

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1242466
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: _____

1242466



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: Yes 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 <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. <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	Knapp 10-31
Doc ID	1242466

Tops

Name	Top	Datum
Heebner	3918	-967
Lansing	3962	-1011
Stark Shale	4204	-1253
Hushpuckney	4243	-1292
Base KC	4290	1339
Marmaton	4331	-1380
Pawnee	4408	-1457
Ft. Scott	4440	-1489
Johnson	4537	-1586
Morrow	4562	-1611
Basal Penn	4578	-1627
Mississippian	4594	2951



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# 803390

Invoice Date: 02/13/15

Terms: C.O.D.

Page 1

LARIO OIL & GAS
 P.O. BOX 1093
 GARDEN CITY KS 637846
 USA
 3162655611

KNAPP 10-31

*Drilling after 15-011
 2-17-15 JK*

Part No	Description	Quantity	Unit Price	Discount(%)	Total
5401S	Cement Pump Truck - <u>Surface</u>	1.000	1,150.0000	20.000	920.00
5406	Mileage Charge	10.000	5.2500	20.000	42.00
5407	Min. Bulk Delivery Charge	1.000	430.0000	20.000	344.00
1104S	Class A Cement	200.000	18.5500	20.000	2,968.00
1102	Calcium Chloride (50#)	564.000	0.9400	20.000	424.13
1118B	Premium Gel / Bentonite	376.000	0.2700	20.000	81.22
1111	Sodium Chloride (Granulated Salt)	100.000	0.0000	0.000	0.00

Subtotal 5,974.18
 Discounted Amount 1,194.84
 SubTotal After Discount 4,779.34
 Amount Due 6,317.17 If paid after 02/13/15

Tax: 274.39
 Total: 5,053.74

JK

 FEB 20 2015
JK

SP

2131

PO 3173

9:30P



CONSOLIDATED
Oil Well Services, LLC

2012

INVOICE # 803390

TICKET NUMBER 47802

LOCATION Oakley KS

FOREMAN Jerry

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

FIELD TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-11-15	4793	Knapp 10-31	31	13S	31W	Gove
CUSTOMER			OAKLEY TO MAJOR			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			731	Jordan		
STATE			693	Lance R		
ZIP CODE						

Jarvis Oil & Gas
 JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 298 CASING SIZE & WEIGHT 9 5/8 24#
 CASING DEPTH 295 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 17 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Softly meeting a rig up on Southwind 70 break circulation with
maxtree mix 200 sks com class A cement 3% CC 2% gel wash up & displace
with 17 1/2 bbl fresh water & shut in found cement in cellar

Cement did
circulate

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150.00	1150.00
54067	10	MILEAGE	5.23	52.30
5407	9.4	ton mileage delivery min	430.00	430.00
11095	200 sks	com class A cement	1.85	370.00
1102	564#	CC	.94	530.16
11186	376#	gel	.27	101.52
1111	100#	salt	NC	NC
			Subtotal	5974.18
			-20%	1194.84
			Subtotal	4779.34
			SALES TAX	274.39
			ESTIMATED TOTAL	5053.74

AUTHORIZATION Sam D. Frazier TITLE ENR 105424 DATE _____

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

TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.



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# 803469

Invoice Date: 02/23/15 Terms: C.O.D. Page 1

LARIO OIL & GAS
 P.O. BOX 1093
 GARDEN CITY KS 637846
 USA
 3162655611

Knapp 10-31
 Drilling of 15-011
 2-26-15 LK

KANPP 10-31

Part No	Description	Quantity	Unit Price	Discount(%)	Total
5401C	Single Pump	1.000	3,175.0000	20.000	2,540.00
5406	Mileage Charge	10.000	5.2500	20.000	42.00
5407	Min. Bulk Delivery Charge	1.000	445.5500	20.000	356.44
1126	Oil Well Cement	130.000	23.7000	20.000	2,464.80
1110A	Kol Seal (50# BAG)	650.000	0.5600	20.000	291.20
1131	60/40 Poz Mix	450.000	15.8600	20.000	5,709.60
1118B	Premium Gel / Bentonite	3,096.000	0.2700	20.000	668.74
1107	Flo-Seal	113.000	2.9700	20.000	268.49
1144G-0130	Mud Flush - Oakley	500.000	1.0000	20.000	400.00
4104	Cement Basket 5 1/2	1.000	290.0000	20.000	232.00
4130	16	16.000	61.0000	20.000	780.80
4159	Float Shoe AFU 5 1/2	1.000	433.7500	20.000	347.00
4277A	DV Tool Weatherford 5 1/2	1.000	4,900.0000	20.000	3,920.00
4454	5 1/2 Latch Down Plug	1.000	567.0000	20.000	453.60
1111	Sodium Chloride (Granulated Salt)	200.000	0.0000	0.000	0.00

Subtotal 23,093.33
 Discounted Amount 4,618.67
 SubTotal After Discount 18,474.66

Handwritten signature
 MAR - 2 2015
Handwritten initials

Amount Due 24,627.53 If paid after 02/23/15

Tax: 1,227.36
 Total: 19,702.03

SA

2244

PO 3315, 16, 17

6PM



CONSOLIDATED
Oil Well Services, LLC

2158
INVOICE #803469

TICKET NUMBER 47808
LOCATION Oakley Ks
FOREMAN Jerry Y
Miles

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

FIELD TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
222-15	4793	Knapp 10-31	31	13	31	Gove
CUSTOMER			Oakley 5 to 10 to 10 1/2 to 10 1/2 to 5/8" size			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			445	Loren C		
STATE			479	Jerry H		
ZIP CODE			456-7121	Rob S		

JOB TYPE 2 Stage HOLE SIZE 7 7/8 HOLE DEPTH 4698 CASING SIZE & WEIGHT 5 1/2 14#
 CASING DEPTH 4685 DRILL PIPE _____ TUBING _____ OTHER DV @ 2474
 SLURRY WEIGHT 142/12.5 SLURRY VOL 1.42 / 1.81 WATER gal/sk _____ CEMENT LEFT in CASING 21'
 DISPLACEMENT 113 / 60 3/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Salty, meeky & dry upon South wind 70 run flat equip. centralizers on 1, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60. DV Tool on top 54 @ 2474 run casing to bottom circulate 1 1/2 hrs pump 566l H₂O, mud flush, 566l spacer mix 130 sks OWC 4 1/2" Kol seal, clean pumps & lines & release plug & displacer with 114 bbl (50 bbl 64 mud) final lift 800# plug landed @ 1300# released back flat held hook to mud tree & circulate after opening tool. 3 hrs pump 566l H₂O ahead mix 30 sks Rh & 4200 sks 60/40 pozmix 8% gel 1 1/2" Plow seal down center shot chn, release plug with pump & lines & displacer with 161 bbl H₂O final lift 700# plug landed & tool closed @ 1500# released back & shot held circulate approx 50 sks to pit 30 sks Rh Cement did circulate

Thank you Jerry & 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
5407	25.46	for mileage delivery	1 ⁵⁵	445 ⁵⁵
1126	130 sks	OWC	23 ⁷⁰	3081 ⁰⁰
110A	650 #	Kol seal	5 ¹⁵	3325 ⁰⁰
1131	450 sks	60/40 pozmix	15 ⁸⁰	7137 ⁰⁰
1186	3096 #	gel	27	8359 ²
1107	113 #	Plow seal	2 ⁹²	335 ⁶¹
1194	500 gal	mud flush	1 ⁰⁰	500 ⁰⁰
4104	1	5 1/2 basket	290 ⁰⁰	290 ⁰⁰
4130	16	5 1/2 centralizers	61 ⁰⁰	976 ⁰⁰
4159	1	5 1/2 AFU shot shoe	433 ²⁵	433 ²⁵
4277A	1	5 1/2 DV tool	4900 ⁰⁰	4900 ⁰⁰
4454	1	5 1/2 latch chn assy	567 ⁰⁰	567 ⁰⁰
111	200 #	salt	nc	nc
		Sub total		23093 ³³
		-20% disc		4618.16
		Sub total		18474.16
		SALES TAX		127.36

Ravin 3737
 AUTHORIZATION Jerry Y TITLE _____ DATE _____
 ESTIMATED TOTAL **19,702.03**

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

Friday, January 02, 2015
10:25 AM

cement bid for: LARIO OIL&GAS

Type of job PRODUCTION 5 1/2-4750',1,150' FILL, DV@2350'
Lease- KNAPP #10-31
County-GOVE
State- KS
Legals-SEC 31-13S-31W

BOTTOM STAGE: 180 SKS OWC,5# KOLSEAL,500 GAL MUD FLUSH
YIELD 1.42@13.8
TOP STAGE: 450 SKS 60/40POZ,8%GEL,1/4# FLO SEAL
YIELD 1.89@12.5

Pump truck- 3,175.00
10 miles- 52.50
TOTAL=3,,227.50

180 SKS OWC-4,266.00
450 SKS 60/40POZ-7,137.00
3,096# GEL - 835.92
900# KOLSEAL-504.00
113# FLOSEAL-335.61
500 GAL MUD
FLUSH -500.00
27.81 TON MILES-486.70
TOTAL= 14,065.23

FLOAT EQUIPMENT 5 1/2
1-AFU FLOAT SHOE- 433.75
1-LATCH DOWN ASSY-567.00
16-CENTRALIZERS- 976.00
1-BASKET - 290.00
1-DV TOOL - 4,900.00
TOTAL= 7,166.75

PUMPTRUCK- 3,227.50
MATERIAL- 14,065.23
FLOAT EQUIPMENT-7,166.75
SUB TOTAL=24,459.48
LESS 20% - 4,891.90
TOTAL= 19,567.58

TAX INCLUDED AT INVOICING

BID BY: WALT DINKEL

TERMS

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Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout, (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

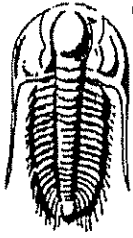
(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS, or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil and Gas
301 S. Market St
Wichita KS 67202
ATTN: Bob Bayer

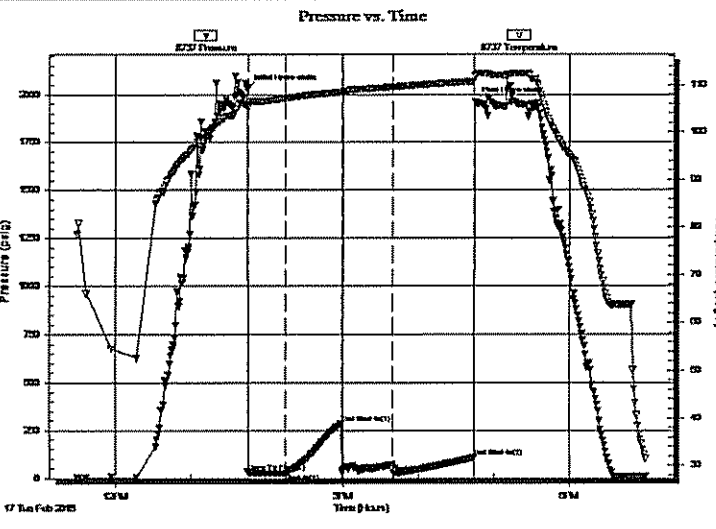
31-13s-31w Gove Co KS
Knapp 10-31
Job Ticket: 58574 DST#: 1
Test Start: 2015.02.17 @ 11:30:00

GENERAL INFORMATION:

Formation: H
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:58:30
Time Test Ended: 21:14:15
Interval: 4120.00 ft (KB) To 4150.00 ft (KB) (TVD)
Total Depth: 4150.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Roberts
Unit No: 65
Reference Elevations: 2951.00 ft (KB)
2939.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8737 Outside
Press@RunDepth: 73.31 psig @ 4145.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.02.17 End Date: 2015.02.17 Last Calib.: 2015.02.17
Start Time: 11:30:00 End Time: 19:01:00 Time On Btm: 2015.02.17 @ 13:44:45
Time Off Btm: 2015.02.17 @ 16:44:30

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



PRESSURE SUMMARY

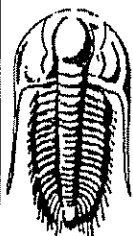
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2028.82	105.70	Initial Hydro-static
1	28.55	105.83	Open To Flow (1)
31	26.14	107.14	Shut-In(1)
75	285.84	108.44	End Shut-In(1)
75	35.01	108.42	Open To Flow (2)
115	73.31	109.47	Shut-In(2)
180	107.73	110.74	End Shut-In(2)
180	1963.41	111.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 4%o 96%m	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas

31-13s-31w Gove Co KS

301 S. Market St
Wichita KS 67202

Knapp 10-31

Job Ticket: 58574

DST#: 1

ATTN: Bob Bayer

Test Start: 2015.02.17 @ 11:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 4%o 96%m	0.421

Total Length: 30.00 ft

Total Volume: 0.421 bbl

Num Fluid Samples: 0

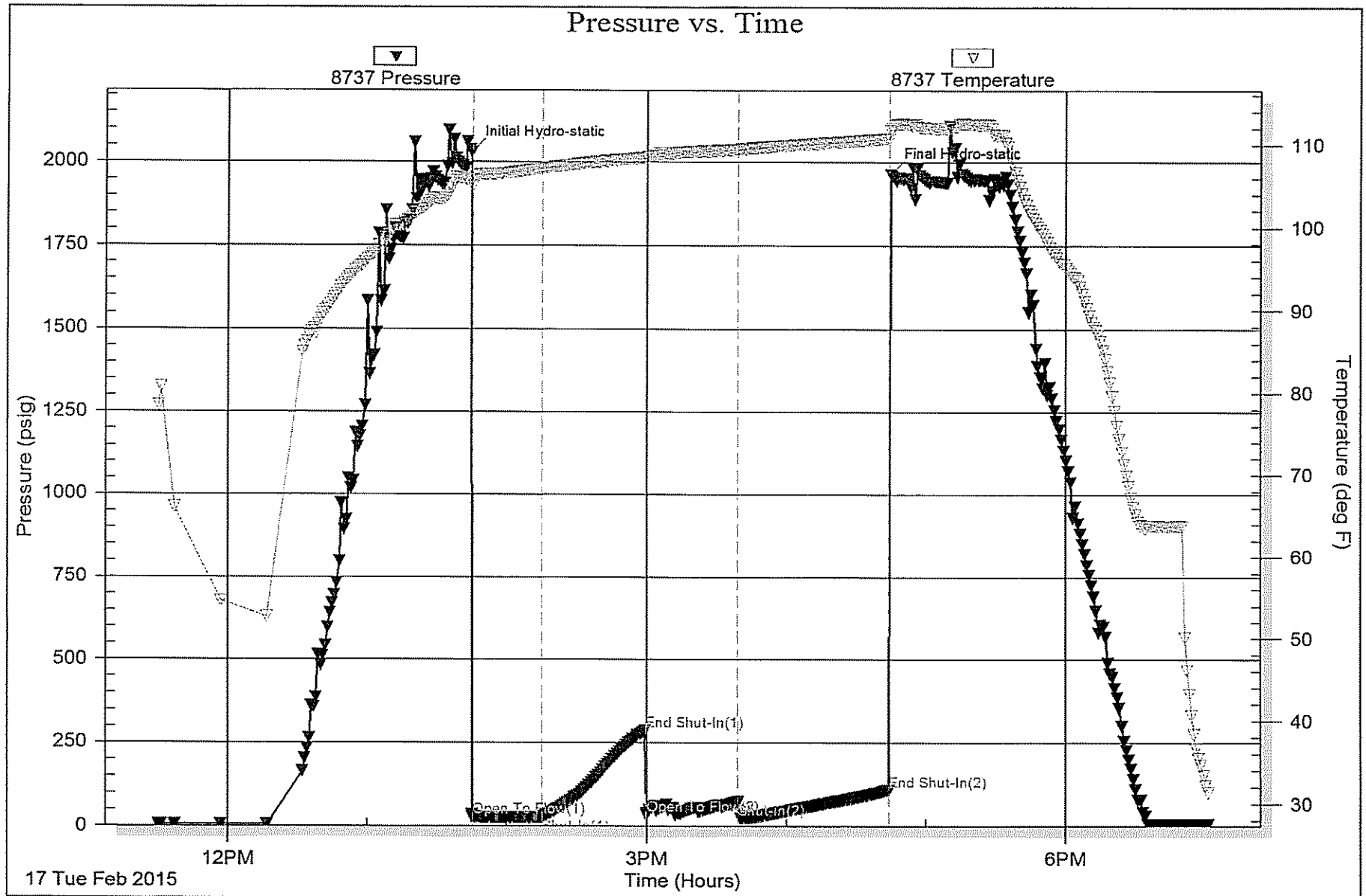
Num Gas Bombs: 0

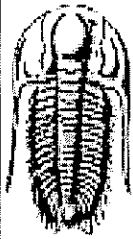
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil and Gas

31-13s-31w Gove, KS

301 S. Market St
Wichita KS 67202

Knapp #10-31

Job Ticket: 58575

DST#: 2

ATTN: Bob Bayer

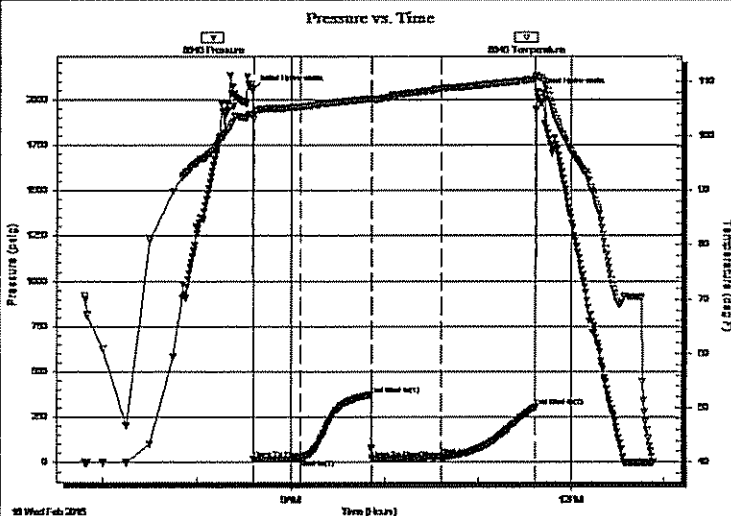
Test Start: 2015.02.18 @ 06:48:15

GENERAL INFORMATION:

Formation: J
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:36:15
 Time Test Ended: 12:53:15
 Interval: 4180.00 ft (KB) To 4210.00 ft (KB) (TVD)
 Total Depth: 4210.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 2951.00 ft (KB)
 2939.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8846 Inside
 Press@RunDepth: 35.14 psig @ 4205.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.02.18 End Date: 2015.02.18 Last Calib.: 2015.02.18
 Start Time: 06:48:15 End Time: 12:53:15 Time On Btm: 2015.02.18 @ 08:36:00
 Time Off Btm: 2015.02.18 @ 11:37:45

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.70	104.07	Initial Hydro-static
1	20.13	103.07	Open To Flow (1)
30	20.15	105.40	Shut-In(1)
75	373.20	106.88	End Shut-In(1)
76	21.68	106.76	Open To Flow (2)
120	35.14	108.70	Shut-In(2)
181	304.83	110.42	End Shut-In(2)
182	2039.79	111.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud with oil spots	0.28

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas

31-13s-31w Gove,KS

301 S. Market St
Wichita KS 67202

Knapp #10-31

Job Ticket: 58575

DST#: 2

ATTN: Bob Bayer

Test Start: 2015.02.18 @ 06:48:15

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.19 in ²	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	mud with oil spots	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

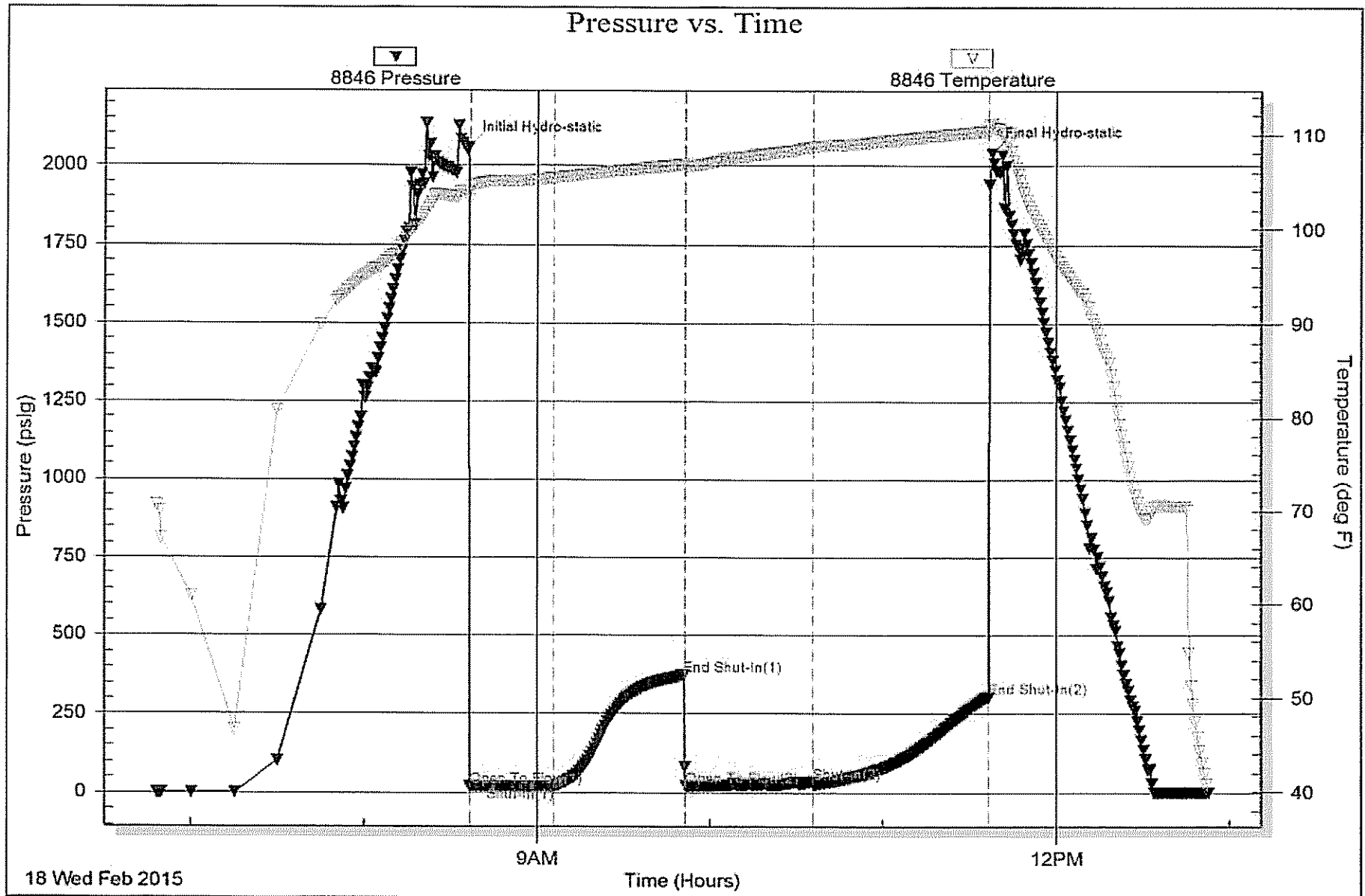
Num Gas Bombs: 0

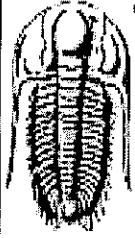
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil and Gas

31-13s-31w Gove Co KS

301 S. Market St
Wichita KS 67202

Knapp 10-31

Job Ticket: 61401

DST#: 3

ATTN: Bob Bayer

Test Start: 2015.02.18 @ 00:05:15

GENERAL INFORMATION:

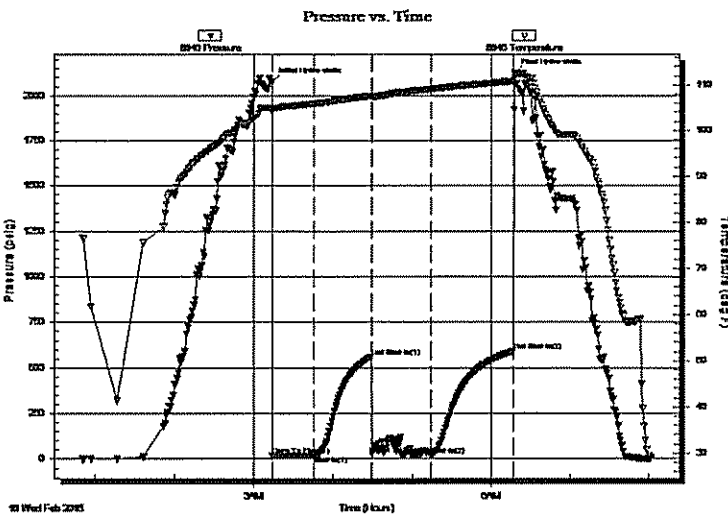
Formation: L
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:29:15
 Time Test Ended: 07:18:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 65
 Interval: 4245.00 ft (KB) To 4280.00 ft (KB) (TVD)
 Reference Elevations: 2951.00 ft (KB)
 Total Depth: 4280.00 ft (KB) (TVD)
 2939.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 12.00 ft

Serial #: 8846

Inside

Press@RunDepth: 19.65 psig @ 4275.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2015.02.18 End Date: 2015.02.18 Last Calib.: 2015.02.19
 Start Time: 00:50:00 End Time: 08:02:45 Time On Btm: 2015.02.18 @ 03:13:45
 Time Off Btm: 2015.02.18 @ 06:17:30

TEST COMMENT: IF: Built to 1/4" blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.22	104.98	Initial Hydro-static
1	16.92	104.07	Open To Flow (1)
32	18.35	105.92	Shut-In(1)
76	561.03	107.60	End Shut-In(1)
76	23.31	107.46	Open To Flow (2)
120	19.65	109.10	Shut-In(2)
183	591.24	110.84	End Shut-In(2)
184	2125.59	112.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100% m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas
301 S. Market St
Wichita KS 67202
ATTN: Bob Bayer

31-13s-31w Gove Co KS
Knapp 10-31
Job Ticket: 61401 DST#: 3
Test Start: 2015.02.18 @ 00:05:15

Mud and Cushion Information

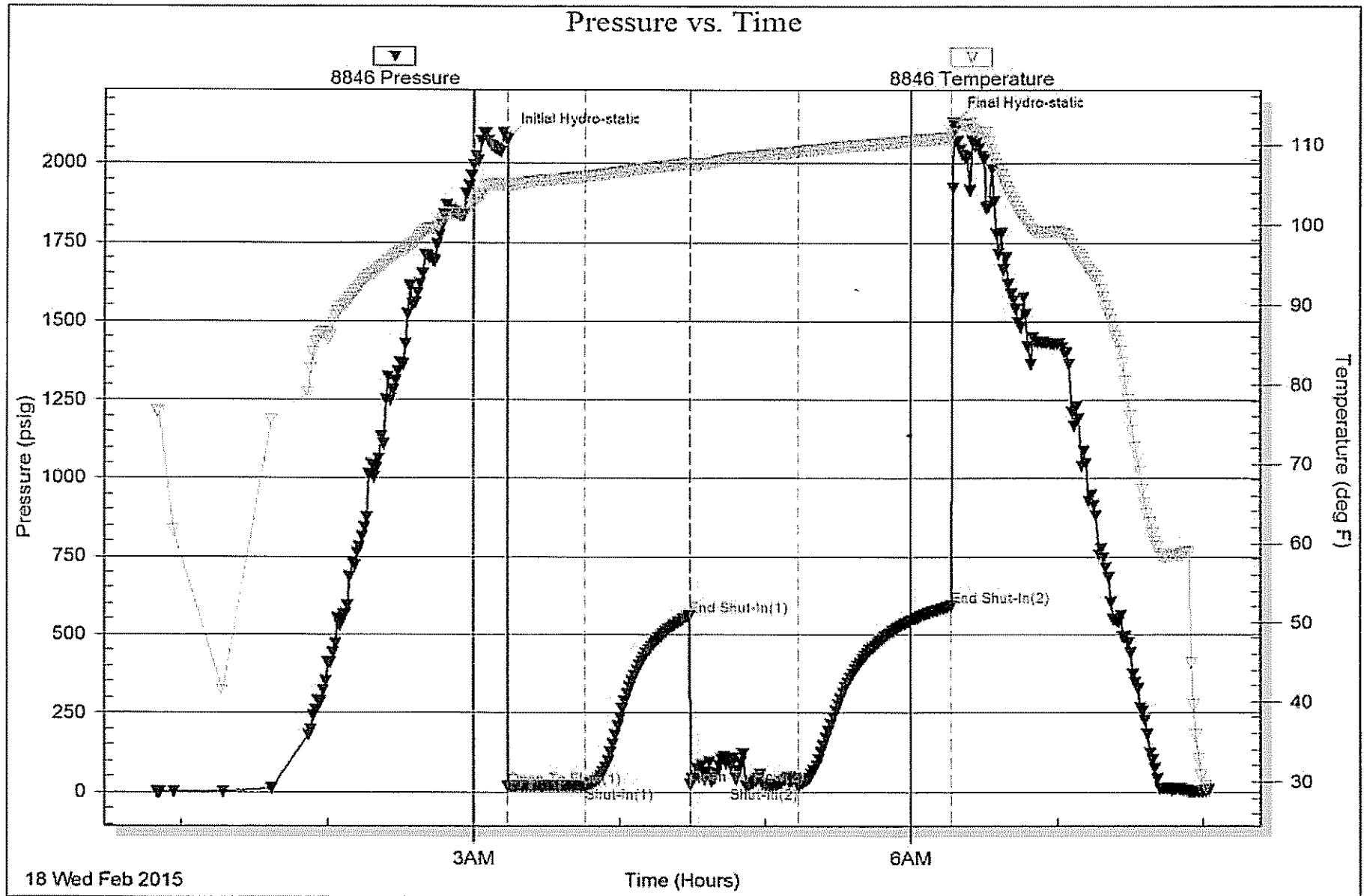
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

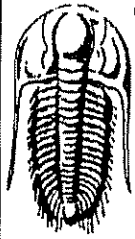
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	m 100% m	0.070

Total Length: 5.00 ft Total Volume: 0.070 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 and Gas

31-13s-31w Gove Co KS

301 S. Market St
Wichita KS 67202

Knapp 10-31

Job Ticket: 61402

DST#: 4

ATTN: Bob Bayer

Test Start: 2015.02.20 @ 14:22:15

GENERAL INFORMATION:

Formation: **Cherokee LS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:15:15

Time Test Ended: 21:04:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: **4498.00 ft (KB) To 4560.00 ft (KB) (TVD)**

Total Depth: 4560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2951.00 ft (KB)

2939.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8846

Inside

Press@RunDepth: 45.62 psig @ 4501.00 ft (KB)

Start Date: 2015.02.20

End Date: 2015.02.20

Start Time: 14:22:15

End Time: 21:04:45

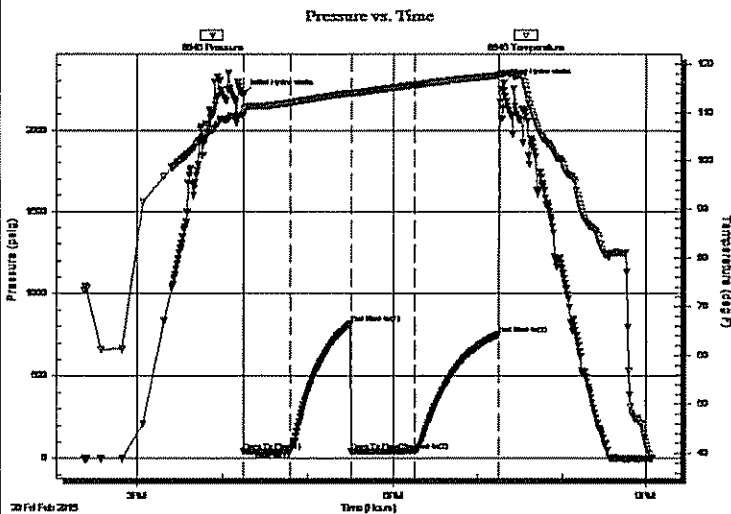
Capacity: 8000.00 psig

Last Calib.: 2015.02.20

Time On Btm: 2015.02.20 @ 16:14:45

Time Off Btm: 2015.02.20 @ 19:18:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.30	109.60	Initial Hydro-static
1	43.28	109.89	Open To Flow (1)
33	43.41	112.03	Shut-In(1)
76	818.02	114.13	End Shut-In(1)
76	44.73	113.92	Open To Flow (2)
121	45.62	115.73	Shut-In(2)
180	752.90	117.68	End Shut-In(2)
184	2287.12	118.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	m 100% mud	0.28

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (MMcfd)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil and Gas

31-13s-31w Gove Co KS

301 S. Market St
Wichita KS 67202

Knapp 10-31

Job Ticket: 61402

DST#: 4

ATTN: Bob Bayer

Test Start: 2015.02.20 @ 14:22:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	m 100% mud	0.281

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:

