



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1086438
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: _____

1086438

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
--	---

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> _____
---	--

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Ziegler Trust 4-31
Doc ID	1086438

Tops

Name	Top	Datum
Heebner	3968	-996
Lansing	4014	-1042
Stark Shale	4240	-1268
Hushpuckney	4278	-1306
Base KC	4312	-1340
Marmaton	4347	-1375
Pawnee	4442	-1470
Ft. Scott	4471	-1499
Johnson	4569	-1597
Morrow	4586	-1614
Basal Penn	4596	-1624
Mississippian	4612	-1640

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

Sam Brownback, Governor

July 25, 2012

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

Re: ACO1
API 15-063-22006-00-00
Ziegler Trust 4-31
NE/4 Sec.31-12S-31W
Gove 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: 131745
Invoice Date: Jun 29, 2012
Page: 1



*drilling AFE 12-133
7-10-12 LK*

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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Lario	Ziegler Tst #4-31	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 29, 2012	7/29/12

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	16.25	2,843.75
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
188.50	SER	Handling	2.10	395.85
344.00	SER	Ton Miles	2.35	808.40
1.00	SER	Surface	1,125.00	1,125.00
40.00	SER	Heavy Vehicle Mileage	7.00	280.00
1.00	SER	Manifold Head Rental	200.00	200.00
40.00	SER	Light Vehicle Mileage	4.00	160.00
1.00	EQP	8 5/8 Wooden Plug	92.00	92.00
1.00	EQUIP OPER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		

af
ye
JUL 12 2012
fe

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

\$ 1713.03

ONLY IF PAID ON OR BEFORE
Jul 24, 2012

Subtotal	6,317.95
Sales Tax	269.57
Total Invoice Amount	6,587.52
Payment/Credit Applied	
TOTAL	6,587.52

ALLIED OIL & GAS SERVICES, LLC 056227

Federal Tax I.D.# 20-5975804

ATTN: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT

Oakley

DATE <u>6-29-12</u>	SEC <u>31</u>	TWP. <u>12</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>2:30 PM</u>	JOB START <u>4:30 PM</u>	JOB FINISH <u>5:00 PM</u>
LEASE <u>Ziegler Trust</u>	WELL# <u>4-31</u>	LOCATION <u>Oakley 5 To Topeka 3 E 1/2 S</u>			COUNTY <u>Grave</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>			WINTO				

CONTRACTOR Duke #4

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 13'

PERFS.

DISPLACEMENT 16.01

EQUIPMENT

OWNER Same

CEMENT

AMOUNT ORDERED 175 SKs Com 3% CC

2% Gel

PUMP TRUCK CEMENTER Duane Racette

423-281 HELPER Tyler Flipse

BULK TRUCK

404 DRIVER Brandon Wilkison

BULK TRUCK

DRIVER

COMMON	<u>175 SKs</u>	@ <u>\$16.25</u>	<u>\$2843.75</u>
POZMIX		@	
GEL	<u>3 SKs</u>	@ <u>\$21.35</u>	<u>\$63.75</u>
CHLORIDE	<u>6 SKs</u>	@ <u>\$58.20</u>	<u>\$349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>188.50</u>	@ <u>\$2.10</u>	<u>\$395.85</u>
MILEAGE	<u>80.83 x 40x</u>	@ <u>\$2.35</u>	<u>\$808.92</u>
TOTAL			<u>\$4460.95</u>

REMARKS:

Mix 175 SKs Cement

Displace with water

Cement ~~is~~ Did Circulate

SERVICE

DEPTH OF JOB	<u>251.38</u>		
PUMP TRUCK CHARGE			<u>\$125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>40</u>	@ <u>7.00</u>	<u>\$280.00</u>
MANIFOLD	<u>Head</u>	@	<u>\$200.00</u>
<u>Lv mileage</u>		@ <u>4.00</u>	<u>\$160.00</u>
		@	
TOTAL			<u>\$1765.00</u>

CHARGE TO: Lorid Oil & Gas Co.

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>1 Wooden Plug</u>	@	<u>\$92.00</u>
	@	
	@	
	@	
	@	
TOTAL		<u>\$92.00</u>

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____

TOTAL CHARGES 6,317.95

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE Rush Wheeler

Bid 2870



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 131816

Invoice Date: Jul 7, 2012

Page: 1



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

*drilling AFE 12 133
7-16-12 LK*

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Lario	<u>Ziegler Trust #4-31</u>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jul 7, 2012	8/6/12

Quantity	Item	Description	Unit Price	Amount
123.00	MAT	Class A Common	16.25	1,998.75
82.00	MAT	Pozmix	8.50	697.00
7.00	MAT	Gel	21.25	148.75
52.00	MAT	Flo Seal	2.70	140.40
220.20	SER	Cubic Feet	2.10	462.45
128.71	SER	Ton Mileage	2.35	302.48
1.00	SER	Plug to Abandon	1,250.00	1,250.00
14.00	SER	Pump Truck Mileage	7.00	98.00
14.00	SER	Light Vehicle Mileage	4.00	56.00
1.00	EQP	8.5/8 Plug	92.00	92.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Adam Holcomb		

*out
KC*
[Signature]
JUL 20
*out
KC*

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

\$1049.16

ONLY IF PAID ON OR BEFORE
Aug 1, 2012

Subtotal	5,245.83
Sales Tax	422.29
Total Invoice Amount	5,668.12
Payment/Credit Applied	
TOTAL	5,668.12

ALLIED OIL & GAS SERVICES, LLC 056757

Federal Tax I.D.# 20-5076804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

DATE 7/7/12 SEC. 31 TWP. 12 RANGE 31 CALLED OUT _____ ON LOCATION 9:30a JOB START 12:00pm JOB FINISH 12:30p
LEASE # Regler Tuffell # 431 LOCATION Dakky 105 3E 1/4 S w/into COUNTY Good STATE KS
OLD OR NEW (Circle one)

CONTRACTOR Dakky OWNER Same
TYPE OF JOB PTA
HOLE SIZE 7 7/8 T.D. _____
CASINO SIZE 8 3/8 DEPTH 295
TUBING SIZE _____ DEPTH _____
DRILL PIPE 4 1/2 DEPTH _____
TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SIOB JOINT _____
CEMENT LEFT IN CSG. _____
PERFS. _____
DISPLACEMENT _____

CEMENT AMOUNT ORDERED 295 60/40 90 2
114 FLO
COMMON 123 @ 16.25 = 1998.75
POZMIX 82 @ 23.50 = 1927.00
OBL 7 @ 21.50 = 150.50
CHLORIDE _____ @ _____ = _____
ASC _____ @ _____ = _____
HANDLING 200216 CE @ 2.10 = 420.45
MILEAGE 2 1/2 mile @ 9.194 per = 302.50
TOTAL 3749.20

EQUIPMENT
PUMP TRUCK CEMENTER Alm 1
422 HELPER Wayne 2
BULK TRUCK _____
510 DRIVER Alm Holcomb 3
BULK TRUCK _____
_____ DRIVER _____

REMARKS:
25 @ 24.85
40 @ 16.25
40 @ 31.51
10 @ 4.01
20 @ 14.10
Thank you
Alm, Wayne, Alm

CHARGE TO: Lesio Oil & Gas
STREET _____
CITY _____ STATE _____ ZIP _____

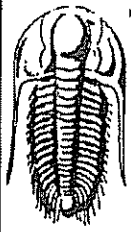
To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____
SIGNATURE Fish Wheeler

SERVICE
DEPTH OF JOB _____
PUMP TRUCK CHARGE 2485
EXTRA FOOTAGE _____ @ _____ = _____
MILEAGE 14 mile @ 2.00 = 28.00
MANIFOLD _____ @ _____ = _____
2 to vehicle 14 mile @ 4.00 = 56.00
TOTAL 1404.00

PLUG & FLOAT EQUIPMENT
Plug @ _____ = 92.00

TOTAL 92.00
SALES TAX (If Any) 429.28
TOTAL CHARGES 5,245.83
DISCOUNT 1049.16 IF PAID IN 30 DAYS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Company

31-12s-31w-Gove

301 S Market ST
Wichita KS 67202

Ziegler Trust #4-31

Job Ticket: 46933

DST#: 1

ATTN: Steve Murphy

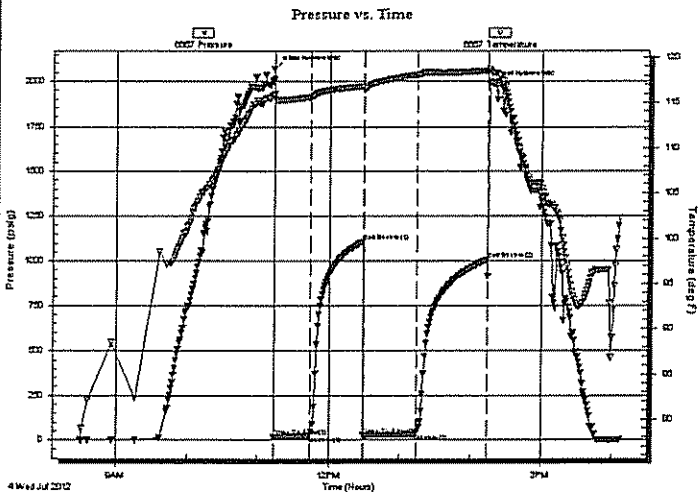
Test Start: 2012.07.04 @ 08:29:39

GENERAL INFORMATION:

Formation: LCK-"D"
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 11:13:39
 Time Test Ended: 16:06:54
 Interval: 4084.00 ft (KB) To 4114.00 ft (KB) (TVD)
 Total Depth: 4114.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Tate Lang
 Unit No: 55
 Reference Elevations: 2972.00 ft (KB)
 2963.00 ft (CF)
 KB to GR/CF: 9.00 ft
 Hole Condition: Fair

Serial #: 6667 Inside
 Press@RunDepth: 33.68 psig @ 4085.00 ft (KB)
 Start Date: 2012.07.04 End Date: 2012.07.04 Capacity: 8000.00 psig
 Start Time: 08:29:54 End Time: 16:06:54 Last Calib.: 2012.07.04
 Time On Btm: 2012.07.04 @ 11:13:09
 Time Off Btm: 2012.07.04 @ 14:15:24

TEST COMMENT: IF-Weak Surface blow Built to 1/4 in.
 IS-Dead No Blow Back
 FF-Weak Surface Blow Built 1/8 in.
 FS-Dead No Blow Back



PRESSURE SUMMARY

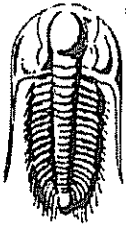
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2070.99	115.86	Initial Hydro-static
1	17.09	115.47	Open To Flow (1)
31	24.70	115.61	Shut-In(1)
76	1108.83	116.79	End Shut-In(1)
76	25.69	116.44	Open To Flow (2)
122	33.68	118.06	Shut-In(2)
181	1006.86	118.52	End Shut-In(2)
183	1983.55	118.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	98% M 2% O	0.42
5.00	65% M 35% O	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

31-12s-31w-Gove

301 S Market ST
Wichita KS 67202

Ziegler Trust #4-31

Job Ticket: 46933

DST#: 1

ATTN: Steve Murphy

Test Start: 2012.07.04 @ 08:29:39

GENERAL INFORMATION:

Formation: LCK-"D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:13:39

Time Test Ended: 16:06:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 55

Interval: 4084.00 ft (KB) To 4114.00 ft (KB) (TVD)

Total Depth: 4114.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2972.00 ft (KB)

2963.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6771

Outside

Press@RunDepth: psig @ 4085.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.04 End Date: 2012.07.04

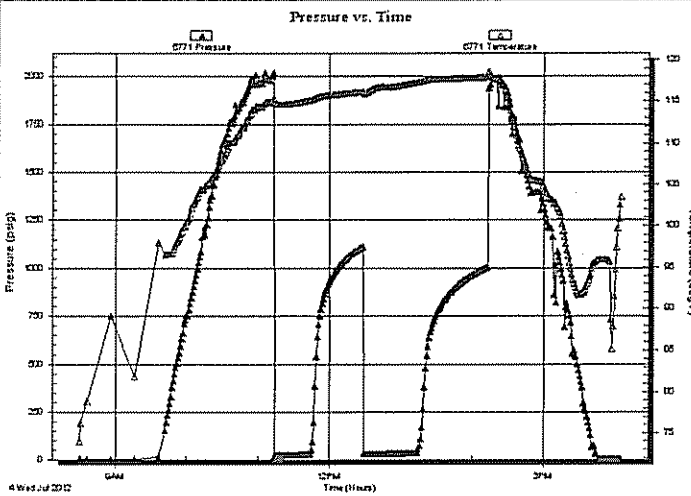
Last Calib.: 2012.07.04

Start Time: 08:29:27 End Time: 16:06:27

Time On Blmt

Time Off Blmt

TEST COMMENT: IF-Weak Surface blow Built to 1/4 in.
IS-Dead No Blow Back
FF-Weak Surface Blow Built 1/8 in.
FSI-Dead No Blow Back



PRESSURE SUMMARY

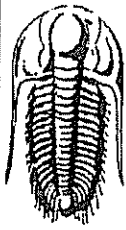
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
30.00	98% M 2% O	0.42
5.00	65% M 35% O	0.07

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

31-12s-31w-Gove

301 S Market ST
Wichita KS 67202

Ziegler Trust #4-31

Job Ticket: 46933

DST#: 1

ATTN: Steve Murphy

Test Start: 2012.07.04 @ 08:29:39

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	98% M2% O	0.421
5.00	65% M35%O	0.070

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

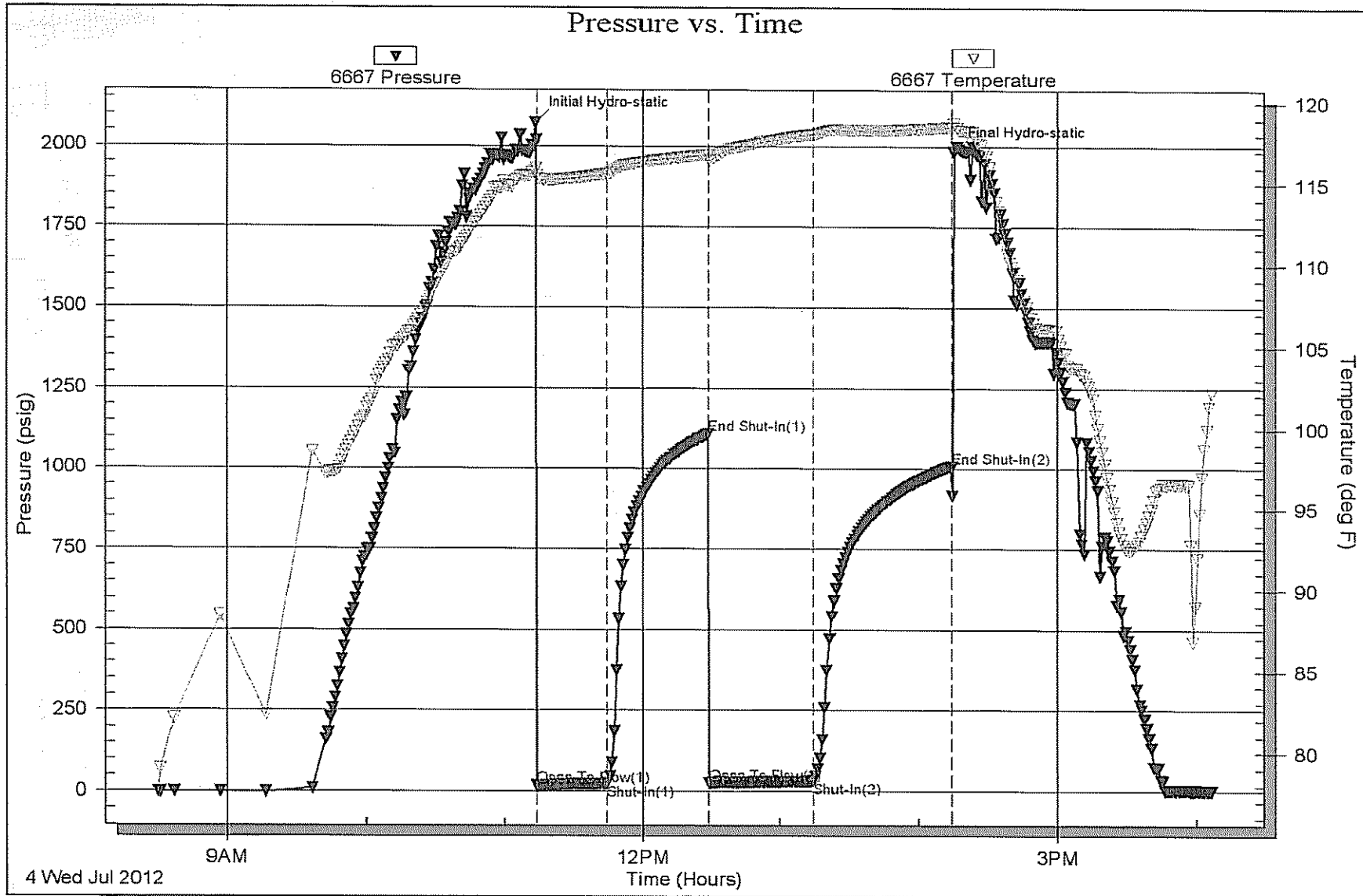
Num Gas Bombs: 0

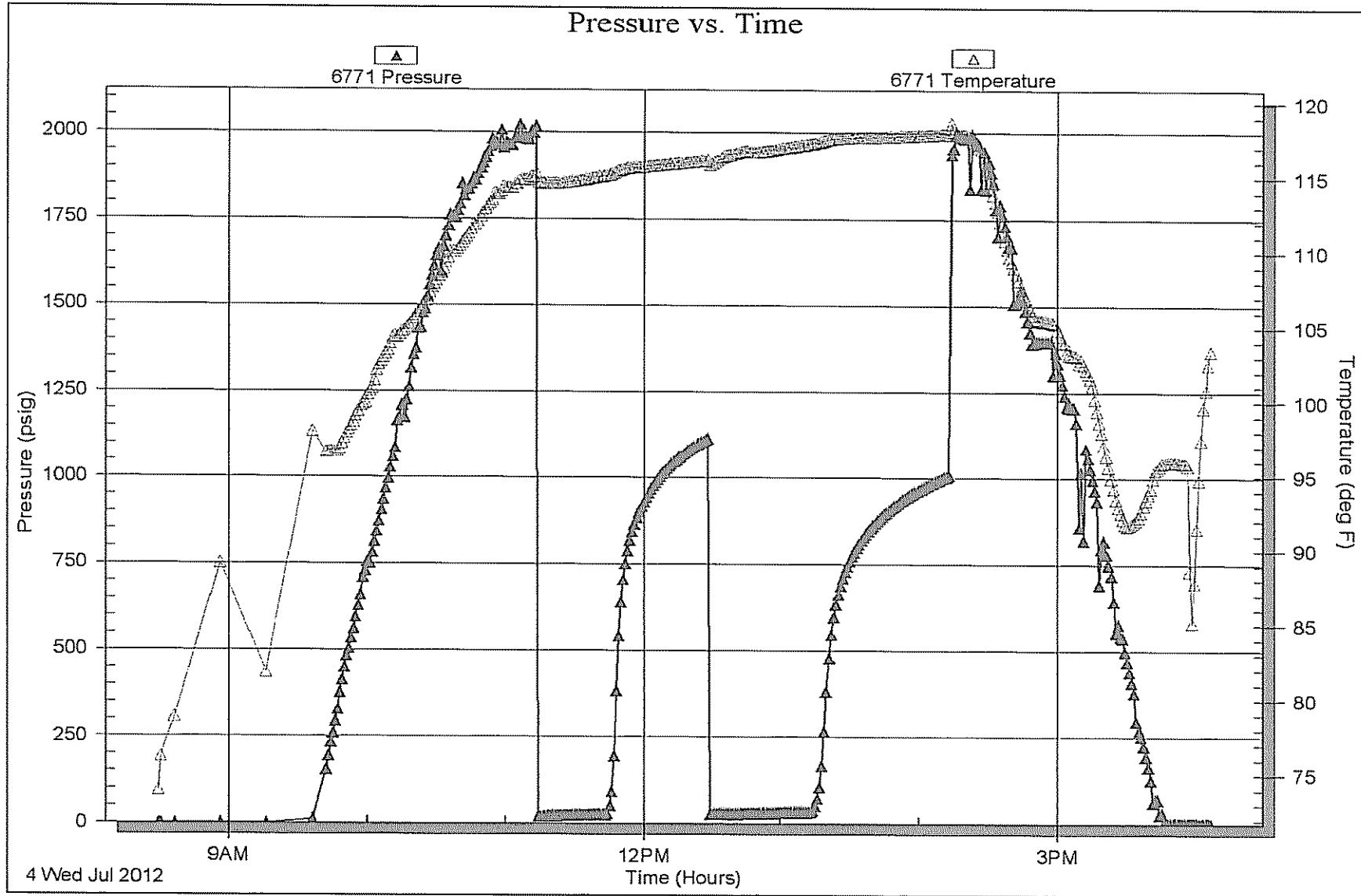
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

31-12s-31w-Gove

301 S Market ST
Wichita KS 67202

Ziegler Trust #4-31

Job Ticket: 46934

DST#: 2

ATTN: Steve Murphy

Test Start: 2012.07.06 @ 13:01:48

GENERAL INFORMATION:

Formation: Johnson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:30:03

Time Test Ended: 20:09:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 55

Interval: 4546.00 ft (KB) To 4590.00 ft (KB) (TVD)

Total Depth: 4590.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2972.00 ft (KB)

2963.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8368

Inside

Press@RunDepth: 36.70 psig @ 4553.00 ft (KB)

Start Date: 2012.07.06

End Date:

2012.07.06

Start Time: 13:02:03

End Time:

20:09:48

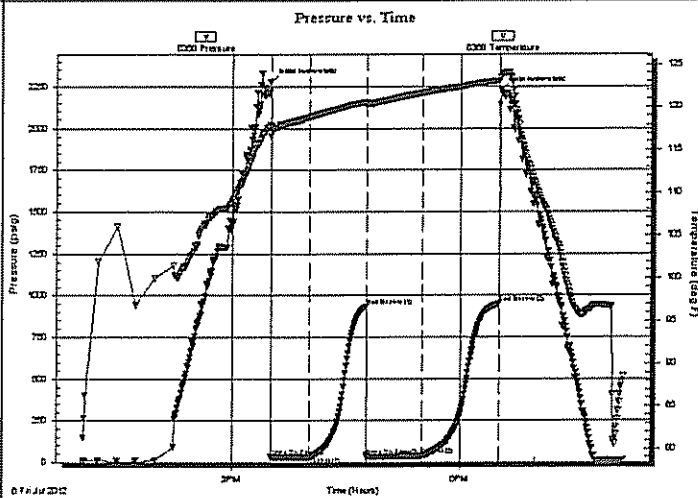
Capacity: 8000.00 psig

Last Calib.: 2012.07.06

Time On Blrm: 2012.07.06 @ 15:29:33

Time Off Blrm: 2012.07.06 @ 18:32:33

TEST COMMENT: IF-Weak Surface Blow Built To 1/2 in.
IS-Dead No Blow Back
FF-Weak Blow Built To 1 1/4 in.
FSI-Dead No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2276.49	117.86	Initial Hydro-static
1	30.65	116.64	Open To Flow (1)
31	31.56	118.78	Shut-In(1)
76	935.08	120.55	End Shut-In(1)
76	31.02	120.26	Open To Flow (2)
121	36.70	121.61	Shut-In(2)
182	949.40	123.05	End Shut-In(2)
183	2227.64	123.40	Final Hydro-static

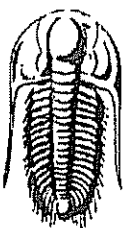
Recovery

Length (ft)	Description	Volume (bbl)
30.00	60%M 40%O	0.42

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Company

31-12s-31w-Gove

301 S Market ST
Wichita KS 67202

Ziegler Trust #4-31

Job Ticket: 46934 DST#: 2

ATTN: Steve Murphy

Test Start: 2012.07.06 @ 13:01:48

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: **No** Whipstock: ft (KB)

Time Tool Opened: 15:30:03

Time Test Ended: 20:09:48

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

Tester: **Tate Lang**

Unit No: **55**

Interval: **4546.00 ft (KB) To 4590.00 ft (KB) (TVD)**

Reference Elevations: **2972.00 ft (KB)**

Total Depth: **4590.00 ft (KB) (TVD)**

2963.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GRVCF: **9.00 ft**

Serial #: 6667

Press@RunDepth: psig @ ft (KB)

Capacity: **8000.00 psig**

Start Date: **2012.07.06**

End Date:

2012.07.06

Last Calib.:

2012.07.06

Start Time: **13:02:07**

End Time:

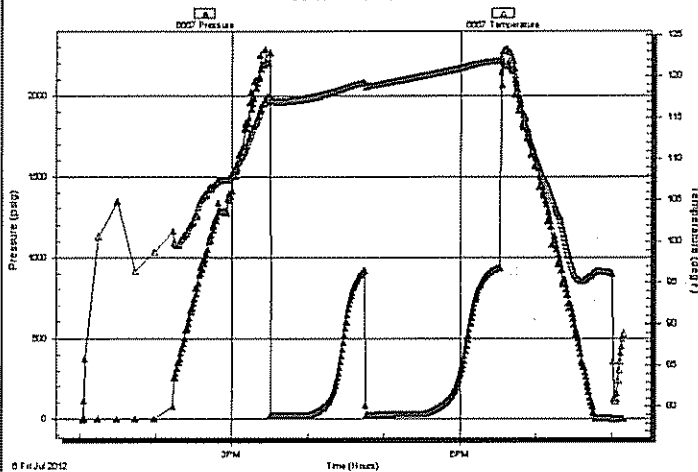
20:09:52

Time On Blmt

Time Off Blmt

TEST COMMENT: IF-Weak Surface Blow Built To 1/2 in.
ISI-Dead No Blow Back
FF-Weak Blow Built To 1 1/4 in.
FSI-Dead No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

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

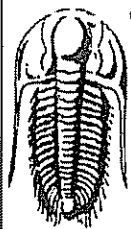
Recovery

Length (ft)	Description	Volume (bbl)
30.00	60%M 40%O	0.42

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

31-12s-31w-Gove

301 S Market ST
Wichita KS 67202

Ziegler Trust #4-31

Job Ticket: 46934

DST#: 2

ATTN: Steve Murphy

Test Start: 2012.07.06 @ 13:01:48

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	60%M 40%O	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

