



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1207339
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: _____

1207339

Operator Name: _____ Lease Name: _____ Well #: _____

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

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

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Knapp 7-31
Doc ID	1207339

All Electric Logs Run

CDL/CNL/PE
SONIC
MEL
DIL

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Knapp 7-31
Doc ID	1207339

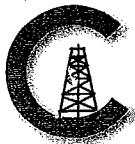
Tops

Name	Top	Datum
Heebner	3899	-975
Lansing	3941	-1017
Stark Shale	4181	-1257
Hushpuckney	4218	-1294
Base KC	4259	-1335
Marmaton	4294	-1370
Pawnee	4382	-1458
Ft. Scott	4412	-1488
Johnson	4507	-1583
Morrow	4530	-1606
Basal Penn	4536	-1612
Mississippian	4578	-1654

Form	ACO1 - Well Completion
Operator	Lario Oil & Gas Company
Well Name	Knapp 7-31
Doc ID	1207339

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	4548 - 4558	750 g RWR-1 7 1/2% MCA	4548 - 4558
4	4518 - 4525	1200 g 15% MCA	4509 - 4525
4	4509 - 4513		
4	4242 - 4250	350 g 15% MCA	4242 - 4250
4	4165 - 4173	250 g 15% MCA	4165 - 4173
4	4420 - 4425	250 g 15% MCA; 500 g 15% NFE	4420 - 4425
4	4144 - 4154	250 g 15% MCA	4144 - 4154
4	4109 - 4118	250 g 15% MCA; 1000 g 15% NEFE	4109 - 4118
4	3995 - 3999	250 g 15% MCA	3995 - 3999



CONSOLIDATED
Oil Well Services, LLC

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 # 268482

Invoice Date: 05/28/2014 Terms: 15/15/30,n/30

Page 1

LARIO OIL & GAS
P.O. BOX 1093
GARDEN CITY KS 67846
(316)265-5611

KNAPP 7-31
46866
31-13S-31W
05-27-2014
KS

Drilling
AFE-14-092
CK 5/31/14

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	175.00	18.5500	3246.25
1102	CALCIUM CHLORIDE (50#)	495.00	.9400	465.30
1118B	PREMIUM GEL / BENTONITE	330.00	.2700	89.10

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-570.10
9995-130	CEMENT EQUIPMENT DISCOUNT	-244.88

Description	Hours	Unit Price	Total
399 MIN. BULK DELIVERY	1.00	430.00	430.00
460 CEMENT PUMP (SURFACE)	1.00	1150.00	1150.00
460 EQUIPMENT MILEAGE (ONE WAY)	10.00	5.25	52.50

[Handwritten signatures]
JUN 3 2014

Amount Due 5733.40 if paid after 06/27/2014

Parts:	3800.65	Freight:	.00	Tax:	255.21	AR	4873.38
Labor:	.00	Misc:	.00	Total:	4873.38		
Sublt:	-814.98	Supplies:	.00	Change:	.00		

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

268482

TICKET NUMBER 46866

LOCATION Oakley KS

FOREMAN Jerry Y

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
5-27-14	4793	Knapp 7-31	31	13S	31W	Gove
CUSTOMER			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			

Customer: Lario Oil & Gas
 Mailing Address: Oakley KS to Navaho to 10 S to Leaning first road 6126
 Trucks: 572 460 399
 Drivers: Michael R Jake H Jordan L

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH _____ CASING SIZE & WEIGHT 8 3/4 24#
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 16 3/4 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: safety meeting & rig up on W22 mix 1755 lbs com class A cement with 3% CC & 2% gel washed up & displaced with 16 3/4 bbl H2O & shut in. found cement 3' down in cellar after jetting

*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 ✓
5406	10	MILEAGE	52 ⁵⁰	525 ⁰⁰ ✓
5407	8.23	ton mileage delivery min	430	430 ⁰⁰ ✓
11045	175 SKS	com class A cement	18 ⁵⁵	3246 ²⁵ ✓
1102	495 ⁰⁰	calcium chloride	94	465 ³⁰ ✓
118b	330 ⁰⁰	gel	22	89 ¹⁰ ✓
			subtotal	5433 ¹⁵
			less disc 15%	814 ⁹⁸ ✓
			subtotal	4618 ¹⁷
			SALES TAX	255.21 ✓
			ESTIMATED TOTAL	4873.38 ✓

completed

Ravin 3737

[Signature]

AUTHORIZATION _____ TITLE _____ 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.



CONSOLIDATED
Oil Well Services, LLC

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 # 268761

Invoice Date: 06/12/2014 Terms: 15/15/30,n/30

Page 1

LARIO OIL & GAS
P.O. BOX 1093
GARDEN CITY KS 67846
(316)265-5611

KNAPP 7-31
46790
31-13S-31W
06-06-2014
KS

long string
drilling AFG 14 092
6-16-14 LK

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	180.00	23.7000	4266.00
1110A	KOL SEAL (50# BAG)	900.00	.5600	504.00
1131	60/40 POZ MIX	450.00	15.8600	7137.00
1118B	PREMIUM GEL / BENTONITE	2928.00	.2700	790.56
1107	FLO-SEAL (25#)	113.00	2.9700	335.61
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00
4130	CENTRALIZER 5 1/2"	15.00	61.0000	915.00
4104	CEMENT BASKET 5 1/2"	1.00	290.0000	290.00
4277A	DV TOOL-WEATHERFORD 5 1/2"	1.00	4900.0000	4900.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-3095.84
9995-130	CEMENT EQUIPMENT DISCOUNT	-557.13

Description	Hours	Unit Price	Total
399 SINGLE PUMP	1.00	3175.00	3175.00
399 EQUIPMENT MILEAGE (ONE WAY)	10.00	5.25	52.50
T-127 TON MILEAGE DELIVERY	1.00	243.35	243.35
T-129 TON MILEAGE DELIVERY	1.00	243.35	243.35

OK TO PAY
JUN 18 2014

Amount Due 25983.59 if paid after 07/12/2014

Parts:	20638.92	Freight:	.00	Tax:	1385.90	AR	22086.05
Labor:	.00	Misc:	.00	Total:	22086.05		
Sublt:	-3652.97	Supplies:	.00	Change:	.00		

Signed _____ Date _____



268761

TICKET NUMBER 46790
 LOCATION Oakley Ks
 FOREMAN Jerry Y Welt

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

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-6-14	4793	Knapp 7-31	31	135	31w	Gove
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			399	Michael R		
CITY			529-T-127	Rob S		
STATE			530-T-129	Lance R		
ZIP CODE						

JOB TYPE 2 stage HOLE SIZE 7 7/8 HOLE DEPTH 4700 CASING SIZE & WEIGHT 5 1/2 15.54
 CASING DEPTH 4669 DRILL PIPE _____ TUBING _____ OTHER DV Tool 23.60
 SLURRY WEIGHT 192/12.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 25.75
 DISPLACEMENT 110 1/2 / 56 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & rig upon WW2 run float eq: pt centralizer on 1,2,4,6,8,11,K, 17,20,23,29,31,34 basket 1/2 way upon 56 & DV tool on top 56 @ 2360 run casing to bottom Circulate 1 hr pump 5 bbl water 500 gal mud flush 5 bbl water mix 180 sks OWC with 5# Kalseal or SK shut down release plug wash pump & lines displace w/ 60 bbl water & 12 bbl mud 1000 # lift land @ 1500 #, released back float held. Dropped dart tool opened @ 800 # hook up to rig tree & circulate 3 hrs, mix 400 sks 60/40 poz mix 8% gel 1/4# flo seal per sk down center shut down release plug clean pump & lines & displace with 56 3/4 bbl H2O plug landed @ 1800 # tool closed @ 2500 final lift of 1000 # released back & float held Circulated approx 25 bbl to pit

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	52 ⁰⁰	52 ⁰⁰
5407A	27.81	ton mileage delivery	175	4867 ⁰⁰
1126	180 sks	OWC	2370	4266 ⁰⁰
1110A	900 #	Kalseal	56	504 ⁰⁰
1131	450 sks	60/40 poz mix	1586	7137 ⁰⁰
1118b	2928 #	gel	27	790.56
1107	113 #	flo seal	297	335.61
1144g	500 gal	mud flush	100	500 ⁰⁰
4159	1	5 1/2 AFU float shoe (w)	43375	43375
4454	1	5 1/2 latch down assy (w)	56700	56700
4130	15	5 1/2 centralizers (w)	6100	91500
4104	1	5 1/2 basket (w)	29000	29000
4277A	1	5 1/2 DV Tool (w)	49000	49000
			subtotal	243531.2
			less 15% disc	3652.97
			subtotal	20700.15
			SALES TAX	1385.90
			ESTIMATED TOTAL	22086.05

completed

AUTHORIZATION Jerry Welt TITLE _____ 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.

Consolidated oil well services

Friday, December 02, 2011
8:15 AM

10 PM

cement bid for: LARIO OIL AND GAS

Type of job: PRODUCTION 51/2 4750' 1100' FILL DV@2350'

Lease- KNAPP #7-31

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 PPG

TOP STAGE: 450 SKS 60/40POZ,8%GEL,1/4# FLOSEAL

YIELD 1.89 @12.5 PPG

Pump truck- 3,175.00

10 miles- 52.50

TOTAL= 3,227.50

180 SKS OWC -4,266.00

450 SKS 60/40- 7,137.00

2928# GEL- 732.00

900# KOLSEAL-504.00

113# FLOSEAL-335.61

500 GAL MUD

FLUSH - 500.00

27.81- TON

MILEAGE- 486.70

TOTAL= 13,961.31

FLOAT EQUIPMENT 51/2

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- 13,961.31

FLOAT EQUIPMENT- 7,166.75

SUB TOTAL-24,355.56

LESS 15% - 3,653.33

TOTAL= 20,702.23

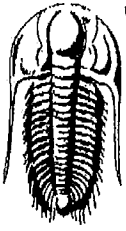
TAX INCLUDED AT INVOICING

BID BY: WALT DINKEL

me



completed



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54909

DST#: 1

ATTN: Steve Murphy

Test Start: 2014.05.31 @ 15:48:00

GENERAL INFORMATION:

Formation: **LKC - B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:34:30

Time Test Ended: 23:54:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: **3976.00 ft (KB) To 4024.00 ft (KB) (TVD)**

Total Depth: 4024.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2924.00 ft (KB)

2919.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8522

Outside

Press@RunDepth: 312.85 psig @ 3977.00 ft (KB)

Start Date: 2014.05.31

End Date:

2014.05.31

Start Time: 15:48:05

End Time:

23:54:44

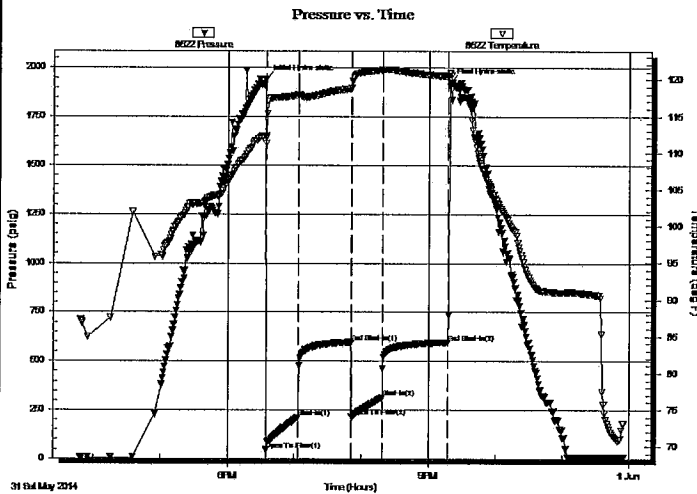
Capacity: 8000.00 psig

Last Calib.: 2014.05.31

Time On Btm: 2014.05.31 @ 18:34:15

Time Off Btm: 2014.05.31 @ 21:19:00

TEST COMMENT: IF: BOB @ 8 min.
IS: No Return.
FF: BOB @ 10 min.
FSI: No return.



PRESSURE SUMMARY

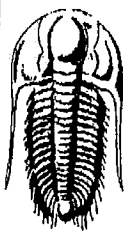
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.59	112.34	Initial Hydro-static
1	42.32	111.28	Open To Flow (1)
29	210.59	117.88	Shut-In(1)
77	594.89	118.78	End Shut-In(1)
77	214.42	118.76	Open To Flow (2)
105	312.85	121.27	Shut-In(2)
163	595.97	120.44	End Shut-In(2)
165	1926.35	120.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
505.00	mcw 5m 95w	5.96
120.00	somcw 1o 4m 95w	1.68
5.00	co 100o	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54909

DST#: 1

ATTN: Steve Murphy

Test Start: 2014.05.31 @ 15:48:00

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: 77000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
505.00	mcw 5m 95w	5.963
120.00	somcw 1o 4m 95w	1.683
5.00	co 100o	0.070

Total Length: 630.00 ft Total Volume: 7.716 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

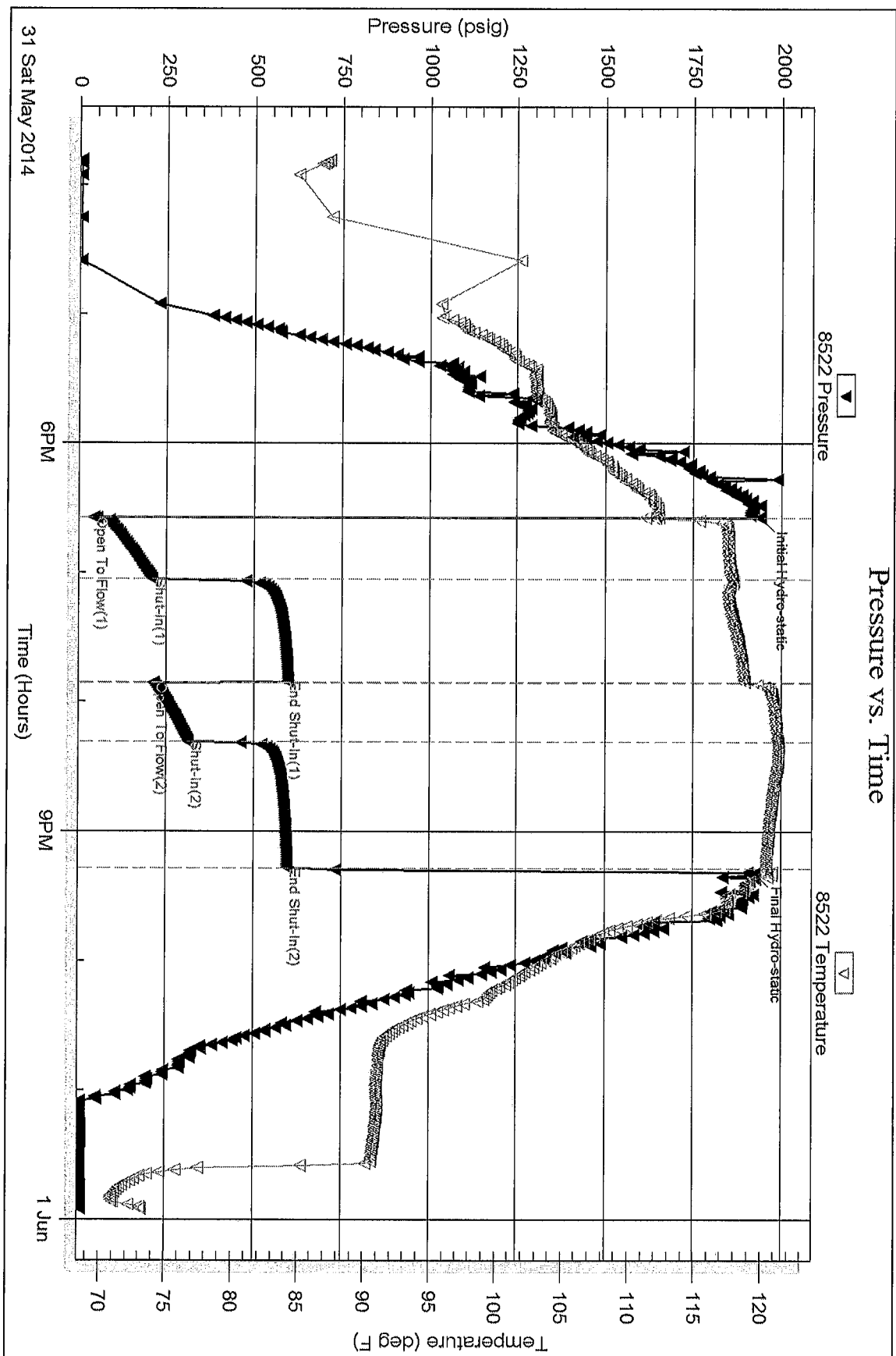
Recovery Comments: rw is .099 @ 67F = 77000ppm

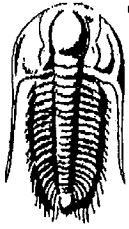
Serial #: 8522

Outside Larjo Oil & Gas Co.

Knapp #7-31

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54910

DST#: 2

ATTN: Steve Murphy

Test Start: 2014.06.01 @ 06:00:00

GENERAL INFORMATION:

Formation: **LKC - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:01:45

Time Test Ended: 12:36:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4022.00 ft (KB) To 4040.00 ft (KB) (TVD)**

Reference Elevations: 2924.00 ft (KB)

Total Depth: 4040.00 ft (KB) (TVD)

2919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press@RunDepth: 30.11 psig @ 4023.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.01

End Date:

2014.06.01

Last Calib.: 2014.06.01

Start Time: 06:00:05

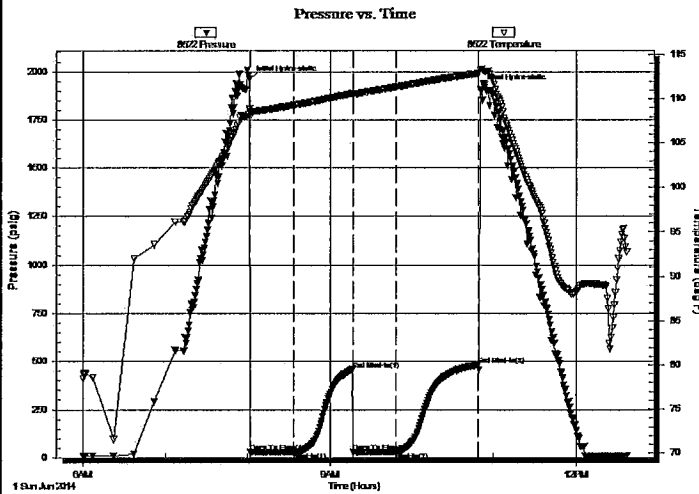
End Time:

12:36:44

Time On Btm: 2014.06.01 @ 08:01:30

Time Off Btm: 2014.06.01 @ 10:50:15

TEST COMMENT: 30: Surface blow, Died @ 20 min.
45: No return.
30: No blow.
60: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.11	108.91	Initial Hydro-static
1	27.58	107.97	Open To Flow (1)
32	28.97	109.29	Shut-In(1)
75	458.98	110.62	End Shut-In(1)
76	27.69	110.55	Open To Flow (2)
107	30.11	111.35	Shut-In(2)
168	482.50	112.90	End Shut-In(2)
169	1910.66	113.33	Final Hydro-static

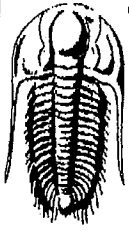
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100m (oil spots)	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54910

DST#: 2

ATTN: Steve Murphy

Test Start: 2014.06.01 @ 06:00:00

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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100m (oil spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

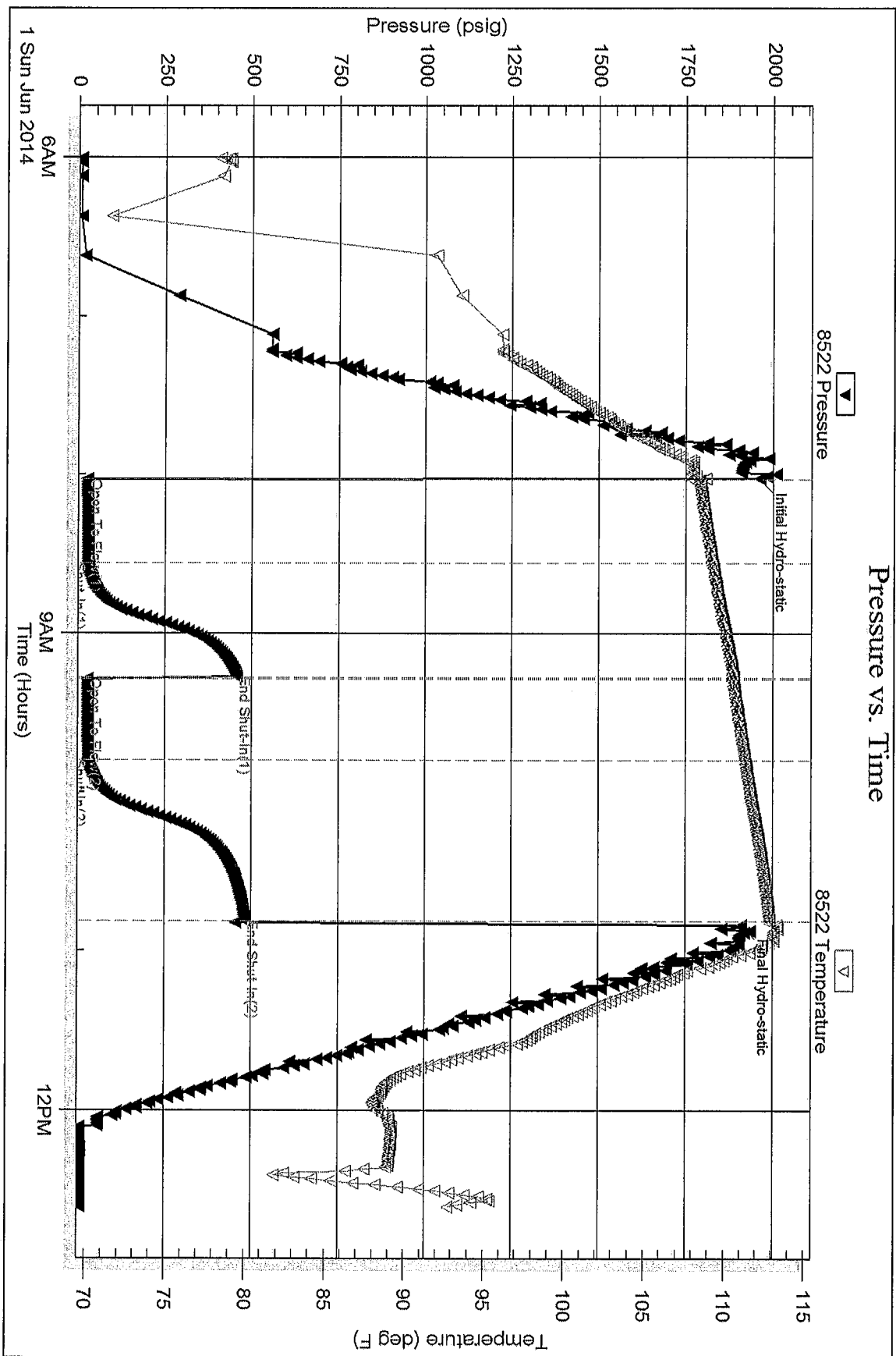
Recovery Comments:

Serial #: 8522

Outside Lario Oil & Gas Co.

Krapp #7-31

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54910

Printed: 2014.06.01 @ 20:32:46

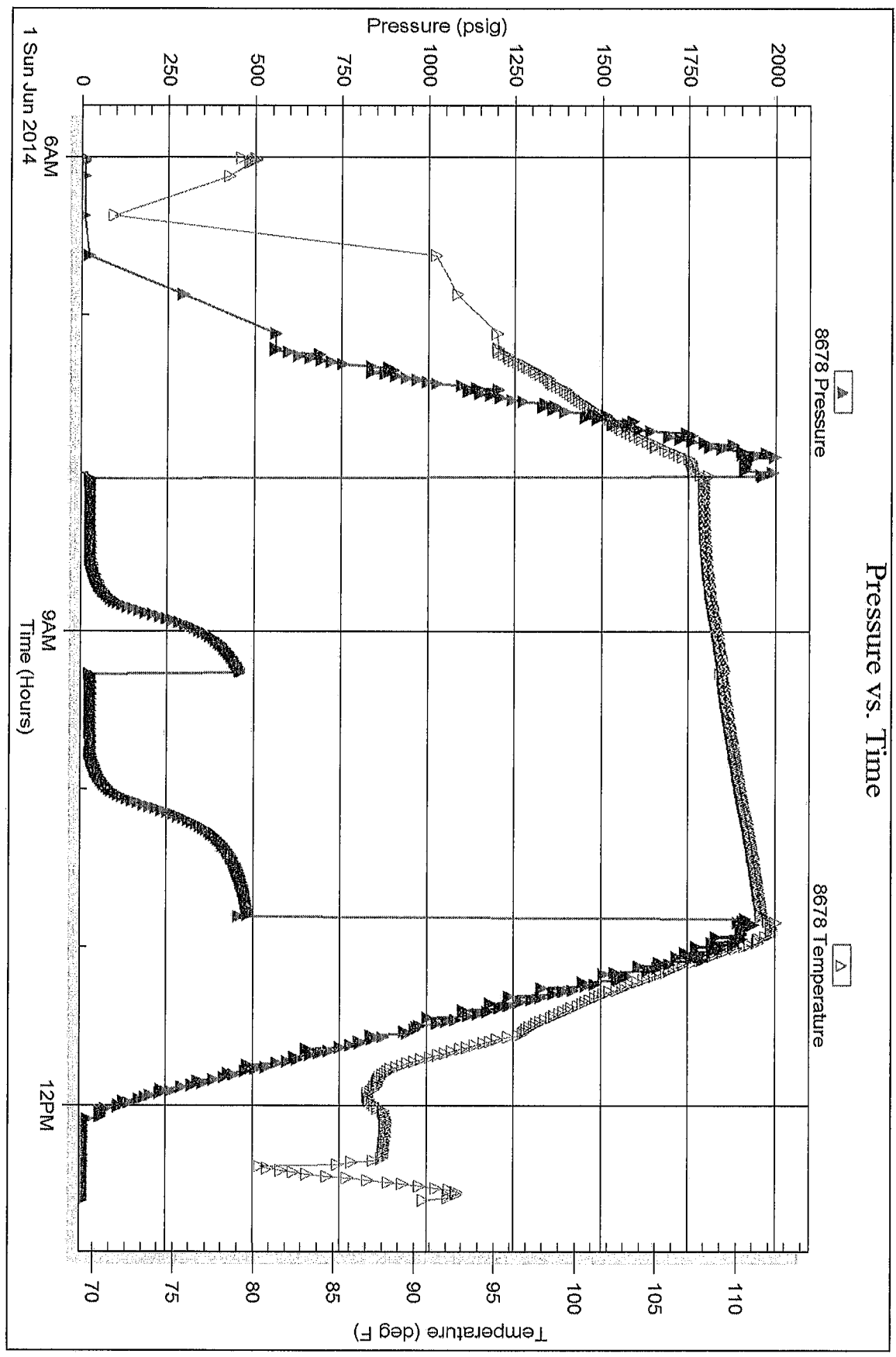
Serial #: 8678

Inside

Lario Oil & Gas Co.

Knapp #7-31

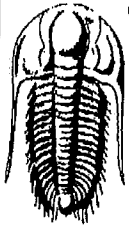
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54910

Printed: 2014.06.01 @ 20:32:46



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54911

DST#: 3

ATTN: Steve Murphy

Test Start: 2014.06.01 @ 22:11:00

GENERAL INFORMATION:

Formation: **LKC - H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:14:00

Time Test Ended: 04:50:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4094.00 ft (KB) To 4128.00 ft (KB) (TVD)**

Total Depth: 4128.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2924.00 ft (KB)

2919.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press@RunDepth: 77.71 psig @ 4095.00 ft (KB)

Start Date: 2014.06.01

End Date:

2014.06.02

Start Time: 22:11:05

End Time:

04:49:59

Capacity: 8000.00 psig

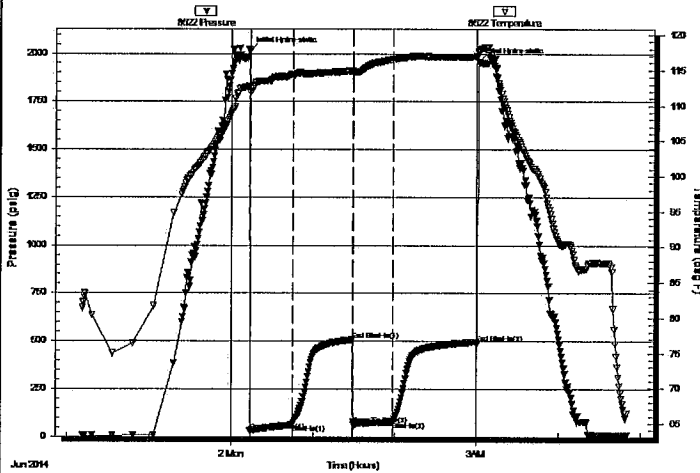
Last Calib.: 2014.06.02

Time On Btm: 2014.06.02 @ 00:13:45

Time Off Btm: 2014.06.02 @ 03:01:15

TEST COMMENT: 30: 9" blow .
45: No return.
30: 9" blow .
60: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2013.87	112.77	Initial Hydro-static
1	29.35	111.83	Open To Flow (1)
32	65.85	114.36	Shut-In(1)
76	508.19	114.91	End Shut-In(1)
76	63.63	114.77	Open To Flow (2)
105	77.71	116.54	Shut-In(2)
166	493.21	116.93	End Shut-In(2)
168	1957.16	117.64	Final Hydro-static

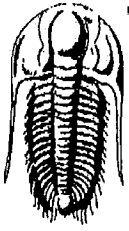
Recovery

Length (ft)	Description	Volume (bbl)
75.00	gocm 10g 20o 70m	0.37
60.00	gocm 20g 30o 50m	0.40
0.00	280' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54911

DST#: 3

ATTN: Steve Murphy

Test Start: 2014.06.01 @ 22:11:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	gocm 10g 20o 70m	0.369
60.00	gocm 20g 30o 50m	0.404
0.00	280' GIP	0.000

Total Length: 135.00 ft Total Volume: 0.773 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

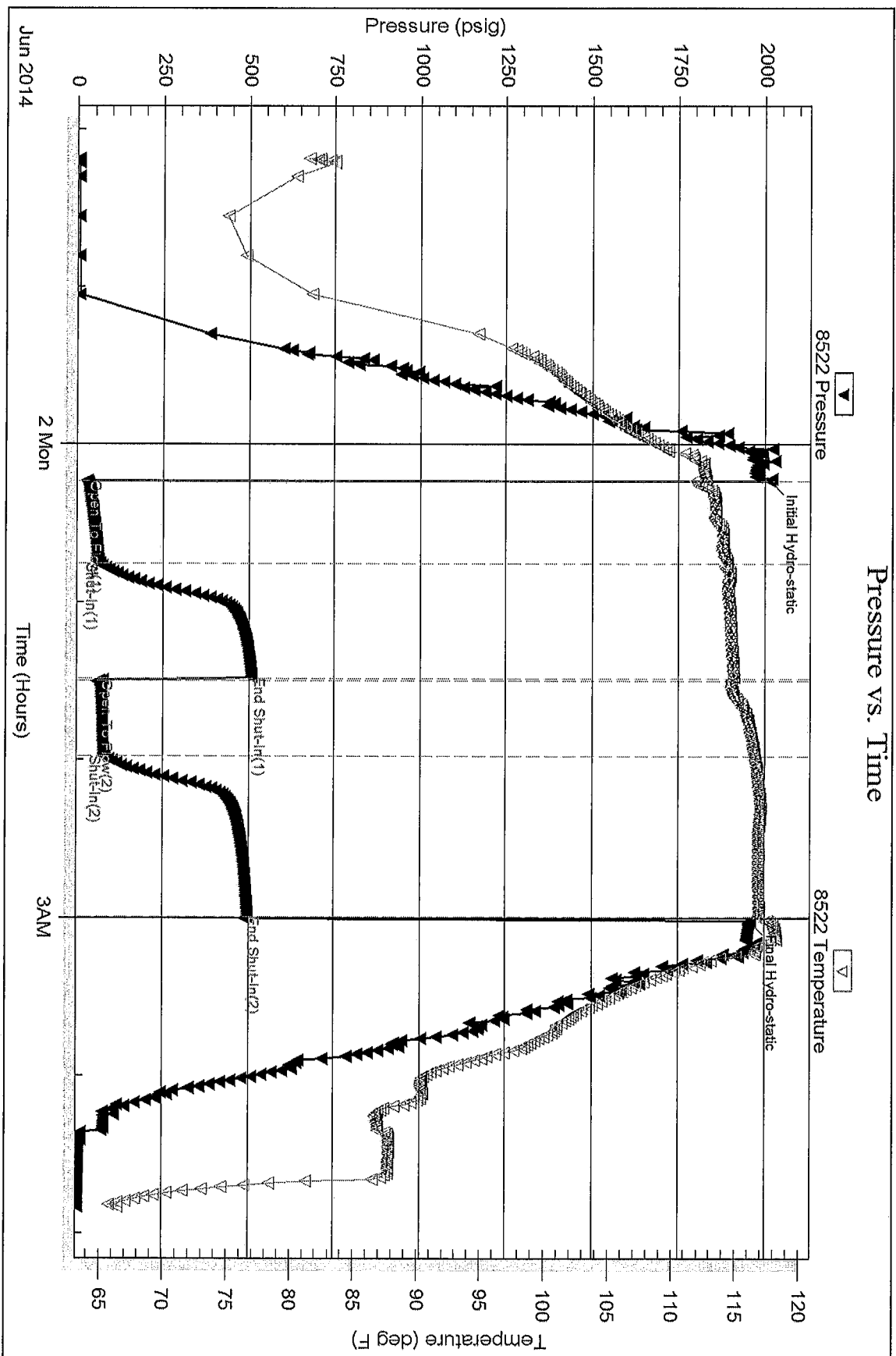
Recovery Comments:

Serial #: 8522

Outside Larjo Oil & Gas Co.

Krapp #7-31

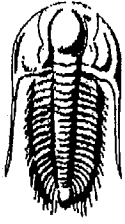
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 54911

Printed: 2014.06.02 @ 05:07:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54912

DST#: 4

ATTN: Steve Murphy

Test Start: 2014.06.02 @ 12:21:00

GENERAL INFORMATION:

Formation: **LKC - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:00:45

Time Test Ended: 20:06:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4150.00 ft (KB) To 4176.00 ft (KB) (TVD)**

Reference Elevations: 2924.00 ft (KB)

Total Depth: 4176.00 ft (KB) (TVD)

2919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522

Outside

Press@RunDepth: 180.08 psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.02

End Date:

2014.06.02

Last Calib.: 2014.06.02

Start Time: 12:21:05

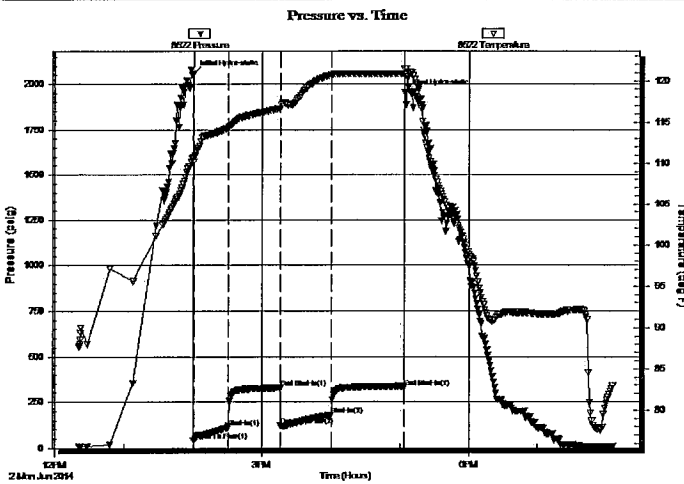
End Time:

20:06:29

Time On Btm: 2014.06.02 @ 14:00:30

Time Off Btm: 2014.06.02 @ 17:03:45

TEST COMMENT: 30: BOB @ 4 min.
45: 6" return, receded to 2".
45: BOB @ 7 min.
60: BOB return @ 15 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2056.39	110.74	Initial Hydro-static
1	40.43	110.18	Open To Flow (1)
30	110.88	114.34	Shut-In(1)
75	326.89	116.65	End Shut-In(1)
76	122.76	116.68	Open To Flow (2)
120	180.08	120.70	Shut-In(2)
183	328.00	120.86	End Shut-In(2)
184	1950.60	121.42	Final Hydro-static

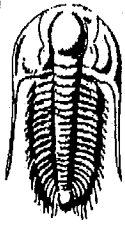
Recovery

Length (ft)	Description	Volume (bbl)
120.00	gocm 40g 30m 30o	0.59
330.00	gsmco 45g 5m 50o	4.60
0.00	2500' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54912

DST#: 4

ATTN: Steve Murphy

Test Start: 2014.06.02 @ 12:21:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 41 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gocm 40g 30m 30o	0.590
330.00	gsmco 45g 5m 50o	4.602
0.00	2500' GIP	0.000

Total Length: 450.00 ft Total Volume: 5.192 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

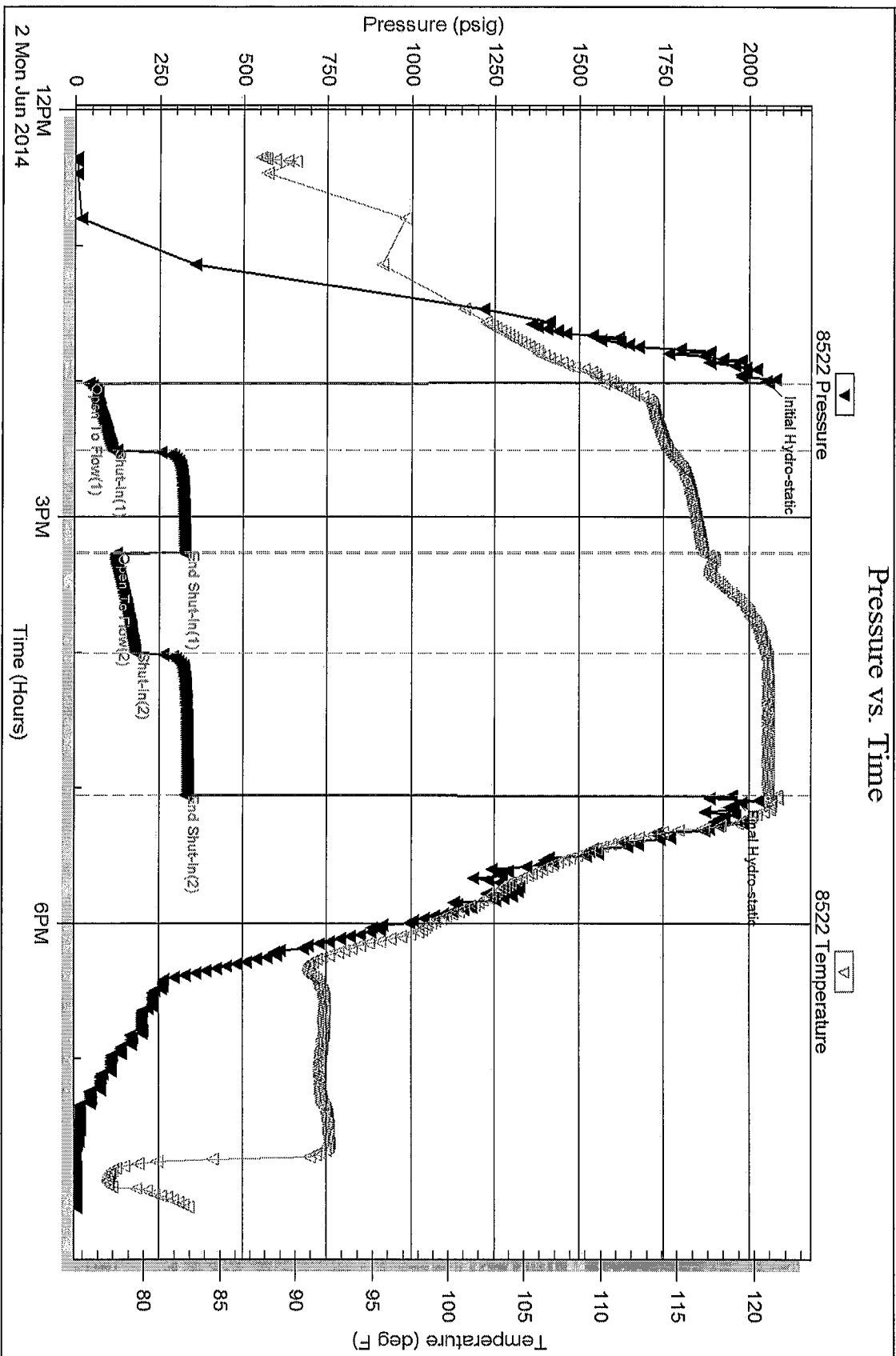
Serial #: 8522

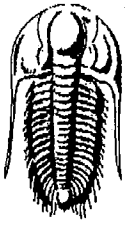
Outside Larfo Oil & Gas Co.

Knapp #7-31

DST Test Number: 4

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54913

DST#: 5

ATTN: Steve Murphy

Test Start: 2014.06.03 @ 08:15:00

GENERAL INFORMATION:

Formation: **LKC - L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:16:00

Time Test Ended: 17:39:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4234.00 ft (KB) To 4264.00 ft (KB) (TVD)**

Reference Elevations: 2924.00 ft (KB)

Total Depth: 4264.00 ft (KB) (TVD)

2919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522

Outside

Press@RunDepth: 809.86 psig @ 4235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.03

End Date: 2014.06.03

Last Calib.: 2014.06.03

Start Time: 08:15:05

End Time: 17:39:45

Time On Btm: 2014.06.03 @ 10:15:30

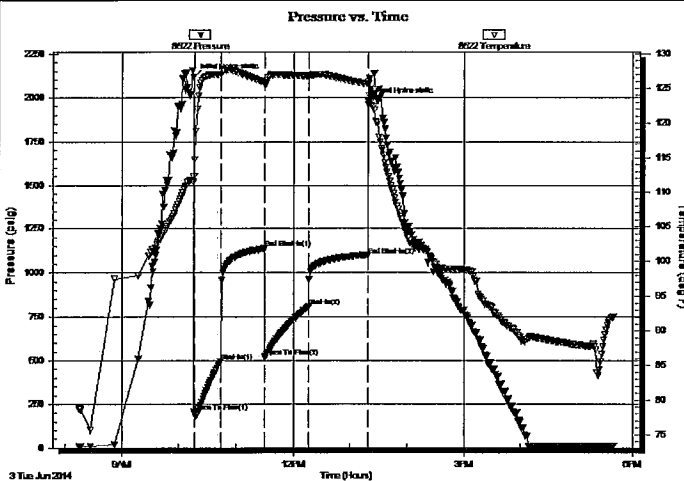
Time Off Btm: 2014.06.03 @ 13:19:15

TEST COMMENT: 30: BOB @ 30 sec.

45: 5" return.

45: BOB @ 30 sec.

60: 4" return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2115.71	111.53	Initial Hydro-static
1	205.96	112.30	Open To Flow (1)
29	494.55	127.03	Shut-In(1)
75	1138.14	125.86	End Shut-In(1)
75	519.39	125.55	Open To Flow (2)
121	809.86	126.77	Shut-In(2)
183	1099.45	125.61	End Shut-In(2)
184	1976.07	125.66	Final Hydro-static

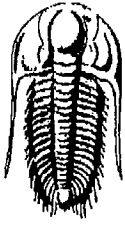
Recovery

Length (ft)	Description	Volume (bbl)
180.00	gmco 30g 20m 50o	1.40
2240.00	gsmco 38g 2m 60o	31.42
0.00	850' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54913

DST#: 5

ATTN: Steve Murphy

Test Start: 2014.06.03 @ 08:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	gmco 30g 20m 50o	1.404
2240.00	gsmco 38g 2m 60o	31.421
0.00	850' GIP	0.000

Total Length: 2420.00 ft Total Volume: 32.825 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

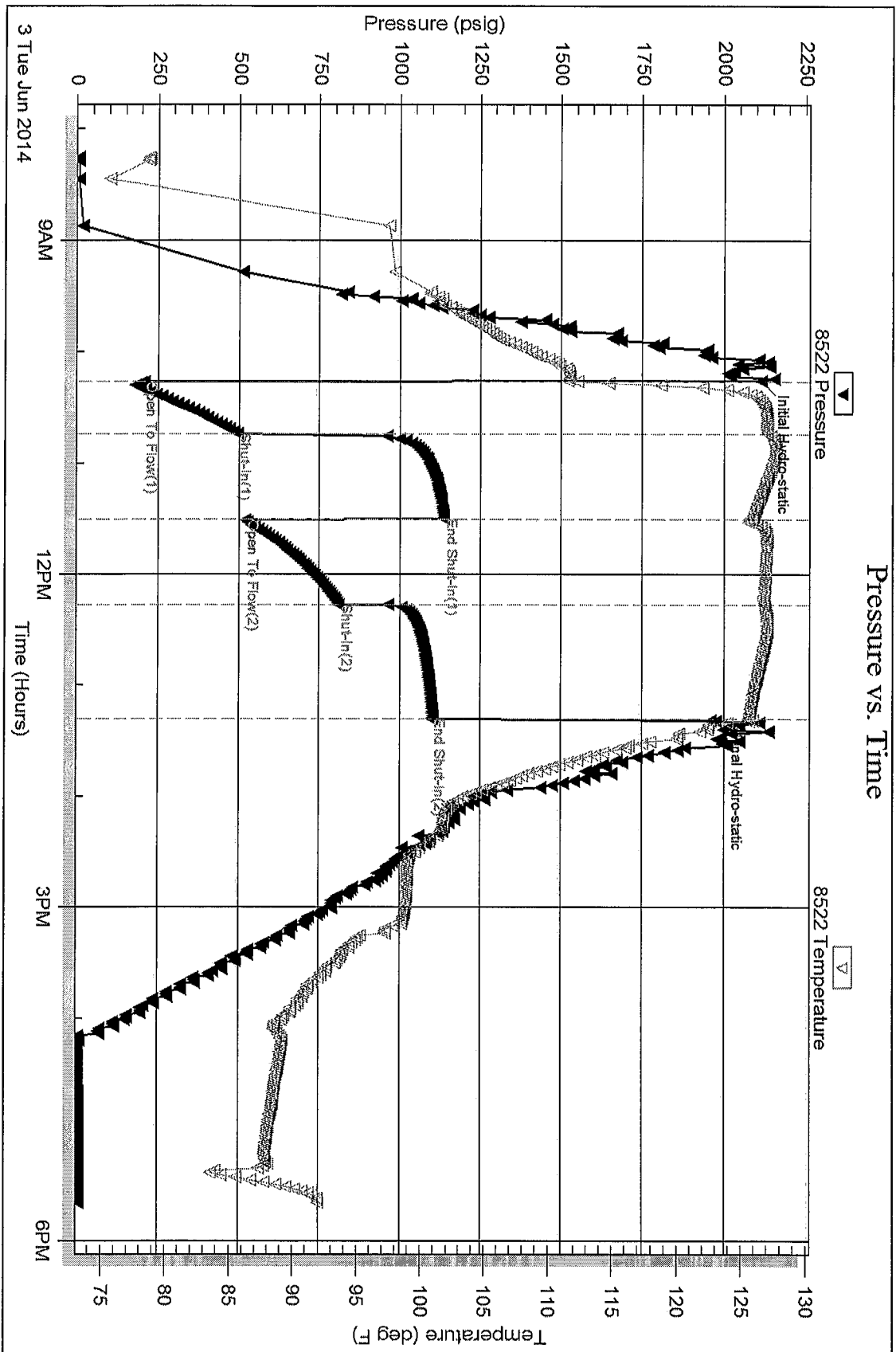
Serial #: 8522

Outside Larjo Oil & Gas Co.

Knapp #7-31

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 54913

Printed: 2014.06.03 @ 20:28:11

Serial #: 8678

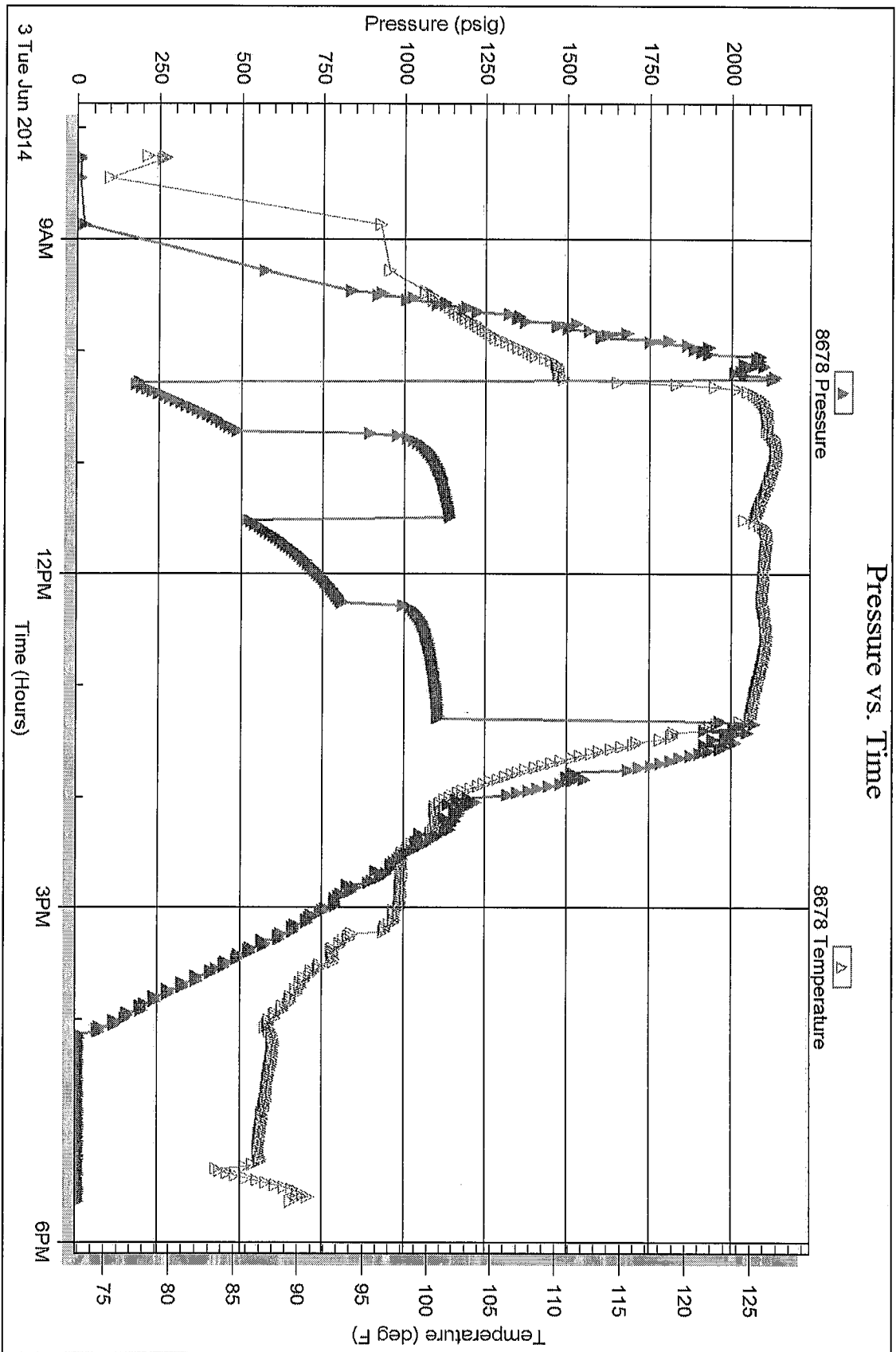
Inside

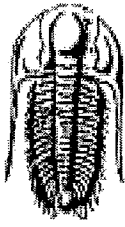
Larfo Oil & Gas Co.

Knapp #7-31

DST Test Number: 5

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54914

DST#: 6

ATTN: Steve Murphy

Test Start: 2014.06.04 @ 14:58:00

GENERAL INFORMATION:

Formation: **Ft Scott - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:15:30

Time Test Ended: 22:38:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4410.00 ft (KB) To 4468.00 ft (KB) (TVD)**

Total Depth: 4468.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2924.00 ft (KB)

2919.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8522

Outside

Press@RunDepth: 129.20 psig @ 4411.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.04

End Date:

2014.06.04

Last Calib.: 2014.06.04

Start Time: 14:58:05

End Time:

22:37:59

Time On Btm: 2014.06.04 @ 17:15:15

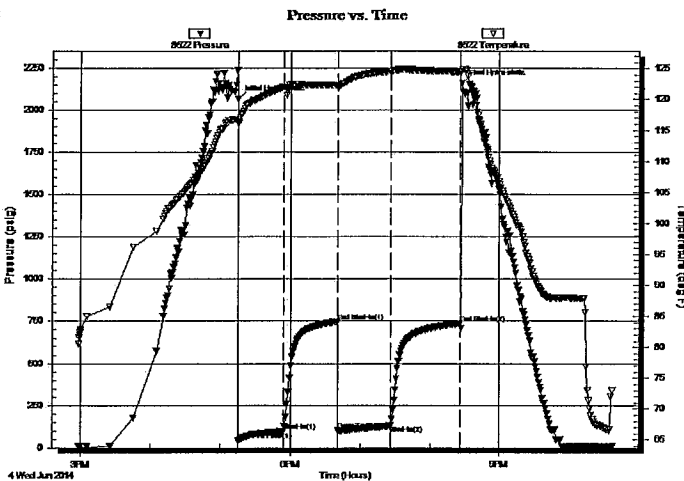
Time Off Btm: 2014.06.04 @ 20:27:45

TEST COMMENT: 30: 2" blow . mud dropped 5' durring 8' slide to bottom

45: No return.

45: 3 1/2" blow .

60: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2067.25	116.43	Initial Hydro-static
1	43.82	116.13	Open To Flow (1)
39	97.39	122.05	Shut-In(1)
86	748.78	122.30	End Shut-In(1)
86	104.61	121.96	Open To Flow (2)
131	129.20	124.61	Shut-In(2)
191	737.24	124.52	End Shut-In(2)
193	2161.16	124.93	Final Hydro-static

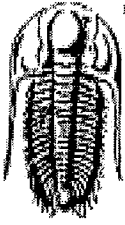
Recovery

Length (ft)	Description	Volume (bbl)
120.00	omcw 2o 30m 68w	0.59
70.00	gw ocm 10g 10w 20o 60m	0.95
20.00	oil 100o	0.28
0.00	210' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54914

DST#: 6

ATTN: Steve Murphy

Test Start: 2014.06.04 @ 14:58:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 60000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	omcw 2o 30m 68w	0.590
70.00	gw ocm 10g 10w 20o 60m	0.955
20.00	oil 100o	0.281
0.00	210' GIP	0.000

Total Length: 210.00 ft Total Volume: 1.826 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .152 @ 63F = 60,000ppm

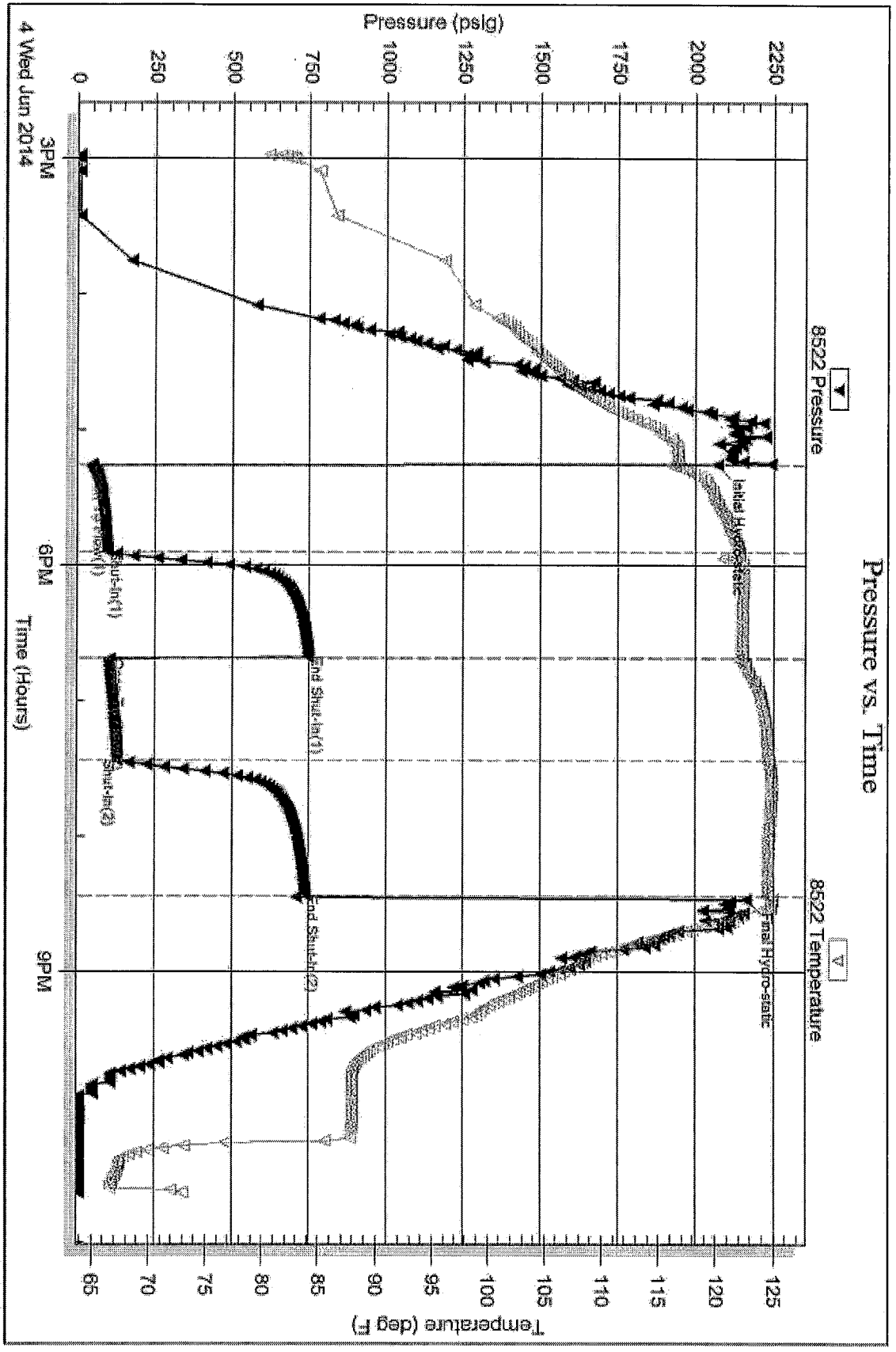
Serial #: 8522

Outside Larjo Oil & Gas Co.

Knapp #7-31

DST Test Number: 6

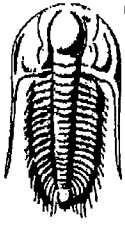
Pressure vs. Time



Tribble Testing, Inc

Ref. No: 54914

Printed: 2014 06 05 @ 07:47:39



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54915

DST#: 7

ATTN: Steve Murphy

Test Start: 2014.06.05 @ 10:18:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:24:00

Time Test Ended: 17:14:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4474.00 ft (KB) To 4538.00 ft (KB) (TVD)**

Reference Elevations: 2924.00 ft (KB)

Total Depth: 4538.00 ft (KB) (TVD)

2919.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press@RunDepth: 44.24 psig @ 4475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.05 End Date: 2014.06.05

Last Calib.: 2014.06.05

Start Time: 10:18:05 End Time: 17:13:59

Time On Btm: 2014.06.05 @ 12:23:30

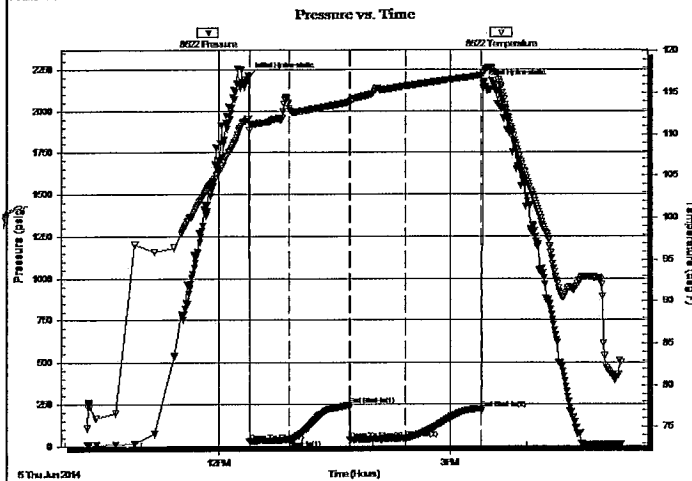
Time Off Btm: 2014.06.05 @ 15:25:45

TEST COMMENT: IF: Surface blow, died @ 11 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2210.23	111.86	Initial Hydro-static
1	27.00	110.51	Open To Flow (1)
31	36.17	113.13	Shut-In(1)
78	245.95	113.86	End Shut-In(1)
79	39.44	113.81	Open To Flow (2)
122	44.24	115.78	Shut-In(2)
181	221.61	117.09	End Shut-In(2)
183	2164.53	117.41	Final Hydro-static

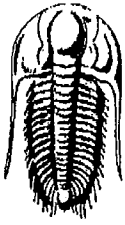
Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100m (oil spots)	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

Job Ticket: 54915

DST#: 7

ATTN: Steve Murphy

Test Start: 2014.06.05 @ 10:18:00

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100m (oil spots)	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8522

Outside Larjo Oil & Gas Co.

Kriapp #7-31

DST Test Number: 7

Pressure vs. Time

