

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1158857

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- ☐ New Well ☐ Re-Entry ☐ Workover
- ☐ Oil ☐ WSW ☐ SWD ☐ SIOW
- ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
- ☐ OG ☐ GSW ☐ Temp. Abd.
- ☐ CM (Coal Bed Methane)
- ☐ Cathodic ☐ Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
- ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer
- ☐ Commingled Permit #: _____
- ☐ Dual Completion Permit #: _____
- ☐ SWD Permit #: _____
- ☐ ENHR Permit #: _____
- ☐ GSW Permit #: _____

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

_____ Feet from ☐ North / ☐ South Line of Section

_____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ Confidentiality Requested

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____



1158857

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 (Attach Additional Sheets)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No (If No, skip questions 2 and 3)

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No (If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:
				<input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or ENHR.	Producing Method:
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	_____ _____

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Gaschler-Krause Unit 1-20
Doc ID	1158857

All Electric Logs Run

MAI/MFE
MML
MSS
MPD/MDN

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Gaschler-Krause Unit 1-20
Doc ID	1158857

Tops

Name	Top	Datum
Heebner	2381	759
Lansing	4018	-878
Stark Shale	4319	-1179
Hushpuckney	4374	-1234
Base KC	4448	-1308
Marmaton	4476	-1336
Pawnee	4564	-1424
Ft. Scott	4589	-1449
Johnson	4690	-1550
Morrow	4774	-1634
Basal Penn	4813	-1673
Mississippian	4830	-1690
St. Louis	4886	-1746

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 05, 2013

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

Re: ACO1
API 15-171-20982-00-00
Gaschler-Krause Unit 1-20
NE/4 Sec.20-18S-34W
Scott County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Jay Schweikert



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 138711
Invoice Date: Sep 17, 2013
Page: 1

Bill To:

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Lario	61130	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 17, 2013	10/17/13

Quantity	Item	Description	Unit Price	Amount
		Gaschler Krause Unit #1-20 <i>drilling AFE 13-292</i>		
245.00	CEMENT MATERIALS	Class A Common	17.90	4,385.50
9.00	CEMENT MATERIALS	Chloride	64.00	576.00
257.70	CEMENT SERVICE	Cubic Feet	2.48	639.10
595.00	CEMENT SERVICE	Ton Mileage	2.60	1,547.00
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	EQUIPMENT OPERATOR	Daniel Casper		

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

\$ 2,779.45

ONLY IF PAID ON OR BEFORE
Oct 12, 2013

Subtotal	9,264.85
Sales Tax	404.36
Total Invoice Amount	9,669.21
Payment/Credit Applied	
TOTAL	9,669.21

ALLIED OIL & GAS SERVICES, LLC 061130.

Federal Tax I.D. # 20-8651475

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

SERVICE POINT

DATE 9/17/13 SEC 20 TWP. 18 RANGE 34 CALLED OUT 9/17 ON LOCATION 10:30 a.m. JOB START 9/18 JOB FINISH 1:00 a.m.
LEASE Cashier WELL # 1-20 LOCATION 105 on 9th 1/2 mi past COUNTY Scott STATE KS
OLD OR NEW (Circle one) Beaver Rd on field access W into

CONTRACTOR Southwind OWNER Same
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 350
CASING SIZE 8 5/8 DEPTH 350
TUBING SIZE 6 DEPTH 350
DRILL PIPE 6 DEPTH 350
TOOL 6 DEPTH 350
PRES. MAX 6 MINIMUM 6
MEAS. LINE 6 SHOE JOINT 6
CEMENT LEFT IN CSG. 15'
PERFS. 6
DISPLACEMENT 21.34

EQUIPMENT
PUMP TRUCK CEMENTER Paul Beaver
422 HELPER Tyler Flipse
BULK TRUCK
344/170 DRIVER Dan Casper
BULK TRUCK
DRIVER

REMARKS:
mix 245 sks Corn 3% CC
Displace with water
cement did circulate
thank you

CHARGE TO: Lario 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 Sam Staggs

SIGNATURE Sam Staggs

CEMENT
AMOUNT ORDERED 245 sks Corn 3% CC
COMMON 245 sks @ 17.90 4385.50
POZMIX @
GEL @
CHLORIDE 9 sks @ 64.00 576.00
ASC @
HANDLING 257.7 ft³ @ 2.46 639.10
MILEAGE 595 mi @ 2.40 1547.00
TOTAL 7147.60

SERVICE
DEPTH OF JOB 350'
PUMP TRUCK CHARGE 1512.25
EXTRA FOOTAGE @
MILEAGE MILV 50 @ 7.70 385.00
MANIFOLD Used HSS @ N/C
MILV 50 @ 4.40 220.00

PLUG & FLOAT EQUIPMENT
TOTAL

SALES TAX (If Any) 9,264.05
TOTAL CHARGES 2779.15
DISCOUNT 2779.15 IF PAID IN 30 DAYS
Bid. 6,485.39 Net



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 139001
Invoice Date: Oct 1, 2013
Page: 1

Bill To:

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Lario	61142	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Oct 1, 2013	10/31/13

Quantity	Item	Description	Unit Price	Amount
		<u>Gaschier Krause Unit #1-20</u>		
180.00	CEMENT MATERIALS	ASC	20.90	3,762.00
900.00	CEMENT MATERIALS	Gilsonite	0.98	882.00
51.00	CEMENT MATERIALS	FL-160	18.90	963.90
25.00	CEMENT MATERIALS	Defoamer	9.80	245.00
450.00	CEMENT MATERIALS	AMD	25.90	11,655.00
112.50	CEMENT MATERIALS	Flo Seal	2.97	334.13
12.00	CEMENT MATERIALS	Super Flush	58.70	704.40
657.85	CEMENT SERVICE	Cubic Feet	2.48	1,631.47
1,507.50	CEMENT SERVICE	Ton Mileage	2.60	3,919.50
1.00	CEMENT SERVICE	Production -- Bottom Stage	2,765.75	2,765.75
1.00	CEMENT SERVICE	Production -- Top Stage	2,406.25	2,406.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	EQUIPMENT SALES	5-1/2 AFU Float Shoe	339.30	339.30
1.00	EQUIPMENT SALES	5-1/2 Latch Down Plug Assembly	398.75	398.75
1.00	EQUIPMENT SALES	5-1/2 D V Tool	4,087.00	4,087.00
1.00	EQUIPMENT SALES	5-1/2 Basket	159.40	159.40
14.00	EQUIPMENT SALES	5-1/2 Centralizer	28.40	397.60
1.00	EQUIPMENT OPERATOR	Paul Beaver		

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

\$ 12,436.00

ONLY IF PAID ON OR BEFORE
Oct 26, 2013

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



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 139001
Invoice Date: Oct 1, 2013
Page: 2

Bill To:

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

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Lario	61142	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Oct 1, 2013	10/31/13

Quantity	Item	Description	Unit Price	Amount
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		
1.00	OPERATOR ASSISTANT	David Scariano		

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

\$ 12,436.00

ONLY IF PAID ON OR BEFORE

Oct 26, 2013

Subtotal	35,531.45
Sales Tax	1,950.17
Total Invoice Amount	37,481.62
Payment/Credit Applied	
TOTAL	37,481.62

ALLIED OIL & GAS SERVICES, LLC 061142

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE <u>10/1/13</u>	SEC <u>20</u>	TWP <u>18</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 12:30</u>	JOB FINISH <u>9:00 1:30</u>
LEASE <u>Gaschler</u>				WELL # <u>1-20</u>	LOCATION <u>Scott city 9.6 W 1/2 mi</u>	COUNTY <u>Scott</u>	STATE <u>KS</u>
OLD OR <u>(NEW)</u> (Circle one)				past beaver Rd S + W into			

CONTRACTOR Southwind OWNER Same

TYPE OF JOB Production (2 stage)

HOLE SIZE 7 7/8 T.D.

CASING SIZE 5 1/2 DEPTH 4998'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DV Tool DEPTH 2421'

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 11.05

CEMENT LEFT IN CSG. 11.05

PERFS.

DISPLACEMENT Bottom 6000 water 6.6 bbl mud

Top 59.07 bbl water

EQUIPMENT

PUMP TRUCK CEMENTER Paul Beaver

120 HELPER Taylor Flipsc

BULK TRUCK

566 DRIVER Brandon Hallinson

BULK TRUCK

386 DRIVER David Scario

REMARKS:

Bottom 6000 water 6.6 bbl mud

Top 59.07 bbl water

Displace with water/mud. Plug ditch land

Flat did hold. Open tool circulate 420

Top 59.07 bbl water, min 3000 in 2H. min 3000

AND Displace with water. Plug ditch

land cement ditch circulate 1000

to pit

Thank You!

CEMENT

AMOUNT ORDERED 180 sks ASC 10% salt

5th Gilsenite 2% Gel 7% FL-160, 14th Defamer

450 sks AMD 1/4th Flo-seal

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	<u>180 sks</u>	@ <u>20.90</u> <u>3762.00</u>
Gilsenite	<u>900#</u>	@ <u>.98</u> <u>882.00</u>
FL-160	<u>51#</u>	@ <u>18.90</u> <u>963.90</u>
PDEF (Defamer)	<u>25#</u>	@ <u>9.80</u> <u>245.00</u>
AMD	<u>450</u>	@ <u>25.90</u> <u>11655.00</u>
Flo-seal	<u>112.5#</u>	@ <u>2.97</u> <u>334.13</u>
Super flush	<u>12 bbl</u>	@ <u>58.70</u> <u>704.40</u>
	@	
HANDLING	<u>657.85</u>	@ <u>2.48</u> <u>1631.47</u>
MILEAGE	<u>30.15 hrs 50 mi</u>	@ <u>2.60</u> <u>3919.50</u>
TOTAL <u>24,097.40</u>		

SERVICE

DEPTH OF JOB 4998'

PUMP TRUCK CHARGE 2765.75 2406.25

EXTRA FOOTAGE @

MILEAGE MILV 50 @ 7.70 385.00

MANIFOLD Head @ 275.00

MILV 50 @ 4.40 220.00

TOTAL 6052.00

CHARGE TO: Lario 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 Mike Ketterly Jr

SIGNATURE Mike Ketterly Jr

PLUG & FLOAT EQUIPMENT

Weatherford

AFU Float shoe @ 339.30

Lockdown plug Assembly @ 398.25

D.V. Tap @ 4087.00

Basket @ 159.40

Cementizers 14 @ 28.40 397.60

TOTAL 5382.05

SALES TAX (If Any)

TOTAL CHARGES 37,524.45

DISCOUNT 12,436.00 IF PAID IN 30 DAYS

23,095.44 Net.

61142

BID SHEET



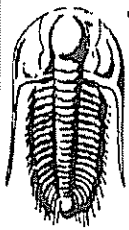
Date	9/30/13
Service Point:	Oakley
Manager	Terry Heinrich
Address	P.O. Box 27
	Oakley, KS 67748
Business Phone	785-672-3452
E-mail	terry.heinrich@allied.com
Mobile	785-672-9376

Company	Larso Oil & Gas Company	Prepared For:	Jay Schweikert	Well Data	
Address	301 S. Market	Title:	Oper. Engr.	Open Hole	7 7/8
Address	Wichita Kansas, 67202	Business Phone:	316-265-5611	Depth	5000
Well Name	Gaighler-Krausk Unit	E-mail:	jhschweikert@plutopool.com	I.D.	7.875
Lease	# 1-20	Mobile Phone:		Job Excess	25
Field		Prepared By:	Neal Rupp	Depth	5000
County	Scott	Title:	Sales & Field Operations Manager	O.D.	5.5
State	Kansas	Business Phone:	316-260-3368	I.D.	5.012
Section	20	E-mail:	neal.rupp@alliedservices.com	Casing Weight	.14
Township	18S	Mobile Phone:	316-250-7057	Thread	STC
Range	34W	Rig Contractor	Unknown	Grade	J-55
API Number		Rig Name			
Proposal Title:	Two-Stage Production	Rig Phone			

	Units	UOM	Cost per Unit	Total	Unit Net	Unit Net
CJSO - Casing Pump Charge 4001' to 5000'	1.00	(for 6 hours)	\$2,765.75	\$ 2,765.75	\$ 1,797.74	\$1,797.74
	1.00	(for 6 hours)	\$2,406.25	\$ 2,406.25	\$ 1,564.06	\$1,564.06
	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				\$ 5,172.00		\$3,361.80
AFU Float Shoe	1.00	Each	\$339.30	\$ 339.30	\$ 339.30	\$339.30
Latch Down Plug	1.00	Each	\$398.75	\$ 398.75	\$ 398.75	\$398.75
Stage Collar	1.00	Each	\$4,087.00	\$ 4,087.00	\$ 4,087.00	\$4,087.00
Cement Basket	1.00	Each	\$159.40	\$ 159.40	\$ 159.40	\$159.40
Centralizer	14.00	Each	\$28.40	\$ 397.60	\$ 28.40	\$397.60
	0.00	Each	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 5,382.05		\$5,382.05
ASCA - ALLIED SPECIAL BLEND CMT. CLASS A	185.00	per sack	\$20.90	\$ 3,866.50	\$ 13.59	\$2,515.23
AMDA - ALLIED MULTI-DENS. CMT. CLASS A	290.00	per sack	\$25.90	\$ 7,511.00	\$ 16.84	\$4,882.15
FLSL - Flo Seal	72.00	per pound	\$2.97	\$ 213.84	\$ 1.93	\$139.00
GILS - Gilsolite	925.00	per pound	\$0.98	\$ 906.50	\$ 0.64	\$589.23
FL-160 - FL-160 Fluid Loss Additive Hi-Temp	52.00	per pound	\$18.90	\$ 982.80	\$ 12.29	\$638.82
PDEF - Powdered Defoamer	26.00	per pound	\$9.80	\$ 254.80	\$ 6.37	\$165.62
SPFL - Super Flush	12.00	per bbl	\$58.70	\$ 704.40	\$ 38.16	\$452.86
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 14,439.84		\$9,385.90
HDLG - Products handling service charge	575.98	per cu. ft.	\$2.48	\$ 1,428.43	\$ 1.61	\$928.48
DRVG - Drayage for products	1275.00	ton mile	\$2.60	\$ 3,315.00	\$ 1.69	\$2,154.75
MILV - Light Vehicle Mileage	50.00	per mile	\$4.40	\$ 220.00	\$ 2.86	\$143.00
MHIV - Heavy Vehicle Mileage	50.00	per mile	\$7.70	\$ 385.00	\$ 5.01	\$250.25
Subtotal				\$ 5,348.43		\$3,476.40
CMHD - Cementing Head Rental with Manifold	3.00	per day	\$275.00	\$ 275.00	\$ 178.75	\$178.75
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 275.00		\$178.75
Totals:				\$ 30,617.32		\$21,784.98
DISCOUNT: Operations			35.0%	(1,810.20)		
DISCOUNT: Equipment Sales			0.0%	0.00		
DISCOUNT: Products			35.0%	(5,053.94)		
DISCOUNT: Transport			35.0%	(1,871.95)		
DISCOUNT: OTHER			35.0%	(96.25)		
			Total	(8,832.34)		

180 ft3
450 ft3
9.1 18 ft3
1.39 ft3
1.96 ft3
7.5 ft3

11,920
42,300
40,308.5 ft
30.15



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Company

20-18s-34w Scott Co. KS

301 S Market ST
Wichita KS, 67202-3805

Gaschler-Krause Unit

Job Ticket: 52970

DST#: 1

ATTN: Steve Davis

Test Start: 2013.09.22 @ 11:35:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:22:15

Time Test Ended: 18:04:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 3978.00 ft (KB) To 4015.00 ft (KB) (TVD)

Total Depth: 4015.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3140.00 ft (KB)

3128.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8675

Inside

Press@RunDepth: 26.24 psig @ 3979.00 ft (KB)

Start Date: 2013.09.22

End Date:

2013.09.22

Capacity: 8000.00 psig

Last Calib.: 2013.09.22

Start Time: 11:35:15

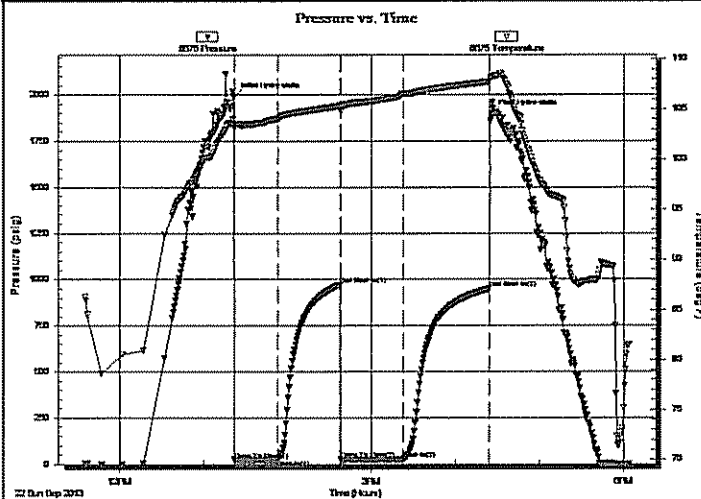
End Time:

18:04:15

Time On Btm: 2013.09.22 @ 13:22:00

Time Off Btm: 2013.09.22 @ 16:25:45

TEST COMMENT: Built to 3/4" blow
No return blow
Built to 1/4" blow
No return blow



PRESSURE SUMMARY

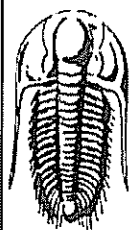
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1989.82	104.04	Initial Hydro-static
1	21.61	103.17	Open To Flow (1)
31	22.84	104.06	Shut-In(1)
76	972.93	105.33	End Shut-In(1)
77	23.94	104.75	Open To Flow (2)
122	26.24	106.56	Shut-In(2)
183	949.70	107.73	End Shut-In(2)
184	1896.53	108.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	clean oil	0.01
19.00	100%Mud with oil scum	0.27

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-18s-34w Scott Co. KS

301 S Market ST
Wichita KS, 67202-3805

Gaschler-Krause Unit

Job Ticket: 52970

DST#: 1

ATTN: Steve Davis

Test Start: 2013.09.22 @ 11:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	clean oil	0.014
19.00	100%Mud with oil scum	0.267

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

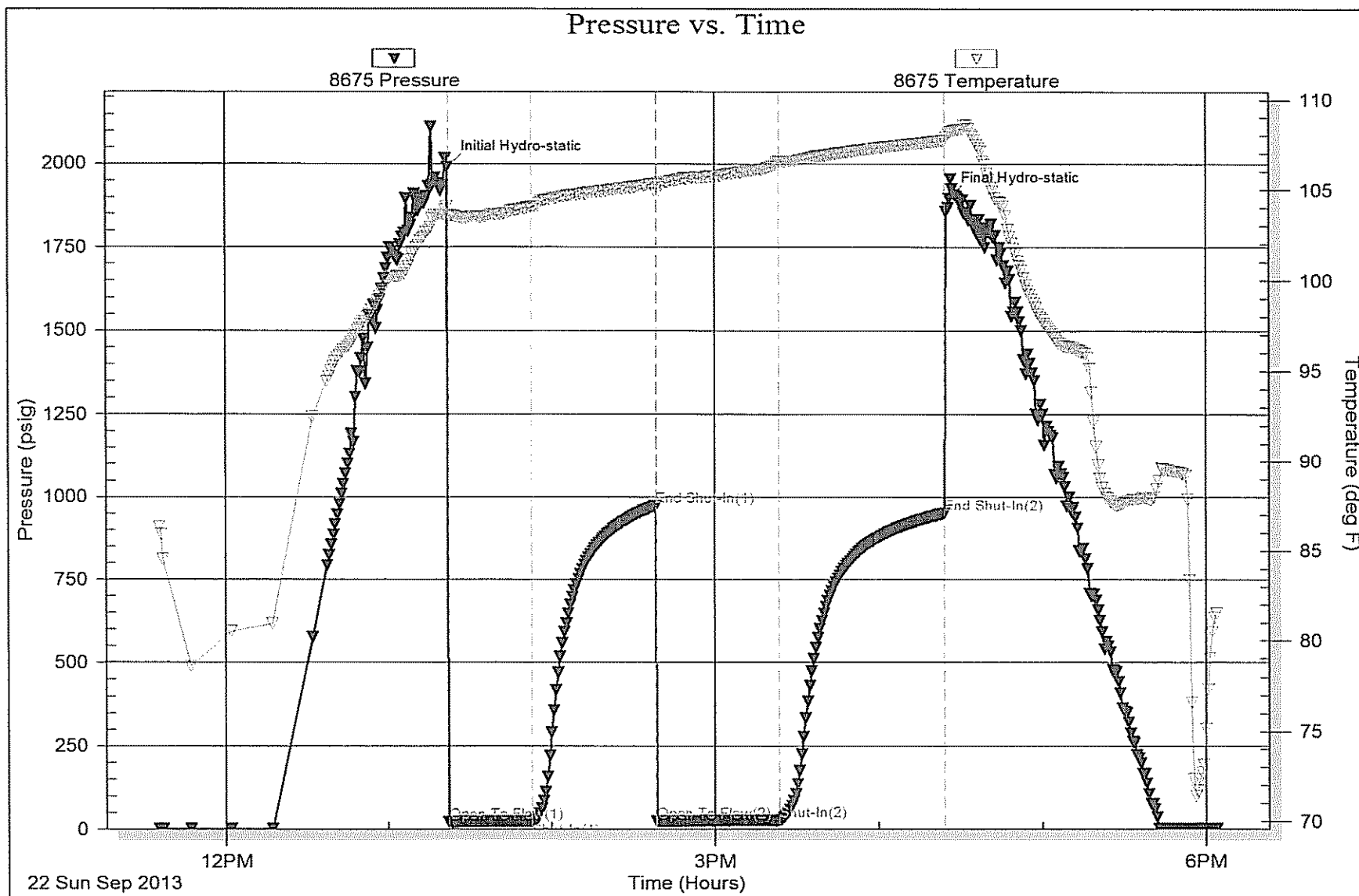
Num Gas Bombs: 0

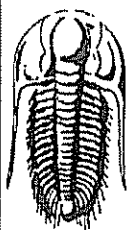
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Company

301 S Market ST
Wichita KS, 67202-3805

ATTN: Steve Davis

20-18s-34w Scott Co. KS

Gaschler-Krause Unit

Job Ticket: 52971

DST#: 2

Test Start: 2013.09.23 @ 00:15:00

GENERAL INFORMATION:

Formation: Lansing "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:29:00

Time Test Ended: 07:06:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4012.00 ft (KB) To 4030.00 ft (KB) (TVD)

Total Depth: 4030.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3140.00 ft (KB)

3128.00 ft (CF)

KB to GRVCF: 12.00 ft

Serial #: 8675

Inside

Press@RunDepth: 835.08 psig @ 4013.00 ft (KB)

Start Date: 2013.09.23

End Date:

2013.09.23

Capacity: 8000.00 psig

Last Calib.: 2013.09.23

Start Time: 00:15:15

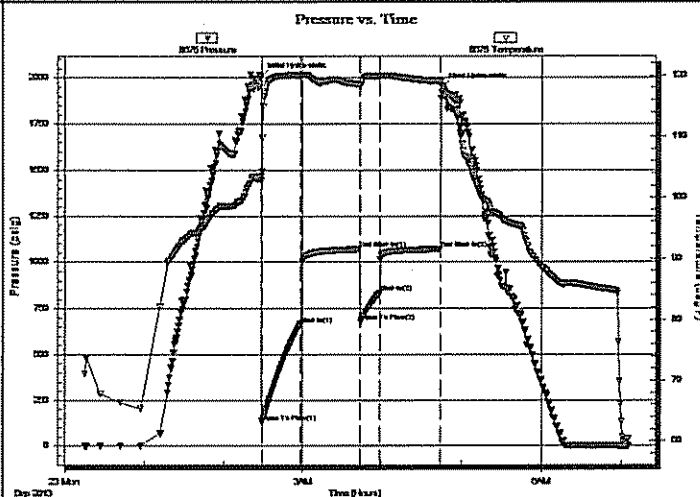
End Time:

07:06:00

Time On Btm: 2013.09.23 @ 02:28:30

Time Off Btm: 2013.09.23 @ 04:45:30

TEST COMMENT: B.O.B. in 1 1/2 min
Bled off for 5 min. No return blow
B.O.B. in 3 min
Bled off for 5 min. No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2006.24	103.48	Initial Hydro-static
1	129.11	104.24	Open To Flow (1)
30	664.33	119.98	Shut-In(1)
75	1069.34	118.46	End Shut-In(1)
76	678.63	118.27	Open To Flow (2)
90	835.08	119.87	Shut-In(2)
136	1069.96	118.89	End Shut-In(2)
137	1951.97	116.88	Final Hydro-static

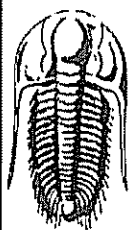
Recovery

Length (ft)	Description	Volume (bbl)
282.00	mcw 40%M 60%W with little oil scum	3.96
441.00	mcw 10%M 90%W	6.19
1447.00	100% Water	20.30

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-18s-34w Scott Co. KS

301 S Market ST
Wichita KS, 67202-3805

Gaschler-Krause Unit

Job Ticket: 52971

DST#: 2

ATTN: Steve Davis

Test Start: 2013.09.23 @ 00:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
282.00	mcw 40%M 60%W with little oil scum	3.956
441.00	mcw 10%M 90%W	6.186
1447.00	100% Water	20.298

Total Length: 2170.00 ft Total Volume: 30.440 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .13 @ 58 F = 70,000

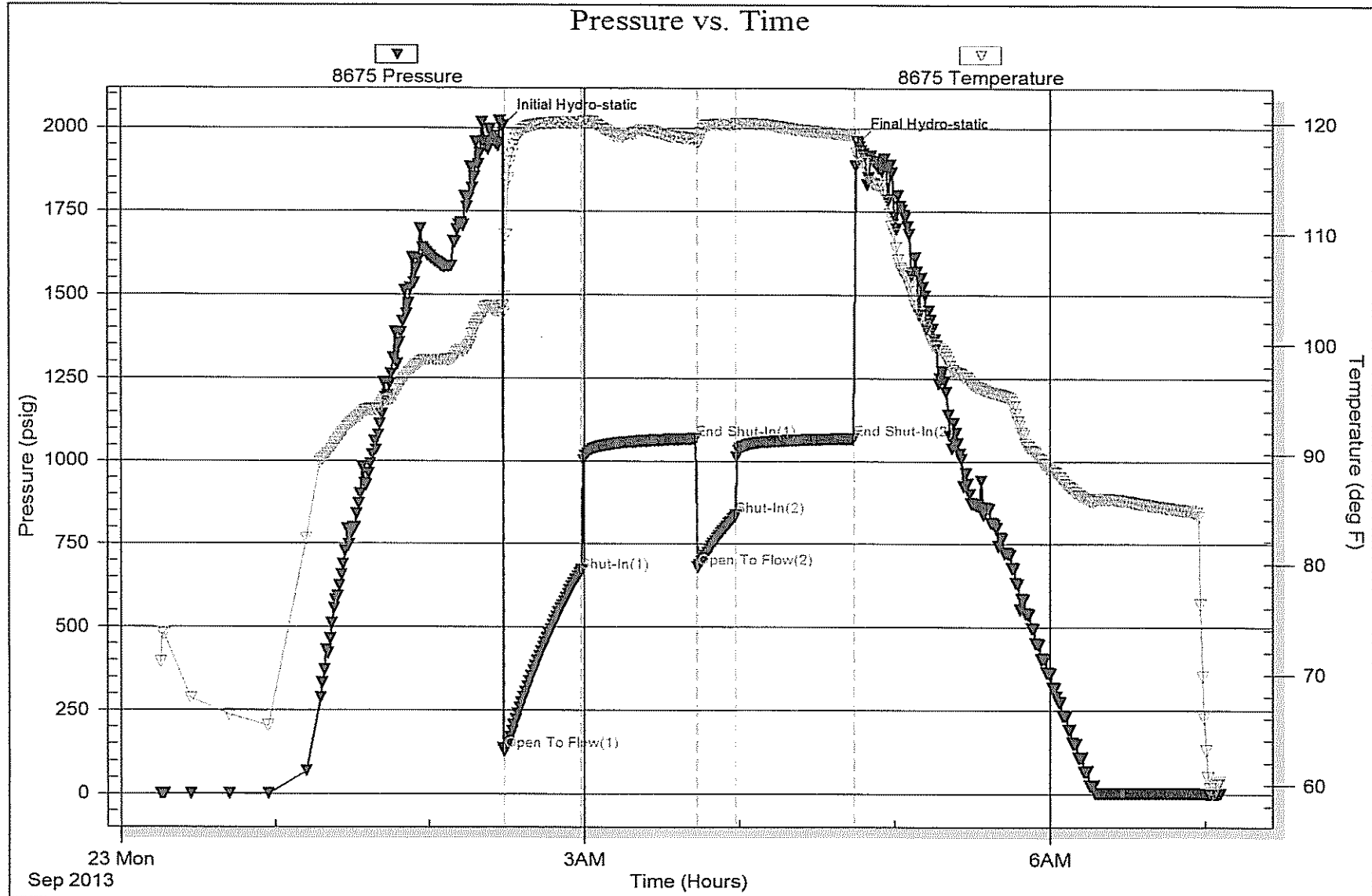
Serial #: 8675

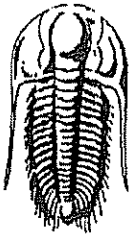
Inside

Lario Oil & Gas Company

Gaschler-Krause Unit

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

301 S Market ST
Wichita KS, 67202-3805

ATTN: Steve Davis

20-18s-34w Scott Co. KS

Gaschler-Krause Unit

Job Ticket: 52972

DST#: 3

Test Start: 2013.09.23 @ 21:20:00

GENERAL INFORMATION:

Formation: **Lansing "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:16:30

Time Test Ended: 04:34:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4044.00 ft (KB) To 4072.00 ft (KB) (TVD)

Total Depth: 4072.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3140.00 ft (KB)

3128.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8675

Inside

Press@RunDepth: 269.83 psig @ 4045.00 ft (KB)

Start Date: 2013.09.23

End Date:

2013.09.24

Start Time: 21:20:15

End Time:

04:34:45

Capacity: 8000.00 psig

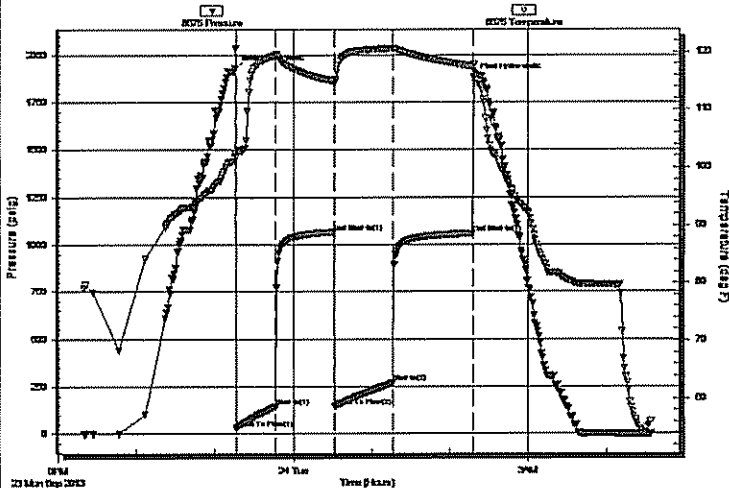
Last Calib.: 2013.09.24

Time On Btm: 2013.09.23 @ 23:16:00

Time Off Btm: 2013.09.24 @ 02:18:00

TEST COMMENT: B.O.B. in 9 min
Bled off for 5 min. Weak return blow
B.O.B. in 14 min
Bled off for 5 min. Built to 1" return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1924.16	102.21	Initial Hydro-static
1	28.66	101.70	Open To Flow (1)
31	144.64	119.39	Shut-In(1)
76	1066.15	114.86	End Shut-In(1)
76	145.54	114.55	Open To Flow (2)
120	269.83	120.62	Shut-In(2)
182	1059.74	117.51	End Shut-In(2)
182	1879.54	117.83	Final Hydro-static

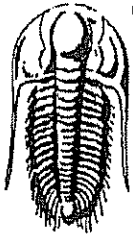
Recovery

Length (ft)	Description	Volume (bbl)
85.00	gco 10%G 90%O	1.19
189.00	gcow 20%G 40%O 40%W	2.65
189.00	ocw 10%O 90%W	2.65
252.00	100% Water with oil scum	3.53

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-18s-34w Scott Co. KS

301 S Market ST
Wichita KS, 67202-3805

Gaschler-Krause Unit

Job Ticket: 52972

DST#: 3

ATTN: Steve Davis

Test Start: 2013.09.23 @ 21:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 10.39 in³

Resistivity: ohm.m

Salinity: 10500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

23 deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	gco 10%G 90%O	1.192
189.00	gcow 20%G 40%O 40%W	2.651
189.00	ocw 10%O 90%W	2.651
252.00	100% Water with oil scum	3.535

Total Length: 715.00 ft Total Volume: 10.029 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

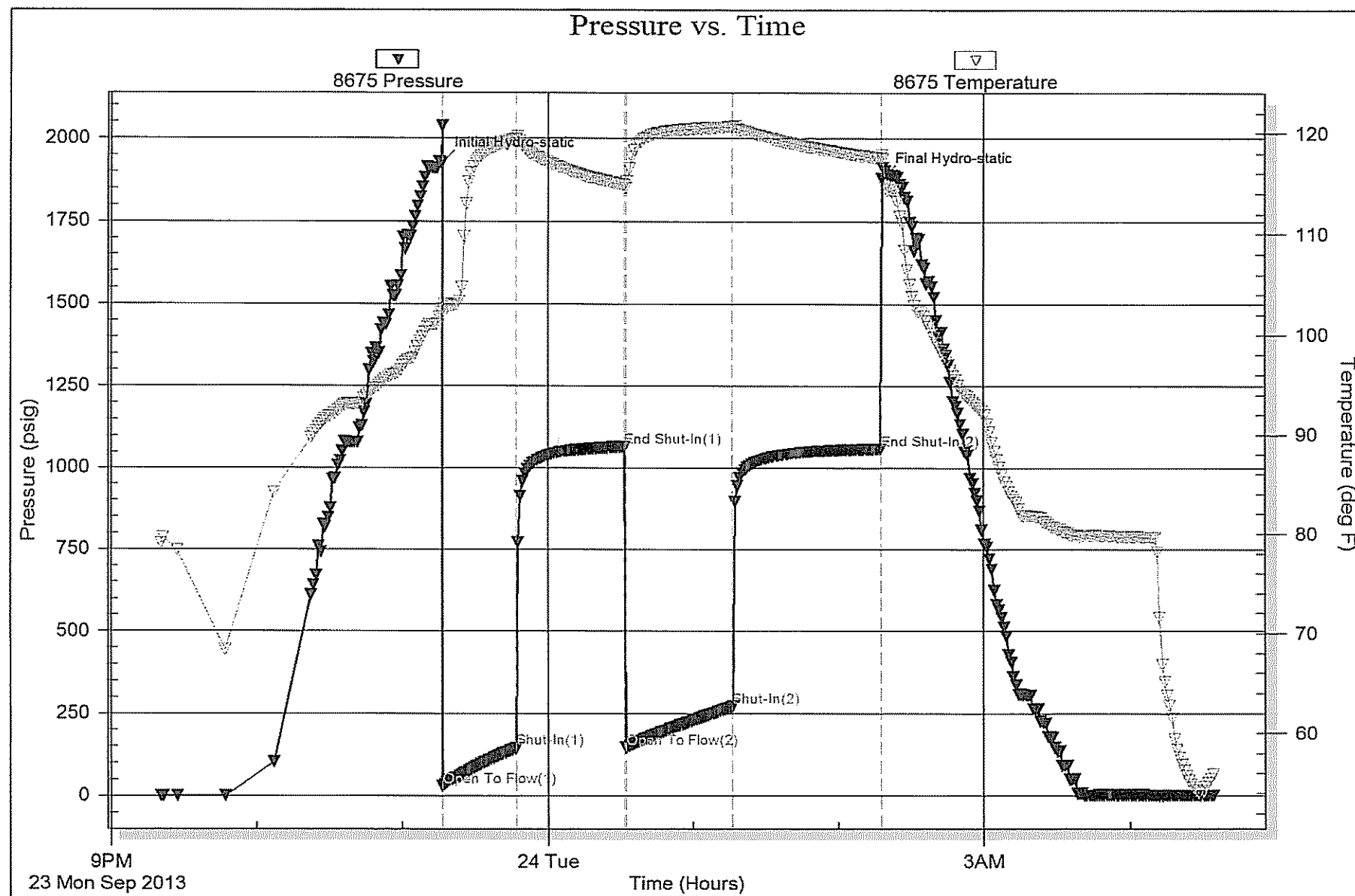
Serial #:

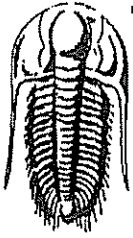
Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .15 @ 55 F = 60,000

API: 23 @ 60 F = 23





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

301 S Market ST
Wichita KS, 67202-3805

ATTN: Steve Davis

20-18s-34w Scott Co. KS

Gaschler-Krause Unit

Job Ticket: 52973

DST#: 4

Test Start: 2013.09.24 @ 13:55:00

GENERAL INFORMATION:

Formation: **Lansing "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:57:00

Time Test Ended: 20:42:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: **4106.00 ft (KB) To 4126.00 ft (KB) (TVD)**

Total Depth: **4126.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **3140.00 ft (KB)**

3128.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: **8675**

Inside

Press@RunDepth: **156.50 psig @ 4107.00 ft (KB)**

Start Date: **2013.09.24**

End Date:

2013.09.24

Start Time: **13:55:15**

End Time:

20:42:30

Capacity: **8000.00 psig**

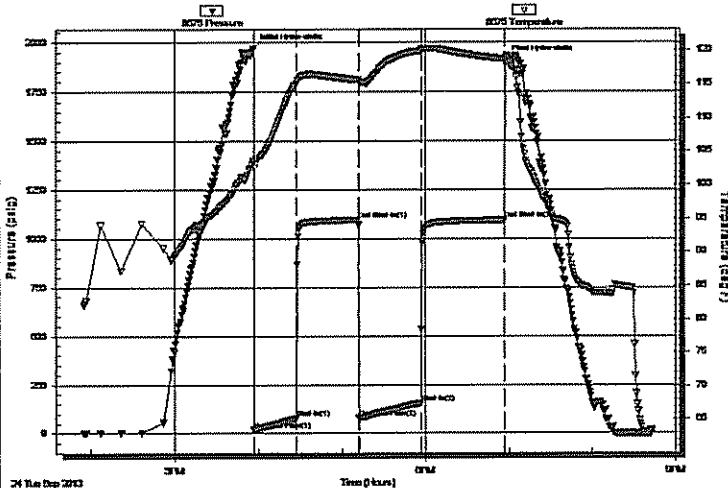
Last Calib.: **2013.09.24**

Time On Btm: **2013.09.24 @ 15:56:45**

Time Off Btm: **2013.09.24 @ 18:57:15**

TEST COMMENT: Built to 10" blow
Bled off for 5 min. No return blow
B.O.B. in 33 min
Bled off for 5 min. No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.98	103.57	Initial Hydro-static
1	19.62	102.51	Open To Flow (1)
30	76.61	114.96	Shut-In(1)
75	1095.63	115.61	End Shut-In(1)
76	78.91	115.22	Open To Flow (2)
120	156.50	119.89	Shut-In(2)
180	1094.06	118.67	End Shut-In(2)
181	1910.46	118.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	w cm 40%W 60%M	1.77
189.00	mcw 10%M 90%W	2.65

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-18s-34w Scott Co. KS

301 S Market ST
Wichita KS, 67202-3805

Gaschler-Krause Unit

Job Ticket: 52973

DST#: 4

ATTN: Steve Davis

Test Start: 2013.09.24 @ 13:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 7400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	w cm 40%W 60%M	1.767
189.00	mcw 10%M 90%W	2.651

Total Length: 315.00 ft Total Volume: 4.418 bbl

Num Fluid Samples: 0

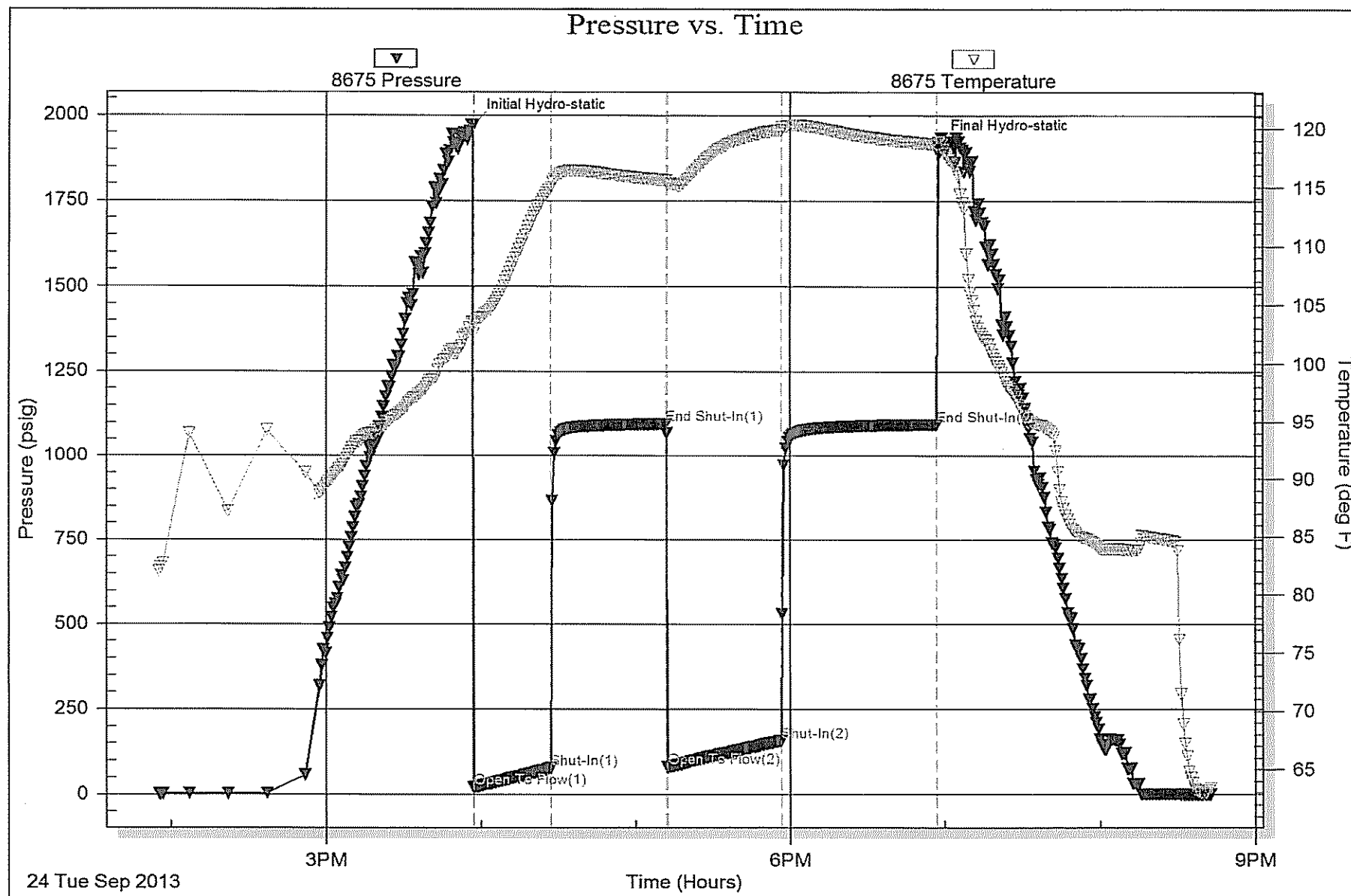
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .15 @ 70 F = 50,000



[illegible]



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

301 S Market ST
Wichita KS, 67202-3805

ATTN: Steve Davis

20-18s-34w Scott Co. KS

Gaschler-Krause Unit

Job Ticket: 52974

DST#: 5

Test Start: 2013.09.25 @ 14:15:00

GENERAL INFORMATION:

Formation: **Lansing "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:02:45

Time Test Ended: 20:36:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4253.00 ft (KB) To 4276.00 ft (KB) (TVD)

Total Depth: 4276.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3140.00 ft (KB)

3128.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8675

Inside

Press@RunDepth: 50.38 psig @ 4254.00 ft (KB)

Start Date: 2013.09.25

End Date: 2013.09.25

Start Time: 14:15:15

End Time: 20:36:30

Capacity: 8000.00 psig

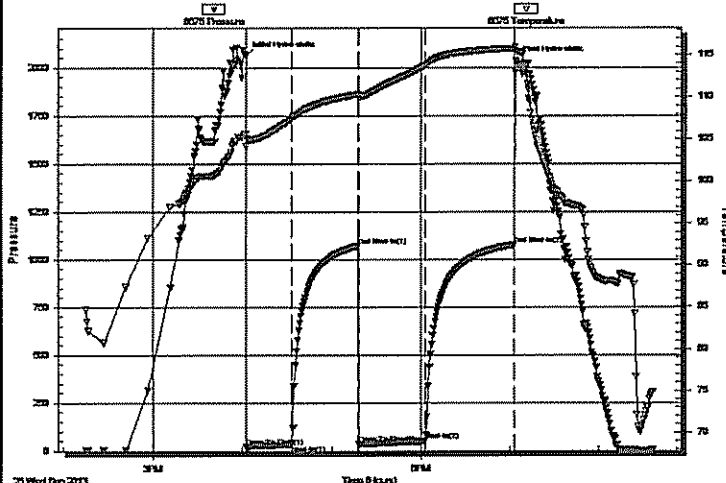
Last Calib.: 2013.09.25

Time On Btm: 2013.09.25 @ 16:02:30

Time Off Btm: 2013.09.25 @ 19:03:45

TEST COMMENT: Built to 2" blow
No return blow
Built to 2" blow
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.73	105.61	Initial Hydro-static
1	20.53	104.12	Open To Flow (1)
31	31.52	107.41	Shut-In(1)
76	1071.67	110.33	End Shut-In(1)
76	33.76	109.94	Open To Flow (2)
120	50.38	113.71	Shut-In(2)
181	1076.58	115.72	End Shut-In(2)
182	2037.02	115.51	Final Hydro-static

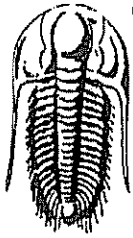
Recovery

Length (ft)	Description	Volume (bbl)
70.00	w cm 40%W 60%M	0.98

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-18s-34w Scott Co. KS

301 S Market ST
Wichita KS, 67202-3805

Gaschler-Krause Unit

Job Ticket: 52974

DST#: 5

ATTN: Steve Davis

Test Start: 2013.09.25 @ 14:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	w cm 40%W 60%M	0.982

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

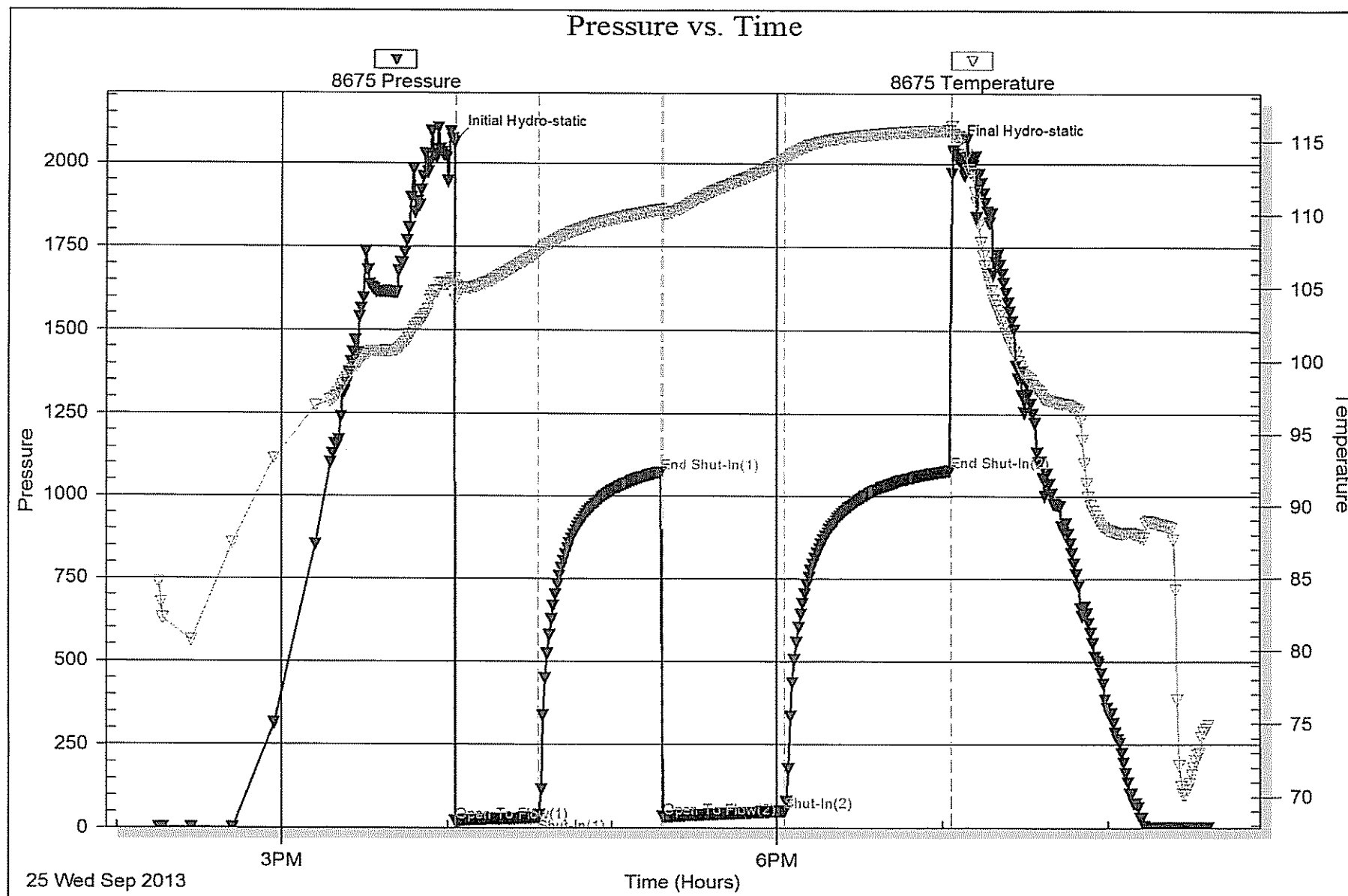
Num Gas Bombs: 0

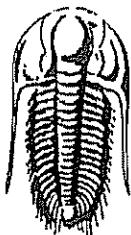
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .20 @ 78 F = 30,000





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

301 S Market ST
Wichita KS, 67202-3805

ATTN: Steve Davis

20-18s-34w Scott Co. KS

Gaschler-Krause Unit

Job Ticket: 52975

DST#: 6

Test Start: 2013.09.26 @ 22:25:00

GENERAL INFORMATION:

Formation: **Marmaton A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:29:30

Time Test Ended: 06:31:00

Interval: **4466.00 ft (KB) To 45000.0 ft (KB) (TVD)**

Total Depth: **4500.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

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

Tester: **Jace McKinney**

Unit No: **46**

Reference Elevations: **3140.00 ft (KB)**

3128.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: **8675**

Inside

Press@RunDepth: **944.88 psig @ 4467.00 ft (KB)**

Start Date: **2013.09.26**

End Date: **2013.09.27**

Start Time: **22:25:15**

End Time: **06:31:00**

Capacity: **8000.00 psig**

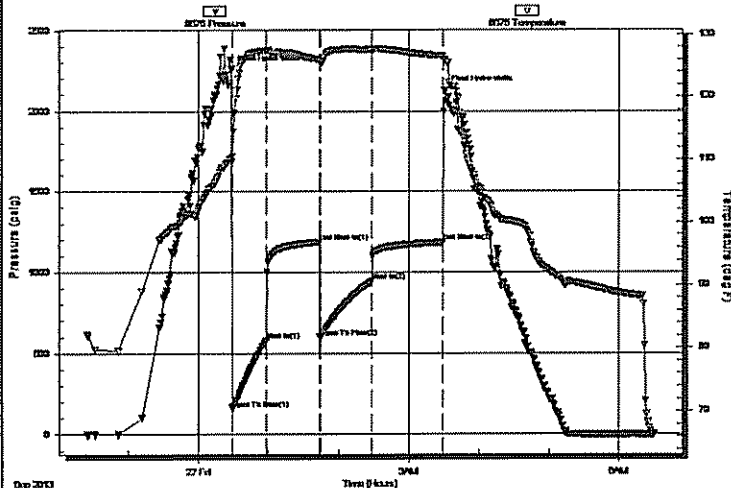
Last Calib.: **2013.09.27**

Time On Btm: **2013.09.27 @ 00:28:45**

Time Off Btm: **2013.09.27 @ 03:30:45**

TEST COMMENT: B.O.B. in 2 min
Bled off for 5 min. No return blow
B.O.B. in 3 min
Bled off for 5 min. No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2255.95	110.16	Initial Hydro-static
1	160.51	110.55	Open To Flow (1)
30	579.91	127.40	Shut-In(1)
75	1187.04	125.89	End Shut-In(1)
76	598.59	125.58	Open To Flow (2)
120	944.88	127.59	Shut-In(2)
181	1183.86	126.48	End Shut-In(2)
182	2127.90	125.99	Final Hydro-static

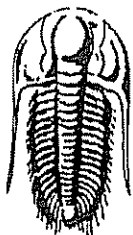
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Clean Oil	0.14
146.00	oscmw 40%M 60%W	2.05
315.00	oscmw 20%M 80%W	4.42
1639.00	ocw 100%W	22.99

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-18s-34w Scott Co. KS

301 S Market ST
Wichita KS, 67202-3805

Gaschler-Krause Unit

Job Ticket: 52975

DST#: 6

ATTN: Steve Davis

Test Start: 2013.09.26 @ 22:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 10.39 in³

Resistivity: ohm.m

Salinity: 9100.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Clean Oil	0.140
146.00	oscmw 40%M 60%W	2.048
315.00	oscmw 20%M 80%W	4.419
1639.00	ocw 100%W	22.991

Total Length: 2110.00 ft Total Volume: 29.598 bbl

Num Fluid Samples: 0

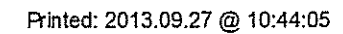
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

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





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Company

301 S Market ST
Wichita KS, 67202-3805

ATTN: Steve Davis

20-18s-34w Scott Co. KS

Gaschler-Krause Unit

Job Ticket: 52976

DST#: 7

Test Start: 2013.09.27 @ 17:30:00

GENERAL INFORMATION:

Formation: **Marmaton B & C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:41:45

Time Test Ended: 01:44:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4502.00 ft (KB) To 4550.00 ft (KB) (TVD)

Total Depth: 4550.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3140.00 ft (KB)

3128.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8675

Inside

Press@RunDepth: 277.70 psig @ 4503.00 ft (KB)

Start Date: 2013.09.27

End Date:

2013.09.28

Start Time: 17:30:15

End Time:

01:44:00

Capacity: 8000.00 psig

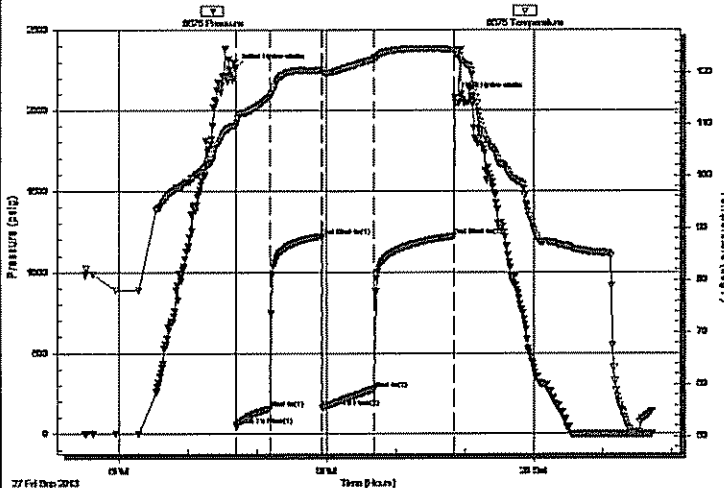
Last Calib.: 2013.09.28

Time On Btm: 2013.09.27 @ 19:41:15

Time Off Btm: 2013.09.27 @ 22:51:15

TEST COMMENT: B.O.B. in 7 min
Bled off for 5 min. Built to 2" return blow
B.O.B. in 10 1/2 min
Bled off for 5 min. B.O.B. in 48 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2268.50	109.61	Initial Hydro-static
1	53.96	109.50	Open To Flow (1)
31	158.58	115.34	Shut-In(1)
75	1222.36	120.36	End Shut-In(1)
76	163.15	119.93	Open To Flow (2)
120	277.70	122.52	Shut-In(2)
190	1220.74	124.30	End Shut-In(2)
190	2078.94	124.24	Final Hydro-static

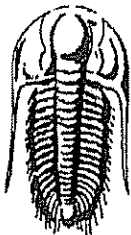
Recovery

Length (ft)	Description	Volume (bbl)
0.00	806 Feet Gas In Pipe	0.00
252.00	100% Clean Oil	3.53
189.00	mcgo 10%M 40%G 50%O	2.65
63.00	mcw go 10%M 10%W 20%G 60%O	0.88
126.00	gcomw 10%G 10%O 40%M 40%W	1.77
75.00	mcw with oil scum 20%M 80%O	1.05

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-18s-34w Scott Co. KS

301 S Market ST
Wichita KS, 67202-3805

Gaschler-Krause Unit

Job Ticket: 52976

DST#: 7

ATTN: Steve Davis

Test Start: 2013.09.27 @ 17:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 11.19 in³

Resistivity: ohm.m

Salinity: 10500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

32 deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	806 Feet Gas In Pipe	0.000
252.00	100% Clean Oil	3.535
189.00	mcgo 10%M 40%G 50%O	2.651
63.00	mcw go 10%M 10%W 20%G 60%O	0.884
126.00	gcomw 10%G 10%O 40%M 40%W	1.767
75.00	mcw with oil scum 20%M 80%O	1.052

Total Length: 705.00 ft

Total Volume: 9.889 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

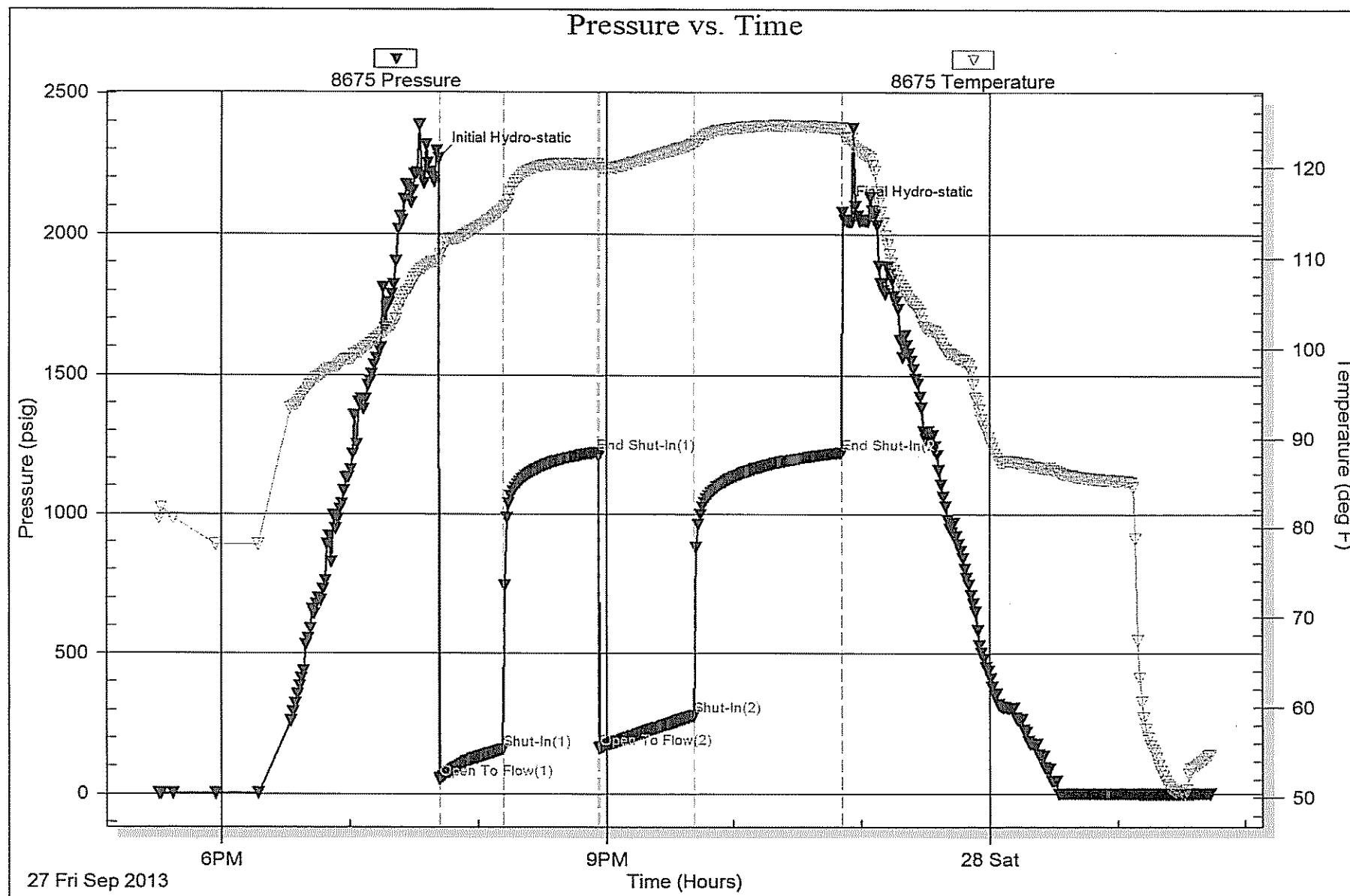
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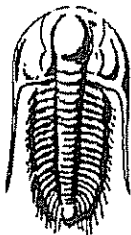
Laboratory Name:

Laboratory Location:

Recovery Comments: API: 31 @ 50 F = 32

RW .20 @ 50 F = 50,000





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

301 S Market ST
Wichita KS, 67202-3805

ATTN: Steve Davis

20-18s-34w Scott Co. KS

Gaschler-Krause Unit

Job Ticket: 52977

DST#: 8

Test Start: 2013.09.28 @ 11:50:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:30:30

Time Test Ended: 18:11:30

Interval: 4548.00 ft (KB) To 4585.00 ft (KB) (TVD)

Total Depth: 4585.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Reference Elevations: 3140.00 ft (KB)

3128.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8675

Inside

Press@RunDepth: 52.72 psig @ 4549.00 ft (KB)

Start Date: 2013.09.28

End Date: 2013.09.28

Start Time: 11:50:15

End Time: 18:11:30

Capacity: 8000.00 psig

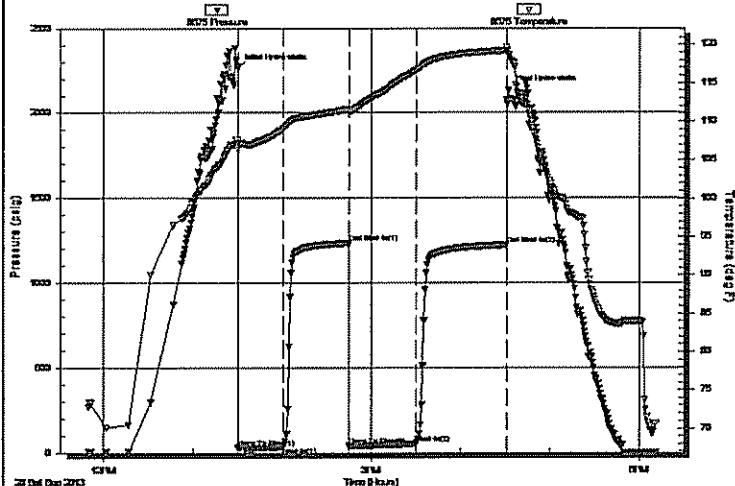
Last Calib.: 2013.09.28

Time On Btm: 2013.09.28 @ 13:30:15

Time Off Btm: 2013.09.28 @ 16:32:00

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

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2263.90	107.62	Initial Hydro-static
1	27.38	106.37	Open To Flow (1)
31	33.52	109.07	Shut-In(1)
75	1235.45	111.56	End Shut-In(1)
75	38.67	111.04	Open To Flow (2)
120	52.72	116.66	Shut-In(2)
181	1224.00	119.25	End Shut-In(2)
182	2130.75	118.72	Final Hydro-static

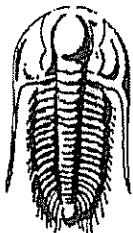
Recovery

Length (ft)	Description	Volume (bbl)
70.00	100% Mud with oil spots	0.98

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

20-18s-34w Scott Co. KS

301 S Market ST
Wichita KS, 67202-3805

Gaschler-Krause Unit

Job Ticket: 52977

DST#: 8

ATTN: Steve Davis

Test Start: 2013.09.28 @ 11:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 67.00 sec/qt

Water Loss: 11.19 in³

Resistivity: ohm.m

Salinity: 12000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	100% Mud with oil spots	0.982

Total Length: 70.00 ft

Total Volume: 0.982 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

