



PO Box 93999
Southlake, TX 76092

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

INVOICE

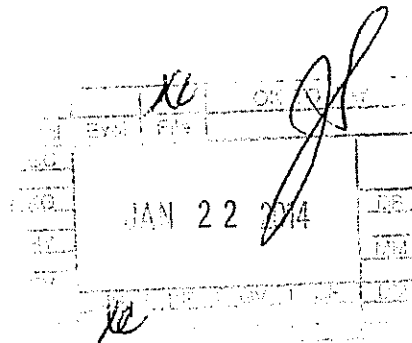
Invoice Number: 140745
Invoice Date: Jan 10, 2014
Page: 1

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 <u>NEW</u> (Circle one)			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	<u>123 sks</u>	@	<u>17.20</u>	<u>2201.70</u>
POZMIX	<u>82 sks</u>	@	<u>9.35</u>	<u>766.70</u>
GEL	<u>7 sks</u>	@	<u>23.40</u>	<u>163.80</u>
CHLORIDE		@		
ASC		@		
Flo-seal	<u>51 #</u>	@	<u>2.97</u>	<u>151.47</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>220.17 ft³</u>	@	<u>2.48</u>	<u>546.02</u>
MILEAGE	<u>9.19 tons x 20 mi</u>	@	<u>2.60</u>	<u>477.88</u>
				<u>Total 4307.57</u>

SERVICE

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

TOTAL 2725.59

PLUG & FLOAT EQUIPMENT

<u>8 5/8 wooden plug</u>	@	<u>107.64</u>
	@	
	@	
	@	
	@	
TOTAL <u>107.64</u>		

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

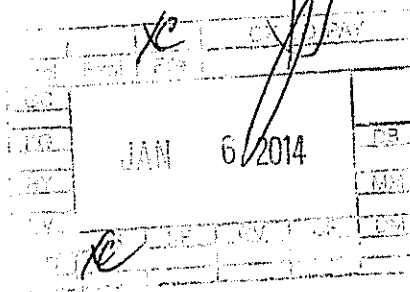
Bill To:

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:
Drilling 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>Office</u>	WELL # <u>4-4</u>	LOCATION <u>Drilling 5 TO General</u>			COUNTY <u>Garza</u>	STATE <u>K1</u>	
OLD OR NEW (Circle one)							

CONTRACTOR W 12

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:

Drilling, Circulate, mix cement, Air flow cement

Shut in

Cement Bit Circulate

Drilling, 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 @ 2.45 254.73

MILEAGE 25 @ 8.40 210.00

TOTAL 4853.73

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

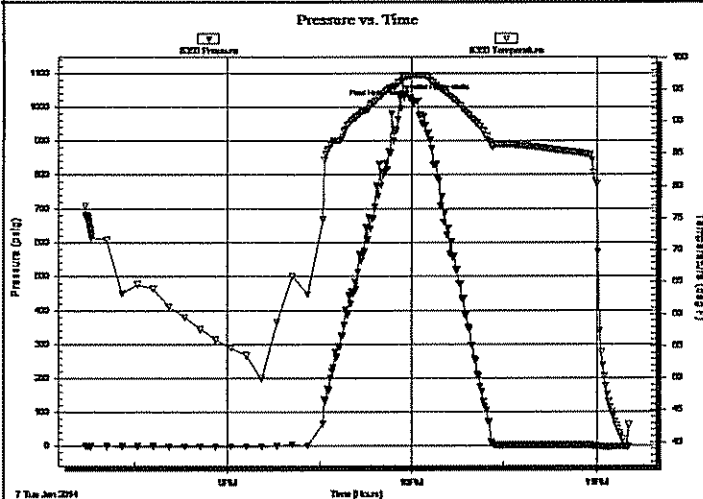
End Time:

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:

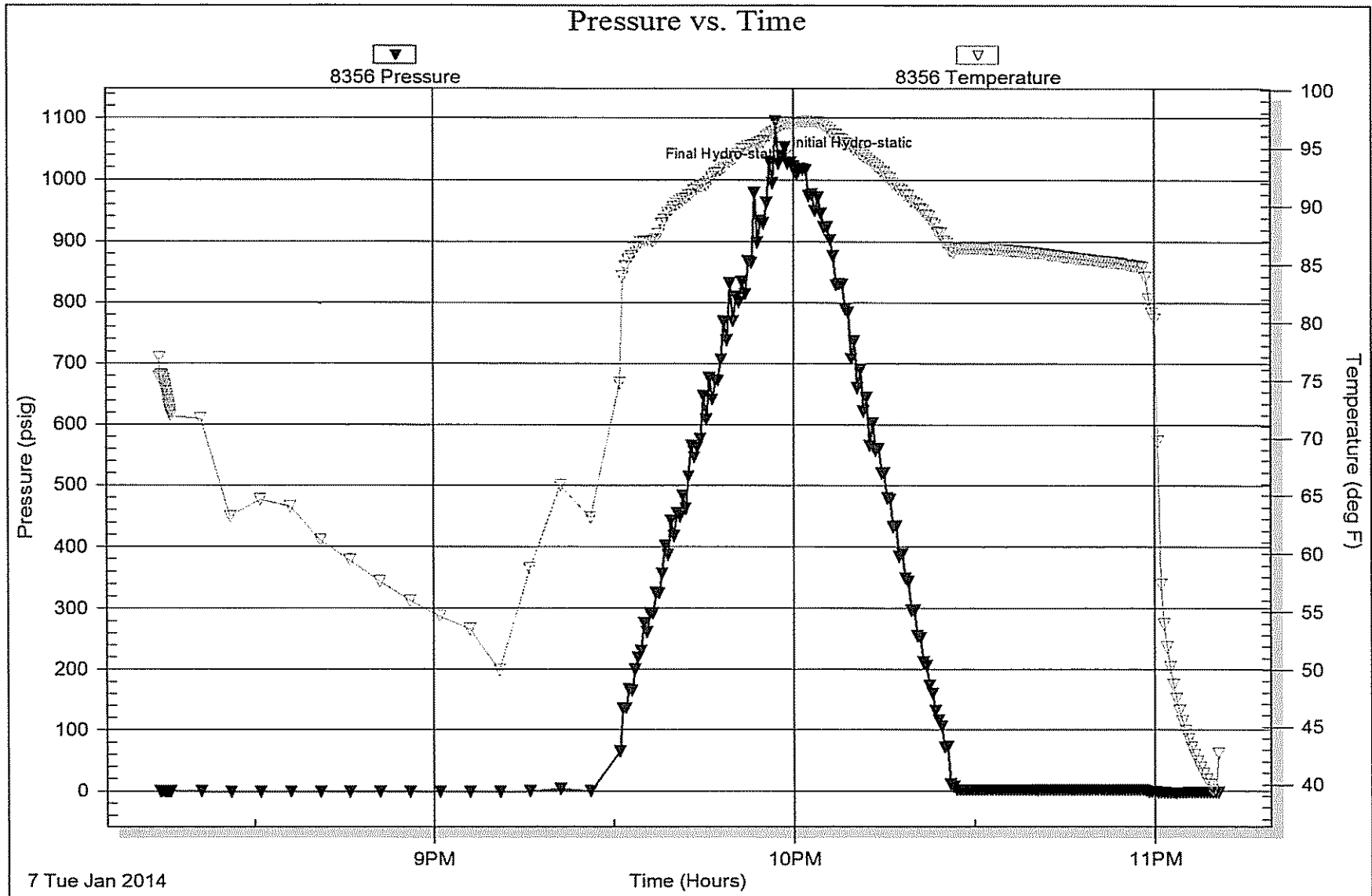
Recovery Comments:

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

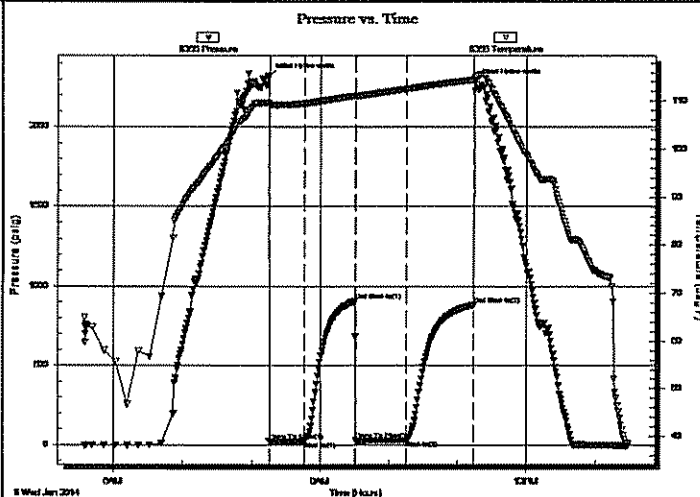
End Time:

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

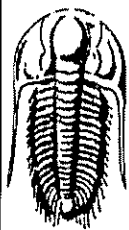
Recovery

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:

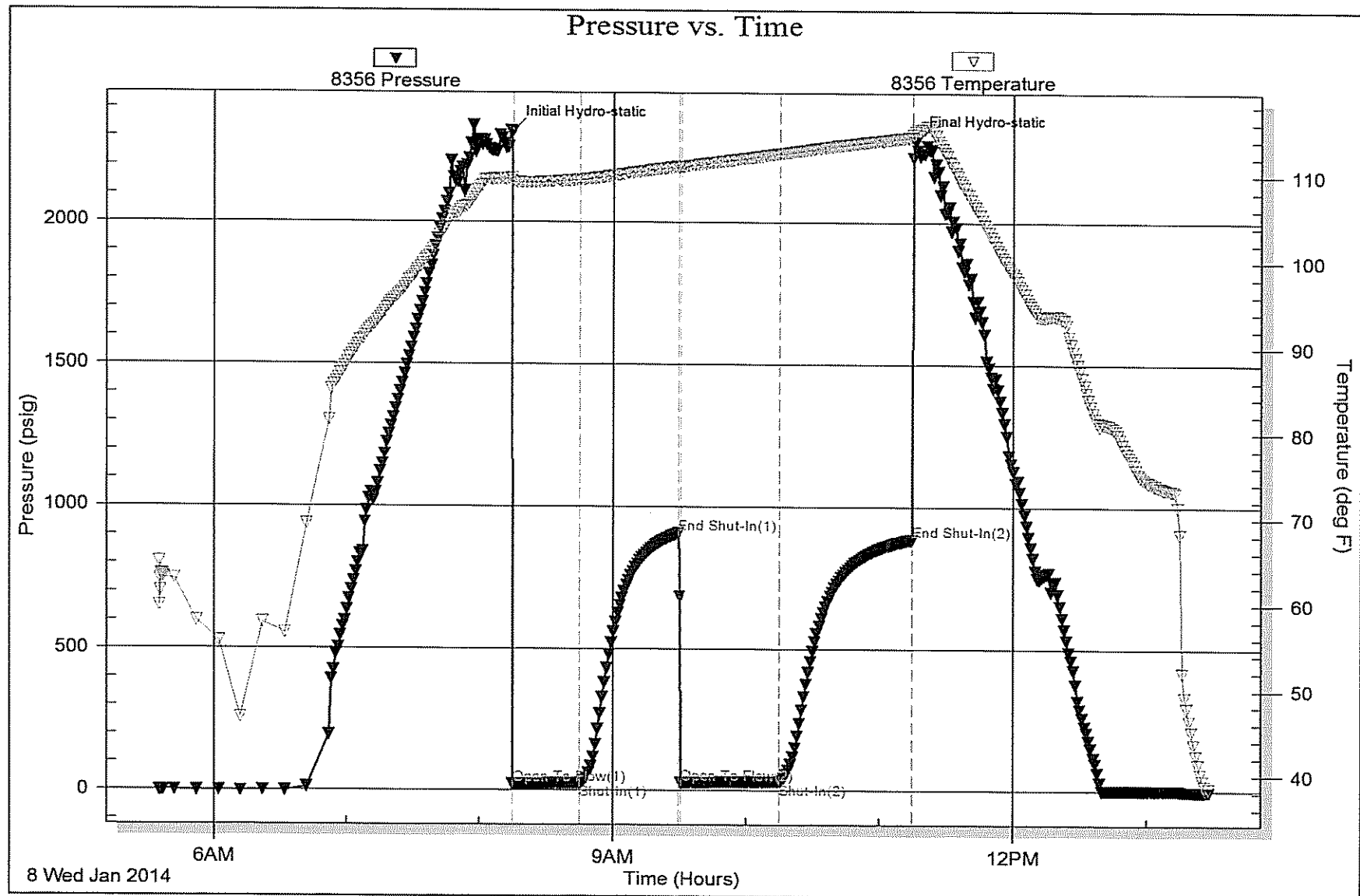
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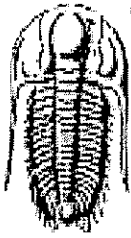
Serial #: 8356

Outside Lario Oil & Gas Co.

Ottley #4-4

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

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)

Total Depth: 4746.00 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 #: 8373

Inside

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

Start Date: 2014.01.09

End Date: 2014.01.09

Start Time: 12:09:31

End Time: 19:51:55

Capacity: 8000.00 psig

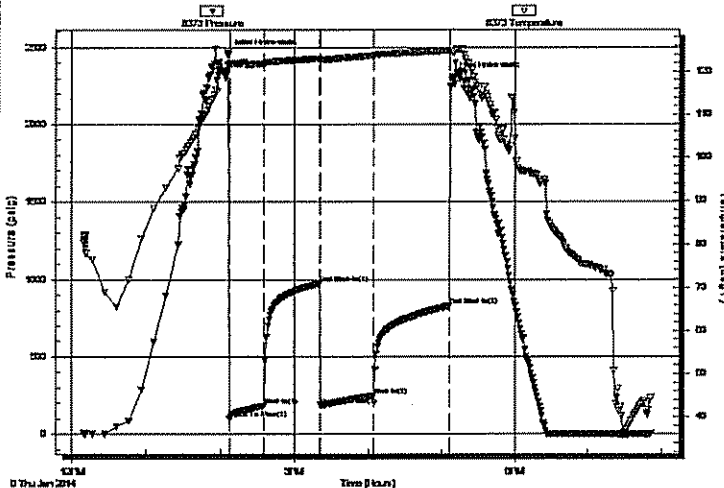
Last Calib.: 2014.01.09

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

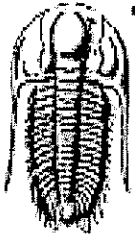
Recovery

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)

Total Depth: 4746.00 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 #: 8360 Below (Straddle)

Press@RunDepth: psig @ 4708.00 ft (KB)

Start Date: 2014.01.09

End Date: 2014.01.09

Start Time: 12:09:10

End Time: 19:52:04

Capacity: 8000.00 psig

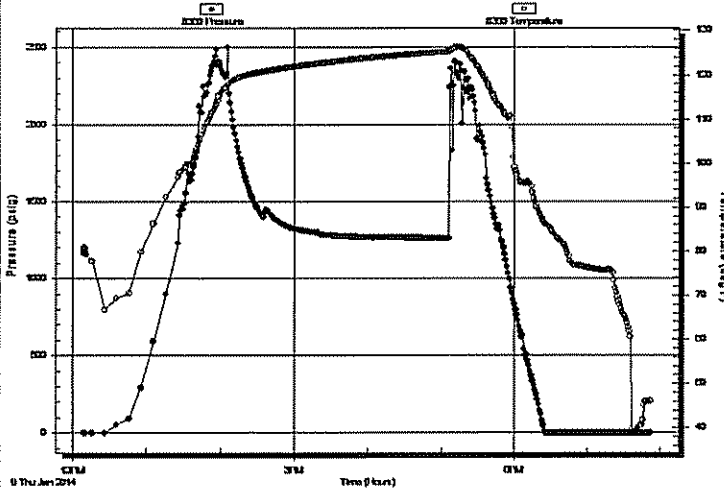
Last Calib.: 2014.01.09

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

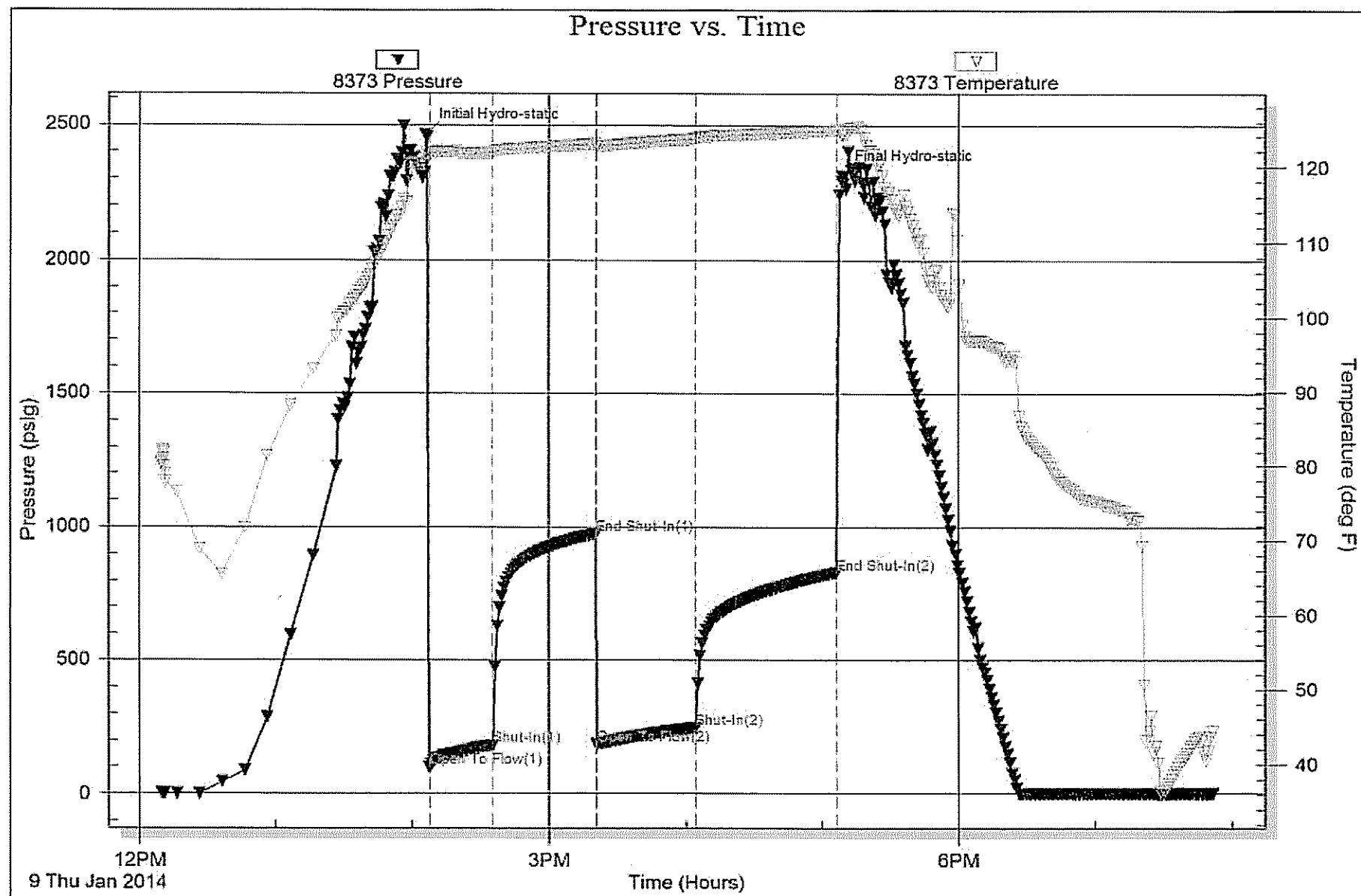
Serial #: 8373

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

