



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	cc		

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

ALLIED OIL & GAS SERVICES, LLC

19570
062183₄₅

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Dak Key K

DATE <u>12/9/13</u>	SEC. <u>35</u>	TWR. <u>12</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30 AM</u>	JOB FINISH <u>10:00 AM</u>
LEASE <u>base unit</u>		WELL # <u>1-4</u>	LOCATION <u>Dakley 235 1W 5100</u>	COUNTY <u>Logan</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)							

CONTRACTOR NW 2 OWNER E
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 252'
CASING SIZE 8 5/8 DEPTH 252'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 15.096

EQUIPMENT
PUMP TRUCK CEMENTER Alan P1000
473-281 HELPER Kevin R400
BULK TRUCK
396-306 DRIVER Mike McKempson
BULK TRUCK
DRIVER

CEMENT
AMOUNT ORDERED 155 Gallons 390CC
COMMON 155 @ 17.20 2674.00
POZMIX @
GEL @
CHLORIDE 5 @ 64.00 320.00
ASC @
HANDLING 162.25 CF @ 2.48 402.85
MILEAGE 2.25 @ 2.504 5.63
TOTAL 3102.88

REMARKS:

On location, on log, cumulative, displacement, displacement
shut-in
Cement did cumulate in collar
Thank you Alan, Kevin, Mike

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE 1512.35
EXTRA FOOTAGE @
MILEAGE 25 miles @ 7.20 180.00
MANIFOLD @
Gravelada 26 miles @ 4.40 114.40
TOTAL 1814.75

CHARGE TO: Land Oil & Gas
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

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.

PRINTED NAME Lannie Long
SIGNATURE Lannie Long

SALES TAX (If Any)
TOTAL CHARGES 5,800.60
DISCOUNT 1,624.16 IF PAID IN 30 DAYS
4,176.43 Net
Bid

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:	jhschweikert@larfoil.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
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
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	\$139.60
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

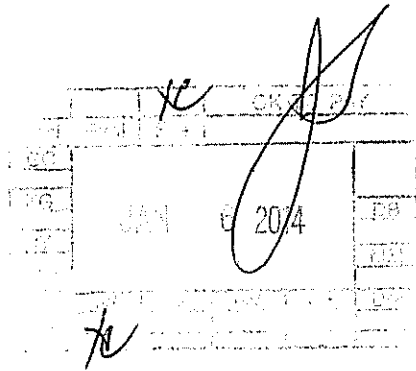
Voice: (817) 546-7282
Fax: (817) 246-3361

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:

DeWitt, KS

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>2:00 PM</u>
LEASE <u>Boye B unit</u>	WELL # <u>104</u>	LOCATION <u>DeWitt 235 1 W 5100</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR Wor 2

TYPE OF JOB PTA Rotary

HOLE SIZE 7 7/8" T.D.

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. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Alan Ryan

462 HELPER Kevin Ryan

BULK TRUCK _____

396 DRIVER Tuann T (TWS)

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

2551L @ 200 FT

10031L @ 1025 FT

4051L @ 300 FT

1031L @ 4040 FT

2031L -AH

1531L -MH

T. Dick
Alan Ryan

CHARGE TO: Local Oil Gas

STREET _____

CITY _____ STATE _____ ZIP _____

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.

PRINTED NAME Walter Brown

SIGNATURE Walter Brown

OWNER Sam

CEMENT

AMOUNT ORDERED 220 60/40 40/gal 14 PLO

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>FloSeal 5568</u>		@	<u>2.37</u>	<u>163.35</u>
<u>Handling 236.27</u>		@	<u>2.42</u>	<u>585.97</u>
<u>Mileage 204.46 @ 96 x 25</u>		@		<u>640.90</u>
TOTAL				<u>4762.99</u>

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 2483.59

EXTRA FOOTAGE @ _____

MILEAGE 25 @ 2.37 192.50

MANIFOLD @ _____

27 Vehicle 25 @ 4.40 110.00

TOTAL 2786.09

PLUG & FLOAT EQUIPMENT

Pilgeward Plug @ _____ 107.04

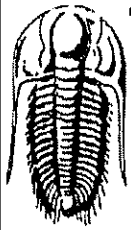
TOTAL 107.04

SALES TAX (If Any) _____

TOTAL CHARGES 7,656.72

DISCOUNT 2,113.74 IF PAID IN 30 DAYS

5,542.97 Net.



**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

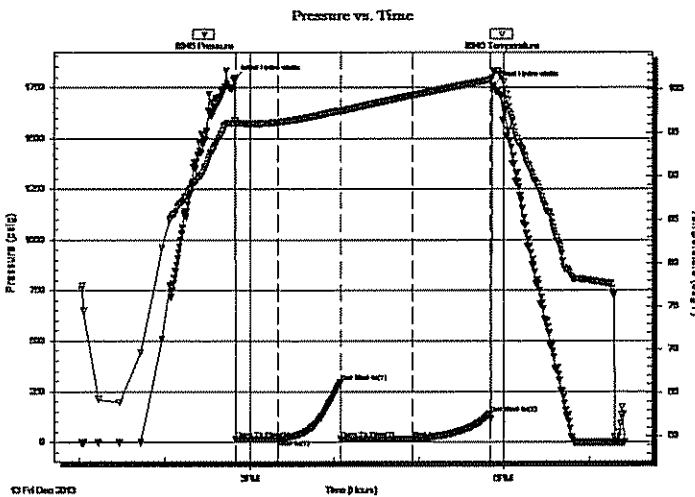
Capacity: 8000.00 psig

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

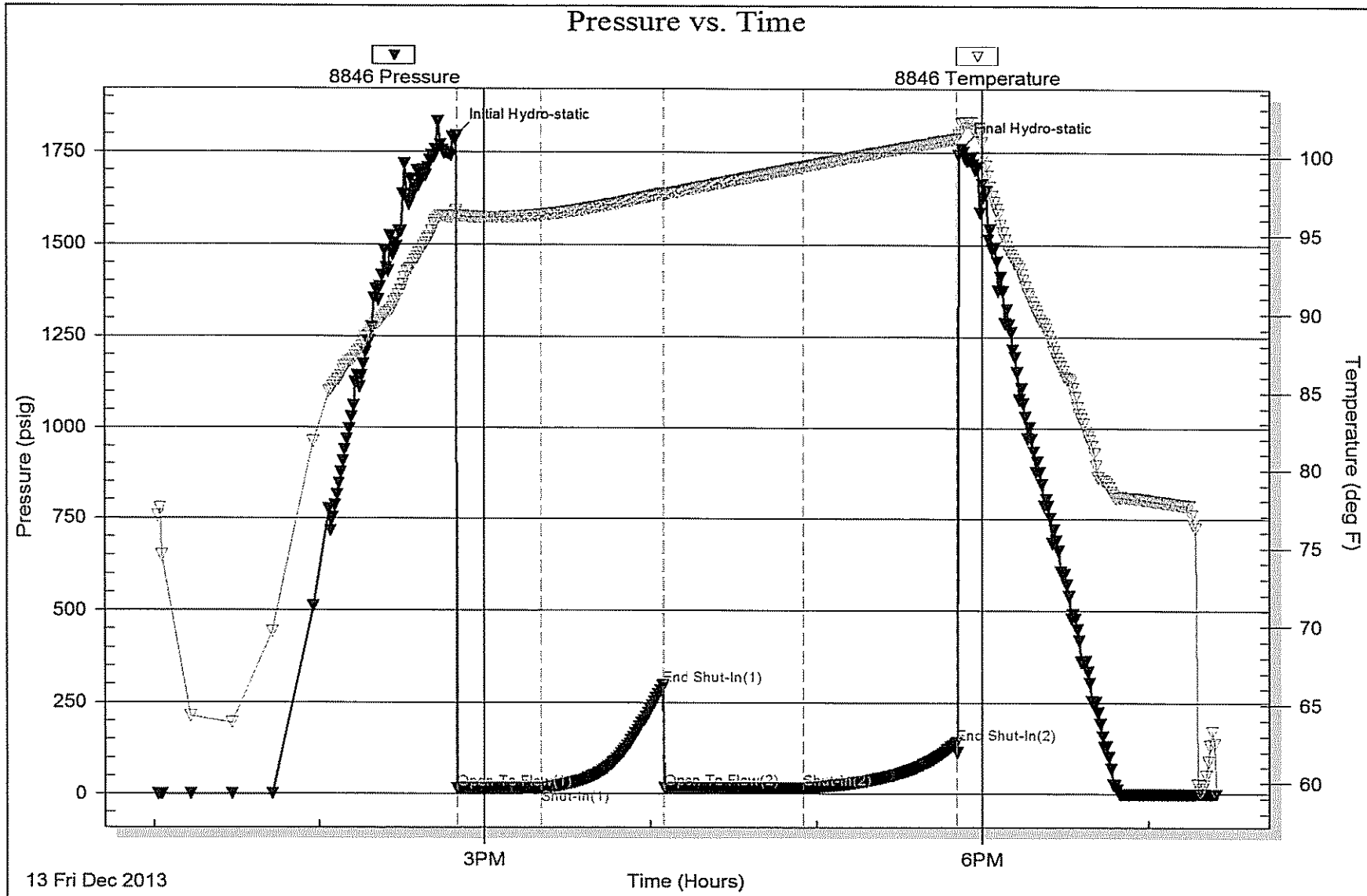
Num Gas Bombs: 0

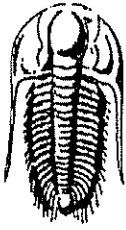
Serial #:

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)

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 #: 8846

Outside

Press@RunDepth: 14.85 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: 2013.12.14 @ 04:49:00

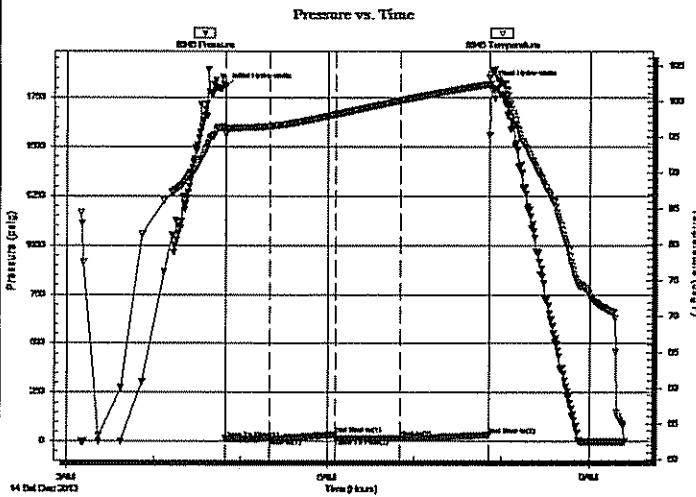
Time Off Btm: 2013.12.14 @ 07:52:15

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

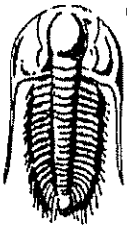
Recovery

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:

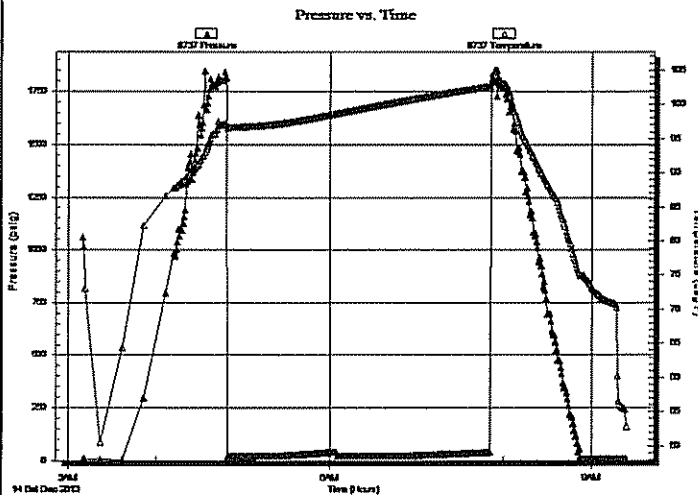
Time Off Btm:

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

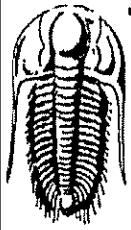
Recovery

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
Mud Weight: 9.00 lb/gal
Viscosity: 63.00 sec/qt
Water Loss: 6.40 in³
Resistivity: 0.00 ohm.m
Salinity: 1500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

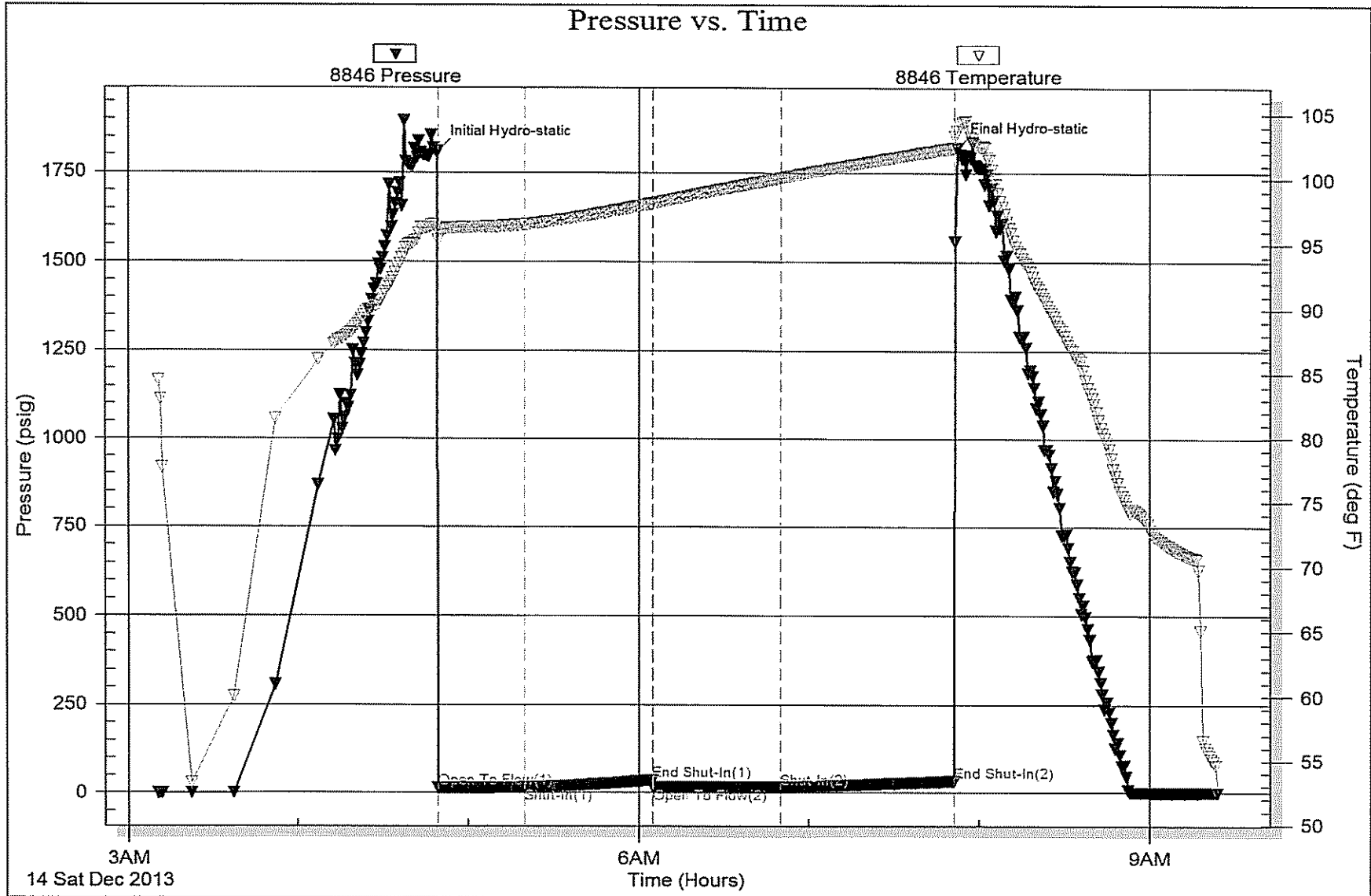
Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

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:



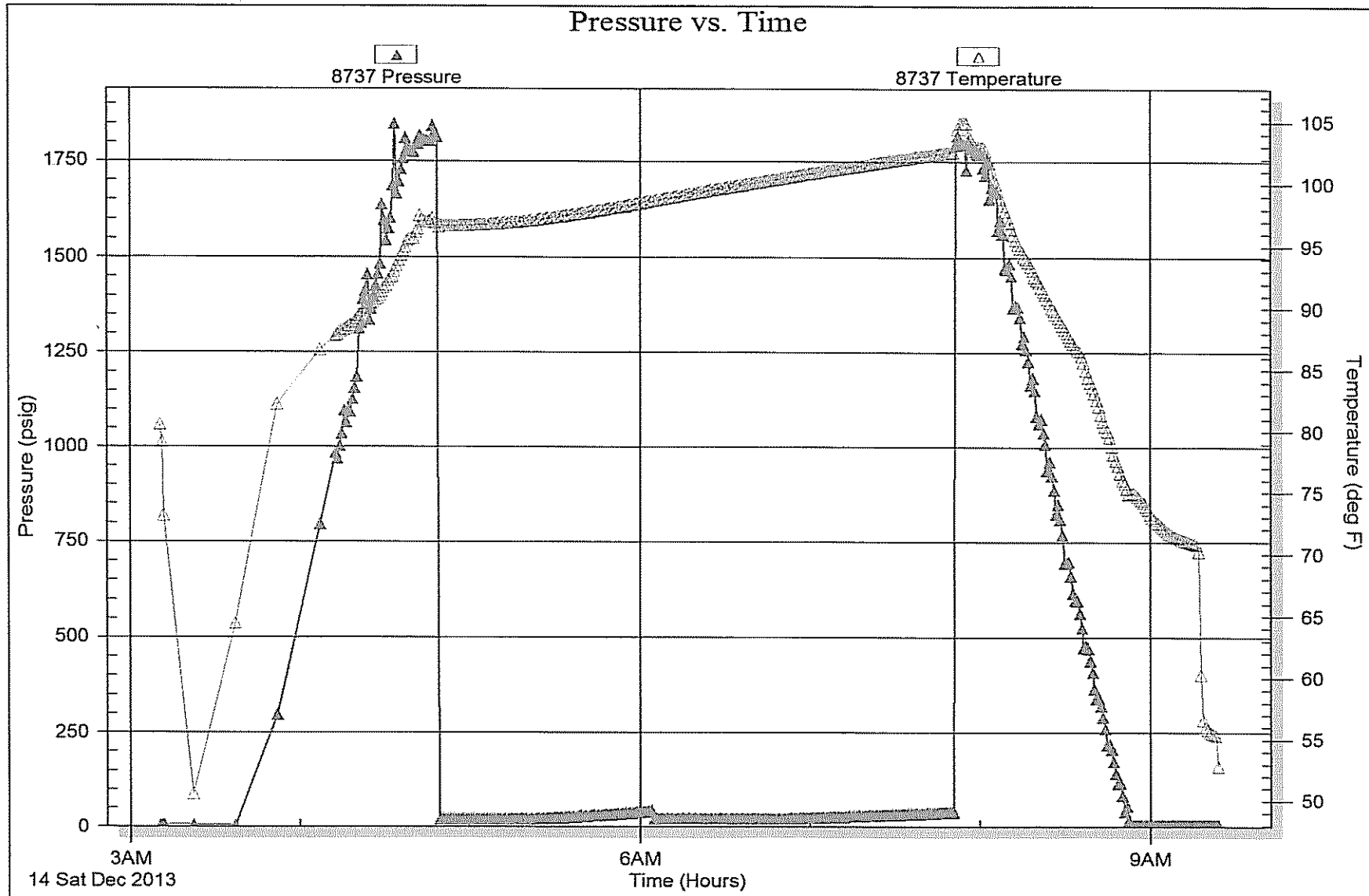
Serial #: 8737

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

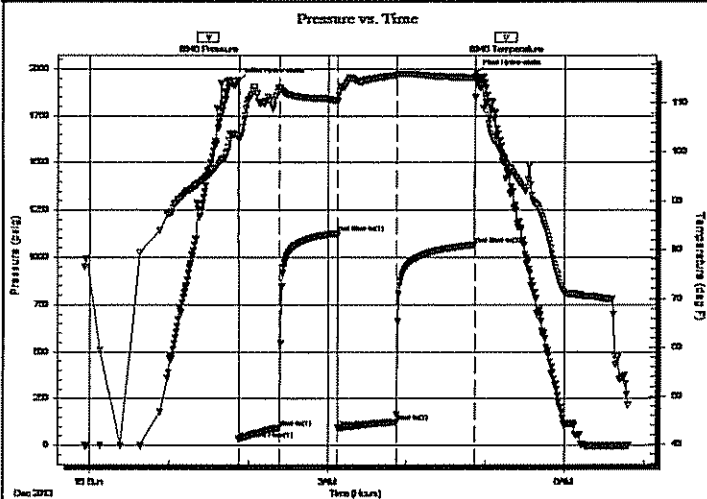
Time Off Btm: 2013.12.15 @ 04:53:00

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

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: 54715

DST#: 3

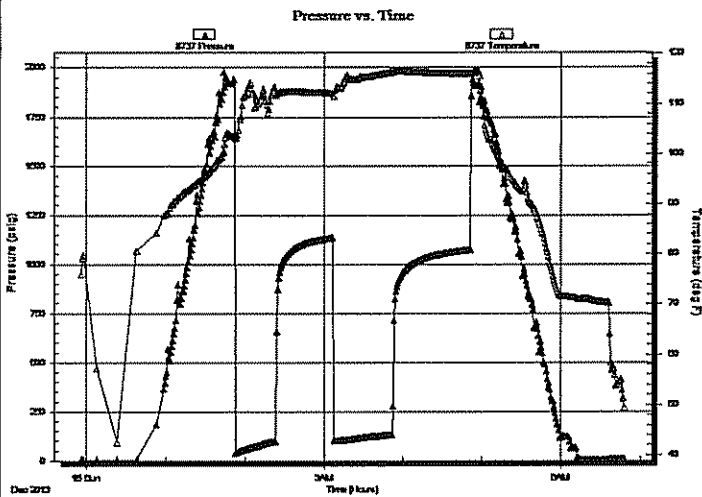
Test Start: 2013.12.14 @ 23:56:15

GENERAL INFORMATION:

Formation: **Lansing I-J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:52:15 Tester: Mike Roberts
 Time Test Ended: 06:48:15 Unit No: 65
 Interval: 3925.00 ft (KB) To 3980.00 ft (KB) (TVD) Reference Elevations: 2760.00 ft (KB)
 Total Depth: 3980.00 ft (KB) (TVD) 2755.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GRVCF: 5.00 ft

Serial #: **8737** Outside
 Press@RunDepth: psig @ 3930.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.14 End Date: 2013.12.15 Last Calib.: 2013.12.15
 Start Time: 23:56:15 End Time: 06:48:15 Time On Btm:
 Time Off Btm:

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

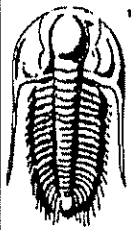
Recovery

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

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: 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

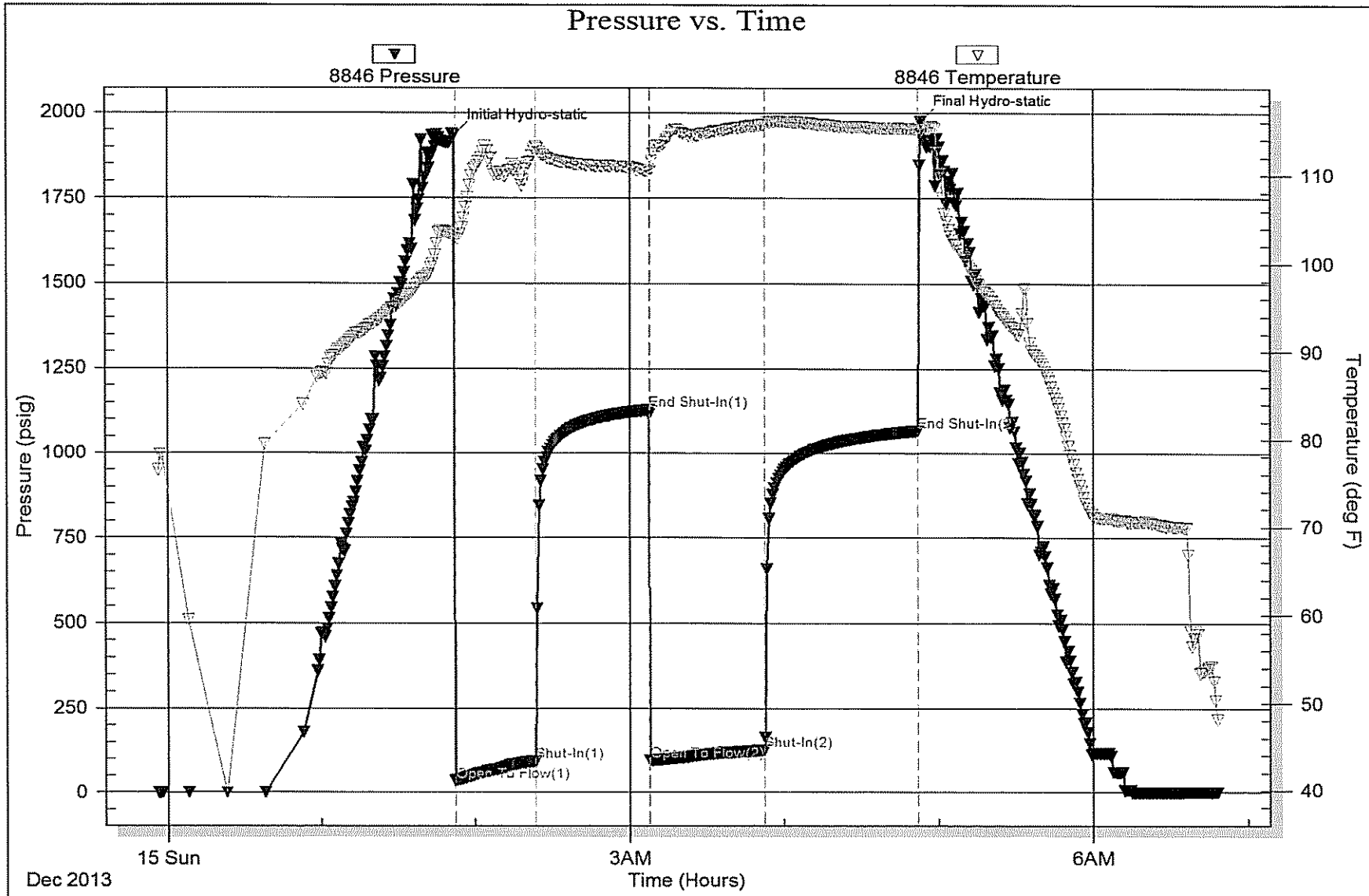
Num Gas Bombs: 0

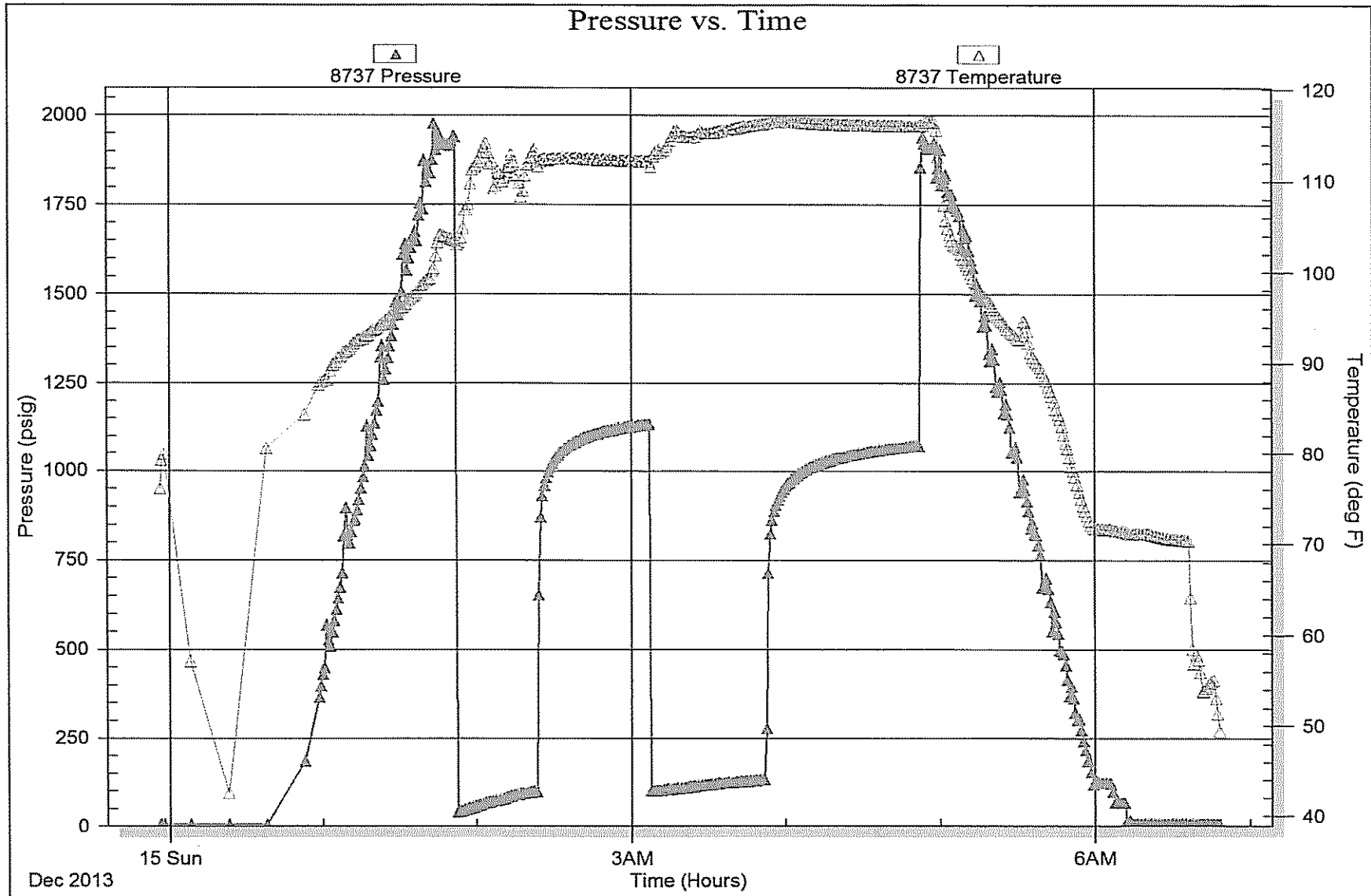
Serial #:

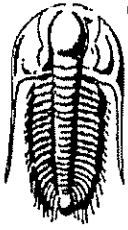
Laboratory Name:

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)

Capacity: 8000.00 psig

Start Date: 2013.12.15

End Date:

2013.12.16

Last Calib.: 2013.12.16

Start Time: 23:36:15

End Time:

03:12:30

Time On Btm: 2013.12.16 @ 01:17:00

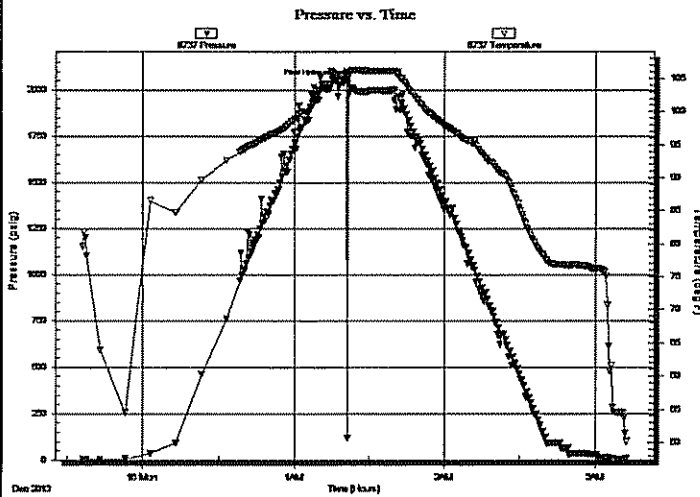
Time Off Btm: 2013.12.16 @ 01:21:30

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

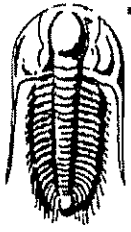
Recovery

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

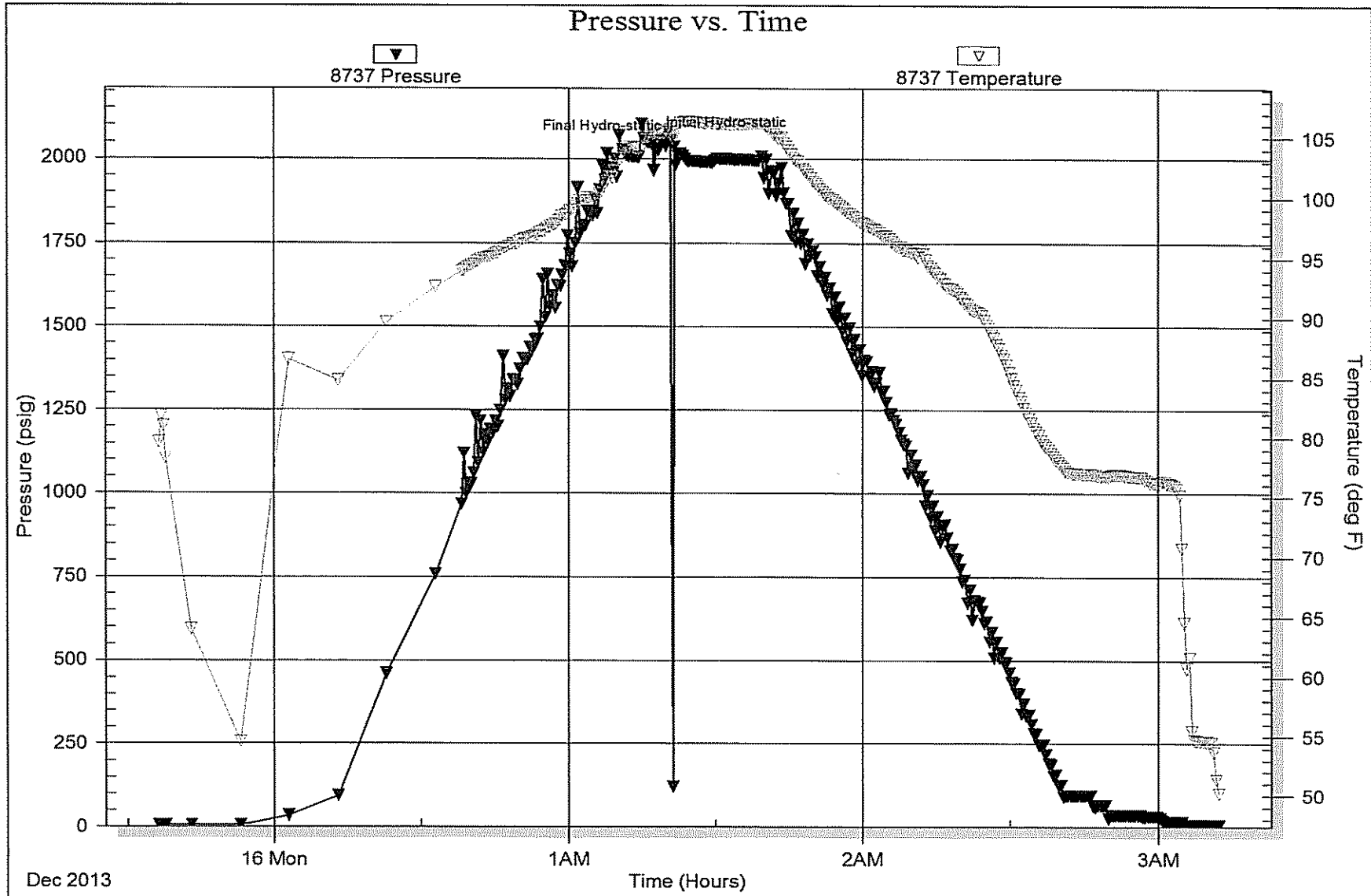
Length ft	Description	Volume bbbl
123.00	mud 100% m	0.605

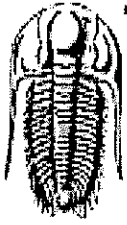
Total Length: 123.00 ft Total Volume: 0.605 bbl

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

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

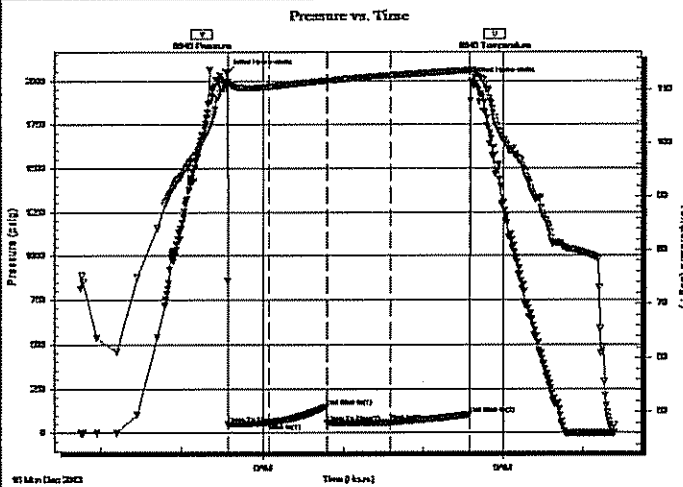
Test Start: 2013.12.16 @ 03:45:15

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

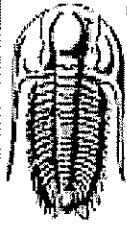
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02
1.00	free oil	0.00

* 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: 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

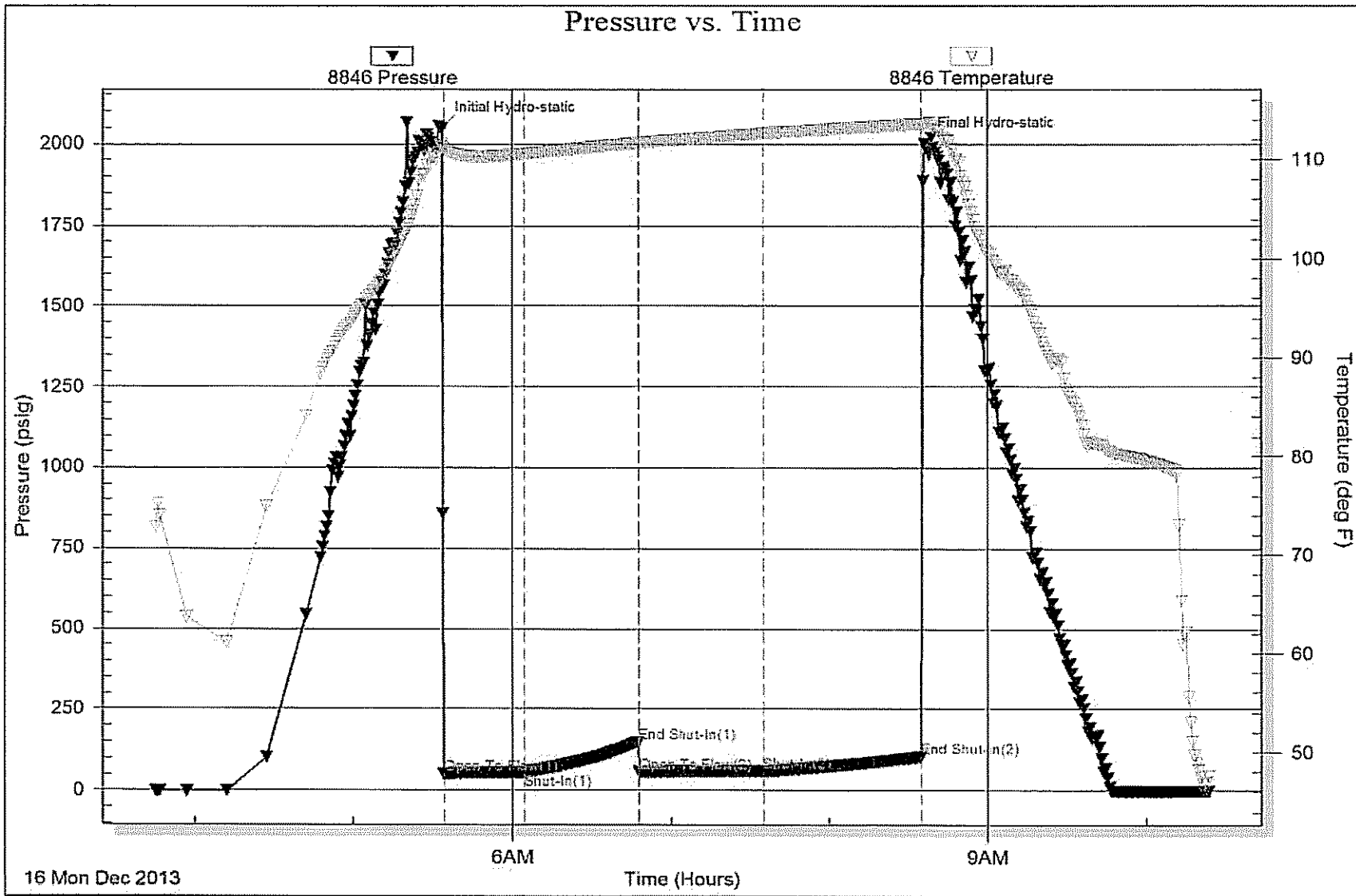
Num Gas Bombs: 0

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

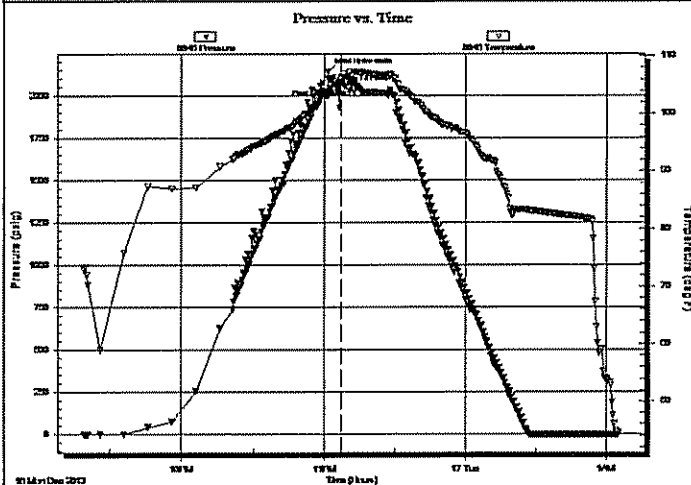
Time Off Btm: 2013.12.16 @ 23:13:00

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

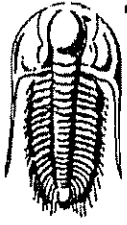
Recovery

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

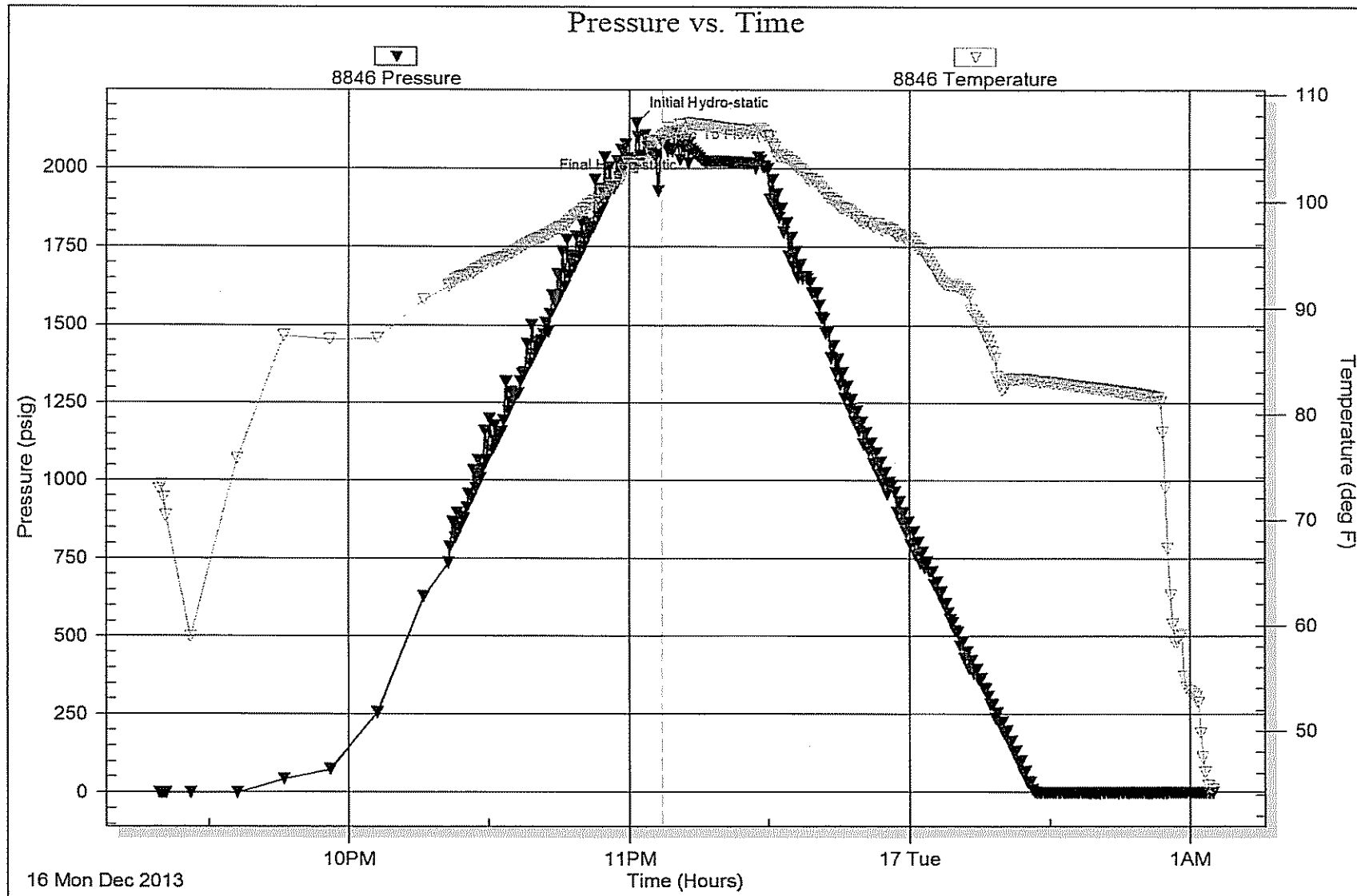
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 1.00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

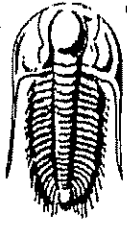
Recovery Information

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

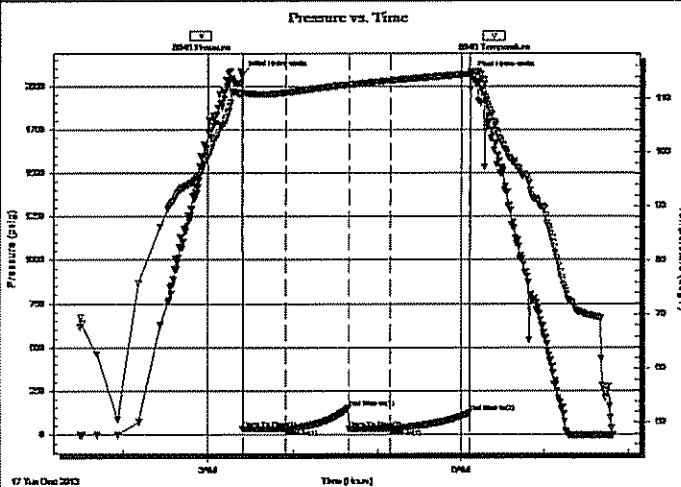
Test Start: 2013.12.17 @ 01:29:15

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

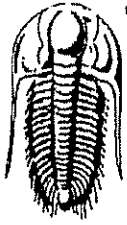
Recovery

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

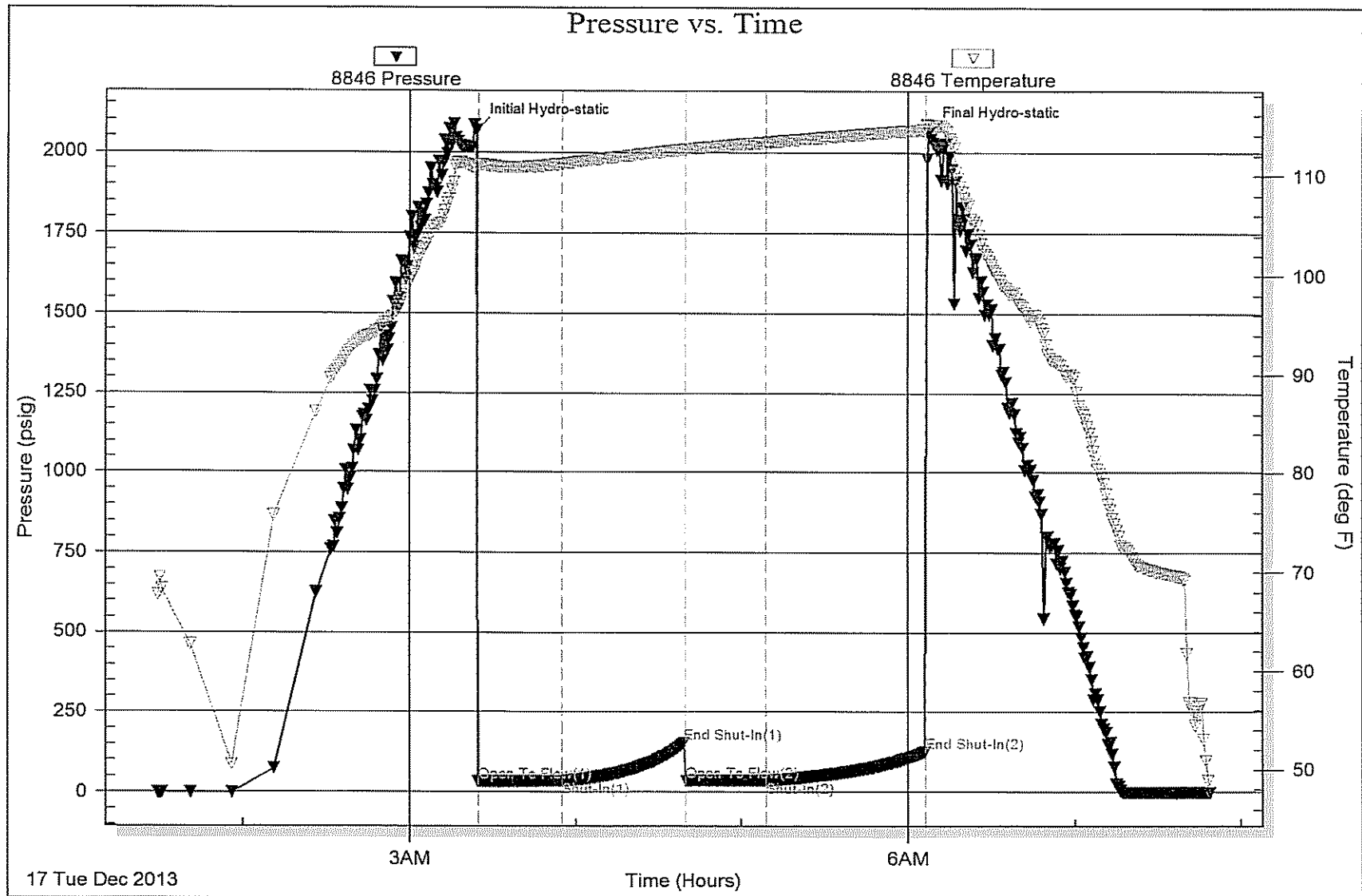
Num Gas Bombs: 0

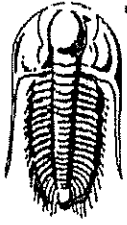
Serial #:

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

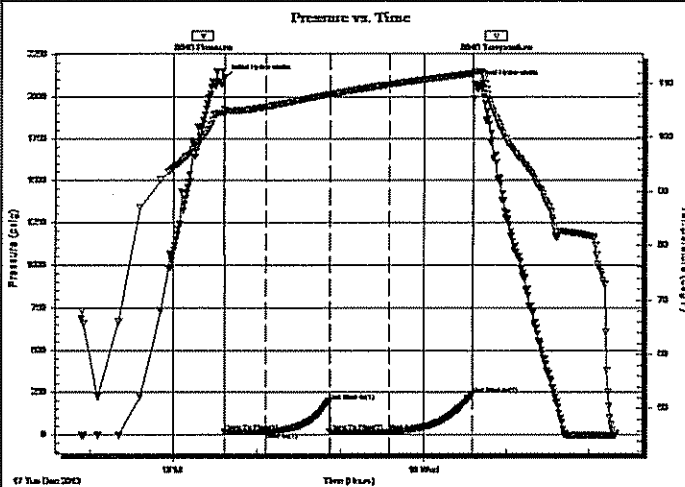
Test Start: 2013.12.17 @ 19:54:15

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:

