

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
---	---	--

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	SMITH TRUST 1-3
Doc ID	1410717

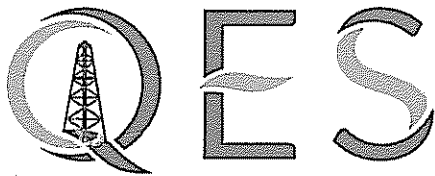
All Electric Logs Run

Dual Induction
Microlog
Compensated Density / Neutron PE
Sonic
Logs by ELI Wireline

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	SMITH TRUST 1-3
Doc ID	1410717

Tops

Name	Top	Datum
Heebner	4010	-809
Lansing	4056	-855
Stark Shale	4348	-1147
Hushpuckney	4398	-1197
Base KC	4478	-1277
Marmaton	4509	-1308
Pawnee	4600	-1399
Ft. Scott	4626	-1425
Johnson	4733	-1532
Morrow	4817	-1616
Mississippian	4935	-1734



PRESSURE PUMPING LLC

REMIT TO

QES Pressure Pumping LLC
Dept:970
P.O.Box 4346
Houston, TX 77210-4346

MAIN OFFICE

P.O.Box884
Chanute,KS 66720
620/431-9210,1-800/467-8676
Fax 620/431-0012

Invoice

Invoice#

812713

Invoice Date: 03/26/18

Terms: Net 30

Page 1

LARIO OIL & GAS

P.O. BOX 1093
GARDEN CITY KS 67846
USA
3162655611

SMITH TRUST 1-3

drilling AFE 18-037

APPROVED MAR 28 2018

Tax: 342.72

Total: 5,932.64

OK P.
EXP. FILE
APR - 2 2018



PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

10277
 10 10169

TICKET NUMBER 55057
 LOCATION Jerry Y - 5
 FOREMAN Oakley Ks

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice # 81213 Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
3-22-18	4793	Smith Trust 1-3	3	18 ^s	35 ^w	Wichita																
CUSTOMER Lario Oil & Gas			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>731</td> <td>PDW</td> <td></td> <td></td> </tr> <tr> <td>576</td> <td>Neil W</td> <td></td> <td></td> </tr> <tr> <td>535</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	731	PDW			576	Neil W			535			
TRUCK #	DRIVER	TRUCK #	DRIVER																			
731	PDW																					
576	Neil W																					
535																						
MAILING ADDRESS P.O. Box 1093			<table border="1"> <thead> <tr> <th>CITY</th> <th>STATE</th> <th>ZIP CODE</th> </tr> </thead> <tbody> <tr> <td>Golden City</td> <td>KS</td> <td>67846</td> </tr> </tbody> </table>				CITY	STATE	ZIP CODE	Golden City	KS	67846										
CITY	STATE	ZIP CODE																				
Golden City	KS	67846																				

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 353 CASING SIZE & WEIGHT 8 7/8 23#
 CASING DEPTH 352 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL 124 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 216bl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Softly mixing & run up on March 21 circulate casing mix 240 st
com 3% CC 2% back wash & displace with 216bl fast water & shut in
circulated 20bl to pit

cement did
circulate
Thank you
Jerry crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	40	MILEAGE	7.15	286.00
CE0710	11.28	ten mileage delivery	1.75	781.60
CC5871	240 sts	Surface slab 4'	24.00	5760.00
			Subtotal	7985.60
			-30%	2395.68
			Subtotal	5589.92
			SALES TAX	342.72
			ESTIMATED TOTAL	5932.64

AUTHORIZATION Juan Pinao TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 2	1002301	1718	04/05/2018
INVOICE NUMBER			
92673570			

Pratt (620) 672-1201
 B LARIO OIL & GAS
 I PO Box: 1093
 L GARDEN CITY
 L KS US 67846
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Smith Trust 3-4
 O LOCATION
 B COUNTY Wichita
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41098170	19919		Net - 30 days	05/05/2018

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 04/04/2018 to 04/04/2018</i>				
0041098170				
171815653L Cement-New Well Casing/Pi 04/04/2018 Cement/Production				
AA2 Cement	210.00	EA	9.46	1,986.60
A-Con' Blend	430.00	EA	9.67	4,158.10
Calcium Chloride	1,215.00	EA	0.55	668.25
Celloflake	160.00	EA	1.92	307.20
Gypsum	990.00	EA	0.39	386.10
Salt	1,166.00	EA	0.26	303.16
C-15	119.00	EA	6.50	773.50
C-41P	50.00	EA	2.08	104.00
Gilsonite	1,050.00	EA	0.35	367.50
"Two Stage Cement Collar 5 1/2" (Blue)	1.00	EA	4,500.00	4,500.00
"Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	360.00	360.00
"Turbolizer, 5 1/2" (Blue)"	16.00	EA	110.00	1,760.00
"5 1/2" Basket (Blue)"	1.00	EA	290.00	290.00
Super Flush II	500.00	EA	0.80	400.00
Heavy Equipment Mileage	300.00	MI	3.90	1,170.00
Blending & Mixing Service Charge	640.00	BAG	0.73	467.20
Proppant & Bulk Del. Chgs., per ton.mil	3,015.00	EA	1.30	3,919.50
Depth Charge; 5001-6000'	1.00	EA	1,497.60	1,497.60
Additional Stage Charge	1.00	EA	1,123.20	1,123.20
Plug Container Util. Chg.	1.00	EA	130.00	130.00
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	2.34	234.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	91.00	91.00
Cement Data Acquisition Monitor	1.00	EA	286.00	286.00
Industrial Rubber Thread Lock Kit	1.00	EA	34.00	34.00

Smith Trust 1-3
 drilling AFE 18-037
 ACP APPROVED APR 09 2018
 AR

APR 11 2018
 FILE
 GC
 KG
 DV
 KF
 VB
 SF
 DM

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	25,316.91
BASIC ENERGY SERVICES, LP.	BASIC ENERGY SERVICES, LP	TAX	803.62
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	26,120.53
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



PAGE	CUST NO	YARD #	INVOICE DATE
2 of 2	1002301	1718	04/05/2018
INVOICE NUMBER			
92673570			

Pratt (620) 672-1201
 B LARIO OIL & GAS
 I PO Box: 1093
 L GARDEN CITY
 L KS US 67846
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Smith Trust 3-4
 O LOCATION
 B COUNTY Wichita
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41098170	19919		Net - 30 days	05/05/2018

		QTY	U of M	UNIT PRICE	INVOICE AMOUNT

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	25,316.91
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	803.62
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	26,120.53
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



1700 S. Country Estates Road
 Liberal, KS 67901
 PH (620)-624-2277 FAX (620) 624-2280

SERVICE ORDER - 1718 15653 L

Date: 4/4/2018

TTL MHR 83

Well Name:
 Smith Trust 3-4

Location:
 3, 1B, 35

County - State:
 Wichita, Ks

RRC #: 19919-13

Type Of Service:
 Z42 - Cement Production Casing

Customer's Order #: 1008301/2002030

Customer: Lario Oil & Gas

Address: PO Box 1093
 Garden City, Ks 67846

As a consideration, the above named Customer agrees to pay Basic Energy Services current price lists. Invoices are payable 15 days after date of invoice. Upon Customer's default in payment of Customers account by such date, Customer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

Basic Energy Services warrants only title to the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limited to the replacement of such products, supplies or materials or, at Basic Energy Services' option, to the allowance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or consequential damages.

CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
CL105	210	Sk	AA2 Cement	18.20	3822.00
CL101	430	Sk	'A-Con' Blend	18.60	7998.00
CC109	1215	Lb	Calcium Chloride	1.05	1275.75
CC102	160	Lb	Celloflake	3.70	592.00
CC113	990	Lb	Gypsum	0.75	742.50
CC111	1166	Lb	Salt	0.50	583.00
CC103	119	Lb	C-15	12.50	1487.50
CC105	50	Lb	C-41P	4.00	200.00
CC201	1050	Lb	Gilsonite	0.67	703.50
CF451	1	Ea	Two Stage Cement Collar, 5 1/2" (Blue)	4500.00	4500.00
CF1251	1	Ea	Auto Fill Float Shoe 5 1/2" (Blue)	360.00	360.00
CF1651	16	Ea	Turbolizer, 5 1/2" (Blue)	110.00	1760.00
CF1901	1	Ea	5 1/2" Basket (Blue)	290.00	290.00
CC155	500	Gal	Super Flush II	1.53	765.00
E101	300	Mi	Heavy Equipment Mileage	7.50	2250.00
CE240	640	Sk	Blending & Mixing Service Charge	1.40	896.00
E113	3015	Tn/Mi	Proppant and Bulk Delivery Charges, per ton mile	2.50	7537.50
CE206	1	4 Hrs	Dolph Charge; 5001-6000'	2880.00	2880.00
CE409	1	4 Hrs	Additional Stage Charge	2160.00	2160.00
CE504	1	Job	Plug Container Utilization Charge	250.00	250.00
E100	100	Mi	Unit Mileage Charge-Pickups, Small Vans & Cars (one way)	4.50	450.00
S003	1	Ea	Service Supervisor, first 8 hrs on loc.	175.00	175.00
T105	1	Ea	Cement Data Acquisition Monitor / Strip Chart Recorder	550.00	550.00
CF3000	1	Ea	Industrial Rubber Thread Lock Kit	34.00	34.00
				Book Total:	\$42,261.75
				Taxes:	
				Disc. Price:	\$25,316.01

PUMP TRUCK NUMBER: 38117, 19919

DRIVER: Angel Echevarria
 Daniel Beck
 BASIC ENERGY SERVICES

THIS JOB WAS SATISFACTORILY COMPLETED
 OPERATION OF EQUIPMENT WAS SATISFACTORY
 PERFORMANCE OF PERSONEL WAS SATISFACTORY

YES NO

X mile [Signature]
 CUSTOMER OR HIS AGENT

TJ

Customer Comments or Concerns:

[Empty box for customer comments]



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Larion Oil & Gas	Cement Pump No.:	38117, 19919 13Hrs.	Operator TRK No.:	96816	
Address:		Ticket #:	1718 15653 L	Bulk TRK No.:	14355, 37724 Ruben	14354, 19578 Santiago
City, State, Zip:		Job Type:	Z42 - Cement Production Casing			
Service District:	1718 - Liberal, Ks.	Well Type:	OIL			
Well Name and No.:	Smith Trust 3-4	Well Location:	3,18,35	County:	Wichita	State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
AA2	210	10% Gypsum, 10% Salt, .6% C-17, .25# Defoamer, 5# Gilsomite, 1/4# Polyflake	14355, 37724 Ruben	Front	Back
A-Con' Blend	380	3% Calcium Chloride, 1/4# Polyflake	14354, 19578 Santiago	Front	Back
Rat & Mouse	50		14354, 19578	Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Tail Stage: 1	14.8	1.51	6.63	317.1	TT Man Hours:	83
Tail Stage: 2	11.4	2.95	18.1	1121	# of Men on Job:	4

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
0:05							ON LOCATION
0:10							SAFETY MEETING
12:20 AM							RIG UP & WAIT
4:50 AM							RIG TO CIRCULATE
6:30 AM							RIG TO P.T.
6:41							PRESSURE TEST TO 1500PSI
6:42	3	11.9				560	PUMP 500GAL. SUPER MUD FLUSH II
6:49 AM	6.5	56.4 slurry				880	PUMP TAIL 210SX @ 14.8# / STAGE #1
7:04							SHUTDOWN / DROP PLUG / W.P
7:06	6.5	10				160	DISPLACE W/ H2O 60.6BBLS
	6.5	20				160	
	6.5	30				160	
	6.5	40				160	
	6.5	50				160	
7:16	6.5	60				160	SWITCH TO MUD 58.8BBLS
	7.1	70				190	
	7	80				420	
	6.8	90				600	
	6.3	100				820	
7:20	6.2	109				1000	SLOW RATE TO 2.0BPM @ 740PSI
7:30	2	119.4				910	LAND PLUG / PRESSURE UP TO 1850PSI
7:32							RELEASE BACK — PLUG HELD
7:34							DROP OPENING TOOL

Size Hole	7 7/8"	Depth			TYPE	Plug Container	
Size & Wt. Csg.	5 1/2" 15.5#	Depth	5035.01'	New / Used	Stage Tool	2471.56'	Depth
Landing Press. 1	622.1psi	Landing Press. 2	393.4psi		Retainer		Depth
Shoe Jt.	16.50'	Type			Perfs		CIBP

Customer Signature: <i>[Signature]</i>	Basic Representative:	Daniel Beck
	Basic Signature:	<i>[Signature]</i>
	Date of Service:	4/4/2018



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Lario Oil & Gas	Cement Pump No.:	38117, 19919 13Hrs.	Operator TRK No.:	96816		
Address:		Ticket #:	1718 15653 L	Bulk TRK No.:	14355, 37724 Ruben	14354, 19578 Santiago	
City, State, Zip:		Job Type:	Z42 - Cement Production Casing				
Service District:	1718 - Liberal, Ks.	Well Type:	OIL				
Well Name and No.:	Smith Trust 3-4	Well Location:	3,18,35	County:	Wichita	State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
AA2	210	10% Gypsum, 10% Salt, .6% C-17, .25# Defoamer, 5# Gllsonite, 1/4# Polyflake	14355, 37724 Ruben	Front	Back
A-Con' Blend	380	3% Calcium Chloride, 1/4# Polyflake	14354, 19578 Santiago	Front	Back
Rat & Mouse	50		14354, 19578	Front	Back

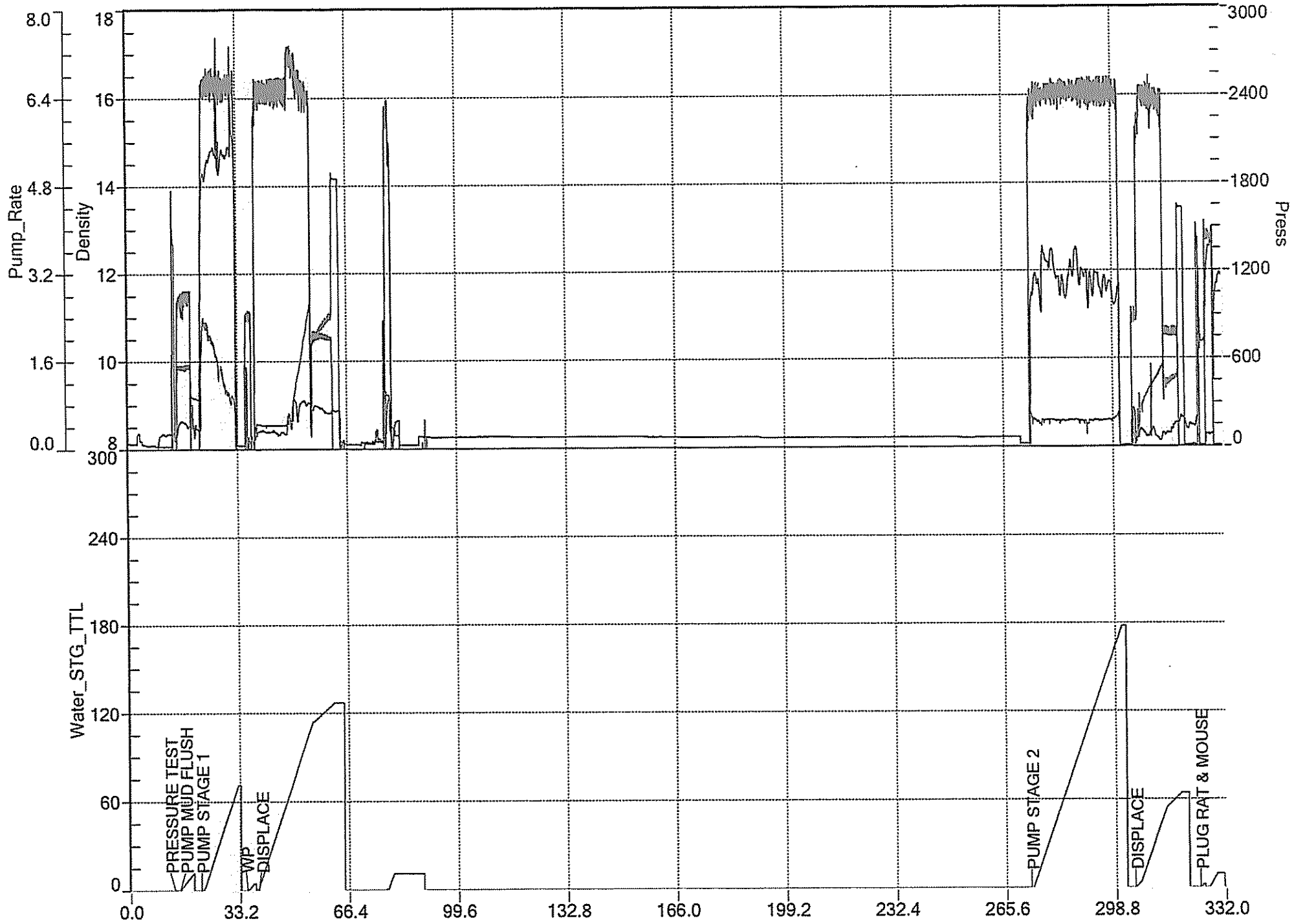
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Tail Stage: 1	14.8	1.51	6.63	317.1	TT Man Hours:	83
Tail Stage: 2	11.4	2.95	18.1	1121	# of Man on Job:	4

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
7:45		1				850	PUMP OPENING TOOL W/ 850PSI
7:50							SWITCH TO RIG PUMP & CIRCULATE
11:00 AM							RIG TO P.T.
11:04 AM	6.3	199.6 slurry				210	PUMP TAIL 380SX @ 11.4# / STAGE #2
11:33 AM							SHUTDOWN / DROP CLOSING PLUG
11:35	6.5	10				290	DISPLACE / 6BBLs IN CEMENT RETURNS
	6.4	20				360	
	6	30				430	
	6.3	40				490	
11:45	5.9	48				550	SLOW RATE TO 2.1BPM @ 410PSI
	2	50				420	
11:52	2	58.8				480	LAND CLOSING PLUG / PRESSURE UP TO 1640PSI
11:54							RELEASE BACK --- PLUG HELD
11:56							PLUG RAT & MOUSE W/ 50SX
12:00							JOB COMPLETE

Size Hole	7 7/8"	Depth			TYPE	Plug Container		
Size & Wt. Csg.	5 1/2" 15.5#	Depth	5035.01'	New / Used	Stage Tool	2471.56'	Depth	
Landing Press. 1	622.1psi	Landing Press. 2	393.4psi		Retainer		Depth	
Shoe Jt.	16.50'	Type			Perfs		CIBP	

Customer Signature: <i>[Signature]</i>	Basic Representative:	Daniel Beck
	Basic Signature:	<i>[Signature]</i>
	Date of Service:	4/4/2018

Lario Oil & Gas
Smith Trust #3-4





DRILL STEM TEST REPORT

Prepared For: **Lario Oil and Gas Company**

301 S Market
Wichita KS 67202

ATTN: Tim Lauer

Smith Trust #1-3

3-18s-35w Wichita,KS

Start Date: 2018.03.27 @ 07:45:15

End Date: 2018.03.27 @ 14:30:30

Job Ticket #: 64442 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.03 @ 10:39:49



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil and Gas Company

3-18s-35w Wichita, KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64442

DST#: 1

ATTN: Tim Lauer

Test Start: 2018.03.27 @ 07:45:15

GENERAL INFORMATION:

Formation: **LKC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:55:00

Time Test Ended: 14:30:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4085.00 ft (KB) To 4110.00 ft (KB) (TVD)

Reference Elevations: 3201.00 ft (KB)

Total Depth: 4110.00 ft (KB) (TVD)

3190.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 48.43 psig @ 4086.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.27

End Date:

2018.03.27

Last Calib.:

2018.03.27

Start Time:

07:45:15

End Time:

14:30:30

Time On Btm:

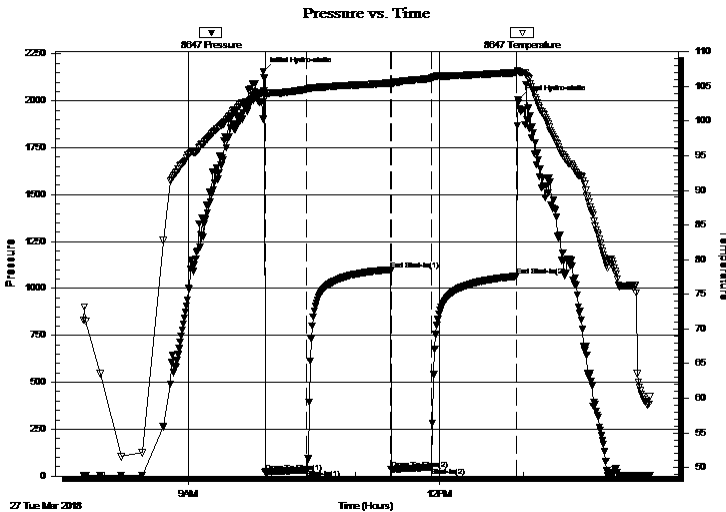
2018.03.27 @ 09:54:00

Time Off Btm:

2018.03.27 @ 12:56:00

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: Weak surface blow
FS: No return blow

PRESSURE SUMMARY



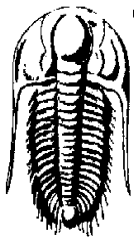
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.47	104.19	Initial Hydro-static
1	19.53	103.46	Open To Flow (1)
31	34.02	104.57	Shut-In(1)
91	1096.58	105.50	End Shut-In(1)
92	35.99	105.11	Open To Flow (2)
120	48.43	106.17	Shut-In(2)
182	1065.97	106.97	End Shut-In(2)
182	2003.87	107.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100% m	0.10

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil and Gas Company

3-18s-35w Wichita, KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64442

DST#: 1

ATTN: Tim Lauer

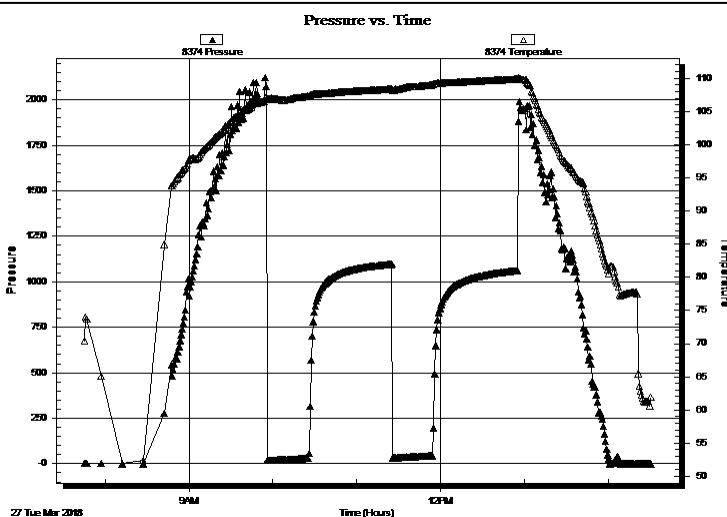
Test Start: 2018.03.27 @ 07:45:15

GENERAL INFORMATION:

Formation: LKC B		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 09:55:00		Tester: Mike Roberts
Time Test Ended: 14:30:30		Unit No: 81
Interval: 4085.00 ft (KB) To 4110.00 ft (KB) (TVD)		Reference Elevations: 3201.00 ft (KB)
Total Depth: 4110.00 ft (KB) (TVD)		3190.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 11.00 ft

Serial #: 8374	Outside		
Press@RunDepth: psig @	4086.00 ft (KB)	Capacity:	8000.00 psig
Start Date: 2018.03.27	End Date: 2018.03.27	Last Calib.:	2018.03.27
Start Time: 07:45:15	End Time: 14:30:45	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Built to 1" blow
IS: No return blow
FF: Weak surface blow
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100% m	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64442

DST#: 1

ATTN: Tim Lauer

Test Start: 2018.03.27 @ 07:45:15

Tool Information

Drill Pipe:	Length: 3860.00 ft	Diameter: 3.80 inches	Volume: 54.15 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4085.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4058.00	
Shut In Tool	5.00			4063.00	
Hydraulic tool	5.00			4068.00	
Jars	5.00			4073.00	
Safety Joint	3.00			4076.00	
Packer	5.00			4081.00	28.00 Bottom Of Top Packer
Packer	4.00			4085.00	
Stubb	1.00			4086.00	
Recorder	0.00	8647	Inside	4086.00	
Recorder	0.00	8374	Outside	4086.00	
Perforations	17.00			4103.00	
Bullnose	5.00			4108.00	23.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64442

DST#: 1

ATTN: Tim Lauer

Test Start: 2018.03.27 @ 07:45:15

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.11 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

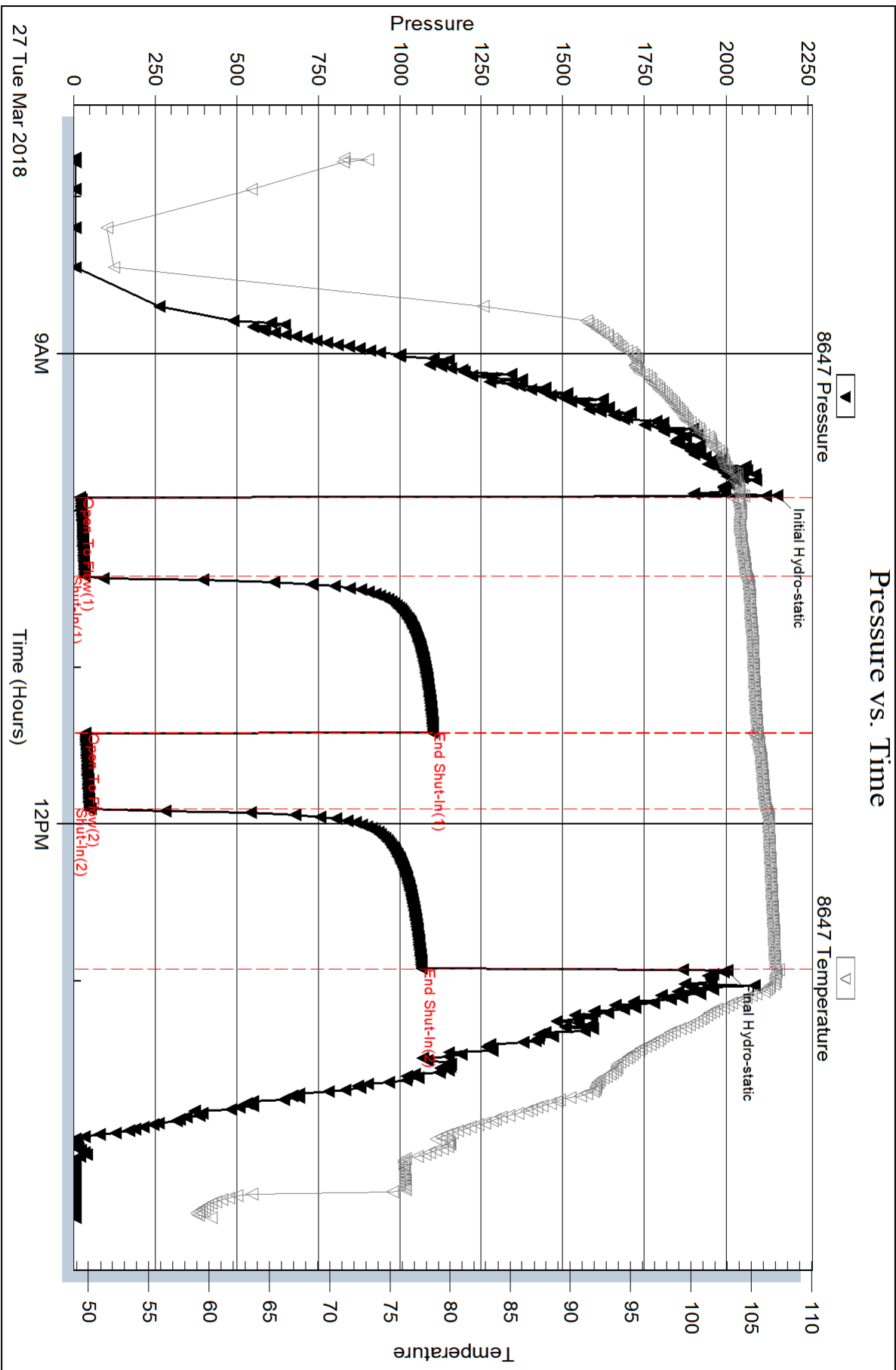
Serial #: 8647

Inside

Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 1



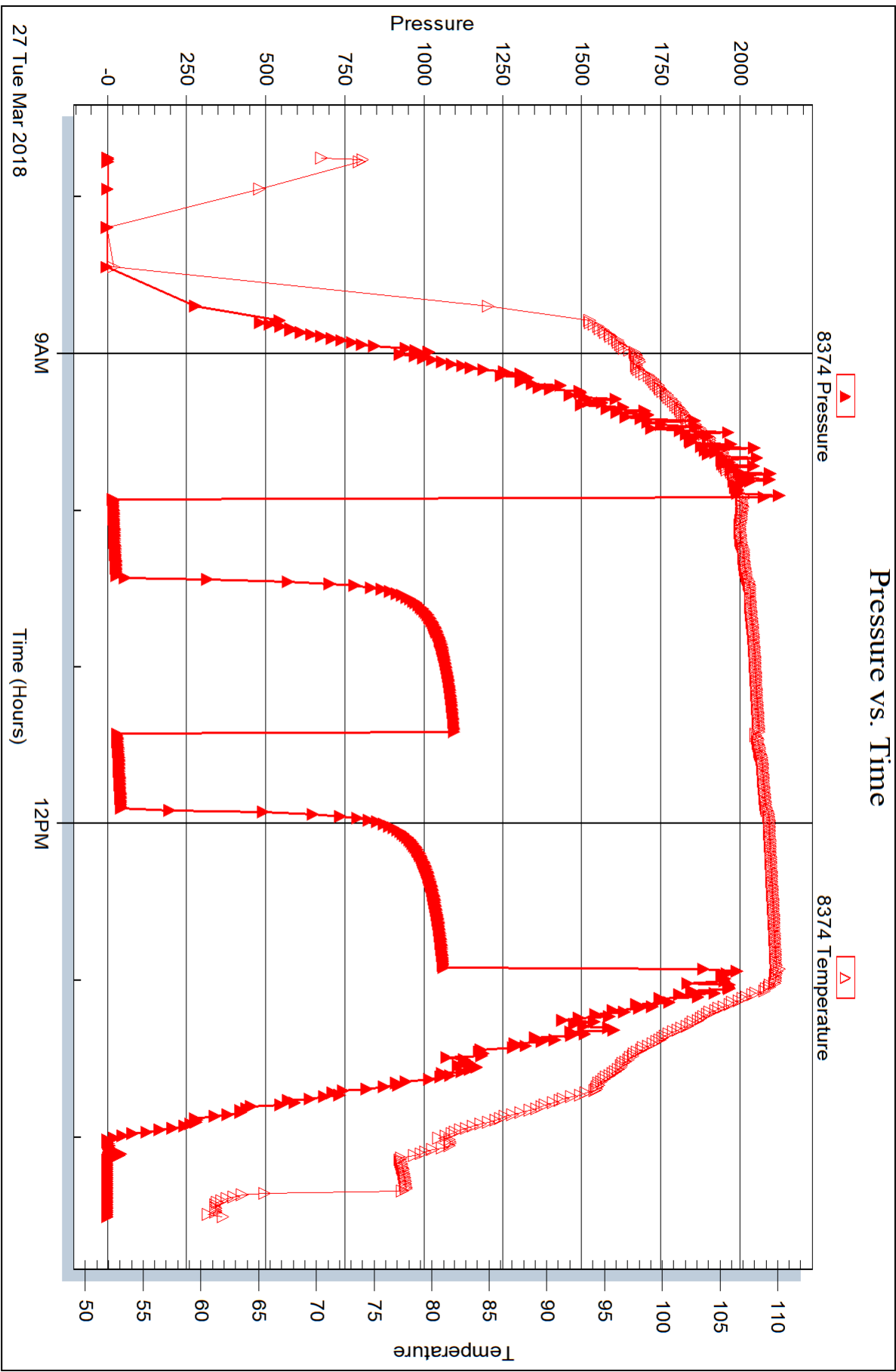
Serial #: 8374

Outside

Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Lario Oil and Gas Company**

301 S Market
Wichita KS 67202

ATTN: Tim Lauer

Smith Trust #1-3

3-18s-35w Wichita,KS

Start Date: 2018.03.27 @ 23:14:15

End Date: 2018.03.28 @ 06:04:45

Job Ticket #: 64443 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.03 @ 10:38:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil and Gas Company

3-18s-35w Wichita, KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64443

DST#: 2

ATTN: Tim Lauer

Test Start: 2018.03.27 @ 23:14:15

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:14:30

Time Test Ended: 06:04:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4138.00 ft (KB) To 4170.00 ft (KB) (TVD)

Reference Elevations: 3201.00 ft (KB)

Total Depth: 4170.00 ft (KB) (TVD)

3190.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 129.47 psig @ 4139.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.27

End Date:

2018.03.28

Last Calib.:

2018.03.28

Start Time: 23:14:15

End Time:

06:04:45

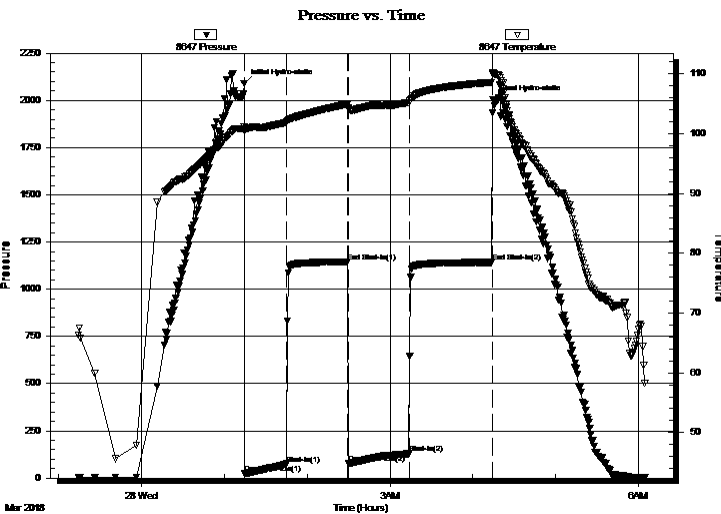
Time On Btm:

2018.03.28 @ 01:14:15

Time Off Btm:

2018.03.28 @ 04:14:30

TEST COMMENT: IF: Built to 3 1/2" blow
IS: No return blow
FF: Built to 5 1/2" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2089.86	101.09	Initial Hydro-static
1	22.78	100.42	Open To Flow (1)
31	73.98	101.91	Shut-In(1)
75	1144.59	104.95	End Shut-In(1)
76	77.08	104.42	Open To Flow (2)
120	129.47	105.24	Shut-In(2)
180	1142.35	108.61	End Shut-In(2)
181	2004.79	110.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
214.00	mcw 10% m 90% w	1.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64443

DST#: 2

ATTN: Tim Lauer

Test Start: 2018.03.27 @ 23:14:15

Tool Information

Drill Pipe:	Length: 3923.00 ft	Diameter: 3.80 inches	Volume: 55.03 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 56.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4138.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4111.00	
Shut In Tool	5.00			4116.00	
Hydraulic tool	5.00			4121.00	
Jars	5.00			4126.00	
Safety Joint	3.00			4129.00	
Packer	5.00			4134.00	28.00 Bottom Of Top Packer
Packer	4.00			4138.00	
Stubb	1.00			4139.00	
Recorder	0.00	8647	Inside	4139.00	
Recorder	0.00	8374	Outside	4139.00	
Perforations	26.00			4165.00	
Bullnose	5.00			4170.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64443

DST#: 2

ATTN: Tim Lauer

Test Start: 2018.03.27 @ 23:14:15

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:

30000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.12 in³

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
214.00	mcw 10%m 90%w	1.052

Total Length: 214.00 ft Total Volume: 1.052 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= 25.9@ 67.3= 30,000 ppm

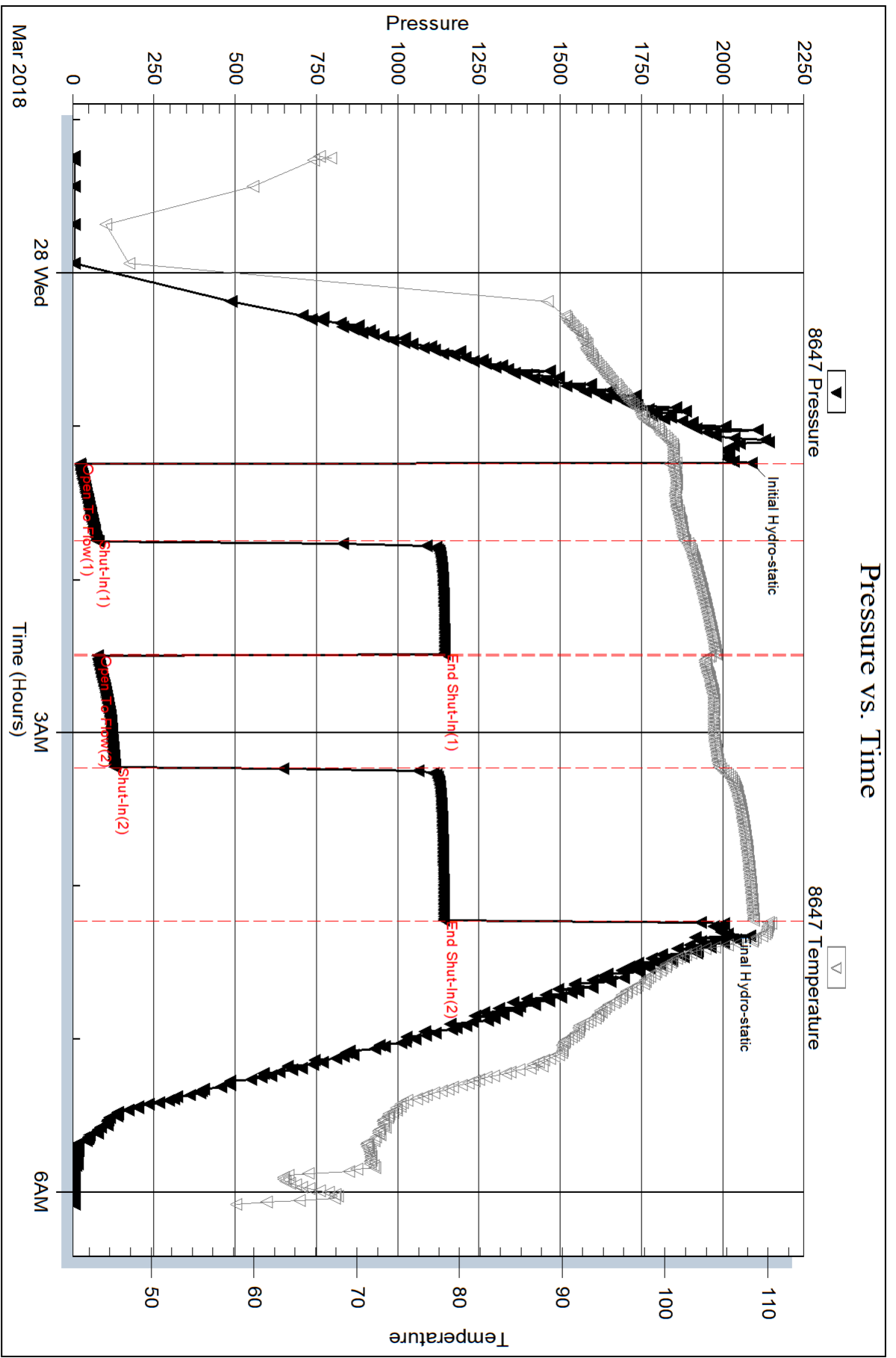
Serial #: 8647

Inside

Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 64443

Printed: 2018.04.03 @ 10:38:38

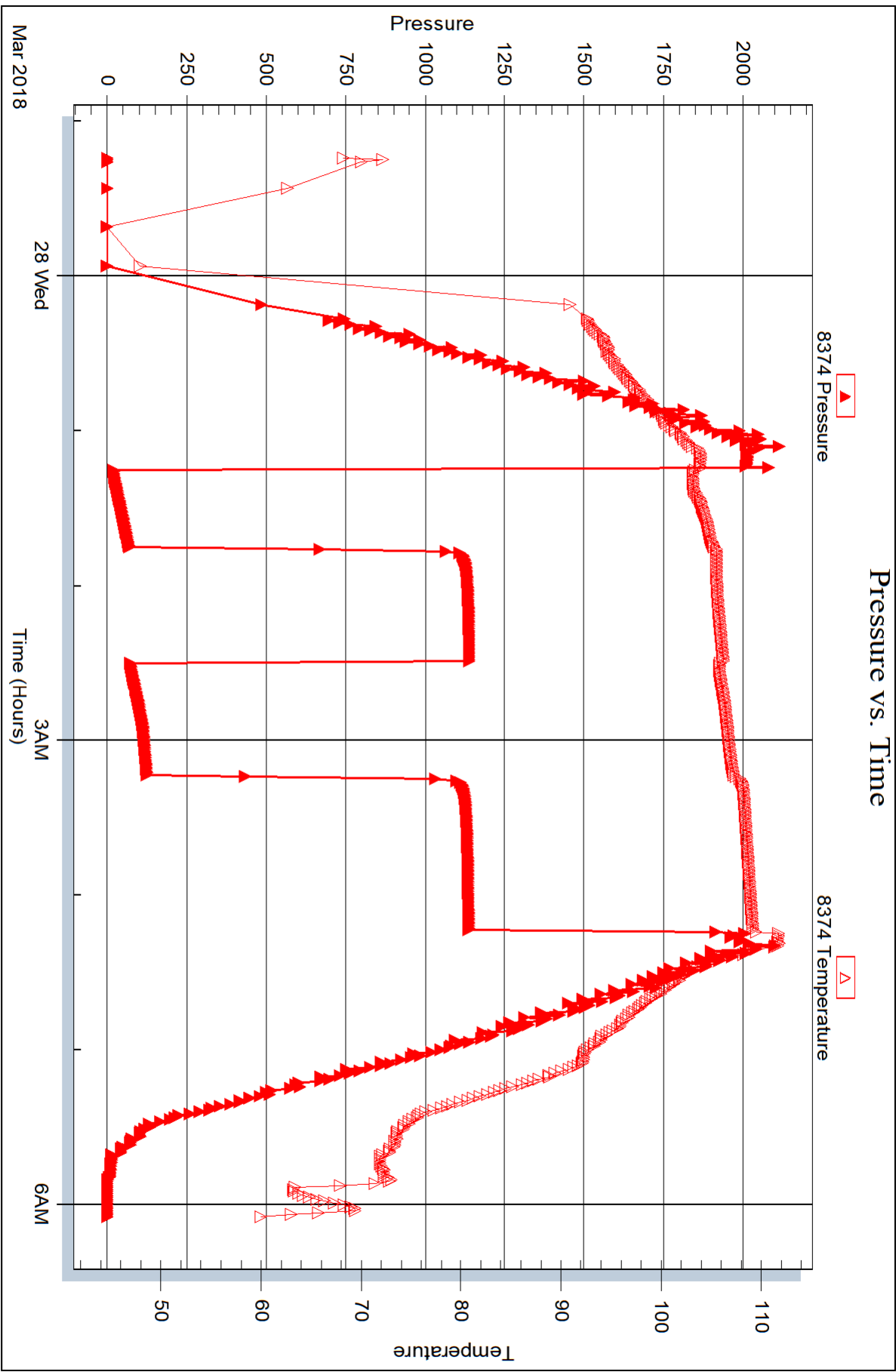
Serial #: 8374

Outside

Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Lario Oil and Gas Company**

301 S Market
Wichita KS 67202

ATTN: Tim Lauer

Smith Trust #1-3

3-18s-35w Wichita,KS

Start Date: 2018.03.28 @ 22:23:15

End Date: 2018.03.29 @ 04:38:15

Job Ticket #: 64444 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.03 @ 10:38:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64444

DST#: 3

ATTN: Tim Lauer

Test Start: 2018.03.28 @ 22:23:15

GENERAL INFORMATION:

Formation: **LKC I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:37:30

Time Test Ended: 04:38:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4291.00 ft (KB) To 4332.00 ft (KB) (TVD)

Reference Elevations: 3201.00 ft (KB)

Total Depth: 4332.00 ft (KB) (TVD)

3190.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 923.80 psig @ 4292.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.28

End Date:

2018.03.29

Last Calib.:

2018.03.29

Start Time: 22:23:15

End Time:

04:38:15

Time On Btm:

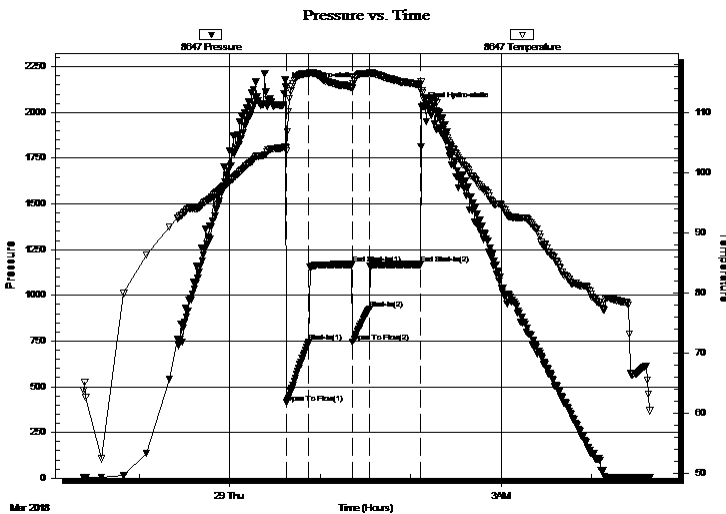
2018.03.29 @ 00:37:15

Time Off Btm:

2018.03.29 @ 02:07:15

TEST COMMENT: IFP BOB in 1 min.
IS:No return blow
FF:BOB in 1 min.
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2142.62	104.15	Initial Hydro-static
1	412.36	103.54	Open To Flow (1)
16	744.73	116.47	Shut-In(1)
44	1169.31	114.12	End Shut-In(1)
45	742.94	113.90	Open To Flow (2)
56	923.80	116.43	Shut-In(2)
90	1169.54	114.61	End Shut-In(2)
90	2029.98	113.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	w cm 5%w 95%m	0.91
124.00	w cm 10%w 90%m	1.48
248.00	w cm 30%w 70%m	3.48
1268.00	sw 100% sw	17.79

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64444

DST#: 3

ATTN: Tim Lauer

Test Start: 2018.03.28 @ 22:23:15

Tool Information

Drill Pipe:	Length: 4060.00 ft	Diameter: 3.80 inches	Volume: 56.95 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4291.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4264.00	
Shut In Tool	5.00			4269.00	
Hydraulic tool	5.00			4274.00	
Jars	5.00			4279.00	
Safety Joint	3.00			4282.00	
Packer	5.00			4287.00	28.00 Bottom Of Top Packer
Packer	4.00			4291.00	
Stubb	1.00			4292.00	
Recorder	0.00	8647	Inside	4292.00	
Recorder	0.00	8374	Outside	4292.00	
Perforations	35.00			4327.00	
Bullnose	5.00			4332.00	41.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64444

DST#: 3

ATTN: Tim Lauer

Test Start: 2018.03.28 @ 22:23:15

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:

28000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.92 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	w cm 5%w 95%m	0.915
124.00	w cm 10%w 90%m	1.484
248.00	w cm 30%w 70%m	3.479
1268.00	sw 100% sw	17.787

Total Length: 1826.00 ft Total Volume: 23.665 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .519@41.3*= 28,000 ppm

Serial #: 8647

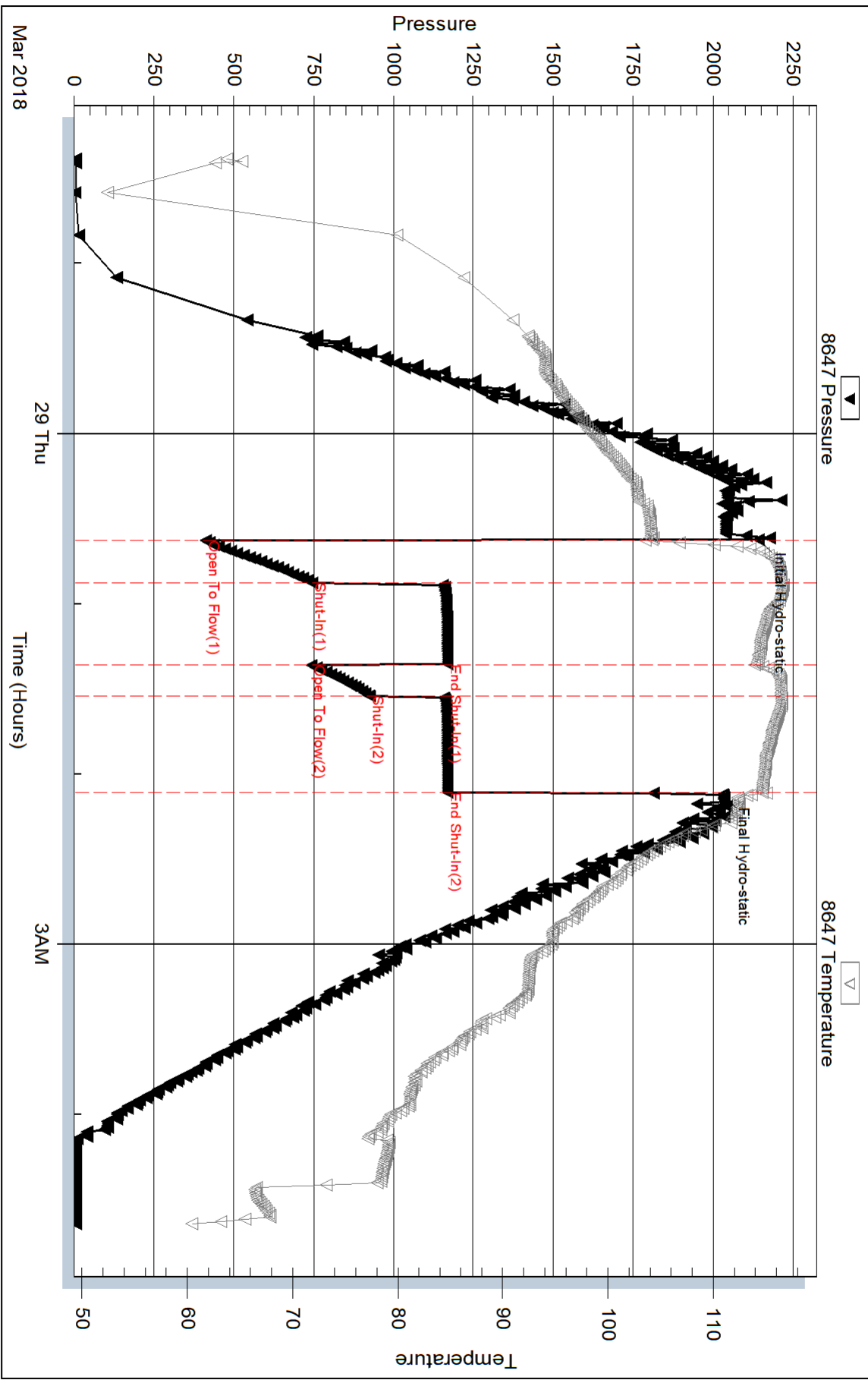
Inside

Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64444

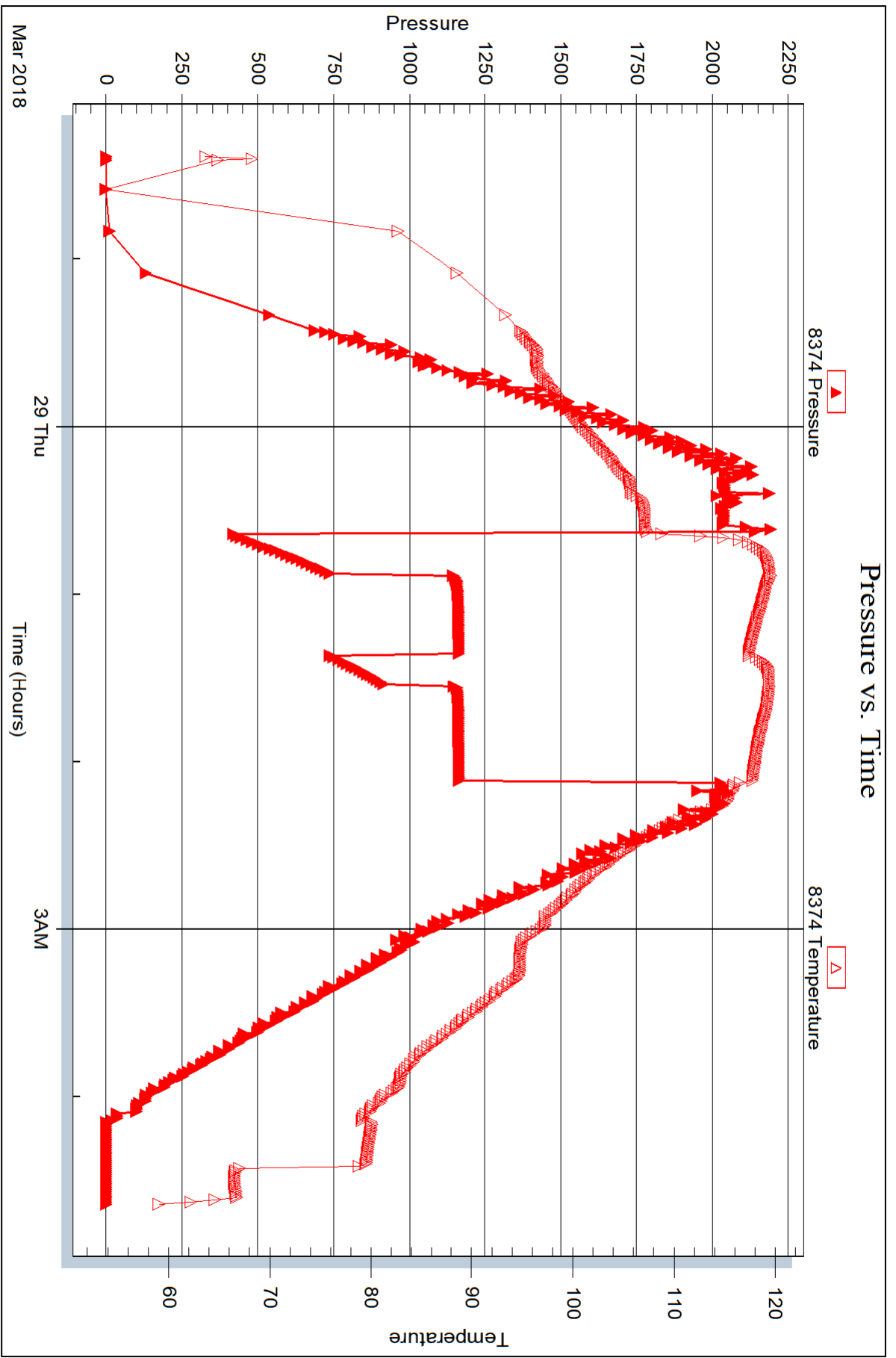
Printed: 2018.04.03 @ 10:38:15

Serial #: 8374

Outside Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64444

Printed: 2018.04.03 @ 10:38:15



DRILL STEM TEST REPORT

Prepared For: **Lario Oil and Gas Company**

301 S Market
Wichita KS 67202

ATTN: Tim Lauer

Smith Trust #1-3

3-18s-35w Wichita,KS

Start Date: 2018.03.29 @ 00:10:15

End Date: 2018.03.29 @ 07:19:15

Job Ticket #: 64445 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.03 @ 10:37:49



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64445

DST#: 4

ATTN: Tim Lauer

Test Start: 2018.03.29 @ 00:10:15

GENERAL INFORMATION:

Formation: **Marmaton A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:26:15

Time Test Ended: 07:19:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4477.00 ft (KB) To 4528.00 ft (KB) (TVD)

Reference Elevations: 3201.00 ft (KB)

Total Depth: 4528.00 ft (KB) (TVD)

3190.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 83.89 psig @ 4513.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.29

End Date:

2018.03.29

Last Calib.:

2018.03.30

Start Time: 00:10:15

End Time:

07:19:15

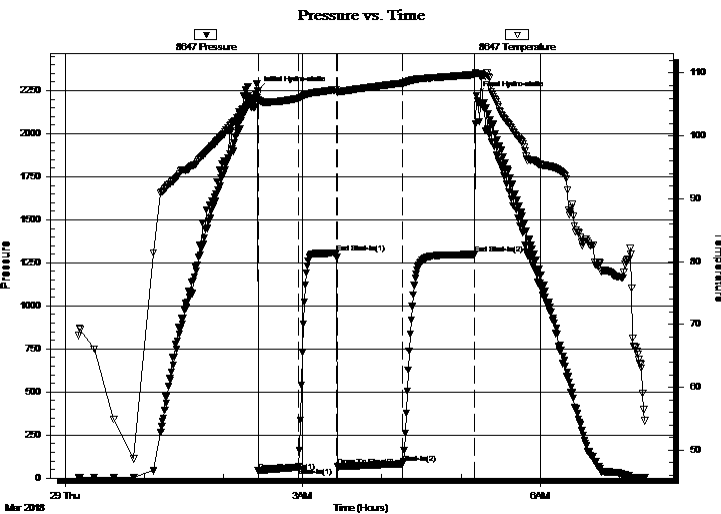
Time On Btm:

2018.03.29 @ 02:26:00

Time Off Btm:

2018.03.29 @ 05:11:45

TEST COMMENT: IF: Built to 2" blow
IS: No return blow
FF: Built to weak surface blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.48	106.68	Initial Hydro-static
1	41.79	105.59	Open To Flow (1)
31	62.77	105.97	Shut-In(1)
60	1306.34	107.34	End Shut-In(1)
61	66.50	106.97	Open To Flow (2)
110	83.89	108.39	Shut-In(2)
165	1299.95	109.75	End Shut-In(2)
166	2222.49	109.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	w cm with show of oil 1%w 99%m	0.34

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64445

DST#: 4

ATTN: Tim Lauer

Test Start: 2018.03.29 @ 00:10:15

Tool Information

Drill Pipe:	Length: 4240.00 ft	Diameter: 3.80 inches	Volume: 59.48 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4477.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4450.00	
Shut In Tool	5.00			4455.00	
Hydraulic tool	5.00			4460.00	
Jars	5.00			4465.00	
Safety Joint	3.00			4468.00	
Packer	5.00			4473.00	28.00 Bottom Of Top Packer
Packer	4.00			4477.00	
Stubb	1.00			4478.00	
Perforations	2.00			4480.00	
Change Over Sub	1.00			4481.00	
Drill Pipe	31.00			4512.00	
Change Over Sub	1.00			4513.00	
Recorder	0.00	8647	Inside	4513.00	
Recorder	0.00	8374	Outside	4513.00	
Perforations	10.00			4523.00	
Bullnose	5.00			4528.00	51.00 Bottom Packers & Anchor
Total Tool Length:	79.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64445

DST#: 4

ATTN: Tim Lauer

Test Start: 2018.03.29 @ 00:10:15

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	w cm with show of oil 1%w 99%m	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

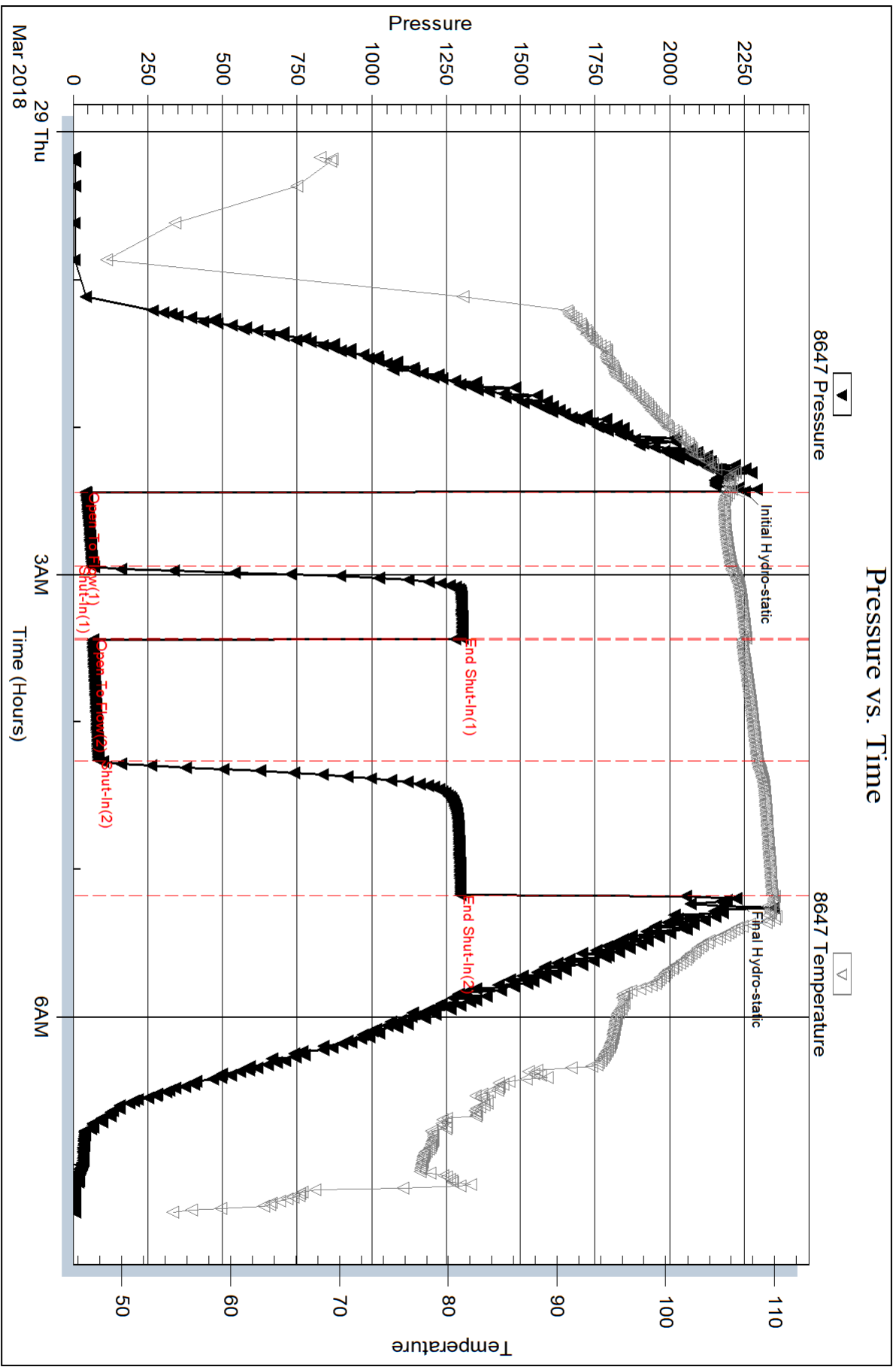
Serial #: 8647

Inside

Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 4

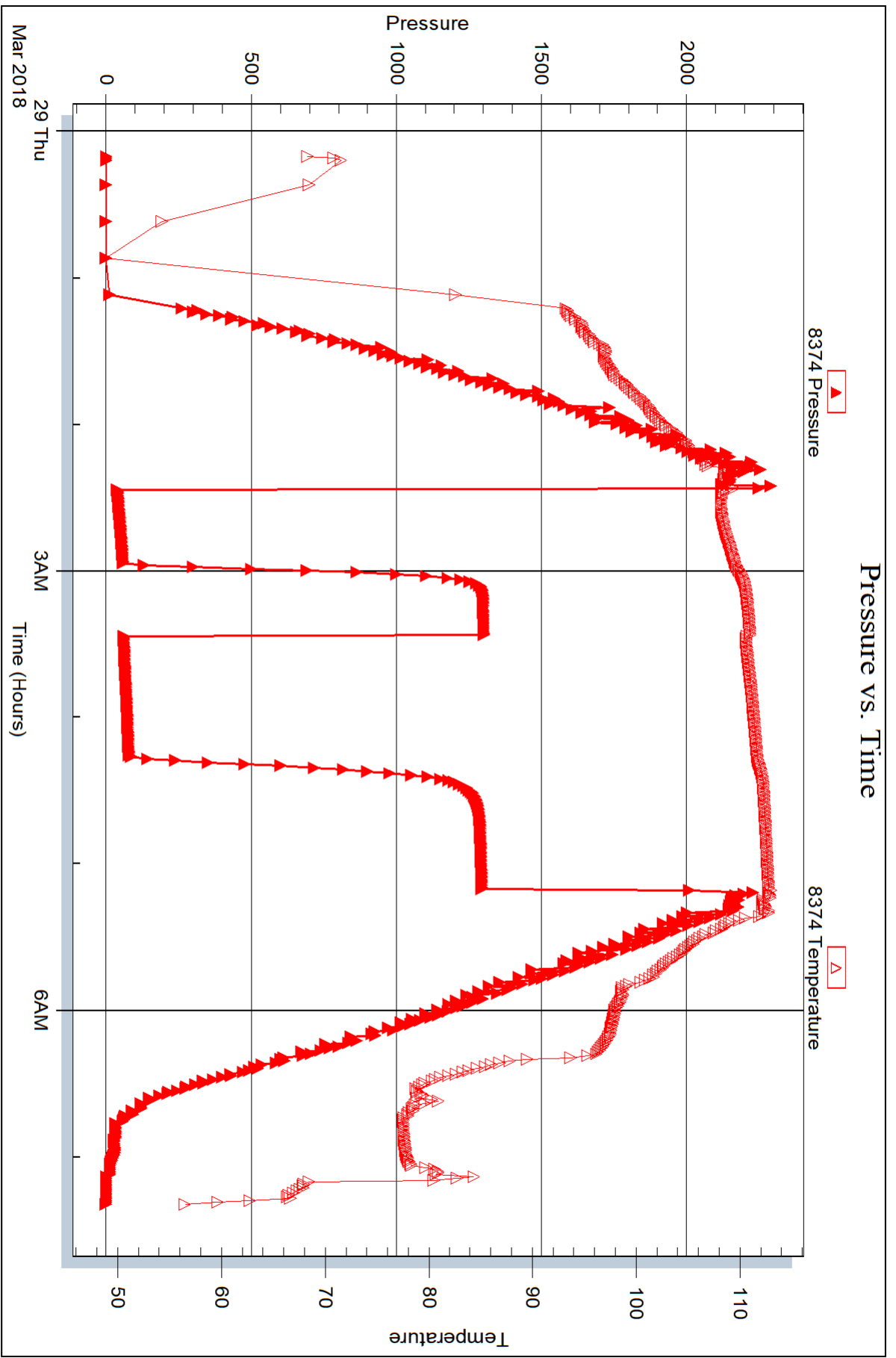


Serial #: 8374

Outside Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 64445

Printed: 2018.04.03 @ 10:37:50



DRILL STEM TEST REPORT

Prepared For: **Lario Oil and Gas Company**

301 S Market
Wichita KS 67202

ATTN: Tim Lauer

Smith Trust #1-3

3-18s-35w Wichita,KS

Start Date: 2018.03.30 @ 16:13:15

End Date: 2018.03.30 @ 22:35:15

Job Ticket #: 64446 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.03 @ 10:37:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64446

DST#: 5

ATTN: Tim Lauer

Test Start: 2018.03.30 @ 16:13:15

GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:21:00

Time Test Ended: 22:35:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4528.00 ft (KB) To 4560.00 ft (KB) (TVD)

Reference Elevations: 3201.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

3190.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 27.21 psig @ 4529.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.30

End Date:

2018.03.30

Last Calib.: 2018.03.30

Start Time: 16:13:15

End Time:

22:35:15

Time On Btm: 2018.03.30 @ 18:20:45

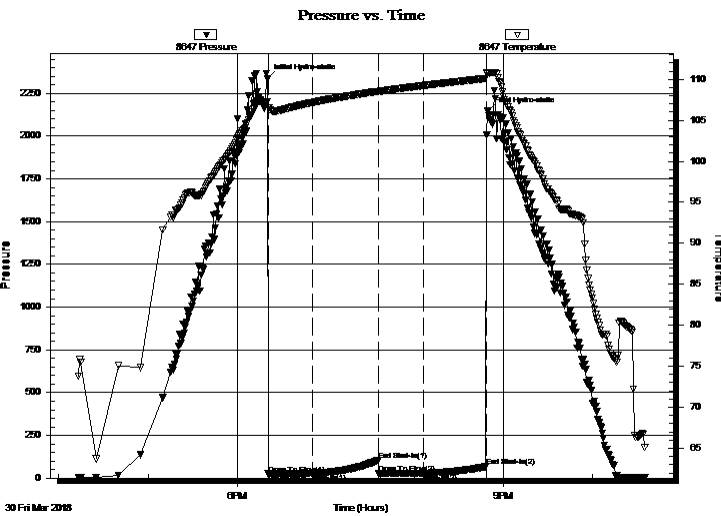
Time Off Btm: 2018.03.30 @ 20:49:15

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	2333.30	107.26	Initial Hydro-static
1	24.44	106.51	Open To Flow (1)
30	26.94	107.17	Shut-In(1)
75	106.04	108.54	End Shut-In(1)
75	26.09	108.51	Open To Flow (2)
105	27.21	109.24	Shut-In(2)
148	66.94	110.10	End Shut-In(2)
149	2145.02	110.71	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64446

DST#: 5

ATTN: Tim Lauer

Test Start: 2018.03.30 @ 16:13:15

Tool Information

Drill Pipe:	Length: 4306.00 ft	Diameter: 3.80 inches	Volume: 60.40 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4528.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4501.00	
Shut In Tool	5.00			4506.00	
Hydraulic tool	5.00			4511.00	
Jars	5.00			4516.00	
Safety Joint	3.00			4519.00	
Packer	5.00			4524.00	28.00 Bottom Of Top Packer
Packer	4.00			4528.00	
Stubb	1.00			4529.00	
Recorder	0.00	8647	Inside	4529.00	
Recorder	0.00	8374	Outside	4529.00	
Perforations	26.00			4555.00	
Bullnose	5.00			4560.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64446

DST#: 5

ATTN: Tim Lauer

Test Start: 2018.03.30 @ 16:13:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w ith oil spots	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:

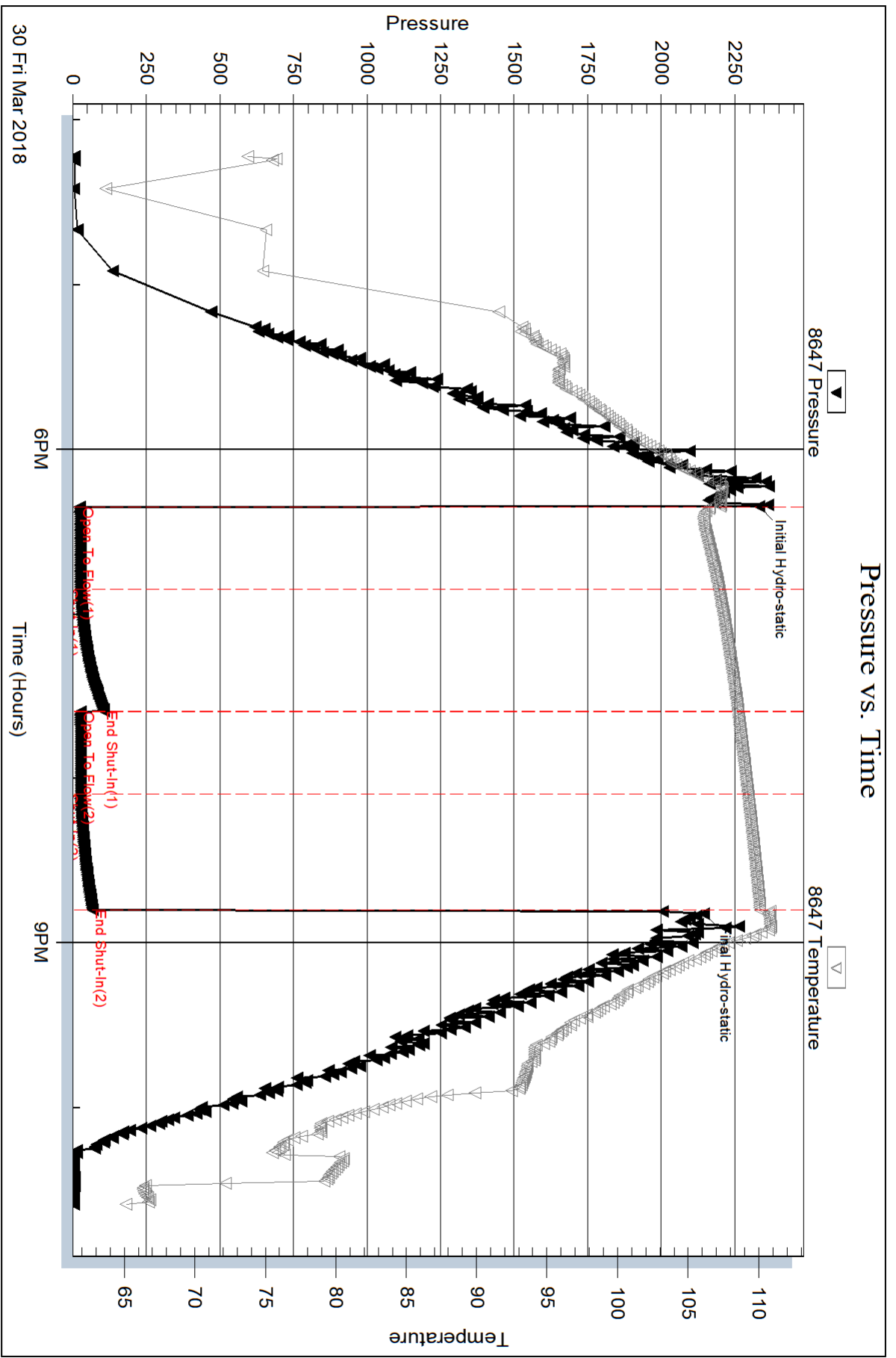
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Inside

Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 64446

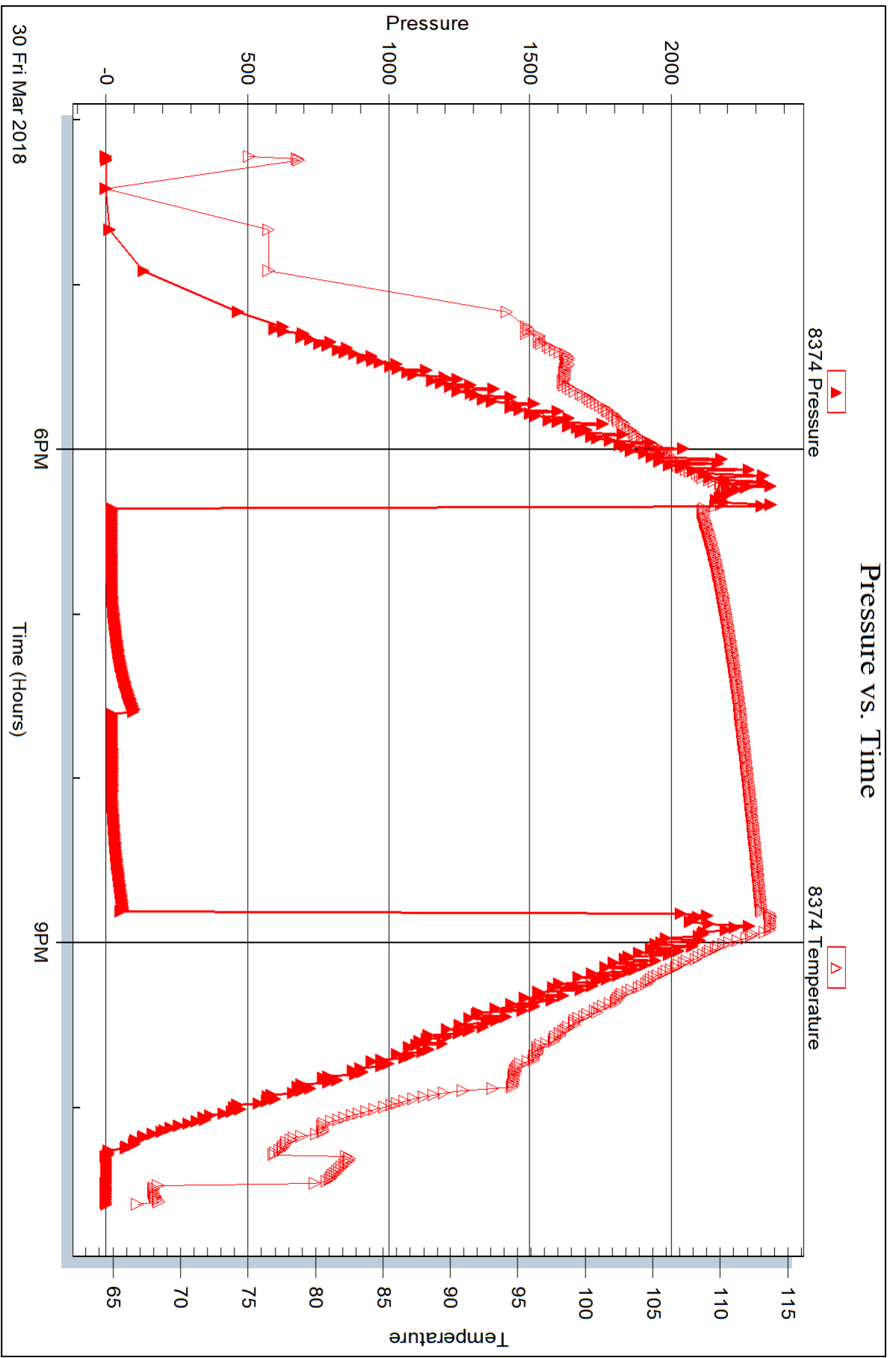
Printed: 2018.04.03 @ 10:37:25

Serial #: 8374

Outside Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 64446

Printed: 2018.04.03 @ 10:37:25



DRILL STEM TEST REPORT

Prepared For: **Lario Oil and Gas Company**

301 S Market
Wichita KS 67202

ATTN: Tim Lauer

Smith Trust #1-3

3-18s-35w Wichita,KS

Start Date: 2018.03.31 @ 17:22:15

End Date: 2018.04.01 @ 01:15:00

Job Ticket #: 64447 DST #: 6

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.03 @ 10:36:58

Lario Oil and Gas Company
3-18s-35w Wichita,KS
Smith Trust #1-3
DST # 6
Marmaton C-Pawnee
2018.03.31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil and Gas Company

3-18s-35w Wichita, KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64447

DST#: 6

ATTN: Tim Lauer

Test Start: 2018.03.31 @ 17:22:15

GENERAL INFORMATION:

Formation: **Marmaton C-Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:40:00

Time Test Ended: 01:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4557.00 ft (KB) To 4615.00 ft (KB) (TVD)

Reference Elevations: 3201.00 ft (KB)

Total Depth: 4615.00 ft (KB) (TVD)

3190.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 690.68 psig @ 4596.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.03.31

End Date:

2018.04.01

Last Calib.: 2018.04.01

Start Time: 17:22:15

End Time:

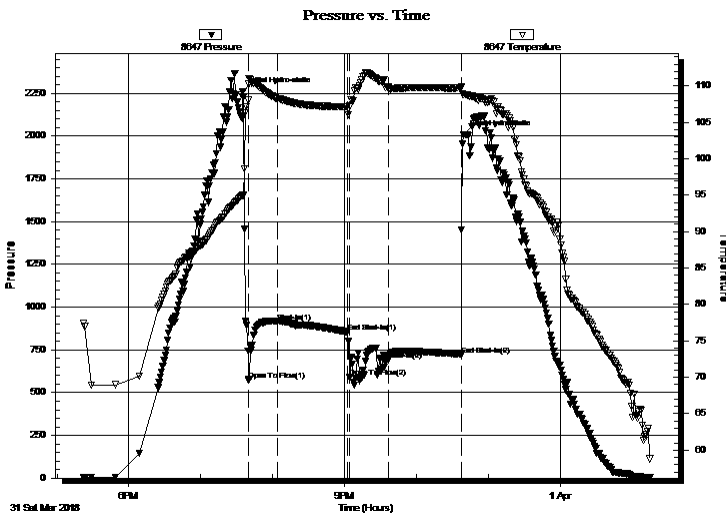
01:15:00

Time On Btm: 2018.03.31 @ 19:35:00

Time Off Btm: 2018.03.31 @ 22:39:15

TEST COMMENT: IF:BOB in 1 min.
IS:No return blow
FF:No blow ---flushed tool BOB in 1 min.
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2259.28	95.08	Initial Hydro-static
5	573.22	110.25	Open To Flow (1)
29	914.98	108.27	Shut-In(1)
88	854.42	107.19	End Shut-In(1)
90	591.82	107.23	Open To Flow (2)
122	690.68	109.81	Shut-In(2)
182	721.83	109.73	End Shut-In(2)
185	2007.69	108.85	Final Hydro-static

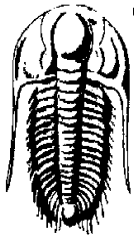
Recovery

Length (ft)	Description	Volume (bbl)
1030.00	mud 100%m	12.50

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil and Gas Company

301 S Market
Wichita KS 67202

ATTN: Tim Lauer

3-18s-35w Wichita, KS

Smith Trust #1-3

Job Ticket: 64447

DST#: 6

Test Start: 2018.03.31 @ 17:22:15

GENERAL INFORMATION:

Formation: **Marmaton C-Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:40:00

Time Test Ended: 01:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4557.00 ft (KB) To 4615.00 ft (KB) (TVD)

Total Depth: 4615.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3201.00 ft (KB)

3190.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8374 Outside

Press@RunDepth: psig @ 4596.00 ft (KB)

Start Date: 2018.03.31

End Date:

2018.04.01

Start Time: 17:22:15

End Time:

01:15:00

Capacity: 8000.00 psig

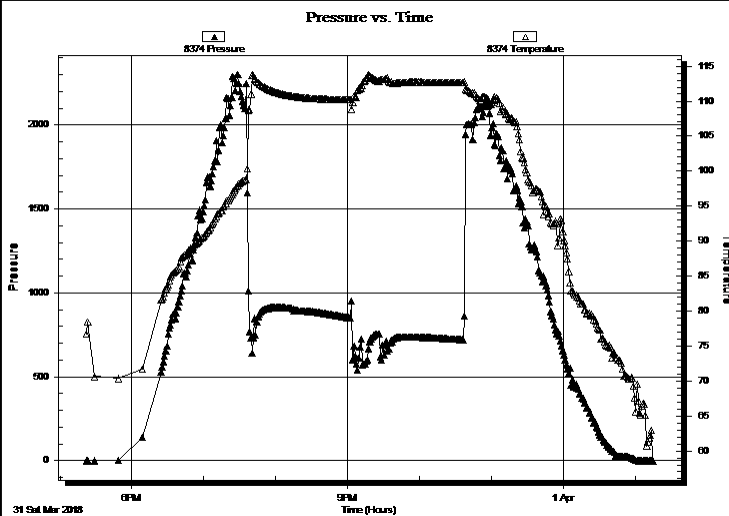
Last Calib.:

2018.04.01

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 1 min.
IS:No return blow
FF:No blow ---flushed tool BOB in 1 min.
FS:No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1030.00	mud 100%m	12.50

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64447

DST#: 6

ATTN: Tim Lauer

Test Start: 2018.03.31 @ 17:22:15

Tool Information

Drill Pipe:	Length: 4335.00 ft	Diameter: 3.80 inches	Volume: 60.81 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 61.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4557.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	86.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4530.00	
Shut In Tool	5.00			4535.00	
Hydraulic tool	5.00			4540.00	
Jars	5.00			4545.00	
Safety Joint	3.00			4548.00	
Packer	5.00			4553.00	28.00 Bottom Of Top Packer
Packer	4.00			4557.00	
Stubb	1.00			4558.00	
Perforations	4.00			4562.00	
Change Over Sub	1.00			4563.00	
Drill Pipe	32.00			4595.00	
Change Over Sub	1.00			4596.00	
Recorder	0.00	8647	Inside	4596.00	
Recorder	0.00	8374	Outside	4596.00	
Perforations	14.00			4610.00	
Bullnose	5.00			4615.00	58.00 Bottom Packers & Anchor
Total Tool Length:	86.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64447

DST#: 6

ATTN: Tim Lauer

Test Start: 2018.03.31 @ 17:22:15

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1030.00	mud 100%m	12.499

Total Length: 1030.00 ft Total Volume: 12.499 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Lost circulation at 4605. Lost fluid during test, packer seated good .

Serial #: 8647

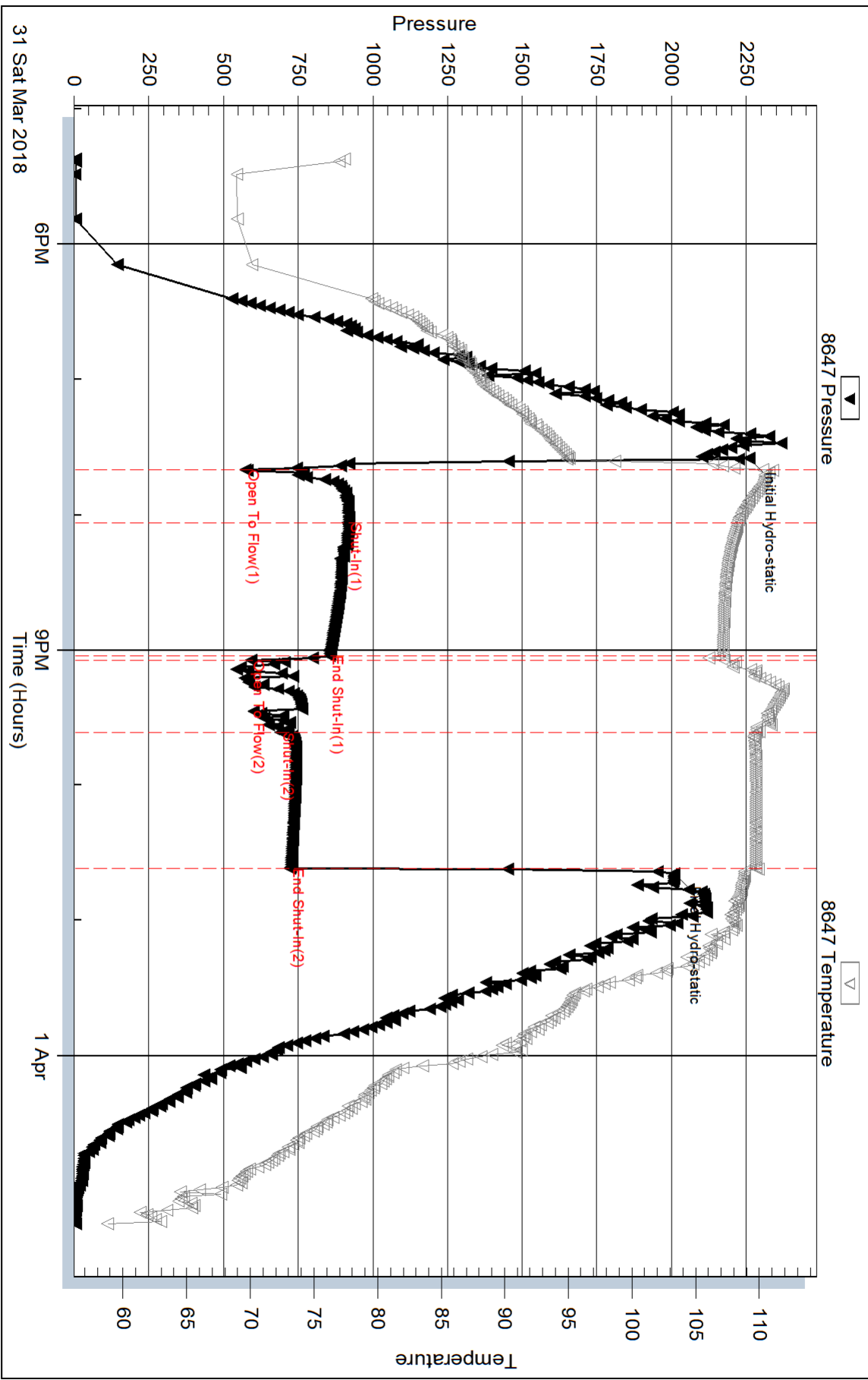
Inside

Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 6

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64447

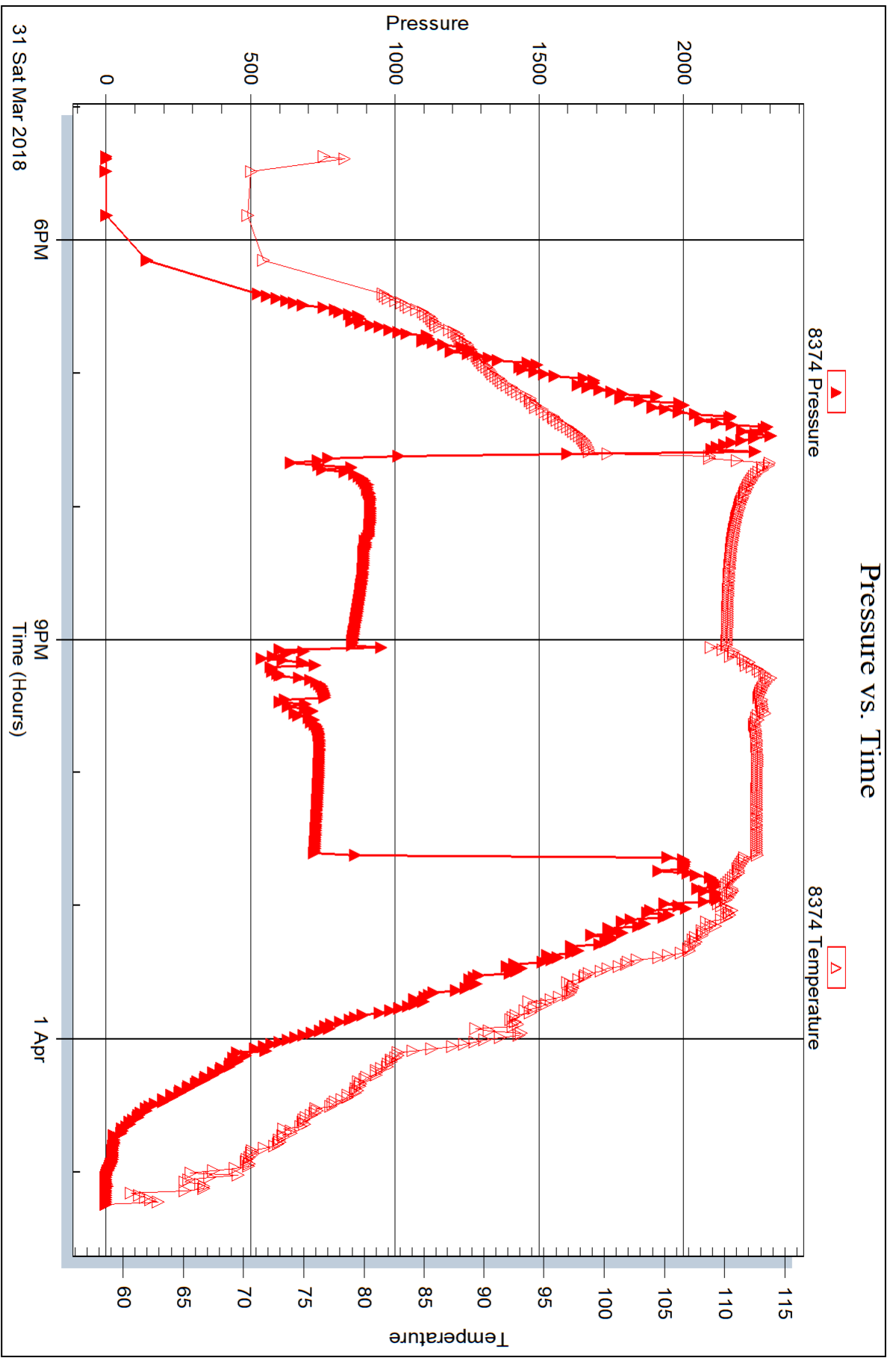
Printed: 2018.04.03 @ 10:36:59

Serial #: 8374

Outside Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 64447

Printed: 2018.04.03 @ 10:36:59



DRILL STEM TEST REPORT

Prepared For: **Lario Oil and Gas Company**

301 S Market
Wichita KS 67202

ATTN: Tim Lauer

Smith Trust #1-3

3-18s-35w Wichita,KS

Start Date: 2018.04.02 @ 03:07:15

End Date: 2018.04.02 @ 11:47:45

Job Ticket #: 64448 DST #: 7

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.03 @ 10:35:55



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil and Gas Company

3-18s-35w Wichita, KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

ATTN: Tim Lauer

Job Ticket: 64448

DST#: 7

Test Start: 2018.04.02 @ 03:07:15

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:38:15

Time Test Ended: 11:47:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4810.00 ft (KB) To 4850.00 ft (KB) (TVD)

Reference Elevations: 3201.00 ft (KB)

Total Depth: 4850.00 ft (KB) (TVD)

3190.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 257.87 psig @ 4845.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.04.02

End Date:

2018.04.02

Last Calib.:

2018.04.02

Start Time:

03:07:15

End Time:

11:47:45

Time On Btm:

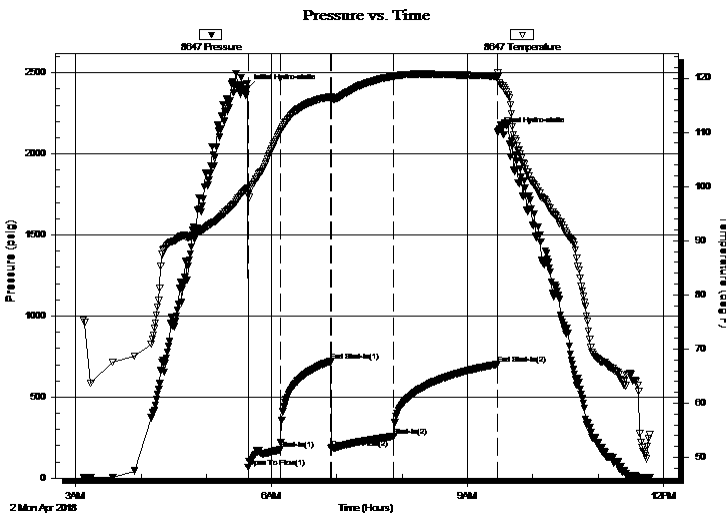
2018.04.02 @ 05:37:45

Time Off Btm:

2018.04.02 @ 09:27:45

TEST COMMENT: IF:BOB in 12 min.
IS:No return blow
FF:BOB in 27 min.
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2403.86	99.65	Initial Hydro-static
1	68.15	98.47	Open To Flow (1)
31	176.47	110.16	Shut-In(1)
77	718.93	116.55	End Shut-In(1)
77	184.59	116.34	Open To Flow (2)
135	257.87	120.33	Shut-In(2)
230	702.20	120.38	End Shut-In(2)
230	2134.21	121.05	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	GIP= 124 ft	0.00
184.00	ocw 1%o 99%w (collars)	0.90
124.00	ocmw 10%o 10%m 80%w	1.47
62.00	gcmw o 5%g 30%w 30%m 35%o	0.87
124.00	gcom 5%g 20%o 75%m	1.74
30.00	ocm 50%o 50%m	0.42

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64448

DST#: 7

ATTN: Tim Lauer

Test Start: 2018.04.02 @ 03:07:15

Tool Information

Drill Pipe:	Length: 4589.00 ft	Diameter: 3.80 inches	Volume: 64.37 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 214.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 65.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4810.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4783.00	
Shut In Tool	5.00			4788.00	
Hydraulic tool	5.00			4793.00	
Jars	5.00			4798.00	
Safety Joint	3.00			4801.00	
Packer	5.00			4806.00	28.00 Bottom Of Top Packer
Packer	4.00			4810.00	
Stubb	1.00			4811.00	
Perforations	1.00			4812.00	
Change Over Sub	1.00			4813.00	
Drill Pipe	31.00			4844.00	
Change Over Sub	1.00			4845.00	
Recorder	0.00	8647	Inside	4845.00	
Recorder	0.00	8374	Outside	4845.00	
Bullnose	5.00			4850.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas Company

3-18s-35w Wichita,KS

301 S Market
Wichita KS 67202

Smith Trust #1-3

Job Ticket: 64448

DST#: 7

ATTN: Tim Lauer

Test Start: 2018.04.02 @ 03:07:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

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
0.00	GIP= 124 ft	0.000
184.00	ocw 1%o 99%w (collars)	0.905
124.00	ocmw 10%o 10%m 80%w	1.466
62.00	gcmw o 5%g 30%w 30%m 35%o	0.870
124.00	gcom 5%g 20%o 75%m	1.739
30.00	ocm 50%o 50%m	0.421

Total Length: 524.00 ft

Total Volume: 5.401 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .425@53.3 = 25,000 ppm

API= 26

Serial #: 8647

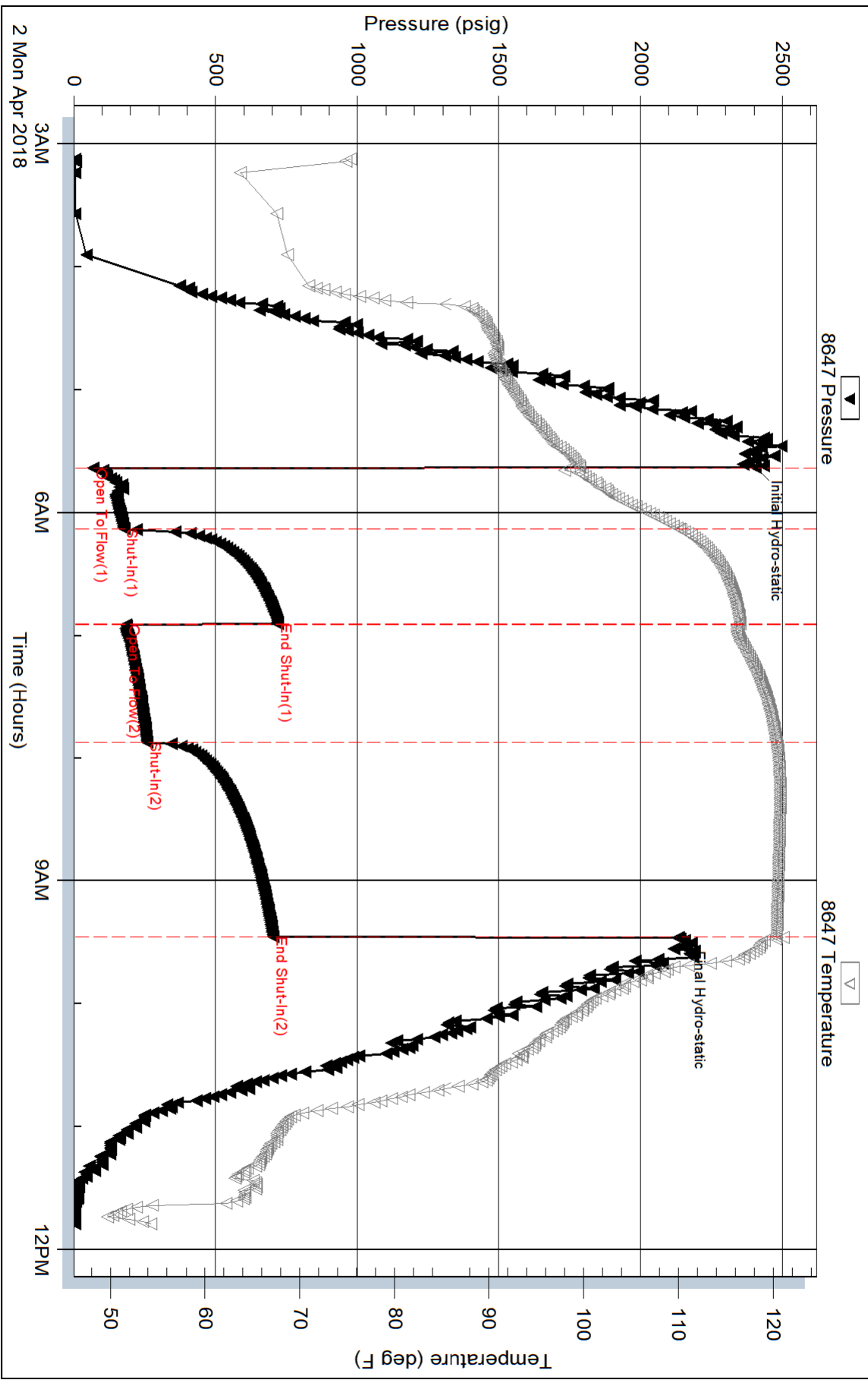
Inside

Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 7

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64448

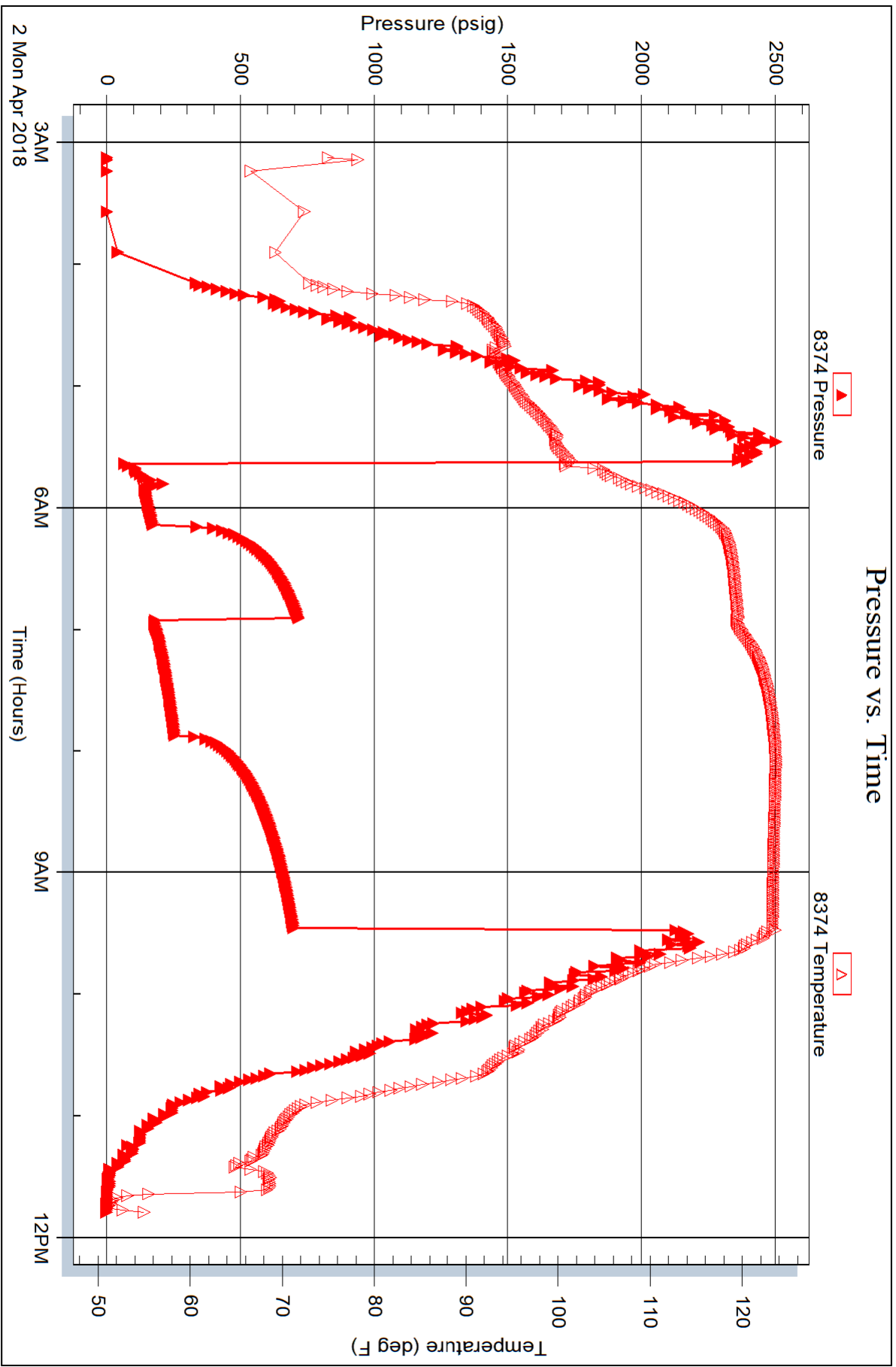
Printed: 2018.04.03 @ 10:35:56

Serial #: 8374

Outside Lario Oil and Gas Company

Smith Trust#1-3

DST Test Number: 7





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64442**

Well Name & No. Smith Trust #1-3 Test No. 1 Date 3-27-18
 Company Lario Oil + Gas Company Elevation 3201 KB 3190 GL
 Address 301. S. Market S. Wichita KS 67202
 Co. Rep / Geo. Tim Laver Rig Martin 21
 Location: Sec. 3 Twp. 18S Rge. 35W Co. Wichita State KS

Interval Tested 4085-4110 Zone Tested B
 Anchor Length 25 Drill Pipe Run 3860 Mud Wt. 9.1
 Top Packer Depth 4080 Drill Collars Run 214 Vis 55
 Bottom Packer Depth 4085 Wt. Pipe Run ∅ WL 7.2
 Total Depth 4110 Chlorides 3600 ppm System LCM 2

Blow Description IF: Built to 1" Blow
IS: No Return Blow
FF: Weak Surface Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 107 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2157</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>06:50</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>07:45</u>
(C) First Final Flow <u>34</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>09:56</u>
(D) Initial Shut-In <u>1096</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>12:56</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:30</u>
(F) Second Final Flow <u>48</u>	<input checked="" type="checkbox"/> Mileage <u>38RT</u> 38	Comments
(G) Final Shut-In <u>1065</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2003</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Sub Total 1513

Approved By Tim Laver Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64443**

Well Name & No. Smith Trust #1-3 Test No. 2 Date 3-28-18
 Company Lario Oil & Gas Company Elevation 3201 KB 3190 GL
 Address 301 S. Market Wichita KS 67202
 Co. Rep / Geo. Tim Laver Rig Murfin 21
 Location: Sec. 3 Twp. 18s Rge. 35w Co. Wichita State KS

Interval Tested 4138-4170 Zone Tested Lansing "D"
 Anchor Length 32 Drill Pipe Run 3923 Mud Wt. 8.9
 Top Packer Depth 4133 Drill Collars Run 214 Vis 57
 Bottom Packer Depth 4138 Wt. Pipe Run 0 WL 7.2
 Total Depth 4170 Chlorides 4000 ppm System LCM 2
 Blow Description IF: Built to 3 1/2"
IS: No Return Blow
FF: Built to 5 1/2"
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>214</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 214 BHT 114 Gravity 1150 API RW 25.9 Chlorides 30000 ppm
 (A) Initial Hydrostatic 2089 Test 1150 T-On Location 22:15
 (B) First Initial Flow 22 Jars 250 T-Started 23:14
 (C) First Final Flow 73 Safety Joint 75 T-Open 01:15
 (D) Initial Shut-In 1144 Circ Sub NC T-Pulled 04:15
 (E) Second Initial Flow 77 Hourly Standby _____ T-Out 06:04
 (F) Second Final Flow 129 Mileage 38RT 38 Comments _____
 (G) Final Shut-In 1142 Sampler _____
 (H) Final Hydrostatic 2004 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Sub Total 1513
 Total 1513
 MP/DST Disc't _____

Approved By Tim Laver Our Representative Mike Rolats

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64444**

Well Name & No. Smith Trust #1-3 Test No. 3 Date 3-28-18
 Company Lario Oil & Gas Company Elevation 3201 KB 3190 GL
 Address ~~301. S. Market~~ 301. S. Market Wichita KS 67202
 Co. Rep / Geo. Tim Lauer Rig Murkin 21
 Location: Sec. 3 Twp. 18s Rge. 35W Co. Wichita State KS

Interval Tested 4291-4332 Zone Tested I-5
 Anchor Length 41 Drill Pipe Run 4060 Mud Wt. 9.3
 Top Packer Depth 4286 Drill Collars Run 214 Vis 47
 Bottom Packer Depth 4291 Wt. Pipe Run Ø WL 8.0
 Total Depth 4332 Chlorides 5100 ppm System LCM 2
 Blow Description IF: BOB 1 Min
IS: NO Return Blow
FF: BOB 1 Min
FS: NO Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
186	WCM		5	95	
124	WCM		10	90	
248	WCM		30	70	
126	SW				

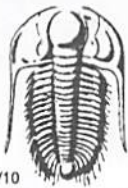
Rec Total 1826 BHT 116 Gravity — API RW 519 @ 41.3° F Chlorides 28000 ppm

(A) Initial Hydrostatic <u>2142</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>21:35</u>
(B) First Initial Flow <u>412</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:23</u>
(C) First Final Flow <u>744</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:37</u>
(D) Initial Shut-In <u>1169</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>02:07</u>
(E) Second Initial Flow <u>742</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>04:38</u>
(F) Second Final Flow <u>923</u>	<input checked="" type="checkbox"/> Mileage <u>38 RT</u> 38	Comments
(G) Final Shut-In <u>1169</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2029</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1513</u>
	Sub Total <u>1513</u>	MP/DST Disc't

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30

Approved By Tim J. Lauer Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64445**

Well Name & No. Smith Trust #1-3 Test No. 4 Date 3-29-18
 Company Lario Oil + Gas Company Elevation 3201 KB 3190 GL
 Address 301 S Market Wichita KS 67202
 Co. Rep / Geo. Tim Lauer Rig Murfin 21
 Location: Sec. 3 Twp. 18S Rge. 35W Co. Wichita State KS

Interval Tested 4477-4528 Zone Tested ~~4477-4528~~ Marmaton A
 Anchor Length 51 Drill Pipe Run 4240 Mud Wt. 9.2
 Top Packer Depth 4472 Drill Collars Run 214 Vis 56
 Bottom Packer Depth 4477 Wt. Pipe Run φ WL 7.2
 Total Depth 4528 Chlorides 5300 ppm System LCM 2

Blow Description IFI Built to 2" Blow
IS: No Return Blow
FF: Built to weak surface Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>wcm / Show of oil</u>			<u>1</u>	<u>99</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2251</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>23:15</u>
(B) First Initial Flow <u>41</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:10</u>
(C) First Final Flow <u>62</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>02:27</u>
(D) Initial Shut-In <u>1306</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>05:12</u>
(E) Second Initial Flow <u>66</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>07:19</u>
(F) Second Final Flow <u>83</u>	<input checked="" type="checkbox"/> Mileage <u>38 RT</u> <u>38</u>	Comments
(G) Final Shut-In <u>1299</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2222</u>	<input type="checkbox"/> Straddle	

Initial Open 30
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1513
 MP/DST Disc't

Approved By Tim J. Lauer Our Representative Mike Rolab
 Sub Total 1513

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64446**

Well Name & No. Smith Trust #1-3 Test No. 5 Date 3-~~29~~³⁰-18
 Company Lario Oil & Gas Company Elevation 3201 KB 3190 GL
 Address 301 S. Market Wichita KS 67202
 Co. Rep / Geo. Tim Laver Rig Murkin 21
 Location: Sec. 3 Twp. 18S Rge. 35W Co. Wichita State KS

Interval Tested 4528-4560 Zone Tested Marm A-B
 Anchor Length 32 Drill Pipe Run 4306 Mud Wt. 9.2
 Top Packer Depth 4523 Drill Collars Run 214 Vis 58
 Bottom Packer Depth 4528 Wt. Pipe Run Ø WL 7.2
 Total Depth 4560 Chlorides 6000 ppm System LCM 2
 Blow Description IF: Built to weak surface Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD with oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2333</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>15:10</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>16:13</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>18:21</u>
(D) Initial Shut-In <u>106</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>20:51</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:35</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>38 RT</u> 38	Comments
(G) Final Shut-In <u>66</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2145</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30 30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45 45</u>	<input type="checkbox"/> Day Standby	Total <u>1513</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1513</u>	

Approved By [Signature] Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64447

Well Name & No. Smith Trust #1-3 Test No. 6 Date 3-31-18
 Company Lario Oil & Gas Company Elevation 3201 KB 3190 GL
 Address 301 S. Market Wichita KS 67202
 Co. Rep / Geo. Tim Laver Rig Murfin 21
 Location: Sec. 3 Twp. 18S Rge. 35W Co. Wichita State KS

Interval Tested 4557-4615 Zone Tested Marm C. Pawnee
 Anchor Length 58 Drill Pipe Run 4335 Mud Wt. 9.2 8.9
 Top Packer Depth 4552 Drill Collars Run 214 Vis 58 53
 Bottom Packer Depth 4557 Wt. Pipe Run Ø WL 7.7 2.2
 Total Depth 4615 Chlorides 6000 5600 ppm System LCM 2 8

Blow Description IF: BOB in 1 Min
IS: No Return Blow
FF: No Blow -- Flushed tool BOB in 1 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1030</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1030 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

- (A) Initial Hydrostatic 2259
- (B) First Initial Flow 573
- (C) First Final Flow 914
- (D) Initial Shut-In 854
- (E) Second Initial Flow 591
- (F) Second Final Flow 690
- (G) Final Shut-In 721
- (H) Final Hydrostatic 2007

- Test 1150
- Jars 250
- Safety Joint 75
- Circ Sub NC
- Hourly Standby —
- Mileage 38 RT 38+38
- Sampler —
- Straddle —
- Shale Packer —
- Extra Packer —
- Extra Recorder —
- Day Standby —
- Accessibility —
- Sub Total 1551

T-On Location 10:00 16:15
 T-Started 17:22
 T-Open 19:36
 T-Pulled 22:36
 T-Out 01:15

Comments Mileage x 2
Lost Circulation went
Home NO WATER

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1551
 MP/DST Disc't —

Approved By Tim Laver Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64449**

Well Name & No. Smith Trust #1-3 Test No. 7 Date 4-2-18
 Company Lario Oil + Gas Company Elevation 3201 KB 3190 GL
 Address 301 S. Market St Wichita KS 67202
 Co. Rep / Geo. Tim Laver Rig Murfin 21
 Location: Sec. 3 Twp. 18S Rge. 35W Co. Wichita State KS

Interval Tested 4810-4850 Zone Tested Morrow Sand
 Anchor Length 40 Drill Pipe Run 4589 Mud Wt. 8.8
 Top Packer Depth 4805 Drill Collars Run 214 Vis 60
 Bottom Packer Depth 4810 Wt. Pipe Run Ø WL 7.2
 Total Depth 4850 Chlorides 5000 ppm System LCM 18

Blow Description IF: BOB 12 Min
FS: NO Return Blow
FF: BOB 27 Min
FS: NO Return Blow

Rec <u>30</u>	Feet of <u>OCM</u>	<u>124' GIP</u>	%gas <u>50</u>	%oil <u>50</u>	%water <u>50</u>	%mud <u>50</u>
Rec <u>124</u>	Feet of <u>GC O M</u>	<u>5</u>	%gas <u>20</u>	%oil <u>75</u>	%water <u>75</u>	%mud <u>75</u>
Rec <u>62</u>	Feet of <u>GC M W O</u>	<u>5</u>	%gas <u>35</u>	%oil <u>30</u>	%water <u>30</u>	%mud <u>30</u>
Rec <u>124</u>	Feet of <u>OC MW</u>		%gas <u>10</u>	%oil <u>80</u>	%water <u>10</u>	%mud <u>10</u>
Rec <u>184</u>	Feet of <u>OCM OCW</u>		%gas <u>1</u>	%oil <u>99</u>	%water <u>99</u>	%mud <u>99</u>
Rec Total <u>524</u>	BHT <u>120</u>	Gravity <u>26</u>	API RW <u>1.425</u>	@ <u>53.3</u> °F	Chlorides <u>25000</u>	ppm

(A) Initial Hydrostatic <u>2403</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>01:45</u>
(B) First Initial Flow <u>68</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>03:07</u>
(C) First Final Flow <u>176</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:38</u>
(D) Initial Shut-In <u>718</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>09:27</u>
(E) Second Initial Flow <u>184</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:47</u>
(F) Second Final Flow <u>257</u>	<input checked="" type="checkbox"/> Mileage <u>38 RT</u> <u>38</u>	Comments <u>Pump Pill</u>
(G) Final Shut-In <u>702</u>	<input type="checkbox"/> Sampler	<u>with 6# LCM</u>
(H) Final Hydrostatic <u>2134</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1513</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1513</u>	

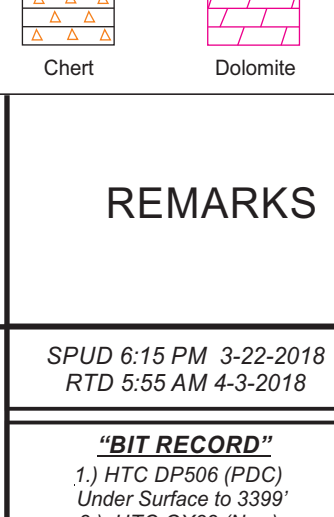
Approved By Tim J. Laver Our Representative Mike Robert

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GEOLOGIST'S REPORT
ON DRILLING TIME AND SAMPLE LOG

COMPANY Lario Oil and Gas Company
LEASE Smith Trust #1-3
FIELD Feit NW
LOCATION 2305' FSL, 335' FWL, SW/4
SEC 3 TWSP 18s RGE 35W
COUNTY Wichita STATE KS
CONTRACTOR Murfin Drilling Rig #21
SPUD 3-22-2018 COMMP 4-3-2018
RTD 5060 WFSF 5/538
MUD UP 3400 TYPE MUD Chemical
ELEVATIONS KB 3201'
DF
GL 3190'
Measurements Are All From 3201 KB
CASING CONDUCTOR 8 5/8" @ 351'
PRODUCTION 5 1/2" @ 5035
ELECTRICAL SURFACE
ELECTRICAL SURFACE ELI Stack -DCPL, DIL, ML, PE, Sonic
Engr. Jeff Luebbers

FORMATION TOPS ELECTRIC LOG SAMPLE LOG
Anhydrite 2427 (+774) 2434 (+767)
Stoller 3614 (-413) 3618 (-417)
Heebner 4010 (-809) 4009 (-810)
Lansing 4056 (-855) 4053 (-852)
Stark 4348 (-1147) 4352 (-1151)
Marmokee 4509 (-1308) 4516 (-1315)
Cherokee Shale 4638 (-1437) 4644 (-1443)
Johnson Zone 4733 (-1532) 4740 (-1539)
Mississippi 4935 (-1734) 4945 (-1744)
Total Depth 5058 (-1857) 5060 (-1859)



REMARKS
Due to drill stem test results, and log evaluation, operator elected to run production casing to further test the location.
Respectfully submitted,
Tim J. Lauer
4/4/2018

38153385
-10718092

LEGEND

Antyhdyrite Sandstone Limestone Shale Carb Sh Cherty LS Chert Dolomite

SAMPLE DESCRIPTION

REMARKS

SPUD 6:15 PM 3-22-2018
RTD 5:55 AM 4-3-2018

"BIT RECORD"
1) HFD 5060 (PWC)
Under Surface to 3369'
2) HFC 5022 (PWC)
3399 to 5060 RTD

"VERTICAL SURVEYS"
0.1" @ 352'
0.1" @ 1188'
0.3" @ 2383'
0.4" @ 3399'
0.3" @ 4110'
0.2" @ 109-82'
0.3" @ 5060'

3-22-2018 - MIRT
Prep to Spud

3-23-2018 - 7:00 AM
PTD @ 352'
WOC, seat 6-5/8" @ 351'

3-24-2018 - 7:00 AM
Drig @ 1754'

3-25-2018 - 7:00 AM
Drig @ 3149'

3-26-2018 - 7:00 AM
Drig @ 3730'

3-27-2018 - 7:00 AM
PTD @ 4110'
COOH for DST (1)

3-28-2018 - 7:00 AM
PTD @ 4170'
GIH after DST (2)

3-29-2018 - 7:00 AM
PTD @ 4332'
GIH after DST (3)

3-30-2018 - 7:00 AM
PTD @ 4528'
GIH after DST (4)

3-31-2018 - 7:00 AM
CFS @ 4610'

4-1-2018 - 7:00 AM
Drig @ 4654'

4-2-2018 - 7:00 AM
PTD @ 4850'
Running DST (7)

4-3-2018 - 7:00 AM
RTD @ 5060'
COOH for OH ELI Elongs

4-4-2018 - 1:00 PM
5/2" Prod Csg @ 5035 w/210 sx
DV Tool @ 2471' w/380 sx
Plug dn: 11:52 am 4-4-2018

Mud Check during trip at 3399':
vis: 56 wt: 8.6 Chlor: 2.800
LCM: 2# Ph: 11.0 WL: 6.4

Pull PDC bit at 3399':
Pulled 20-30k over on stand 6

Pipe Strap on bit log:
Straps: 3399-5060
Diff: 0.23 short

Call Point 3500':
9:05 PM 3-25-2018

Mud Check at 3847':
vis: 56 wt: 9.1 Chlor: 3.600
LCM: 2# Ph: 11.5 WL: 7.2

25 Stand Short Trip at 3399':
vis: 56 wt: 8.6 Chlor: 2.800
LCM: 2# Ph: 11.0 WL: 6.4

Geologist on location 3905':
2:15 PM 3-26-2018

Rig Check:
vis: 58 wt: 9.2 LCM: 2#

DST (1) 4085' - 4110'
30-60-30-60
Blow: weak, built to 3.5" on FFP
no blowback on ISP;
75' surface blow on FFP
no blowback on FSP

20' Mud, NS
IHP: 2157 FFP: 1065
IFP: 19-34 FSP: 1585
ISIP: 1096 FHP: 2003
Temp: 107F
Chlorides: MUD: 4,000 PPM
DST: 3000 PPM
Rw = NA
Both Shut-in curves broken over
(Mud Shut-in curves confirm no water)

Mud Check at 4110 during DST:
vis: 57 wt: 8.9 Chlor: 4,000
LCM: 2# Ph: 11.0 WL: 7.2

DST (2) 4138' - 4170'
30-45-60-60
Blow: weak, built to 3.5" on FFP
far, built to 5.5" on FFP
no blowback on FSP

214' WCM
(0% gas, 0% oil, 90% mud, 90% wt)
IHP: 2089 FFP: 1132
IFP: 19-34 FSP: 1269
ISIP: 1144 FHP: 2004
Temp: 114F
Chlorides: MUD: 4,000 PPM
DST: 3000 PPM
Rw = NA
Both Shut-in curves broken over

Mud Check at 4214:
vis: 47 wt: 9.3 Chlor: 5,100
LCM: 2# Ph: 10.0 WL: 8.0

Dump volume from FFP
and adding 150 lb mud
from FFP stand

Mud Check at 4375 during DST:
vis: 54 wt: 9.2 Chlor: 5,000
LCM: 3# Ph: 10.7 WL: 7.2

DST (3) 4291' - 4332'
15-30-15-30
Blow: strong, BOB in 1" on FFP;
strong, BOB in 1" on FFP;
strong, BOB in 1" on FFP;
no blowback on ISP;
no blowback on FSP

186' SWCM
(0% gas, 0% oil, mod, 5% wt)
124' WCM
(0% gas, 0% oil, 90% mud, 10% wt)
126' SWCM
(0% gas, 0% oil, 70% mud, 30% wt)
1826' Total Fluid
IHP: 2142 FFP: 742-923
IFP: 412-744 FSP: 1169
ISIP: 1169 FHP: 2169
Temp: 116F
Chlorides: MUD: 5,000 PPM
DST: 28,000 PPM
Rw = 0.519 Ohms at 41.3F
Both Shut-in curves broken over

Mud Check at 4371:
vis: 54 wt: 9.2 Chlor: 5,300
LCM: 2# Ph: 11.0 WL: 7.2

DST (4) 4477' - 4528'
30-45-60-60
Blow: weak built to 2" on FFP;
no blowback on FSP;
weak surface blow on FFP;
no blowback on FSP

70' WCM, SFO on tool
(0% gas, 0% oil, 90% mud, 1% wt)
IHP: 2251 FFP: 66-83
IFP: 44-82 FSP: 1299
ISIP: 1306 FHP: 2222
Temp: 110F
Chlorides: MUD: 3,300 PPM
DST: NA
Rw = NA
Both Shut-in curves broken over

Mud Check at 4615 during DST:
vis: 53 wt: 8.1 Chlor: 5,000
LCM: 2# Ph: 11.0 WL: 7.2

DST (5) 4557' - 4615'
30-45-60-60
Blow: strong, BOB in 1" on FFP;
no blowback on ISP;
no blowback on FSP

1030' Mud, no shows
(0% gas, 0% oil, 100% mud, 0% wt)
IHP: 2259 FFP: 591-690
IFP: 573-714 FSP: 1271
ISIP: 1159 FHP: 2007
Temp: 110F
Chlorides: MUD: 5,600 PPM
DST: NA
Rw = NA
Note: Both Shut-in curves show effect of cherted-in curves (flow of cherted-in circulation)
(Sample Shut-in indicates no water)

Mud Check at 4685:
vis: 60 wt: 8.8 Chlor: 5,000
LCM: 2# Ph: 10.0 WL: 7.2

DST (7) 4810' - 4850'
30-45-60-60
Blow: strong, BOB in 1" on FFP;
no blow, flushed out, BOB in 1" on FFP;
no blowback on FSP

124' GIP
30' OCIM
(0% gas, 0% oil, 90% mud, 0% wt)
124' GOCM
(5% gas, 35% oil, 30% mud, 30% wt)
62' GCMW
(0% gas, 35% oil, 30% mud, 30% wt)
184' OCIM
(0% gas, 0% oil, 100% mud, 0% wt)
524' Total Fluid
IHP: 2403 FFP: 184-252
IFP: 66-176 FSP: 187
ISIP: 1159 FHP: 2134
Temp: 120F
Chlorides: MUD: 3,200 PPM
DST: 25,000 PPM
Rw = 0.425 Ohms at 53.3F
Both Shut-in curves broken over

Mud Check at 4850 during DST:
vis: 52 wt: 8.8 Chlor: 5,200
LCM: 2# Ph: 9.5 WL: 7.0

Rig Check:
vis: 54 wt: 8.7 LCM: 2#

Spot fill of good mud
with LCM for tool
COOH for DST(7)

Mud Check at 5060 RTD:
vis: 62 wt: 9.1 Chlor: 5,000
LCM: 2# Ph: 9.0 WL: 8.6

RTD 5060' reached
5:55 AM 4-3-2018

COMPANY & WELL: Lario O & G #1-3 Smith Trust
LOCATION: 2305' FSL, 335' FWL
SEC: 3 TWSP 18s RGE 35W
COUNTY: Wichita STATE KS
ELEVATIONS: KB 3201'
GL 3190'

