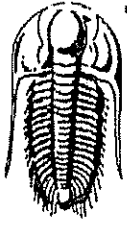
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54720

DST#: 8

ATTN: Steve Davis

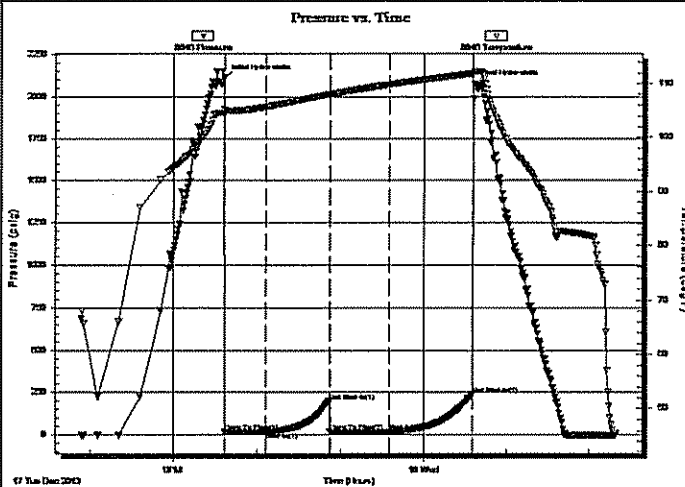
Test Start: 2013.12.17 @ 19:54:15

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:36:45
 Time Test Ended: 02:19:15
 Interval: **4296.00 ft (KB) To 4340.00 ft (KB) (TVD)**
 Total Depth: **4340.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 2760.00 ft (KB)
 2755.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8846 Inside
 Press@RunDepth: 19.64 psig @ 4297.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.17 End Date: 2013.12.18 Last Calib.: 2013.12.18
 Start Time: 19:54:15 End Time: 02:19:15 Time On Btm: 2013.12.17 @ 21:36:30
 Time Off Btm: 2013.12.18 @ 00:37:00

TEST COMMENT: IF: Built to weak surface blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.55	105.23	Initial Hydro-static
1	16.87	104.21	Open To Flow (1)
30	19.15	105.70	Shut-In(1)
76	198.32	108.05	End Shut-In(1)
76	18.87	108.00	Open To Flow (2)
119	19.64	109.84	Shut-In(2)
179	238.05	111.90	End Shut-In(2)
181	2077.58	112.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100% m	0.07

* 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 Company

4-15-32 Logan KS

301 S Market St.
Wichita KS 67202

Rose B Unit 1-4

Job Ticket: 54720

DST#: 8

ATTN: Steve Davis

Test Start: 2013.12.17 @ 19:54:15

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: 65.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filler Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	mud 100% m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

