

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1173776

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

Spot Description: _____

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

_____-_____-_____- Feet from ☐ North / ☐ South Line of Section

_____-_____-_____- Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

☐ Confidentiality Requested

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

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

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

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

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

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

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

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

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
TUBING RECORD: Size: Set At: Packer At:			Liner Run: ☐ Yes ☐ No		
Date of First, Resumed Production, SWD or ENHR.		Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> ☐ Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Ottley 4-4
Doc ID	1173776

Tops

Name	Top	Datum
Heebner	3967	-1021
Lansing	4008	-1062
Stark Shale	4244	-1298
Hushpuckney	4276	-1330
Base KC	4320	-1374
Marmaon	4376	-1430
Pawnee	4455	-1509
Ft. Scot	4482	-1536
Johnson	4585	-1639
Basal Penn	4634	-1688
Mississippian	4710	-1764

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Ottley 4-4
Doc ID	1173776

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
surface	12.25	8.625	23	259	Common	165	3% cc, 2% gel



PO Box 93999
Southlake, TX 76092

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

INVOICE

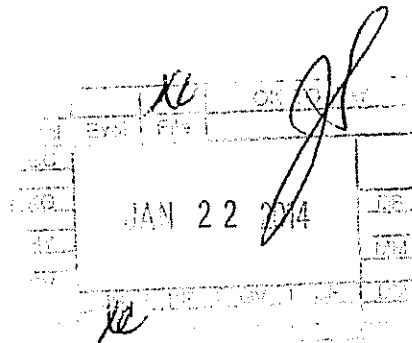
Invoice Number: 140745
Invoice Date: Jan 10, 2014
Page: 1

Bill To:

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

Customer ID	Field Ticket #	Payment Terms	
Lario	61438	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jan 10, 2014	2/9/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Offley #4-4		
123.00	CEMENT MATERIALS	Class A Common	17.90	2,201.70
82.00	CEMENT MATERIALS	Pozmix	9.35	766.70
7.00	CEMENT MATERIALS	Gel	23.40	163.80
51.00	CEMENT MATERIALS	Flo Seal	2.97	151.47
220.17	CEMENT SERVICE	Cubic Feet Charge	2.48	546.02
183.80	CEMENT SERVICE	Ton Mileage Charge	2.60	477.88
1.00	CEMENT SERVICE	Plug to Abandon	2,483.59	2,483.59
20.00	CEMENT SERVICE	Pump Truck Mileage	7.70	154.00
20.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	88.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	107.64	107.64
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Adam Flipse		



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

\$ 2,017.06

ONLY IF PAID ON OR BEFORE
Feb 4, 2014

Subtotal	7,140.80
Sales Tax	564.12
Total Invoice Amount	7,704.92
Payment/Credit Applied	
TOTAL	7,704.92

ALLIED OIL & GAS SERVICES, LLC 061438

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE <u>1-10-14</u>	SEC. <u>4</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>12:00 a.m.</u>	JOB START <u>4:30 a.m.</u>	JOB FINISH <u>5:30 a.m.</u>
LEASE <u>Oakley</u>	WELL # <u>4-4</u>	LOCATION <u>Oakley 12 S 4 E 1/4 S</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				E into			

CONTRACTOR W.W. 12
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH 2460'
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT plug 31.36 bbl mud 2 1/2 plug 7.41 bbl water
 EQUIPMENT

PUMP TRUCK CEMENTER Paul Bower
 # 120 HELPER Tyler Flipsc
 BULK TRUCK
 # 600 DRIVER Adam Flipsc
 BULK TRUCK
 # DRIVER

REMARKS:
mix 25 sks @ 2460'
Displace w/ mud
mix 100 sks @ 1520'
Displace w/ water
mix 40 sks @ 310'
mix 10 sks @ 40' w/ wooden plug
mix 30 sks in R.H.
Thank You
Paul, Tyler + Crew

CHARGE TO: Lario Oil + Gas
 STREET
 CITY STATE ZIP

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

PRINTED NAME Calvin Pharrastal
 SIGNATURE [Signature]

OWNER Same
 CEMENT
 AMOUNT ORDERED 205 sks 60/40
4% gel 1/4 Flo-seal
 COMMON 123 sks @ 17.20 2201.70
 POZMIX 82 sks @ 9.35 766.70
 GEL 7 sks @ 23.40 163.80
 CHLORIDE
 ASC
 Flo-seal 51 # @ 2.97 151.47
 HANDLING 220.17 ft³ @ 2.48 546.02
 MILEAGE 9.19 tons x 20 mi @ 2.60 477.88

SERVICE

DEPTH OF JOB 2460'
 PUMP TRUCK CHARGE 2483.59
 EXTRA FOOTAGE @
 MILEAGE MILV 20mi @ 7.70 154.00
 MANIFOLD @
MILV 20mi @ 4.40 88.00

TOTAL 2725.59

PLUG & FLOAT EQUIPMENT

8 5/8 wooden plug @ 107.64
 @
 @
 @
 @

TOTAL 107.64

SALES TAX (If Any)
 TOTAL CHARGES 7.203.80
 DISCOUNT 2.017.06 IF PAID IN 30 DAYS
5,294.37 Net.



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 140430
Invoice Date: Dec 19, 2013
Page: 1

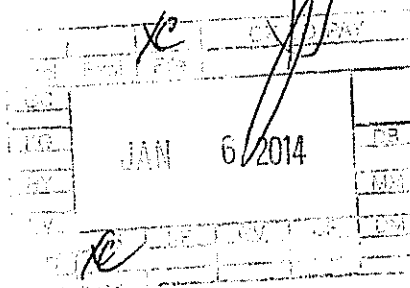
Bill To:

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

AFE 13-381
drilling Surface
1-3-13 LK

Customer ID	Field Ticket #	Payment Terms	
Lario	62192	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Dec 19, 2013	1/18/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Ottley #4-4		
175.00	CEMENT MATERIALS	Class A Common	17.90	3,132.50
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
183.75	CEMENT SERVICE	Cubic Feet Charge	2.48	455.70
338.88	CEMENT SERVICE	Ton Mileage Charge	2.60	881.09
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	OPERATOR ASSISTANT	Kevin Ryan		



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

\$ 1,994.87

ONLY IF PAID ON OR BEFORE
Jan 13, 2014

Subtotal	7,124.54
Sales Tax	277.80
Total Invoice Amount	7,402.34
Payment/Credit Applied	
TOTAL	7,402.34

ALLIED OIL & GAS SERVICES, LLC 062192

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
On K1

DATE <u>12/19/13</u>	SEC. <u>4</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00 PM</u>	JOB FINISH <u>1:30 PM</u>
LEASE <u>Offshore</u>	WELL # <u>4-4</u>	LOCATION <u>On K1 5 TO Goshel</u>			COUNTY <u>Garza</u>	STATE <u>K1</u>	
OLD OR NEW (Circle one)							

CONTRACTOR W112

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 259

CASING SIZE 8 1/2 DEPTH 259

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 15-54

EQUIPMENT

PUMP TRUCK CEMENTER Allen PYRON

412 HELPER Kevin PYRON

BULK TRUCK

341 DRIVER Edi (TMS)

BULK TRUCK

DRIVER

REMARKS:

Runway, Circulate, mix cement, Air flow cement

Shut in

Cement Bid Circulate

Thru K1
Allen, Kevin, Edi

CHARGE TO: Garza 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 [Signature]

OWNER

CEMENT
AMOUNT ORDERED 16560 m 37000 29000

COMMON 105 @ 17.90 3132.00

POZMIX @ 2.00 20.00

GEL 8 @ 2.00 16.00

CHLORIDE 6 @ 2.00 12.00

ASC @

HANDLING 103.95 @ 2.45 2547.28

MILEAGE 25 @ 8.40 210.00

TOTAL 4853.28

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE 40 @ 5.20 208.00

MANIFOLD @ 4.40 176.00

67000 40 @ 4.40 176.00

TOTAL 2271.25

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES 7,124.54

DISCOUNT 1,994.87 IF PAID IN 30 DAYS

Bd 5,129.66 Net

BID SHEET



Date	12/19/13
Service Point:	Oakley
Manager	Terry Heinrich
Address	P.O. Box 27
	Oakley, KS 67748
Business Phone	785-672-3452
E-mail	terry.heinrich@allied.com
Mobile	785-673-9376

Company	Lario Oil & Gas Company	Prepared For:	Jay Schweikert	Well Data			
Address	301 S. Market	Title:	Oper. Eng.	Open Hole	12 1/4	Depth	240
Address	Wichita Kansas, 67202	Business Phone:	316-265-5611			I.D.	12.25
Well Name	Ottley	E-mail:	jrschweikert@lariooil.com			Job Excess	100
Lease	# A 4-4	Mobile Phone:		Casing Size	8 5/8	Depth	240
Field		Prepared By:	Neal Rupp			O.D.	8.6875
County	Gove	Title:	Sales & Field Ops. Manager			I.D.	7.825
State	Kansas	Business Phone:	316-260-3368			Casing Weight	24
Section	4	E-mail:	neal.rupp@alliedservices.com			Thread	STC
Township	13S	Mobile Phone:	316-250-7057			Grade	J-55
Range	31W	Rig Contractor					
API Number		Rig Name					
Proposal Title:	Surface Casing	Rig Phone					

	Units	UOM	Cost per Unit	Total	Unit Net	Net
CJMN - Casing Pump Charge 0 to 300'	1.00	(for 6 hours)	\$1,512.25	\$ 1,512.25	\$ 1,088.82	\$1,088.82
CMHD - Cementing Head Rental with Manifold	1.00	per day	\$275.00	\$ 275.00	\$ 198.00	\$198.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 1,787.25		\$1,787.25
Wooden Plug	1.00	Each	\$67.50	\$ 67.50	\$ 67.50	\$67.50
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 67.50		\$67.50
CAC - CLASS A COMMON	175.00	per sack	\$17.90	\$ 3,132.50	\$ 12.89	\$2,255.40
CACL - Calcium Chloride	6.00	per sack	\$64.00	\$ 384.00	\$ 46.08	\$276.48
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ 3,516.50		\$2,531.88
HDLG - Products handling service charge	183.50	per cu. Ft.	\$2.48	\$ 455.08	\$ 1.79	\$327.65
DRYG - Drayage for products	338.60	ton mile	\$2.60	\$ 880.36	\$ 1.87	\$633.86
MILV - Light Vehicle Mileage	40.00	per mile	\$4.40	\$ 176.00	\$ 3.17	\$126.72
MiHV - Heavy Vehicle Mileage	40.00	per mile	\$7.70	\$ 308.00	\$ 5.54	\$221.76
Subtotal				\$ 1,819.44		\$1,310.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
	0.00	0.00	\$0.00	\$ -	\$ -	\$0.00
Subtotal				\$ -		\$0.00
Totals:				\$ 7,190.69		\$5,196.20
DISCOUNT: Operations			28.0%	(500.43)		
DISCOUNT: Equipment Sales			0.0%	0.00		
DISCOUNT: Products			28.0%	(984.62)		
DISCOUNT: Transport			28.0%	(509.44)		
DISCOUNT: OTHER			28.0%	0.00		
			Total	(1,994.49)		



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

301 S. Market St.
Wichita, KS 67202

ATTN: Steve Davis

4-13s-31w-Gove, KS

Ottley #4-4

Job Ticket: 54561

DST#: 1

Test Start: 2014.01.07 @ 20:14:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 23:10:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornello Landa III

Unit No: 60

Interval: 4568.00 ft (KB) To 4506.00 ft (KB) (TVD)

Total Depth: 4506.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2946.00 ft (KB)

2938.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 4570.00 ft (KB)

Start Date: 2014.01.07

End Date:

2014.01.07

Capacity: 8000.00 psig

Last Calib.: 2014.01.07

Start Time: 20:14:05

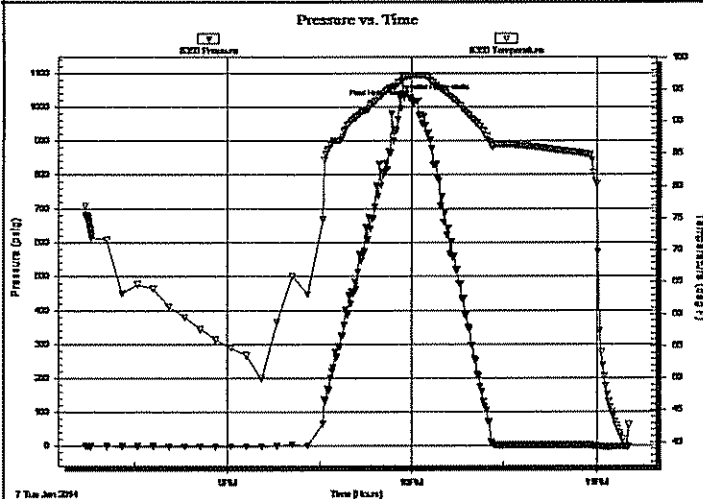
End Time:

23:10:30

Time On Btm: 2014.01.07 @ 21:57:30

Time Off Btm: 2014.01.07 @ 22:00:30

TEST COMMENT: HIT A BRIDGE!!!!



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1026.54	96.74	Initial Hydro-static
3	1008.13	97.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

4-13s-31w-Gove, KS

301 S. Market St.
Wichita, KS 67202

Ottley #4-4

Job Ticket: 54561

DST#: 1

ATTN: Steve Davis

Test Start: 2014.01.07 @ 20:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.20 in³

Resistivity: 0.00 ohm.m

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

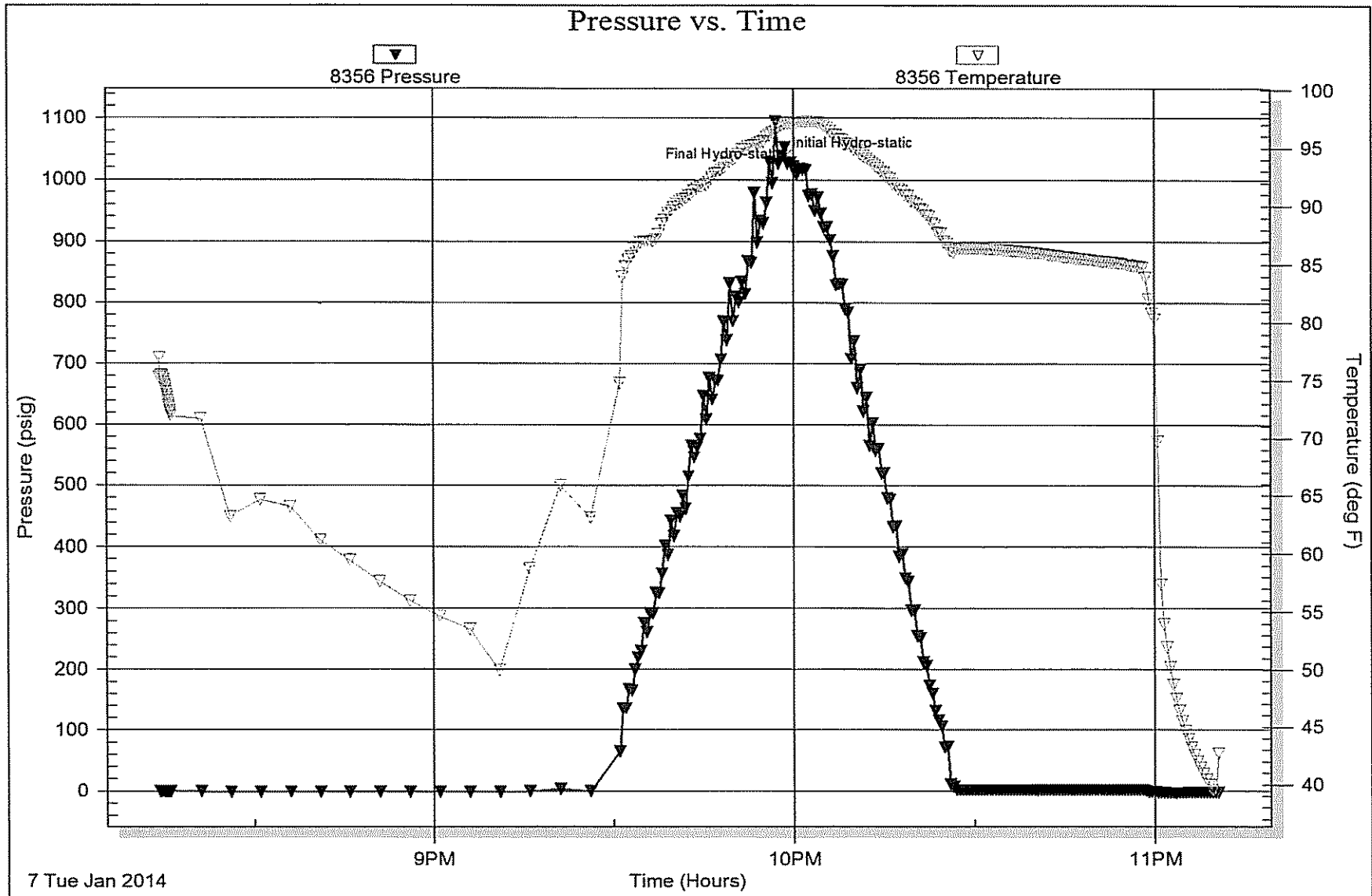
Recovery Comments:

Serial #: 8356

Outside Lario Oil & Gas Co.

Ottley #4-4

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

301 S. Market St.
Wichita, KS 67202

ATTN: Steve Davis

4-13s-31w-Gove Co., KS

Ottley #4-4

Job Ticket: 54562

DST#: 2

Test Start: 2014.01.08 @ 05:35:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:15:00

Time Test Ended: 13:28:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 60

Interval: 4568.00 ft (KB) To 4605.00 ft (KB) (TVD)

Total Depth: 4605.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2946.00 ft (KB)

2938.00 ft (CF)

KB to GRVCF: 8.00 ft

Serial #: 8356

Outside

Press@RunDepth: 30.50 psig @ 4570.00 ft (KB)

Start Date: 2014.01.08

End Date:

2014.01.08

Capacity: 8000.00 psig

Last Calib.: 2014.01.08

Start Time: 05:35:05

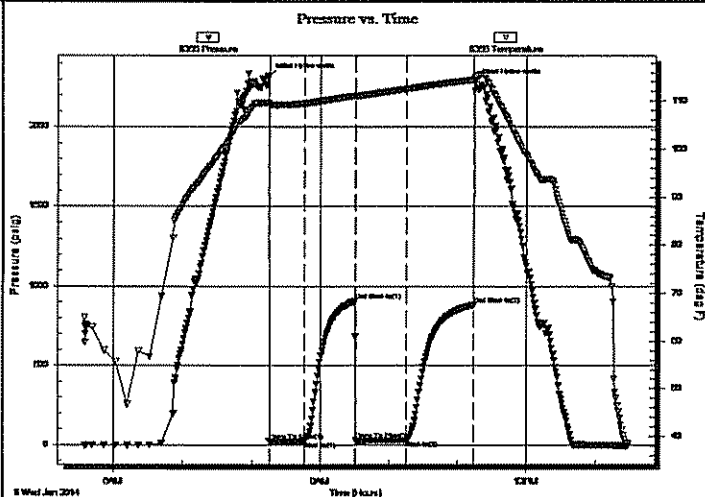
End Time:

13:28:29

Time On Btm: 2014.01.08 @ 08:14:30

Time Off Btm: 2014.01.08 @ 11:16:00

TEST COMMENT: IF: 3/4 in. of blow
IS: Bled off-No return
FF: No blow
FSI: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2313.02	109.65	Initial Hydro-static
1	21.18	109.22	Open To Flow (1)
31	24.91	109.49	Shut-In(1)
75	906.47	111.08	End Shut-In(1)
76	26.33	111.00	Open To Flow (2)
121	30.50	112.56	Shut-In(2)
180	883.93	114.48	End Shut-In(2)
182	2281.43	115.20	Final Hydro-static

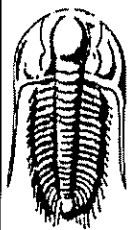
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m w with oil specs	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

4-13s-31w-Gove Co., KS

301 S. Market St.
Wichita, KS 67202

Ottley #4-4

Job Ticket: 54562

DST#: 2

ATTN: Steve Davis

Test Start: 2014.01.08 @ 05:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbt

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbt
5.00	Mud 100m with oil specs	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbt

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

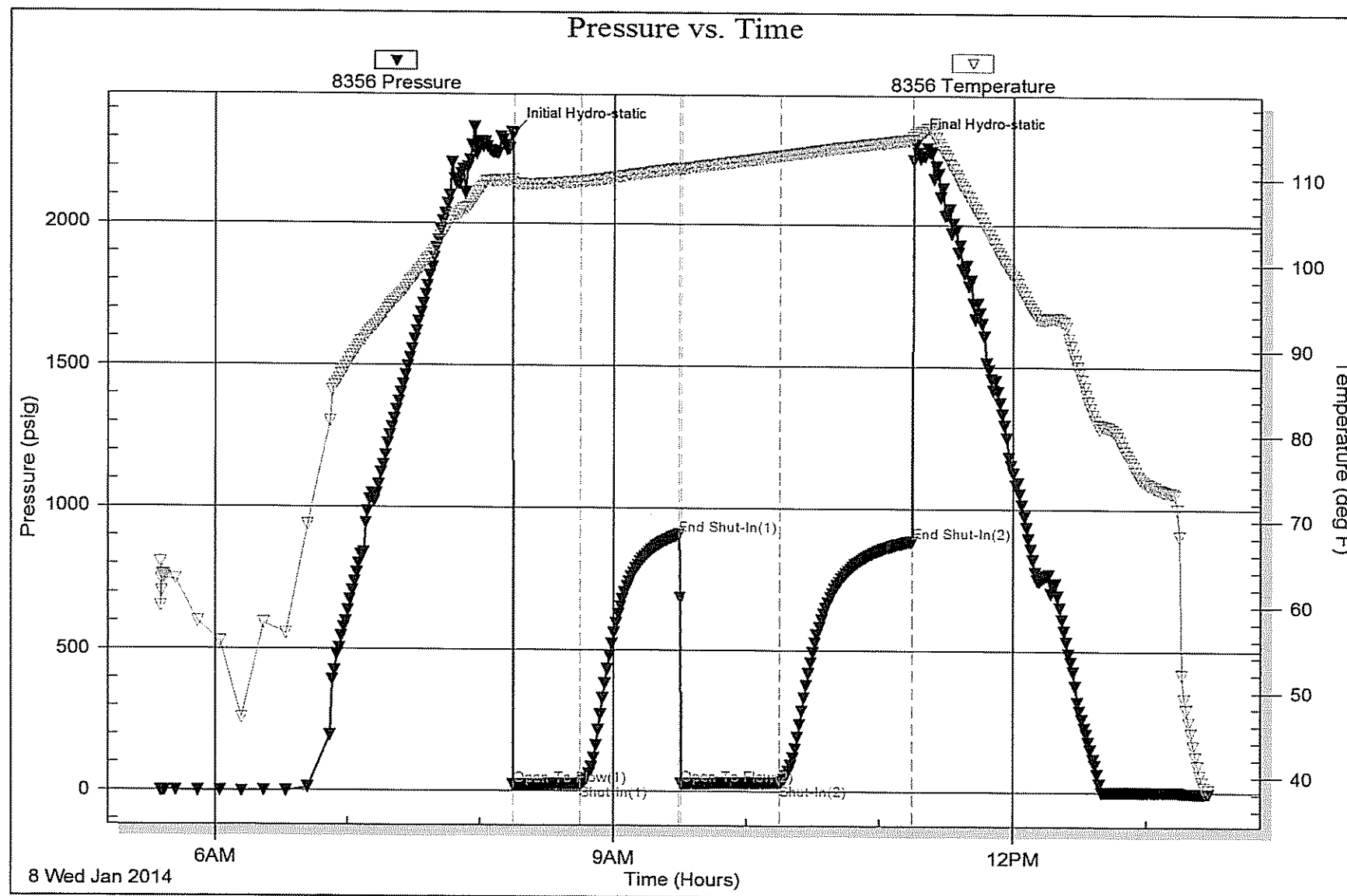
Recovery Comments:

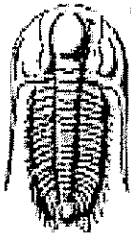
Serial #: 8356

Outside Lario Oil & Gas Co.

Ottley #4-4

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

4-13s-31w-Gove Co., KS

301 S. Market St.
Wichita, KS 67202

Ottley #4-4

Job Ticket: 55591

DST#: 3

ATTN: Steve Davis

Test Start: 2014.01.09 @ 12:09:26

GENERAL INFORMATION:

Formation: **Basal Penn Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:07:26

Time Test Ended: 19:51:56

Test Type: Conventional Straddle (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4592.00 ft (KB) To 4704.00 ft (KB) (TVD)

Reference Elevations: 2946.00 ft (KB)

Total Depth: 4746.00 ft (KB) (TVD)

2938.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8373

Inside

Press@RunDepth: 246.08 psig @ 4593.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.09

End Date: 2014.01.09

Last Calib.: 2014.01.09

Start Time: 12:09:31

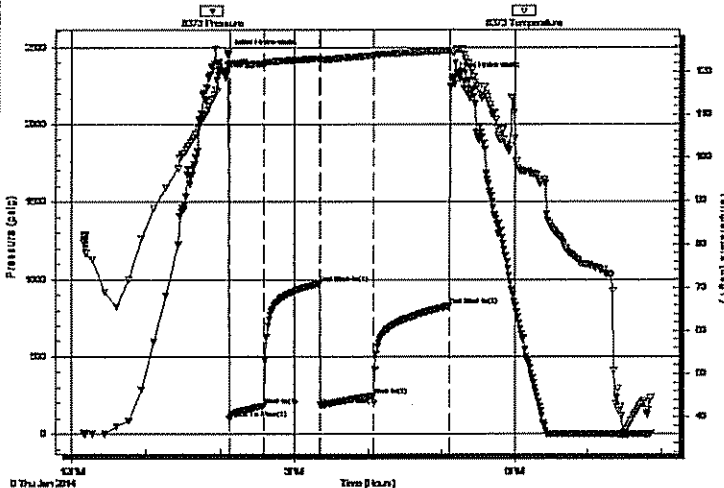
End Time: 19:51:55

Time On Btm: 2014.01.09 @ 14:05:56

Time Off Btm: 2014.01.09 @ 17:08:56

TEST COMMENT: IF: BOB in 22 min.
IS: No return.
FF: BOB in 40 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2461.66	121.19	Initial Hydro-static
2	98.05	121.55	Open To Flow (1)
30	181.05	121.88	Shut-In(1)
75	974.15	123.04	End Shut-In(1)
75	184.81	122.76	Open To Flow (2)
119	246.08	123.74	Shut-In(2)
181	828.94	124.83	End Shut-In(2)
183	2310.90	124.37	Final Hydro-static

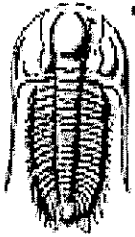
Recovery

Length (ft)	Description	Volume (bbl)
186.00	w cm 40%w 60%m	1.51
124.00	w cm 10%w 90%,	1.74
77.00	mud 100%m	1.08

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

301 S. Market St.
Wichita, KS 67202

ATTN: Steve Davis

4-13s-31w-Gove Co., KS

Ottley #4-4

Job Ticket: 55591

DST#: 3

Test Start: 2014.01.09 @ 12:09:26

GENERAL INFORMATION:

Formation: Basal Penn Sand

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:07:26

Time Test Ended: 19:51:56

Test Type: Conventional Straddle (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4592.00 ft (KB) To 4704.00 ft (KB) (TVD)

Reference Elevations: 2946.00 ft (KB)

Total Depth: 4746.00 ft (KB) (TVD)

2938.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8360 Below (Straddle)

Press@RunDepth: psig @ 4708.00 ft (KB)

Start Date: 2014.01.09

End Date: 2014.01.09

Capacity: 8000.00 psig

Last Calib.: 2014.01.09

Start Time: 12:09:10

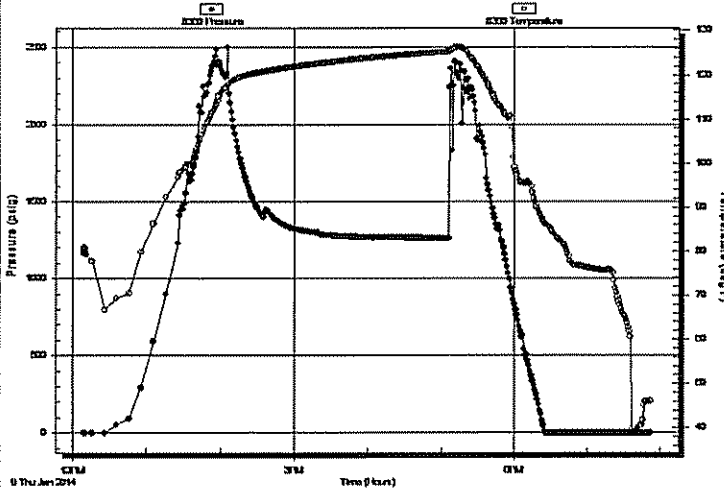
End Time: 19:52:04

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 22 min.
IS: No return.
FF: BOB in 40 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
186.00	w cm 40%w 60%m	1.51
124.00	w cm 10%w 90%,	1.74
77.00	mud 100%m	1.08

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

4-13s-31w-Gove Co., KS

301 S. Market St.
Wichita, KS 67202

Ottley #4-4

Job Ticket: 55591

DST#: 3

ATTN: Steve Davis

Test Start: 2014.01.09 @ 12:09:26

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 9.59 in³

Resistivity: 0.00 ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

0 deg API

Water Salinity: 18500 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	w cm 40%w 60%m	1.507
124.00	w cm 10%w 90%,	1.739
77.00	mud 100%m	1.080

Total Length: 387.00 ft

Total Volume: 4.326 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .56@46=18500

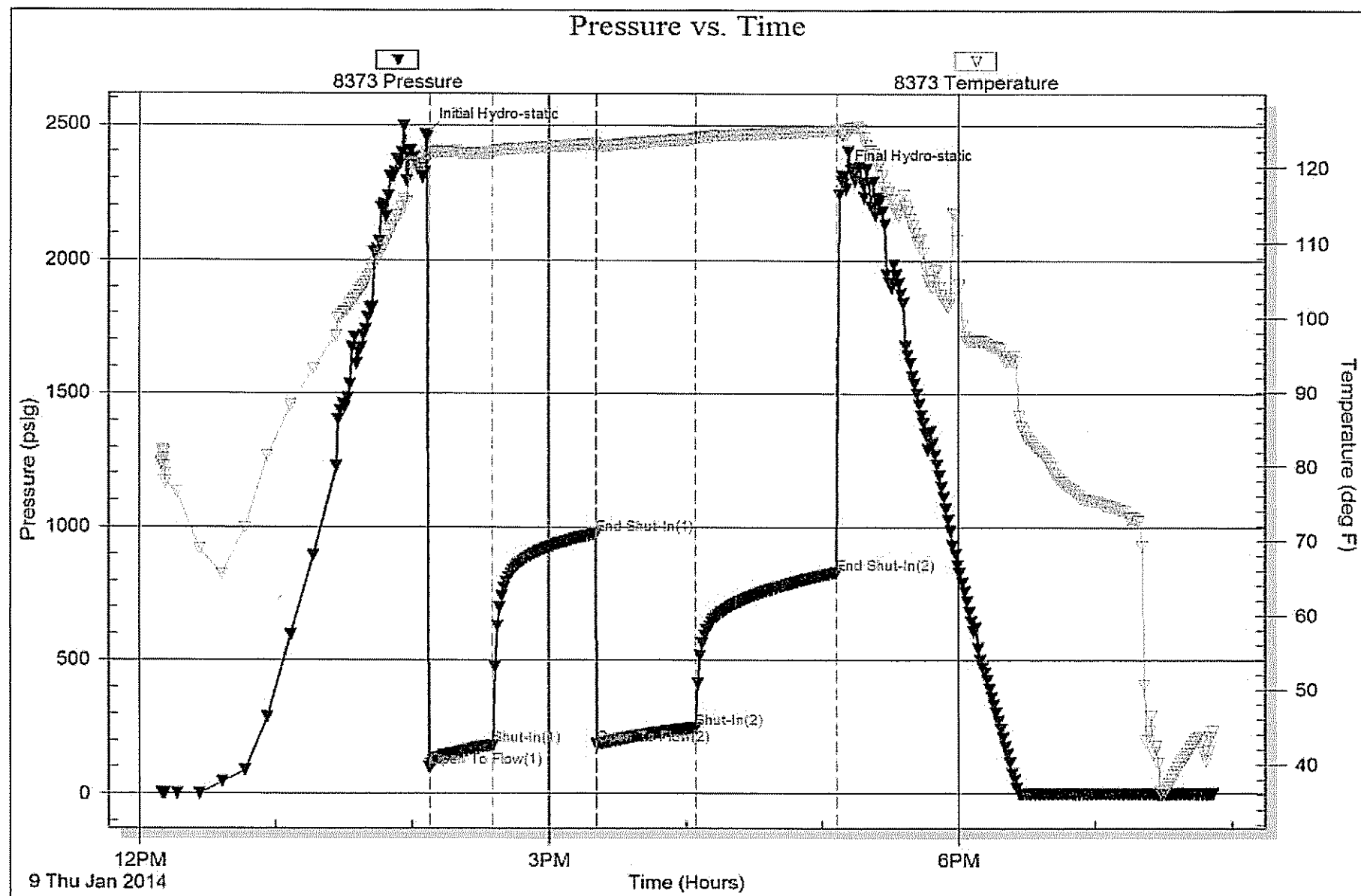
Serial #: 8373

Inside

Lario Oil & Gas Co.

Ottley #4-4

DST Test Number: 3



Serial #: 8360

Below (Straddle) Oil & Gas Co.

Ottley #4-4

DST Test Number: 3

