



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1189512
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: _____

1189512

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Flowing Pumping Gas Lift Other *(Explain)* _____

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Houlton 4
Doc ID	1189512

All Electric Logs Run

CNL/CDL
MEL
BHCS
DIL

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Houlton 4
Doc ID	1189512

Tops

Name	Top	Datum
Heebner	3506	-2023
Lansing	3686	-2203
Stark Sh	4046	-2563
Hushpuckney	4083	-2600
Base KC	4140	-2657
Mississippian	4219	-2736
Kinderhook	4397	-2914
Viola	4502	-3019
Simpson	4606	-3123



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 141515
Invoice Date: Feb 16, 2014
Page: 1

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

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

Houlton #4-4 (AFE #14014)

Customer ID	Field Ticket #	Payment Terms	
Lario	62623	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Feb 16, 2014	3/18/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Houlton #4		
175.00	CEMENT MATERIALS	Class A Common	17.90	3,132.50
493.00	CEMENT MATERIALS	Chloride	0.80	394.40
183.75	CEMENT SERVICE	Cubic Feet Charge	2.48	455.70
43.15	CEMENT SERVICE	Ton Mileage Charge	2.60	112.19
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
5.00	CEMENT SERVICE	Pump Truck Mileage	7.70	38.50
5.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	22.00
1.00	CEMENT SUPERVISOR	Charles Kinyon		
1.00	CEMENT SUPERVISOR	Tim Dickson		
1.00	CEMENT SUPERVISOR	David Felio		

BCP Surface
KC
le
MAR 4 2014

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

\$ 1,586.91

ONLY IF PAID ON OR BEFORE
Mar 13, 2014

Subtotal	5,667.54
Sales Tax	252.17
Total Invoice Amount	5,919.71
Payment/Credit Applied	
TOTAL	5,919.71

BS
3-5-14

ALLIED OIL & GAS SERVICES, LLC 062623

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: great Bend

DATE <u>2-16-14</u>	SEC <u>4</u>	TWP. <u>32</u>	RANGE <u>12</u>	CALLED OUT	ON LOCATION <u>8:30</u>	JOB START	JOB FINISH
<u>Houlton</u> LEASE	WELL # <u>4</u>	LOCATION <u>allied shop 1 3/4 W</u>			COUNTY <u>Franklin</u>	STATE <u>Tx</u>	
OLD OR <u>NEW</u> (Circle one)				<u>1 1/4 5</u>			

CONTRACTOR <u>Maverick</u>	
TYPE OF JOB <u>surface</u>	
HOLE SIZE <u>12 1/2</u>	T.D. <u>305</u>
CASING SIZE <u>8 3/4 24#</u>	DEPTH <u>309</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>H2O 18.47 BBL</u>	

OWNER <u>same</u>
CEMENT
AMOUNT ORDERED <u>175 lbs class A 31. CC</u>

EQUIPMENT	
PUMP TRUCK # <u>597</u>	CEMENTER <u>Charles Kinzen</u>
	HELPER <u>Tim dickson</u>
BULK TRUCK # <u>369</u>	DRIVER <u>David Felio</u>
BULK TRUCK #	DRIVER

COMMON	<u>175</u>	@	<u>17.90</u>	<u>3.132.50</u>
POZMIX		@		
GEL		@		
CHLORIDE	<u>493</u>	@	<u>.80</u>	<u>394.40</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>183.75</u>	@	<u>2.48</u>	<u>455.70</u>
MILEAGE	<u>8.63 x 5 x</u>		<u>2.60</u>	<u>112.15</u>
				TOTAL <u>4074.75</u>

REMARKS:

Rig Ran 305' csg Broke circulation
w/ Rig Mud per Hood for wedge
pump 5 BBL H2O ahead mix 175
x class A 31cc displace 18.47
BBL H2O that ctn cement did
circulate

SERVICE

DEPTH OF JOB	<u>309</u>
PUMP TRUCK CHARGE	<u>1512.35</u>
EXTRA FOOTAGE	@
MILEAGE	<u>Hum 5 @ 7.70</u>
MANIFOLD	@
	<u>Lum 5 @ 4.40</u>
	@

CHARGE TO: Lario oil & gas
STREET _____
CITY _____ STATE _____ ZIP _____

TOTAL 1572.75

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
TOTAL		

Thank you!
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 X Cecil E. Farmer
SIGNATURE X Cecil E. Farmer

SALES TAX (if App) _____
TOTAL CHARGES 5.667.54
1586.91
DISCOUNT _____ IF PAID IN 30 DAYS
\$ 4080.62



PAGE	CUST NO	INVOICE DATE
1 of 1	1002301	02/25/2014
INVOICE NUMBER		
1718 - 91421315		

Pratt (620) 672-1201
 B LARIO OIL & GAS
 I P O BOX 84
 L MURDOCK
 L KS US 67111
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Houlton 4 (AFE #14014)
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40695573	19843		Net - 30 days	03/27/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 02/23/2014 to 02/23/2014</i>				
0040695573				
171810128A Cement-New Well Casing/Pi 02/23/2014				
Cement 5 1/2" Longstring				
AA2 Cement	185.00	EA	11.39	2,107.05 T
60/40 POZ	50.00	EA	8.04	401.98 T
Salt	929.00	EA	0.33	311.20 T
Gilsonite	925.00	EA	0.45	415.21 T
C-41P	35.00	EA	2.68	93.80 T
FLA-322	87.00	EA	5.02	437.15 T
Cement Friction Reducer	53.00	EA	4.02	213.05 T
Super Flush	500.00	EA	1.64	820.71 T
Claymax KCL Substitute	5.00	EA	23.45	117.24 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	267.99	267.99
"Cmt. Shoe Packer Type, 5 1/2" (Blue) "	1.00	EA	2,478.89	2,478.89
"Turbolizer, 5 1/2" (Blue)"	10.00	EA	73.70	736.97
"5 1/2" Basket (Blue)"	1.00	EA	194.29	194.29
"Unit Mileage Chg (PU, cars one way)"	30.00	MI	2.85	85.42
Heavy Equipment Mileage	60.00	MI	4.69	281.39
"Proppant & Bulk Del. Chgs., per ton mil	326.00	EA	1.07	349.46
Depth Charge; 4001'-5000'	1.00	EA	1,688.32	1,688.32
Blending & Mixing Service Charge	235.00	BAG	0.94	220.42
Plug Container Util. Chg.	1.00	EA	167.49	167.49
"Service Supervisor, first 8 hrs on loc.	1.00	EA	117.24	117.24

XC
 MAR 5 2014

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	11,505.27
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	351.59
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	11,856.86
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

BS
 3-3-14



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 10128 A

4-325-12W

DATE _____ TICKET NO. _____

DATE OF JOB 2-23-14		DISTRICT Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER Lario Oil and Gas				LEASE Houlton				WELL NO. 4	
ADDRESS				COUNTY Barber		STATE Kansas			
CITY		STATE		SERVICE CREW C. Messick: E. Masquez: D. Phye					
AUTHORIZED BY				JOB TYPE: C.N.W. - Longstring					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 2-23-14	AM/PM	TIME
37,216	1.25					ARRIVED AT JOB		AM/PM	11:30
19,889-19,843	1.25					START OPERATION		AM/PM	4:15
T0,959-T3,768	1.25					FINISH OPERATION		AM/PM	5:30
						RELEASED	2-23-14	AM/PM	5:45
						MILES FROM STATION TO WELL	30		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Gay Houlton
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA2 Blend Cement	sh	185	\$	3,145 00
CP 103	60/40 Poz Blend Cement	sh	50	\$	600 00
CC 111	Salt	Lb	929	\$	464 50
CC 201	Gilsonite	Lb	925	\$	619 75
CC 105	Defoamer	Lb	35	\$	140 00
CC 129	Fluid Loss	Lb	87	\$	652 50
CC 112	Cement Friction Reducer	Lb	53	\$	318 00
CF 607	Latch Down Plug and Baffle, 5 1/2"	ea	1	\$	400 00
CF 1001	Weatherford Packer Shoe, 5 1/2"	ea	1	\$	3,700 00
CF 1651	Turbolizer, 5 1/2"	ea	10	\$	1,100 00
CF 1901	Basket, 5 1/2"	ea	1	\$	290 00
CT 04	Claymax	Gal	5	\$	175 00
CC 154	Super Flush	Gal	500	\$	1,225 00

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE R. Messick THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Gay Houlton
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 ~~10129~~ A

Continuation

DATE _____ TICKET NO. 4-325-12W 10,128

DATE OF JOB <u>2-23-14</u> DISTRICT <u>Pratt, Kansas</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>Lario Oil and Gas</u>		LEASE <u>Houlton</u> WELL NO. <u>4</u>							
ADDRESS		COUNTY <u>Barber</u> STATE <u>Kansas</u>							
CITY STATE		SERVICE CREW <u>C. Messick: E. Masquez: D. Phye</u>							
AUTHORIZED BY		JOB TYPE: <u>C.N.W. - Longstring</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
						ARRIVED AT JOB		AM PM	
						START OPERATION		AM PM	
						FINISH OPERATION		AM PM	
						RELEASED		AM PM	
						MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Jim Houlton
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 101	Heavy Equipment Mileage	Mi	60	\$	420 00
CF 240	Blending and Mixing Service	sk	235	\$	329 00
E 113	Bulk Delivery	tm	326	\$	520 30
CE 205	Cement Pump: 4,000 Feet To 5,000 Feet	hrs	4	\$	2,520 00
CF 504	Plug Container	Job	1	\$	250 00
S 003	Service Supervisor	hrs	8	\$	175 00
F 100	Pickup Mileage	Mi	30	\$	127 50

CHEMICAL / ACID DATA:			

SUB TOTAL		<u>11,505 27</u>
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: <u>R. Messick</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Jim Houlton</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

Customer Parlo Oil and Gas	Lease No.	Date 2-23-14
Lease Houlton	Well # 4	
Field Order # 10128	Station Pratt, Kansas	Casing " 5 1/2
Type Job C.N.W. - Longstring	Depth 15.5 Lb. 4455	County Barber
	Formation	State Kansas
		Legal Description 4-325-12W

PIPE DATA		PERFORATING DATA		MATERIAL USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size 5	Shots/Ft 185	sacks 5	Acid AA2	Cement	with	RATE 5.8	PRESS. Fluid
Depth 4455	Depth 4455	From Reducer	To 28	Acid Determer	108	Max 5 Lb./ft	ISIP 255	Friction 38
Volume 106 Bbl.	Volume	From	To	Acid 151.6	Gal.	Min 6	ISIP 10	Min. 1.42
Max Press. 1,500 P.S.I.	Max Press.	From	To	Acid 6		Avg		15 Min.
Well Connection PUG CON	Annulus Vol. ainer	From sack	To 60/40	Acid Poz to Plva	Rat (30	HHP Used 50	Annulus Pressure and Mouse (20	ISIP 15
Plug Depth #415	Packer Depth	From	To	Flush 105	Bbl.	Gas Volume 2	Total Load	

Customer Representative Jay Schweikert	Station Manager Kevin Gordley	Treater Clarence R. Messicht
Service Units 37216	19889	19843
Driver Names Messicht	Masavez	Phye
70959	73768	

Time A.M.	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
11:30					Cementer and Float Equipment on location.
12:00					Truck on location and hold safety meeting.
12:30					Maverick Drilling start to run Weatherford Parker shoe, shoe joint with Latch Down Raffle screwed into collar and 15 joints used tested 15.5 Lb./Ft. 5 1/2" casing and then 36 joints new 15.5 Lb./Ft. 5 1/2" casing. A Basket was installed above shoe joint. A Turbulizer was installed on collars #1, 2, 4, 6, 8, 10, 11, 12, 13 and #14.
2:30					Casing in well. Circulate for 30 minutes.
3:03					Release Ball to set Packer shoe.
3:08	800				Set Packer shoe. Circulate for 1 hour.
4:20		2000			Shut in well. Pressure Test. Open well.
4:22	200			6	Start Fresh water Pre-Flush.
			15	6	Start Super Flush.
			27	6	Start Fresh water spacer.
4:29	200		30	5	Start mixing 185 sacks AA2 cement.
	-0-		77		Stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open Well.
4:44	150			6.5	Start Fresh water Displacement.
4:55			85	5	Start to lift cement.
5:01	600		105		Plug down.
	1,500				Pressure up.
					Release pressure. Packer shoe hold.

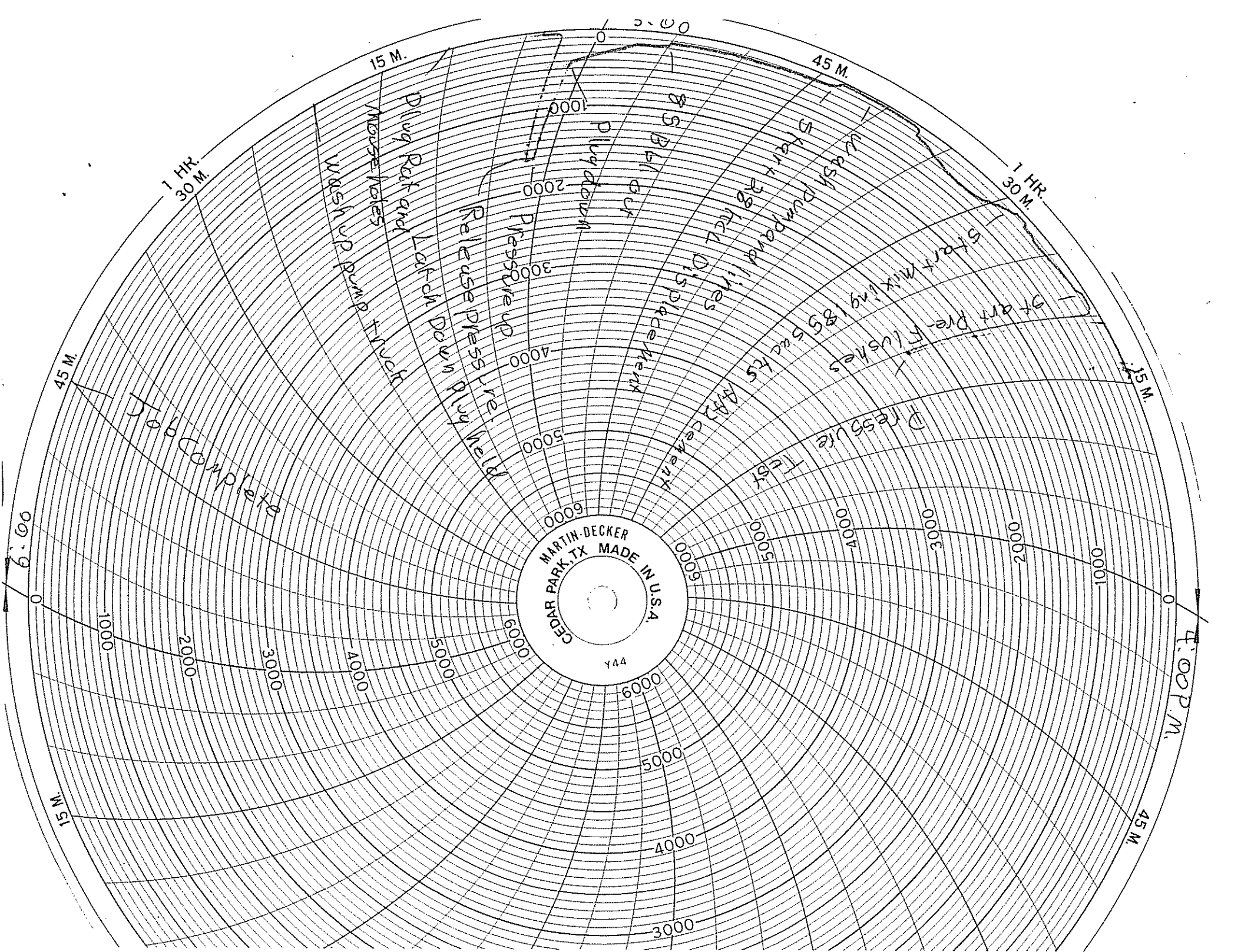
Ticket # 10,128 2-23-14

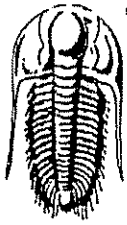
Lario Oil and Gas

Houlton # 4

185 sacks AA2 Blend cement

Clarence R. Messick





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Lario Oil & Gas Co.
301 S. Market St.
Wichita, KS 67202-3805

4-32s.-12w. Barber Co.
Houlton #4
Job Ticket: 52476 DST#: 1
Test Start: 2014.02.21 @ 15:09:42

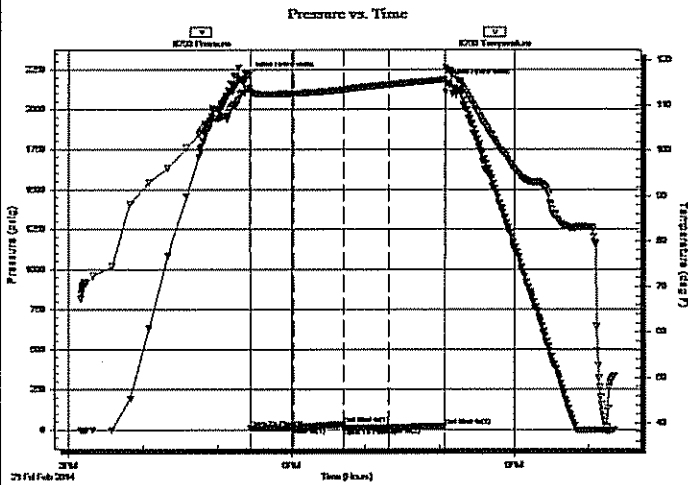
ATTN: John Hastings Jeff Q

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 17:26:42
Time Test Ended: 22:20:57
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 68
Interval: 4468.00 ft (KB) To 4497.00 ft (KB) (TVD)
Reference Elevations: 1483.00 ft (KB)
Total Depth: 4497.00 ft (KB) (TVD) 1473.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8790 Inside
Press@RunDepth: 15.14 psig @ 4469.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.02.21 End Date: 2014.02.21 Last Calib.: 2014.02.21
Start Time: 15:09:47 End Time: 22:20:56 Time On Blm: 2014.02.21 @ 17:26:12
Time Off Blm: 2014.02.21 @ 20:05:12

TEST COMMENT: IF: Weak blow . 1/4" - Dead @ 9min.
ISI: No blow
FF: No blow
FSI: No blow



PRESSURE SUMMARY

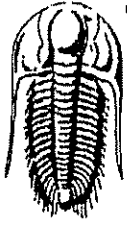
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.37	113.84	Initial Hydro-static
1	11.17	112.84	Open To Flow (1)
36	14.95	112.68	Shut-In(1)
76	35.20	113.45	End Shut-In(1)
77	12.67	113.46	Open To Flow (2)
113	15.14	114.59	Shut-In(2)
158	23.70	115.73	End Shut-In(2)
159	2168.36	117.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig mud 100%mud	0.07

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (m ³ /d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

4-32s.-12w. Barber Co.

301 S. Market St.
Wichita, KS 67202-3805

Houlton #4

Job Ticket: 52476

DST#: 1

ATTN: John Hastings Jeff Q

Test Start: 2014.02.21 @ 15:09:42

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:

7500 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig mud 100% mud	0.070

Total Length:

5.00 ft

Total Volume:

0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

Inside

Lario Oil & Gas Co.

Houlton #4

DST Test Number: 1

