



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1167848  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1167848

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

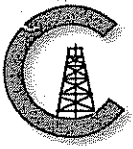
<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Krebs Credit Shelter 4-36
Doc ID	1167848

Tops

Name	Top	Datum
Heebner	3644	-991
Lansing	3682	-1029
Stark Shale	3938	-1285
Hushpuckney	3972	-1319
Base KC	4030	-1377
Marmaton	4068	-1415
Pawnee	4134	-1481
Ft. Scott	4165	-1512
Johnson	4253	-1600
Mississippian	4309	-1656





**CONSOLIDATED**  
Oil Well Services, LLC

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

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

INVOICE

Invoice # 263852

Invoice Date: 11/13/2013 Terms: 15/15/30,n/30

Page 1

LARIO OIL & GAS  
P.O. BOX 1093  
GARDEN CITY KS 67846  
(316)265-5611

KREBS CREDIT SHELTER #436  
44395  
36-14-32  
11-09-2013  
KS  
*Dailling*  
*AFE-13-306*

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	150.00	18.5500	2782.50
1102	CALCIUM CHLORIDE (50#)	423.00	.9400	397.62
1118B	PREMIUM GEL / BENTONITE	282.00	.2700	76.14
1111	SODIUM CHLORIDE (GRANULA)	2.00	.0000	.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-488.44
9995-130	CEMENT EQUIPMENT DISCOUNT	-244.88

Description	Hours	Unit Price	Total
463 CEMENT PUMP (SURFACE)	1.00	1150.00	1150.00
463 EQUIPMENT MILEAGE (ONE WAY)	10.00	5.25	52.50
693 MIN. BULK DELIVERY	1.00	430.00	430.00

*QC*  
*Nov 18 2013*  
*ESS*

Amount Due 5137.86 if paid after 12/13/2013

Parts:	3256.26	Freight:	.00	Tax:	211.73	AR	4367.17
Labor:	.00	Misc:	.00	Total:	4367.17		
Sublt:	-733.32	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_

Date \_\_\_\_\_



**CONSOLIDATED**  
Oil Well Services, LLC

263852

TICKET NUMBER 44395  
LOCATION Oakley K.  
FOREMAN Dawson

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

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11/9/13	4793	Krebs Credit. Station 4	36	14	32	Logan
CUSTOMER Lario Oil & Gas			Oakley			
MAILING ADDRESS			22 S Einto			
CITY			STATE			
ZIP CODE			COUNTY			

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 223 CASING SIZE & WEIGHT 8 5/8 23"  
CASING DEPTH 222.61 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 148 SLURRY VOL 1.36 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
DISPLACEMENT 12.96 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting Rig up on H2 #2 Run Casing Break Circulation  
With Big Pump Hook up to Pump Truck mix 150SKs Com 3%CC 2%Gel  
Displace with 12.96 bbl water wash up pump & lines

Cement Did Circulate

Approx 1 bbls to Pit

Thanks Dawson & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	\$ 1150.00	\$ 1150.00
5406	10	MILEAGE	\$ 5.25	\$ 52.50
5407	7.1	Ton Mileage Delivery	\$ 1.75	\$ 430.00
11045	150 SKs	Class "A" Cement	\$ 18.55	\$ 2782.50
1102	423 #	Calcium Chloride	\$ .94	\$ 397.62
1118B	282 #	Bentonite	\$ .27	\$ 76.14
1111	2 SKs	Salt	NC	NC
			SubTotal	4885.76
			Less 15%	733.32
			SubTotal	4155.44
			SALES TAX	211.73
			ESTIMATED TOTAL	4367.17

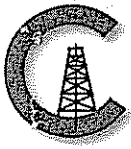
**Completed**

Ravin 3737

AUTHORIZATION Steven Craig STEVEN CRAIG

DATE 11-9-13

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.



**CONSOLIDATED**  
Oil Well Services, LLC

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

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

INVOICE

Invoice # 264210

Invoice Date: 11/25/2013 Terms: 10/10/30,n/30

Page 1

LARIO OIL & GAS  
P.O. BOX 1093  
GARDEN CITY KS 67846  
(316)265-5611

KREBS CREDIT SCHOLLER 4-36  
44540  
36-14-32  
11-19-2013  
KS

*Krebs Credit Scholler 4-36  
long string AFE-B-306  
CK 11/27/13*

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	165.00	23.7000	3910.50
1131	60/40 POZ MIX	400.00	15.8600	6344.00
1110A	KOL SEAL (50# BAG)	825.00	.5600	462.00
1107	FLO-SEAL (25#)	100.00	2.9700	297.00
1118B	PREMIUM GEL / BENTONITE	2752.00	.2700	743.04
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4104	CEMENT BASKET 5 1/2"	1.00	290.0000	290.00
4130	CENTRALIZER 5 1/2"	9.00	61.0000	549.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4277A	DV TOOL-WEATHERFORD 5 1/	1.00	4800.0000	4800.00
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
1111	SODIUM CHLORIDE (GRANULA	200.00	.0000	.00

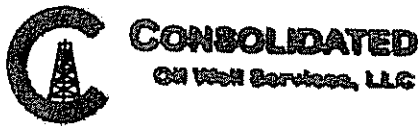
Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1889.63
9995-130	CEMENT EQUIPMENT DISCOUNT	-366.50

Description	Hours	Unit Price	Total
397 TON MILEAGE DELIVERY	1.00	218.75	218.75
399 SINGLE PUMP	1.00	3175.00	3175.00
399 EQUIPMENT MILEAGE (ONE WAY)	10.00	5.25	52.50
T-129 TON MILEAGE DELIVERY	1.00	218.75	218.75

Amount Due 24006.86 if paid after 12/25/2013

Parts:	18896.29	Freight:	.00	Tax:	1301.01	AR	21606.17
Labor:	.00	Misc:	.00	Total:	21606.17		
Sublt:	-2256.13	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_ Date \_\_\_\_\_



264210

TICKET NUMBER 44540  
 LOCATION OAKLEY KS  
 FOREMAN DAMON M. FUZZY

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

FIELD TICKET & TREATMENT REPORT  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
11-19-13	4793	KREBS CREDIT SCHOLLER 4-36	36	14	32	LOGAN	
CUSTOMER		OAKLEY S N SIDE OF RIVER 4 E S&E INFO		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		LARIO OIL & GAS		399	JORDAN L.		
CITY		STATE		397	JEREMY S.		
ZIP CODE				528 F129	CODY R.		

JOB TYPE 2 STAGE HOLE SIZE 7 7/8 HOLE DEPTH 4500 CASING SIZE & WEIGHT 5 1/2 #4  
 CASING DEPTH 4470 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DV @ 2151  
 SLURRY WEIGHT 13.8/12.5 SLURRY VOL 1.42/1.89 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING SHOE 32.68  
 DISPLACEMENT 108.2/52.48 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

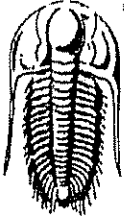
REMARKS: SAFETY MEETING RIG UP ON H2 RIG 2 RAN FLOAT EQUIPMENT CENTRALIZERS ON JOINTS 1, 4, 7, 10, 13, 16, 19, 54, 57 BASKET ON MIDDLE OF #55 DV ON JOINT #56 RUN CASING TO BOTTOM CIRC FOR 1 1/2 HRS PUMP 5 BBL OF H2O 500 GAL OF MUD FLUSH 5 BBL OF H2O MIX 165 SKS OWC #5 KOLSEAL SHUT DOWN DROPPED PLUG THEN PUMPED 50 BBL OF H2O LANDED PLUG LIFE WAS #800 LAND @ 4400 RIGGED UP TO CIRCULATE 3 HRS. 58 BBL AS MUD RAN 5 BBL AHEAD MIXED 350 SKS 60/40 POZ 890 GAL 1/4" FLOSEAL SHUT DOWN RELEASED PLUG PUMPED 5 1/2 BBL OF H2O LRP #800 LANDED @ #1550 SHUT DOWN RELEASED PRESSURE PLUG HELD WASHED UP AND RIGGED DOWN CEMENT DID CIRCULATE APPROX 20 BBL TO THE PIT. RH 30 SKS MN 20 SKS  
 THANK YOU DAMON FUZZY & CREW

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	10	MILEAGE	5.25	52.50
5407A	25.0	TON MILEAGE DELIVERY	1.75	437.50
1126	165 SKS	OWC	23.70	3910.50
1131	400 SKS	60/40 POZ	15.86	6344.00
1110A	825 #	KOLSEAL	.56	462.00
1107	100 #	FLOSEAL	2.97	297.00
1118B	2752 #	BETONITE	.27	743.04
1144G	500 GAL	MUD FLUSH	1.00	500.00
4104	1	5 1/2 BASKET	290.00	290.00
4130	9	5 1/2 CENTRALIZERS	61.00	549.00
4159	1	AFU FLOAT SHOE	433.75	433.75
4277A	1	5 1/2 DV TOOL	4800.00	4800.00
4454	1	5 1/2 LATCH DOWN PLUG	567.00	567.00
1111	4 200#	SALT	N/C	N/C
			SUBTOTAL	22561.29
			LESS 10% DISC	2256.13
			SUBTOTAL	20305.16
			SALES TAX 7.65	1301.01
			ESTIMATED TOTAL	21606.17

Ravin 3737

AUTHORIZATION Damon L. Daniel TITLE \_\_\_\_\_ DATE 11/20/13  
 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.





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Lario Oil & Gas Company  
 301 S Market ST  
 Wichita KS, 67202-3805  
 ATTN: Steve Davis

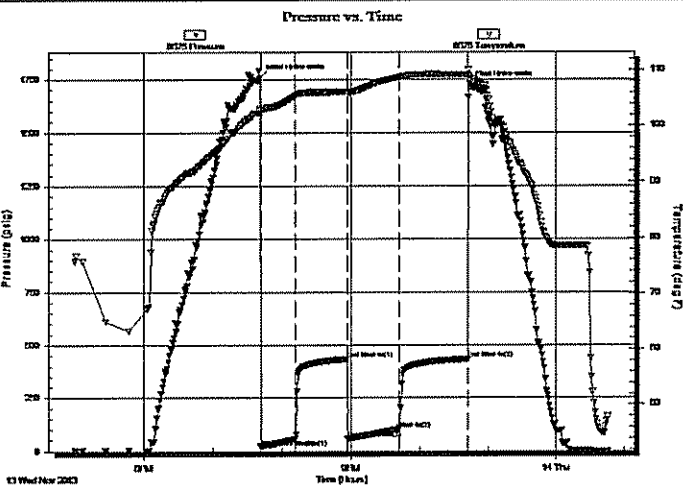
36-14s-32w Logan Co. KS  
**Krebs Credit Shelter**  
 Job Ticket: 52997      DST#: 1  
 Test Start: 2013.11.13 @ 17:00:00

**GENERAL INFORMATION:**

Formation: **Lansing " B "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:41:30  
 Time Test Ended: 00:45:15  
 Interval: 3704.00 ft (KB) To 3740.00 ft (KB) (TVD)  
 Total Depth: 3730.00 ft (KB) (TVD)  
 Hole Diameter: 6.75 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jace McKinney  
 Unit No: 46  
 Reference Elevations: 2651.00 ft (KB)  
 2640.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8675** Inside  
 Press@RunDepth: 102.78 psig @ 3705.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.13 End Date: 2013.11.14 Last Calib.: 2013.11.14  
 Start Time: 17:00:15 End Time: 00:45:15 Time On Blm: 2013.11.13 @ 19:41:15  
 Time Off Blm: 2013.11.13 @ 22:43:15

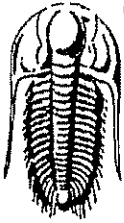
**TEST COMMENT:** Built to 4 3/4" blow  
 No return blow  
 Built to 4" blow  
 No return blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.08	103.15	Initial Hydro-static
1	18.12	101.88	Open To Flow (1)
31	55.00	105.40	Shut-In(1)
76	433.93	106.14	End Shut-In(1)
76	57.01	105.95	Open To Flow(2)
121	102.78	108.71	Shut-In(2)
181	433.32	109.22	End Shut-In(2)
182	1726.34	109.06	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
176.00	w cm 40%W 60%M	0.87
30.00	Clean Oil	0.15

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas Company

36-14s-32w Logan Co. KS

301 S Market ST  
Wichita KS, 67202-3805

**Krebs Credit Shelter**

Job Ticket: 52997      DST#: 1

ATTN: Steve Davis

Test Start: 2013.11.13 @ 17:00:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 35000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.80 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1500.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
176.00	w cm 40%W 60%M	0.866
30.00	Clean Oil	0.148

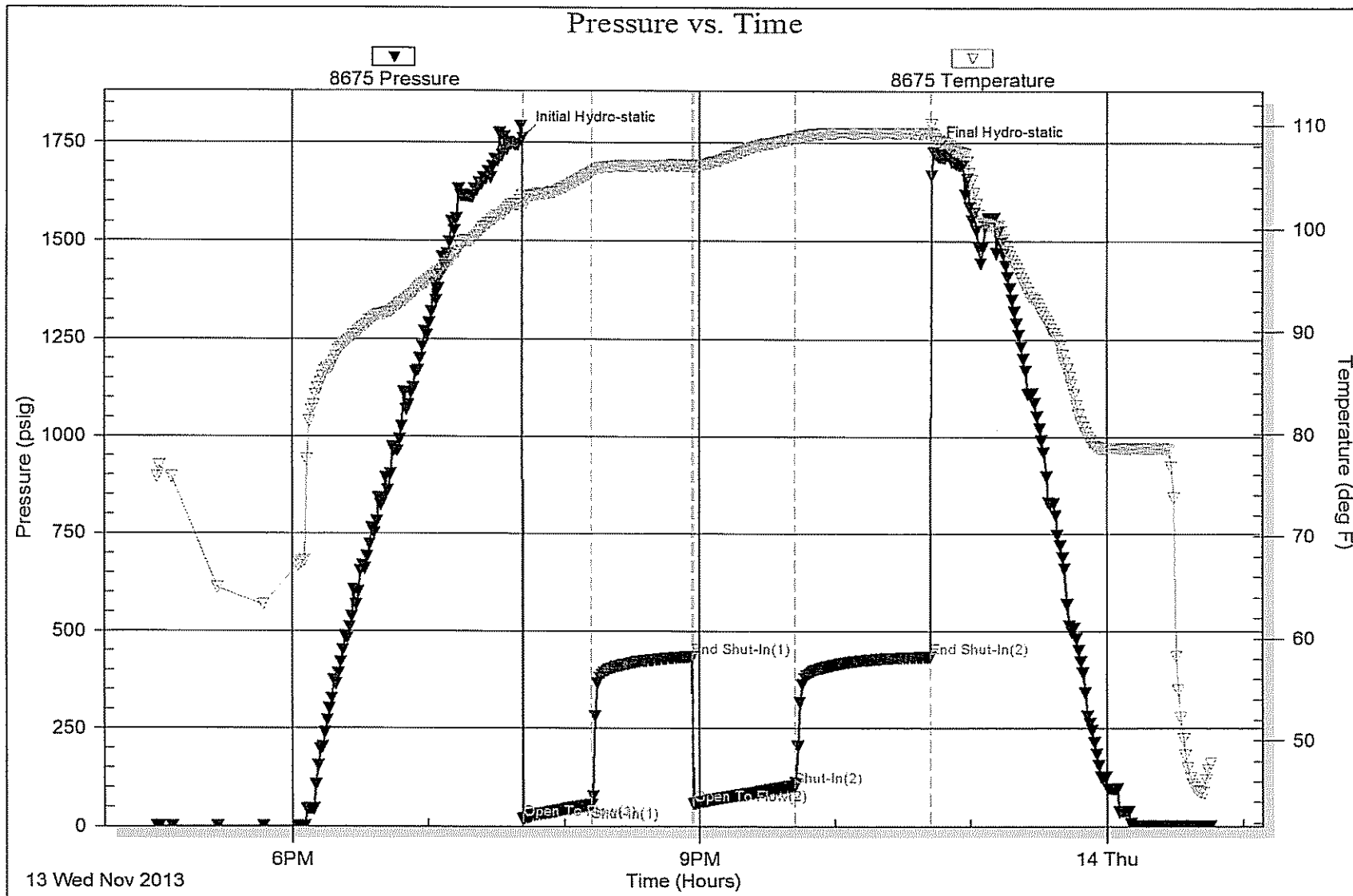
Total Length: 206.00 ft      Total Volume: 1.014 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW. .30 @ 45 F = 35,000

API: 35 @ 40 F = 37



# DRILL STEM TEST REPORT



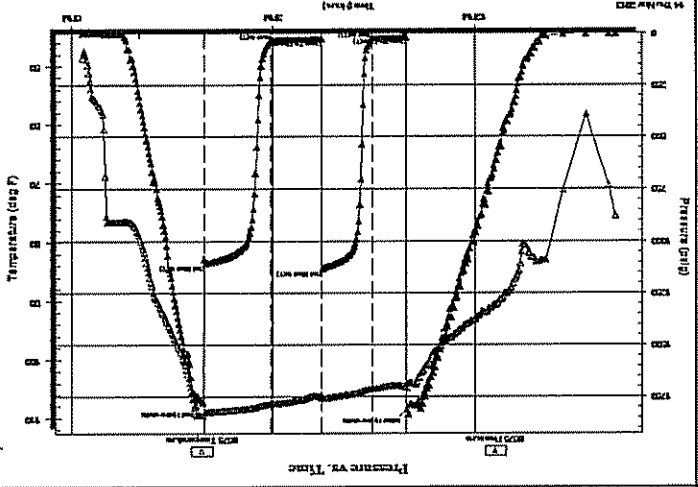
Lario Oil & Gas Company  
 301 S Market ST  
 Wichita KS, 67202-3805  
 ATTN: Steve Davis

36-14s-32w Logan Co. KS  
 Krebs Credit Shelter  
 Job Ticket: 52998 DST#: 2  
 Test Start: 2013.11.14 @ 09:55:00

## GENERAL INFORMATION:

Formation: Lansing D  
 Deviated: No Whipstock: No  
 Time Tool Opened: 13:00:45  
 Time Test Ended: 17:50:15  
 Interval: 3754.00 ft (KB) To 3780.00 ft (KB) (TVD)  
 Total Depth: 3780.00 ft (KB) (TVD)  
 Hole Diameter: 6.75 inchesHole Condition: Poor  
 Reference Elevations: 2651.00 ft (KB)  
 2640.00 ft (CF)  
 11.00 ft  
 KB to GR/CF:

**Serial #: 8675**  
 Inside  
 Press@RunDepth: 34.37 psig @ 3755.00 ft (KB)  
 Start Date: 2013.11.14  
 End Date: 2013.11.14  
 Start Time: 09:55:15  
 End Time: 17:50:15  
 Capacity: 8000.00 psig  
 Last Callb.: 2013.11.14  
 Time On Birt: 2013.11.14 @ 13:00:30  
 Time Off Birt: 2013.11.14 @ 16:02:00  
**TEST COMMENT:** Built to 3/4" blow  
 No return blow  
 No blow  
 No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1810.64	104.95	Initial Hydro-static
1	18.65	104.11	Open To Flow (1)
31	25.71	105.05	Shut-in (1)
76	1133.83	106.69	End Shut-in (1)
76	27.09	106.06	Open To Flow (2)
121	34.37	107.63	Shut-in (2)
181	1106.79	109.03	End Shut-in (2)
182	1780.97	109.56	Final Hydro-static

## Gas Rates

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

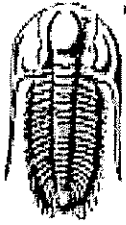
## Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% mud with oil spots	0.07

Triobite Testing, Inc

Ref. No: 52998

Printed: 2013.11.01 @ 04:05:30



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas Company

**36-14s-32w Logan Co. KS**

301 S Market ST  
Wichita KS, 67202-3805

**Krebs Credit Shelter**

Job Ticket: 52998

DST#: 2

ATTN: Steve Davis

Test Start: 2013.11.14 @ 09:55:00

**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: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
15.00	100% mud with oil spots	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbf

Num Fluid Samples: 0

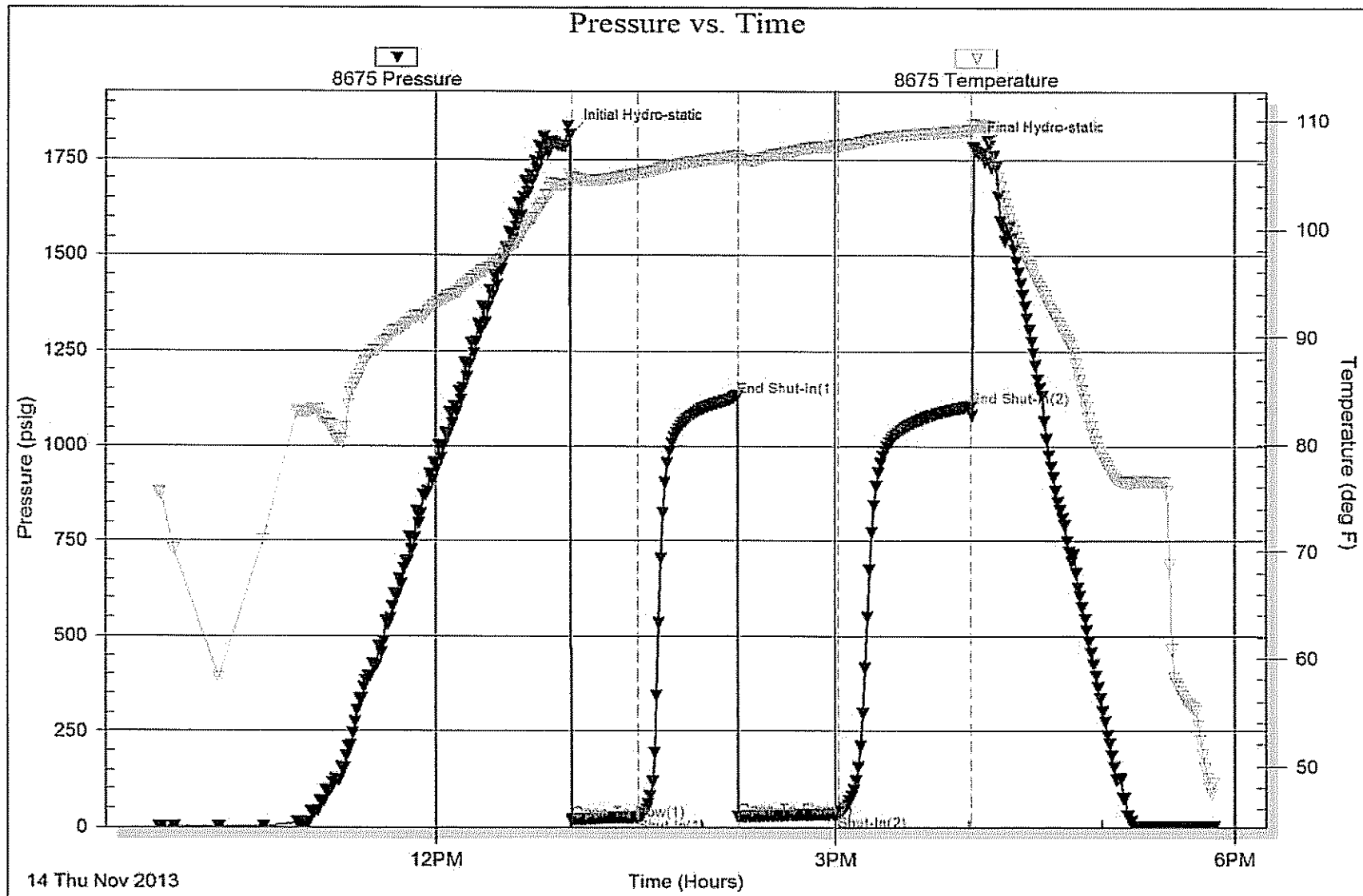
Num Gas Bombs: 0

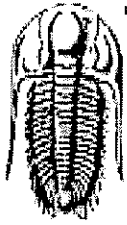
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Lario Oil & Gas Company  
 301 S Market ST  
 Wichita KS, 67202-3805  
 ATTN: Steve Davis

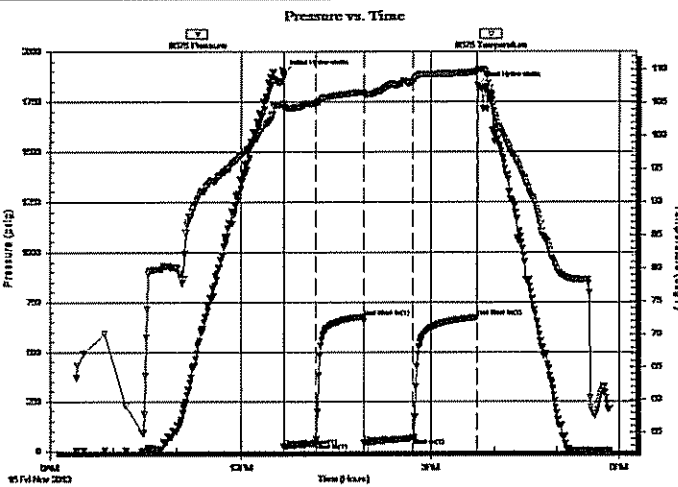
36-14s-32w Logan Co. KS  
 Krebs Credit Shelter  
 Job Ticket: 52999 DST#: 3  
 Test Start: 2013.11.15 @ 09:25:00

**GENERAL INFORMATION:**

Formation: Lansing "H & I"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:40:45  
 Time Test Ended: 17:51:00  
 Interval: 3844.00 ft (KB) To 3914.00 ft (KB) (TVD)  
 Total Depth: 3914.00 ft (KB) (TVD)  
 Hole Diameter: 6.75 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 46  
 Reference Elevations: 2651.00 ft (KB)  
 2640.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8675** Inside  
 Press@RunDepth: 65.72 psig @ 3845.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.15 End Date: 2013.11.15 Last Calib.: 2013.11.15  
 Start Time: 09:25:15 End Time: 17:51:00 Time On Blm: 2013.11.15 @ 12:40:30  
 Time Off Blm: 2013.11.15 @ 15:44:00

TEST COMMENT: Built to 2" blow  
 No return blow  
 Built to 1 3/4" blow  
 No return blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1891.61	104.89	Initial Hydro-static
1	22.43	104.24	Open To Flow (1)
31	39.57	104.94	Shut-In(1)
76	676.10	106.65	End Shut-In(1)
76	41.53	106.37	Open To Flow (2)
123	65.72	108.27	Shut-In(2)
183	673.87	109.69	End Shut-In(2)
184	1831.45	109.98	Final Hydro-static

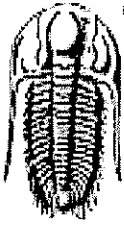
**Recovery**

Length (ft)	Description	Volume (bbl)
70.00	100% Mud with oil spots	0.34

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas Company

**36-14s-32w Logan Co. KS**

301 S Market ST  
Wichita KS, 67202-3805

**Krebs Credit Shelter**

Job Ticket: 52999

DST#: 3

ATTN: Steve Davis

Test Start: 2013.11.15 @ 09:25:00

**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: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
70.00	100% Mud with oil spots	0.344

Total Length: 70.00 ft

Total Volume: 0.344 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

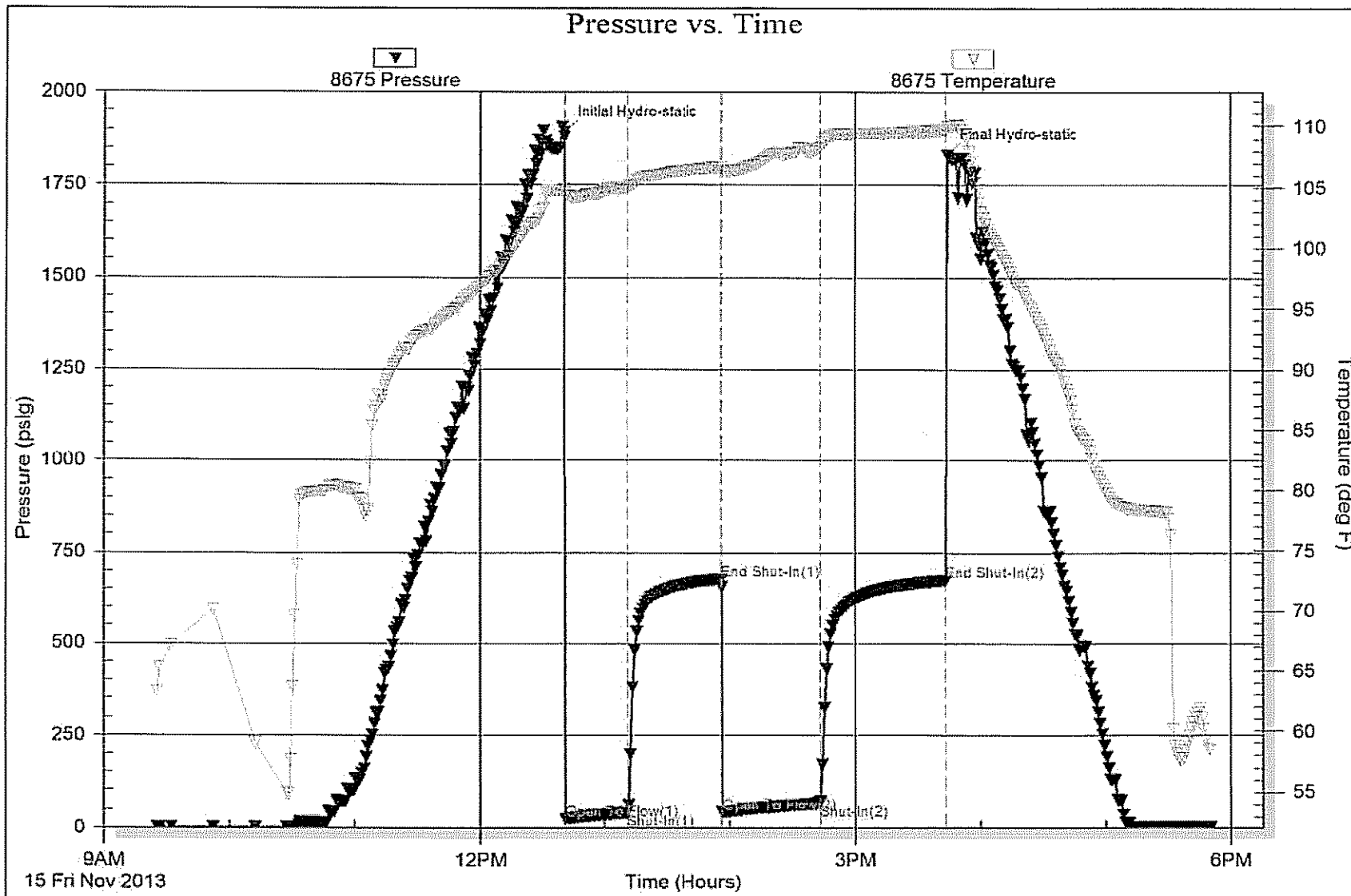
Serial #:

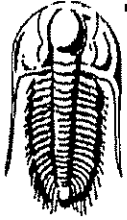
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Company

36-14s-32w Logan Co. KS

301 S Market ST  
Wichita KS, 67202-3805

Krebs Credit Shelter

Job Ticket: 53000 DST#: 4

ATTN: Steve Davis

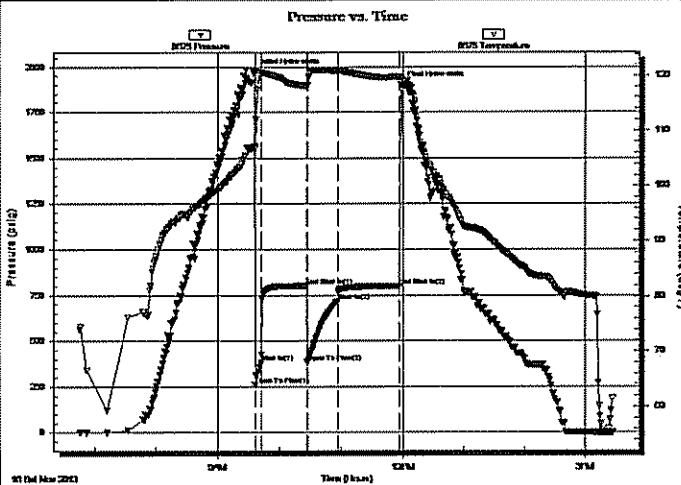
Test Start: 2013.11.16 @ 06:45:00

## GENERAL INFORMATION:

Formation: **Lansing "L"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:36:15  
 Time Test Ended: 15:28:00  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 46  
 Interval: **3970.00 ft (KB) To 3998.00 ft (KB) (TVD)**  
 Total Depth: **3998.00 ft (KB) (TVD)**  
 Hole Diameter: **6.75 inches** Hole Condition: Poor  
 Reference Elevations: **2651.00 ft (KB)**  
**2640.00 ft (CF)**  
 KB to GR/CF: **11.00 ft**

**Serial #: 8675** Inside  
 Press@RunDepth: 719.09 psig @ 3971.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.16 End Date: 2013.11.16 Last Calib.: 2013.11.16  
 Start Time: 06:45:15 End Time: 15:28:00 Time On Bltm: 2013.11.16 @ 09:36:00  
 Time Off Bltm: 2013.11.16 @ 11:58:30

TEST COMMENT: B.O.B. in 1 1/2 min.  
 Bled off for 5 min. Very weak surface blow  
 B.O.B. in 1 3/4 min.  
 Bled off for 5 min. Built to 3" return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1973.37	107.16	Initial Hydro-static
1	258.07	106.71	Open To Flow (1)
6	382.27	120.49	Shut-In(1)
51	801.55	118.09	End Shut-In(1)
51	382.50	118.09	Open To Flow (2)
81	719.09	120.88	Shut-In(2)
142	799.87	119.73	End Shut-In(2)
143	1901.36	119.57	Final Hydro-static

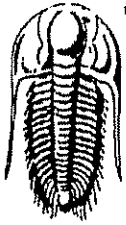
## Recovery

Length (ft)	Description	Volume (bbl)
734.00	100% Water	8.14
310.00	100% Water with oil scum	4.35
248.00	gcow 10%G 10%M 10%O 70%W	3.48
92.00	gcow m 10%G 10%O 30%W 50%M	1.29
92.00	Clean Oil 15&G 85%O	1.29

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas Company

36-14s-32w Logan Co. KS

301 S Market ST  
Wichita KS, 67202-3805

Krebs Credit Shelter

Job Ticket: 53000      DST#: 4

ATTN: Steve Davis

Test Start: 2013.11.16 @ 06:45:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 28 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2600.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
734.00	100% Water	8.139
310.00	100% Water with oil scum	4.348
248.00	gcow 10%G 10%M 10%O 70%W	3.479
92.00	gcow m 10%G 10%O 30%W 50%M	1.291
92.00	Clean Oil 15&G 85%O	1.291

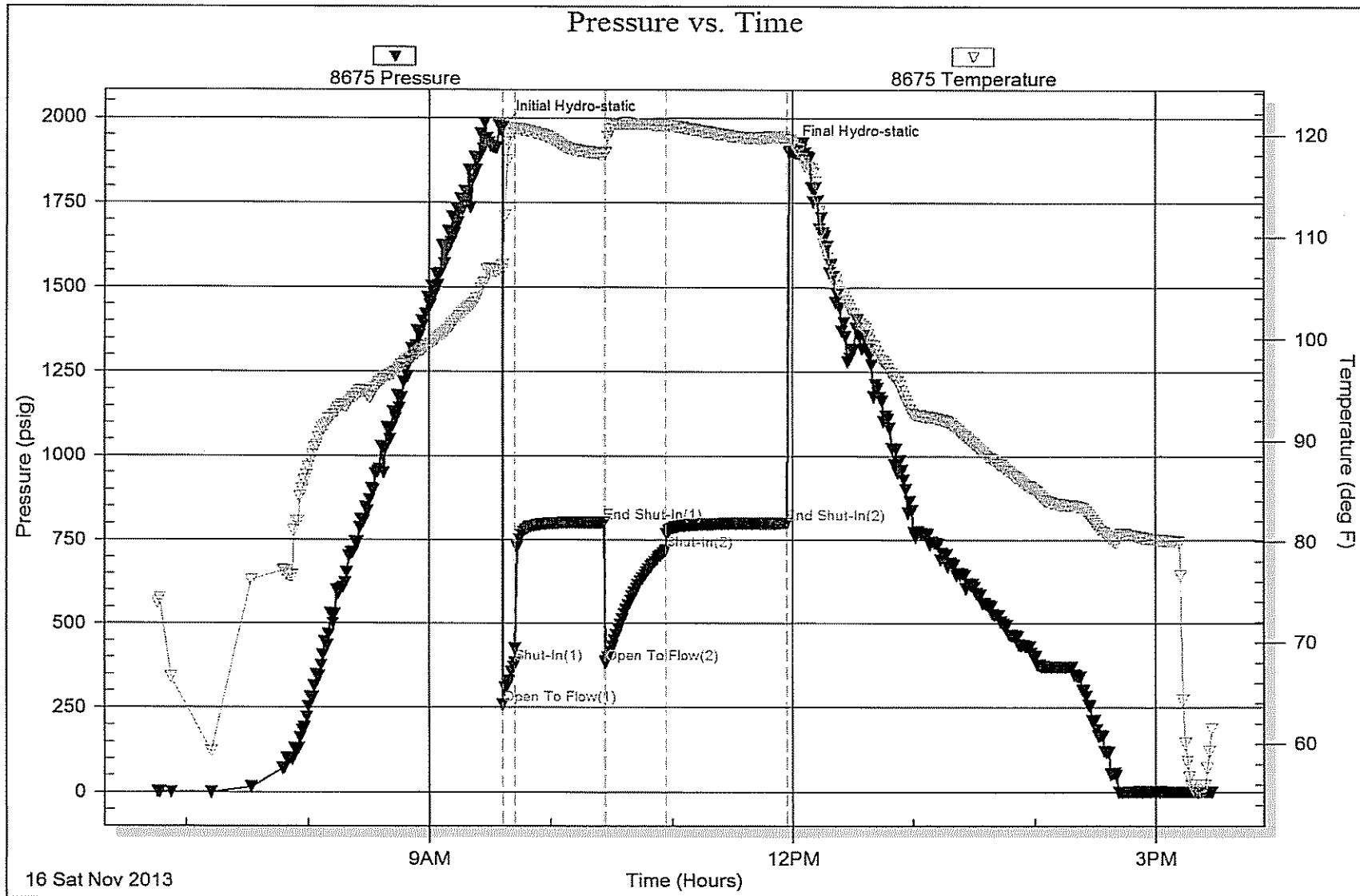
Total Length: 1476.00 ft      Total Volume: 18.548 bbl

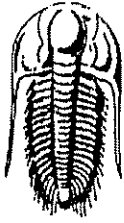
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: API: 29 @ 70 F = 28

RW: .09 @ 80 F = 70,000





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Lario Oil & Gas Company  
 301 S Market ST  
 Wichita KS, 67202-3805  
 ATTN: Steve Davis

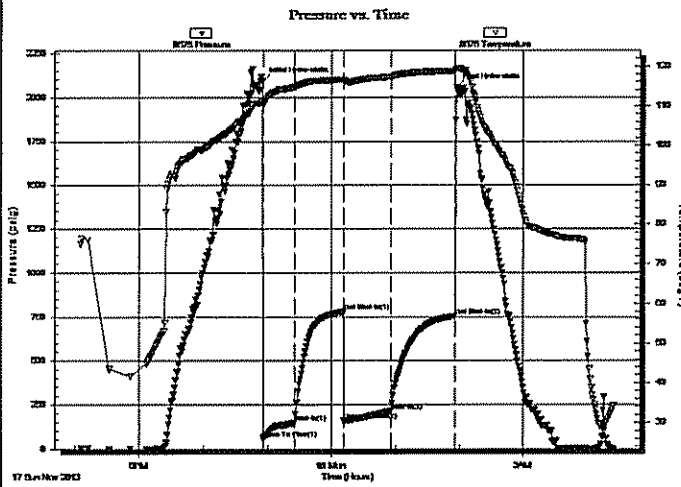
36-14s-32w Logan Co. KS  
 Krebs Credit Shelter  
 Job Ticket: 54576 DST#: 5  
 Test Start: 2013.11.17 @ 20:05:00

**GENERAL INFORMATION:**

Formation: **Johnson Zone**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:56:00  
 Time Test Ended: 04:26:30  
 Interval: **4210.00 ft (KB) To 4280.00 ft (KB) (TVD)**  
 Total Depth: **4280.00 ft (KB) (TVD)**  
 Hole Diameter: **6.75 inches** Hole Condition: **Poor**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Jace McKinney**  
 Unit No: **46**  
 Reference Elevations: **2651.00 ft (KB)**  
**2640.00 ft (CF)**  
 KB to GR/CF: **11.00 ft**

**Serial #: 8675** Inside  
 Press@RunDepth: **214.68 psig @ 4211.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2013.11.17** End Date: **2013.11.18** Last Calib.: **2013.11.18**  
 Start Time: **20:05:15** End Time: **04:26:30** Time On Btm: **2013.11.17 @ 22:55:30**  
 Time Off Btm: **2013.11.18 @ 01:57:15**

**TEST COMMENT:** B.O.B. in 8 1/2 min.  
 Bled off for 5 min. Built to 6" return blow  
 B.O.B. in 4 min.  
 Bled off for 5 min. B.O.B. in 39 min.

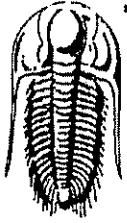


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.00	111.10	Initial Hydro-static
1	55.42	110.54	Open To Flow (1)
30	148.15	114.75	Shut-In (1)
76	777.88	116.54	End Shut-In (1)
76	160.42	116.30	Open To Flow (2)
120	214.68	117.28	Shut-In (2)
181	753.85	118.73	End Shut-In (2)
182	2059.43	119.46	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
118.00	gcmo 20%G 40%M 40%O	0.58
118.00	mcgo 5%M 30%G 65%O	0.58
124.00	mcgo 10%M 20%G 70%O	1.73
140.00	100% Clean Oil	1.96
0.00	1290 Feet Gas In Pipe	0.00

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Lario Oil & Gas Company

36-14s-32w Logan Co. KS

301 S Market ST  
Wichita KS, 67202-3805

Krebs Credit Shelter

Job Ticket: 54576      DST#: 5

ATTN: Steve Davis

Test Start: 2013.11.17 @ 20:05:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
118.00	gcmo 20%G 40%M 40%O	0.580
118.00	mcgo 5%M 30%G 65%O	0.580
124.00	mcgo 10%M 20%G 70%O	1.733
140.00	100% Clean Oil	1.964
0.00	1290 Feet Gas In Pipe	0.000

Total Length: 500.00 ft      Total Volume: 4.857 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: API: 29 @ 20 F = 33

