

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						

Customer: Lario Oil & Gas
Oakley S to Navaho
to 10
5 to L...
first road
6/16

TRUCK #	DRIVER	TRUCK #	DRIVER
572	Michael R		
460	Jake H		
399	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 celler 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	4653 ⁰⁰ ✓
118b	330 ⁰⁰	gel	22	891 ⁰⁰ ✓
subtotal				5433 ¹⁵
less disc 15%				814 ⁹⁸ ✓
subtotal				4618 ¹⁷
SALES TAX				255.21 ✓
ESTIMATED TOTAL				4873.38 ✓

completed

Ravin 3737

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)	567 ⁰⁰	567 ⁰⁰
4130	15	5 1/2 centralizers (w)	61 ⁰⁰	915 ⁰⁰
4104	1	5 1/2 basket (w)	290 ⁰⁰	290 ⁰⁰
4277A	1	5 1/2 DV Tool (w)	4900 ⁰⁰	4900 ⁰⁰
			subtotal	24353.12
			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

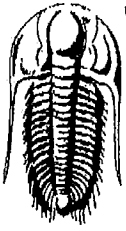
TAX INCLUDED AT INVOICING

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

Capacity: 8000.00 psig

Last Calib.: 2014.05.31

Start Time: 15:48:05

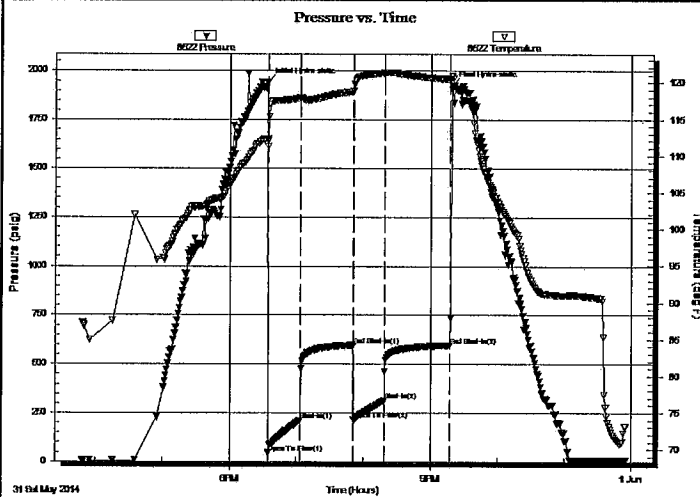
End Time:

23:54:44

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

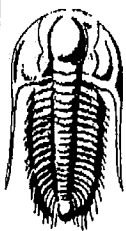
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.59	112.34	Initial Hydro-static
1	42.32	111.28	Open To Flow (1)
29	210.59	117.88	Shut-In(1)
77	594.89	118.78	End Shut-In(1)
77	214.42	118.76	Open To Flow (2)
105	312.85	121.27	Shut-In(2)
163	595.97	120.44	End Shut-In(2)
165	1926.35	120.87	Final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

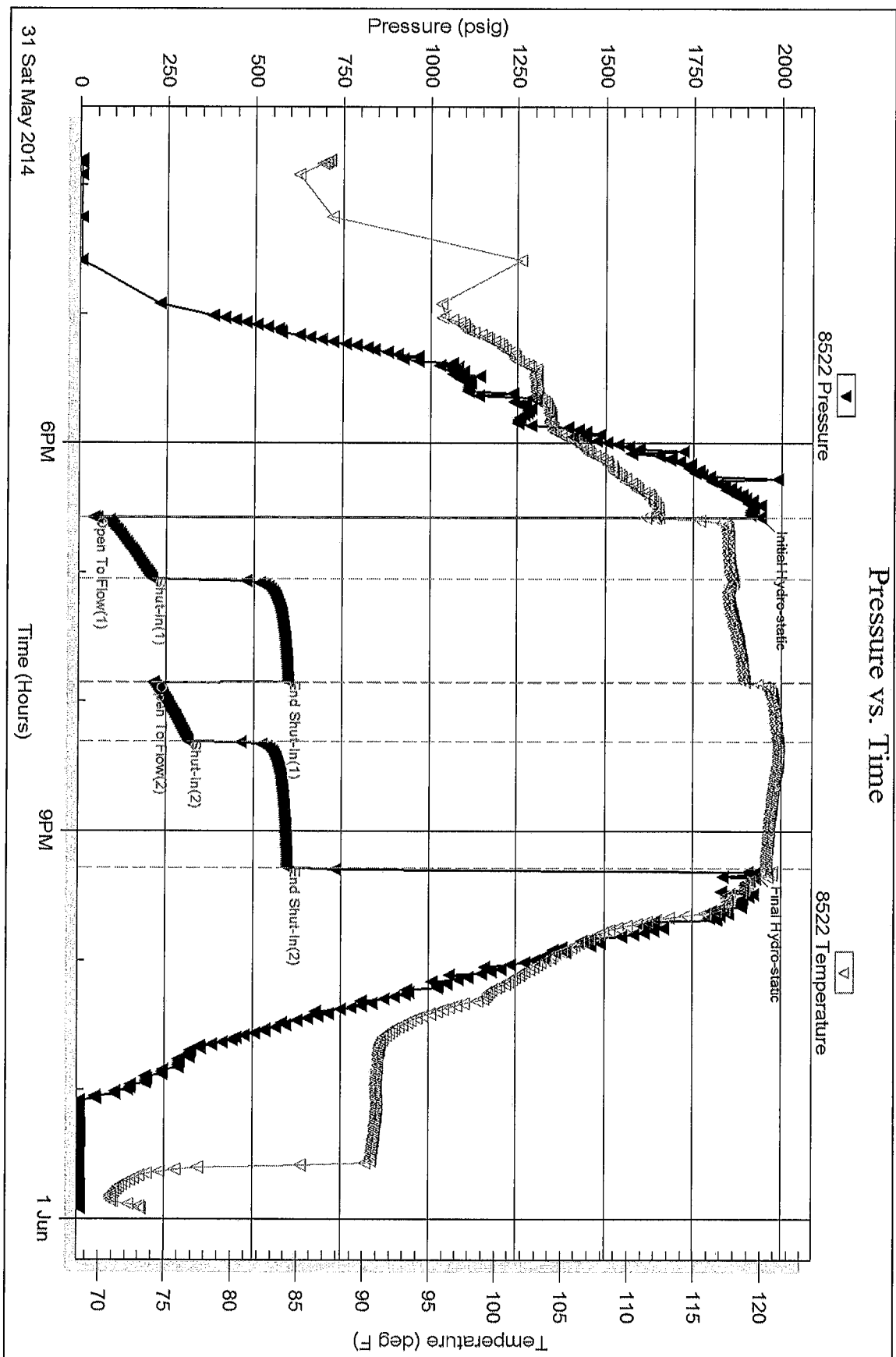
Recovery Comments: rw is .099 @ 67F = 77000ppm

Serial #: 8522

Outside Larro Oil & Gas Co.

Knapp #7-31

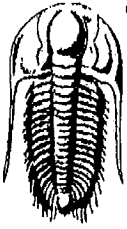
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54909

Printed: 2014.06.01 @ 05:45:03



**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)**

Total Depth: 4040.00 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: 30.11 psig @ 4023.00 ft (KB)

Start Date: 2014.06.01 End Date: 2014.06.01

Start Time: 06:00:05 End Time: 12:36:44

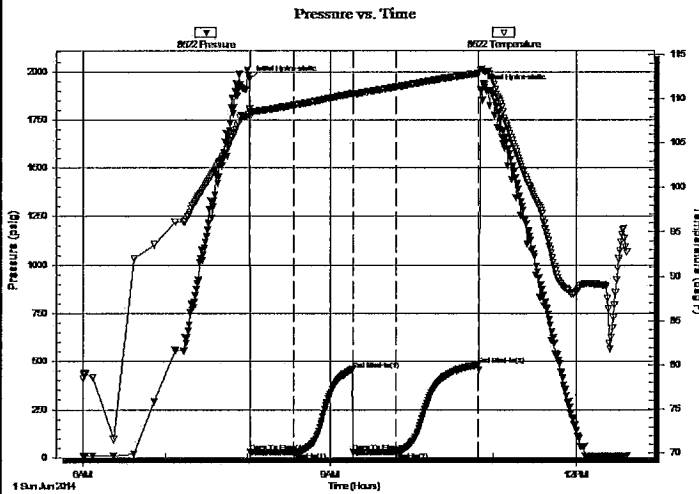
Capacity: 8000.00 psig

Last Calib.: 2014.06.01

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

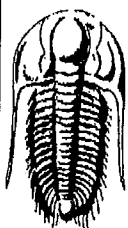
Recovery

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

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)**

Total Depth: 4040.00 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 #: 8678

Inside

Press@RunDepth: psig @ 4023.00 ft (KB)

Start Date: 2014.06.01

End Date:

2014.06.01

Start Time: 06:00:05

End Time:

12:35:44

Capacity: 8000.00 psig

Last Callb.: 2014.06.01

Time On Btm:

Time Off Btm:

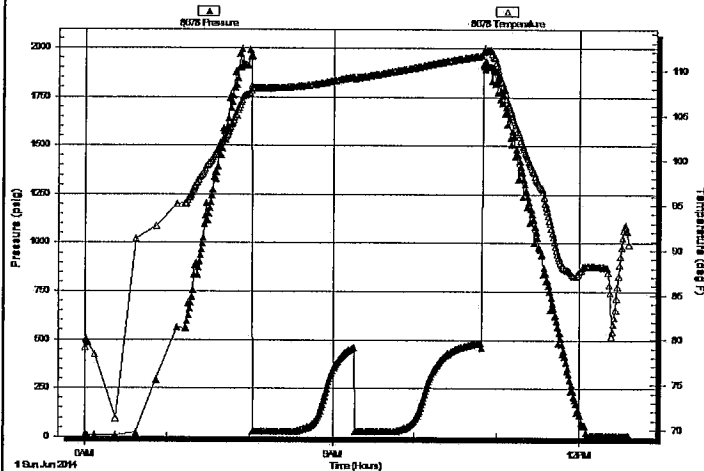
TEST COMMENT: 30: Surface blow, Died @ 20 min.

45: No return.

30: No blow.

60: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

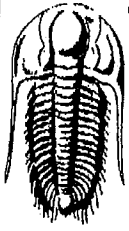
Recovery

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:

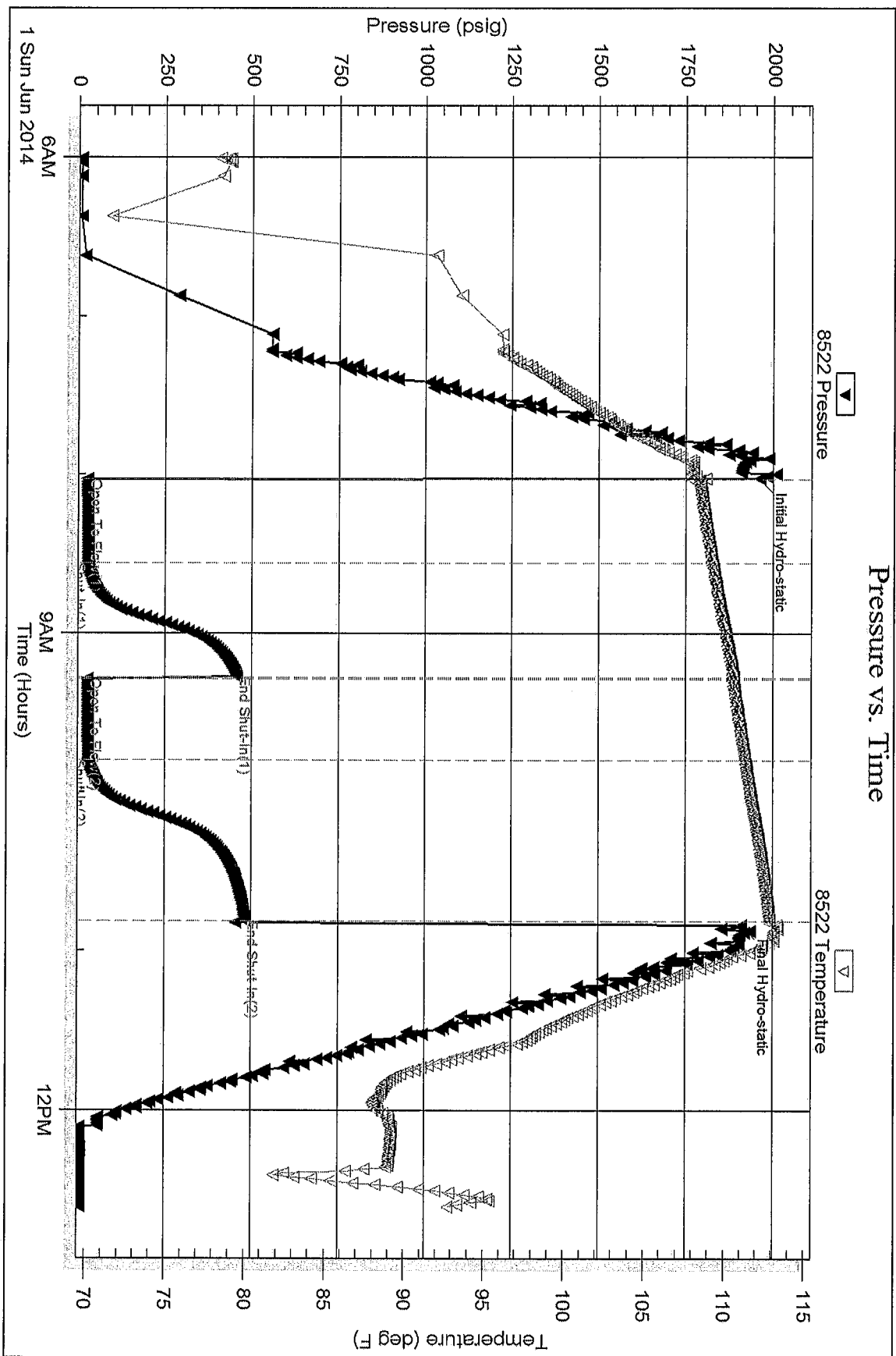
Recovery Comments:

Serial #: 8522

Outside Lario Oil & Gas Co.

Krapp #7-31

DST Test Number: 2



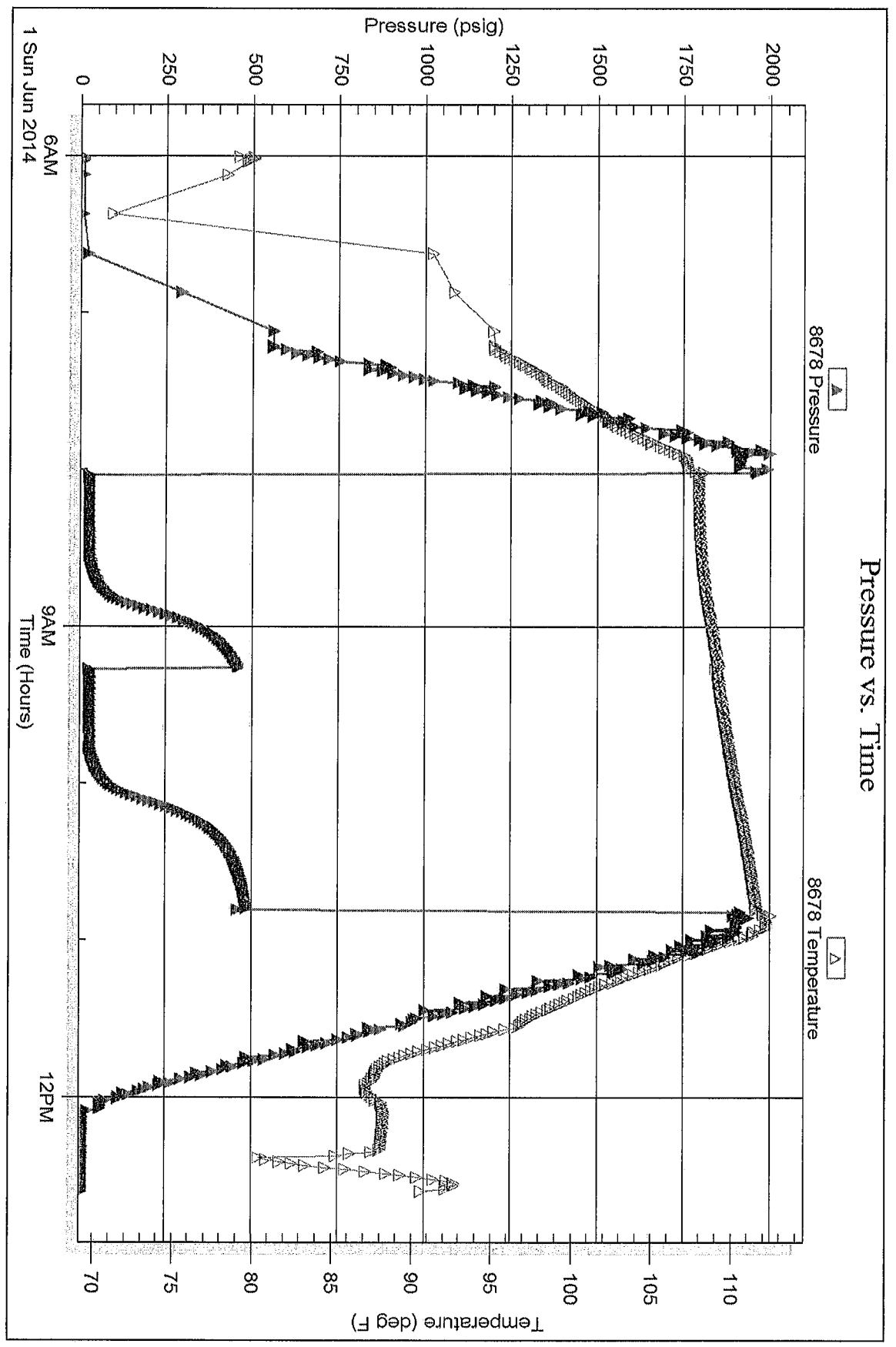
Serial #: 8678

Inside

Lario Oil & Gas Co.

Knapp #7-31

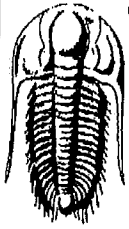
DST Test Number: 2



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

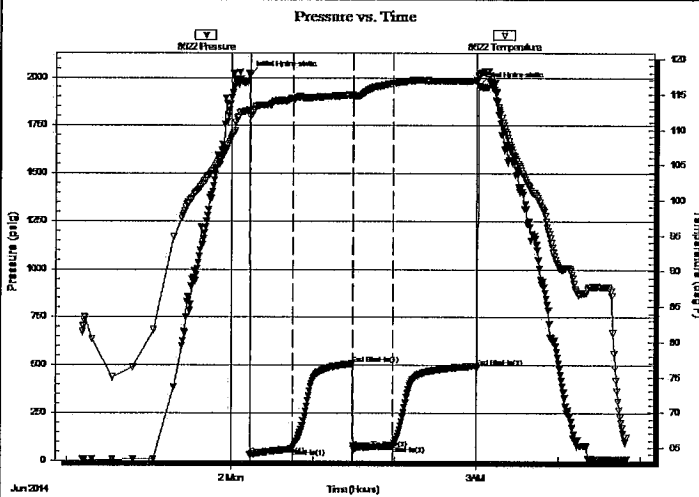
Capacity: 8000.00 psig

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 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

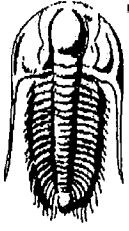
Recovery

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: bbl		
Water Loss: 7.20 in ³	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:

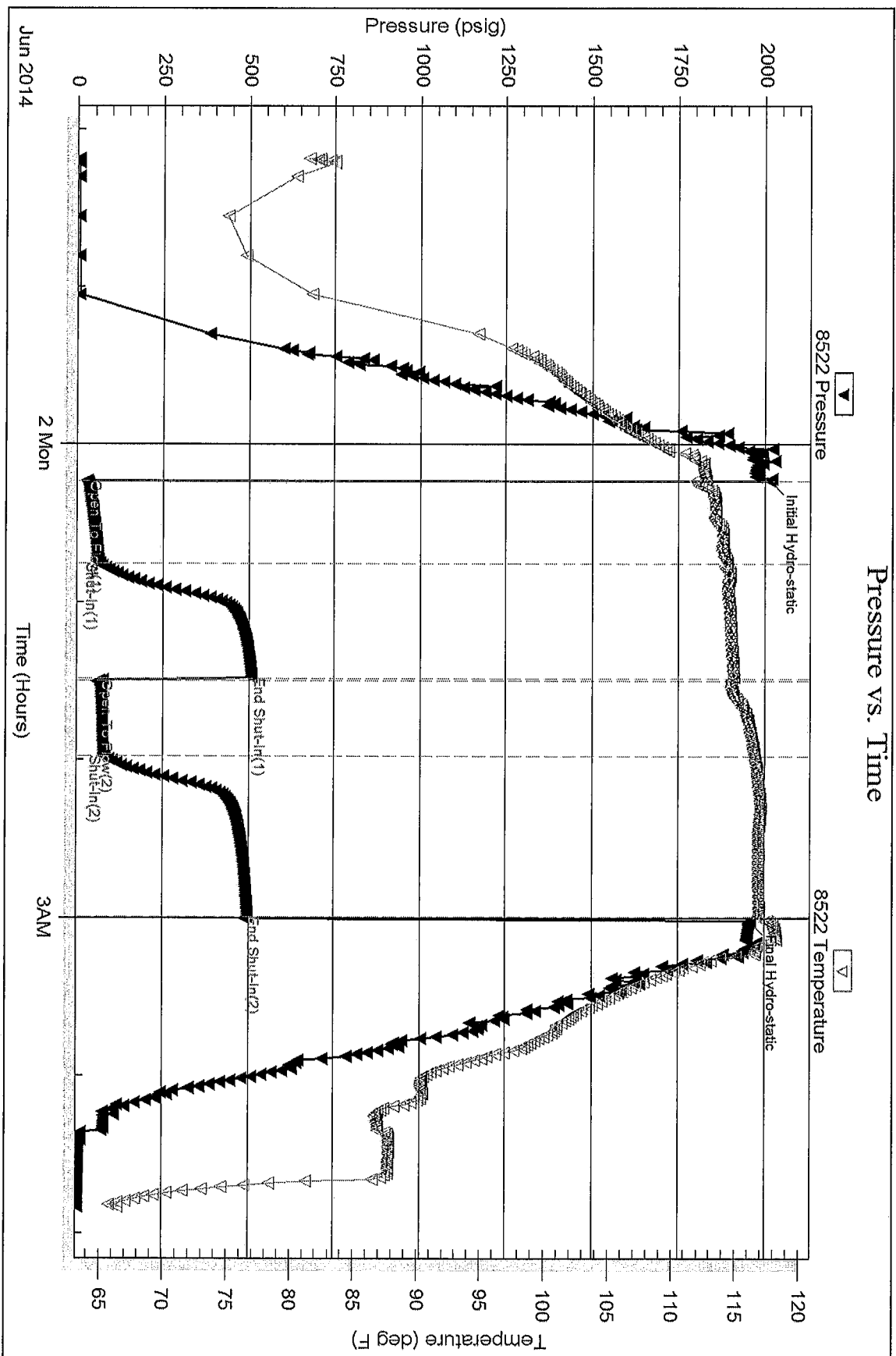
Serial #: 8522

Outside

Lario Oil & Gas Co.

Krapp #7-31

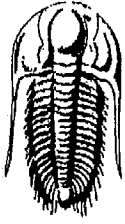
DST Test Number: 3



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

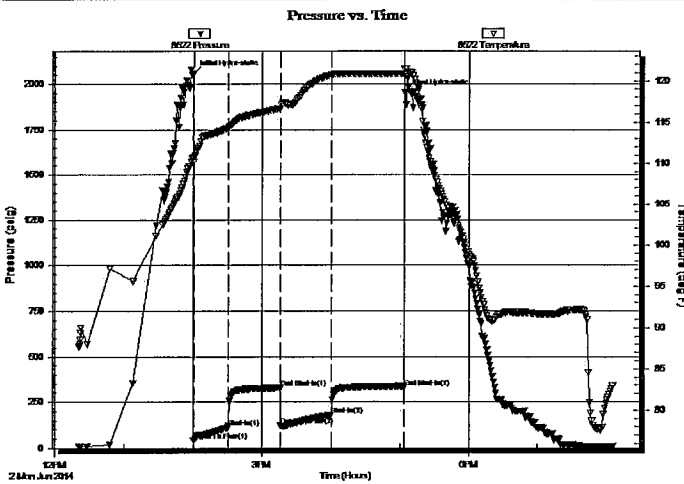
End Time:

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

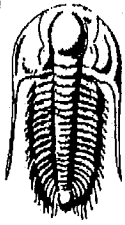
Recovery

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:	bbbl		
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 bbbl
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:

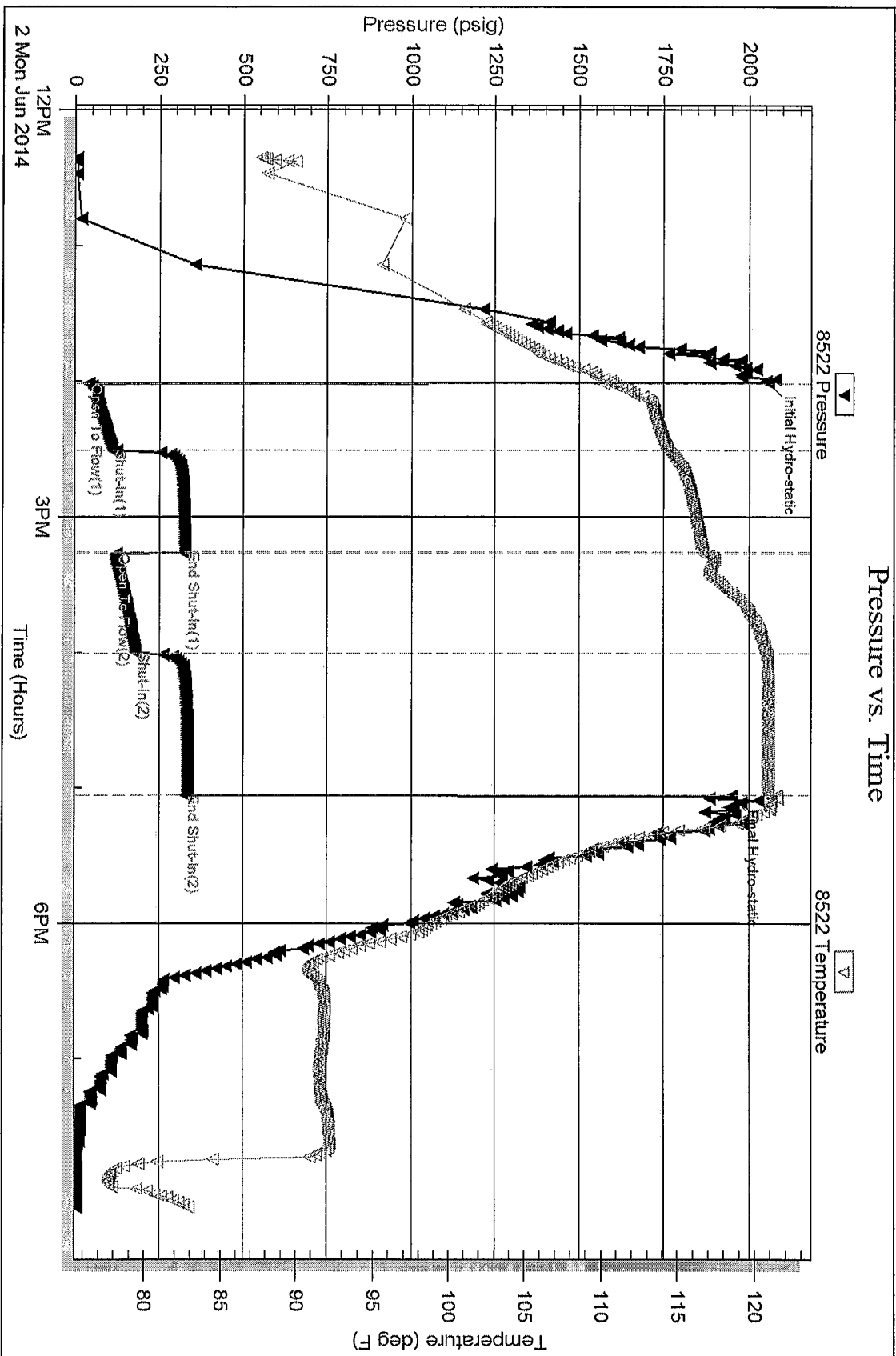
Serial #: 8522

Outside Larfo Oil & Gas Co.

Knapp #7-31

DST Test Number: 4

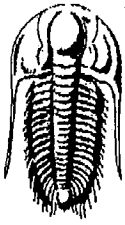
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 54912

Printed: 2014.06.02 @ 23:17:43



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

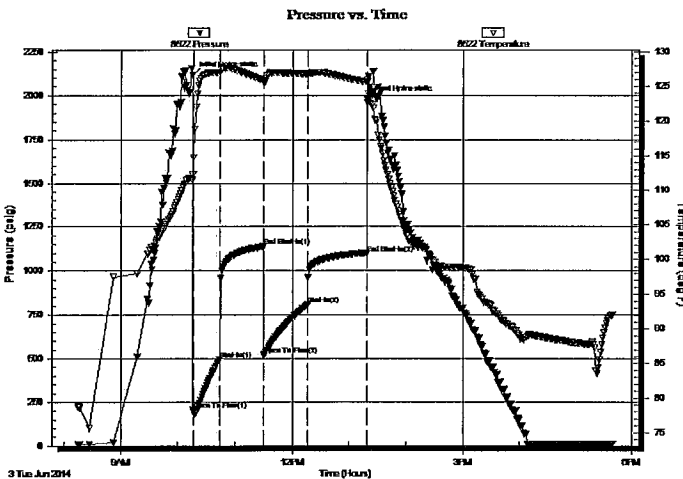
Time Off Btm: 2014.06.03 @ 13:19:15

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

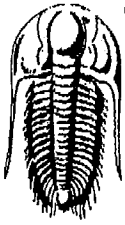
Recovery

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

Lario Oil & Gas Co.

31 13s 31w Gove, Ks

301 S Market St.
Wichita Ks 67202

Knapp #7-31

ATTN: Steve Murphy

Job Ticket: 54913

DST#: 5

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 #: 8678

Inside

Press@RunDepth: 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

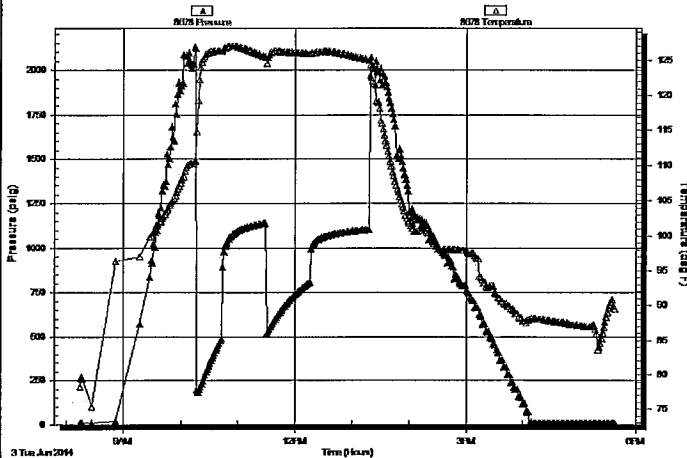
End Time: 17:38:15

Time On Btm:

Time Off Btm:

TEST COMMENT: 30: BOB @ 30 sec.
45: 5" return.
45: BOB @ 30 sec.
60: 4" return.

Pressure vs. Time



PRESSURE SUMMARY

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

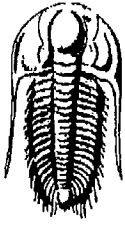
Recovery

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

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: 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:

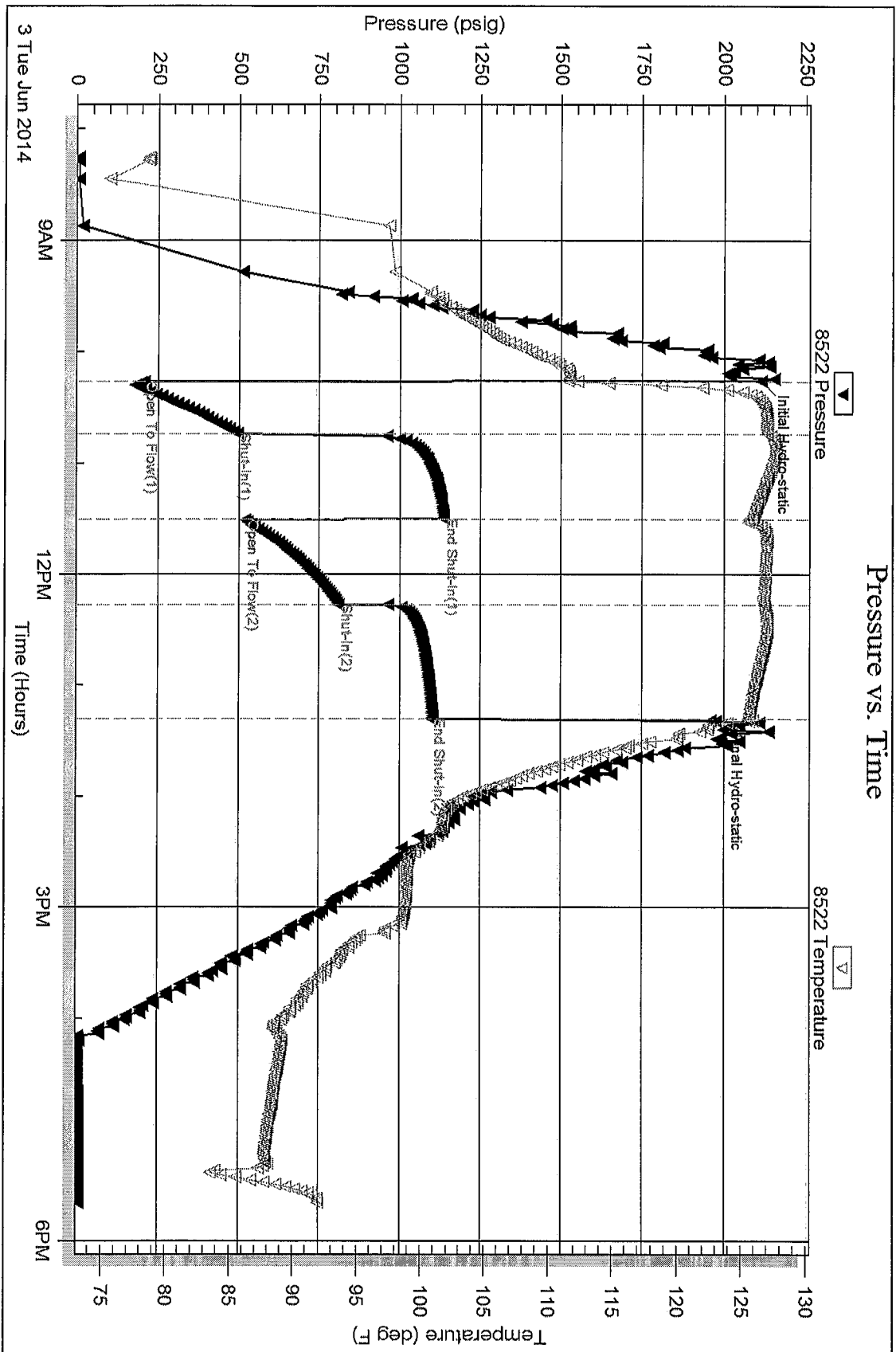
Serial #: 8522

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

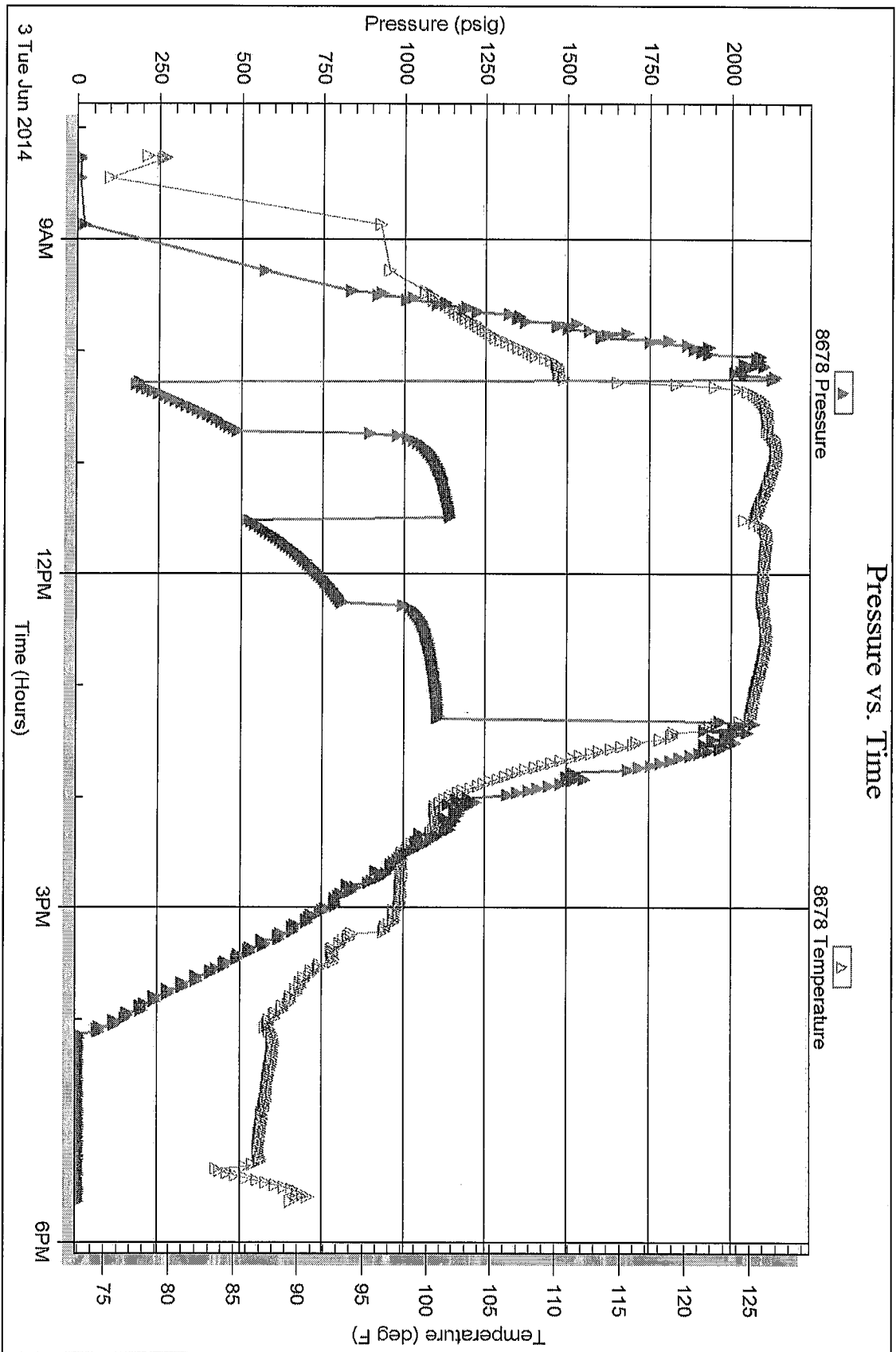
Inside

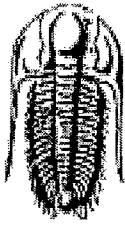
Larfo Oil & Gas Co.

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)

Start Date: 2014.06.04

End Date:

2014.06.04

Start Time: 14:58:05

End Time:

22:37:59

Capacity: 8000.00 psig

Last Calib.: 2014.06.04

Time On Btm: 2014.06.04 @ 17:15:15

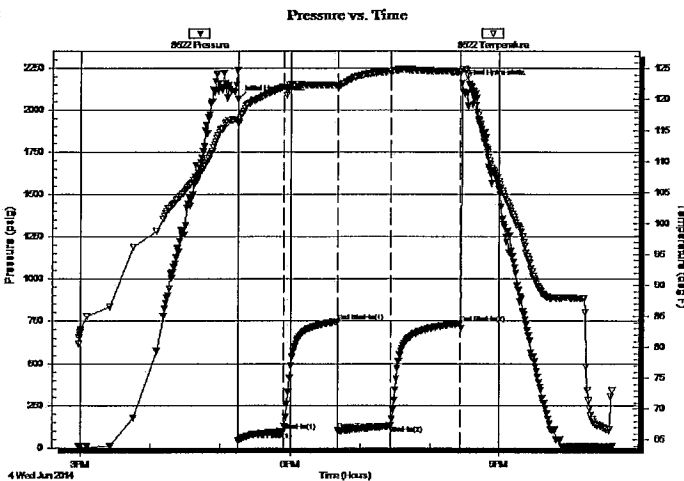
Time Off Btm: 2014.06.04 @ 20:27:45

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

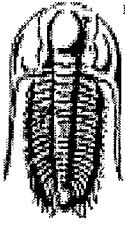
Recovery

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

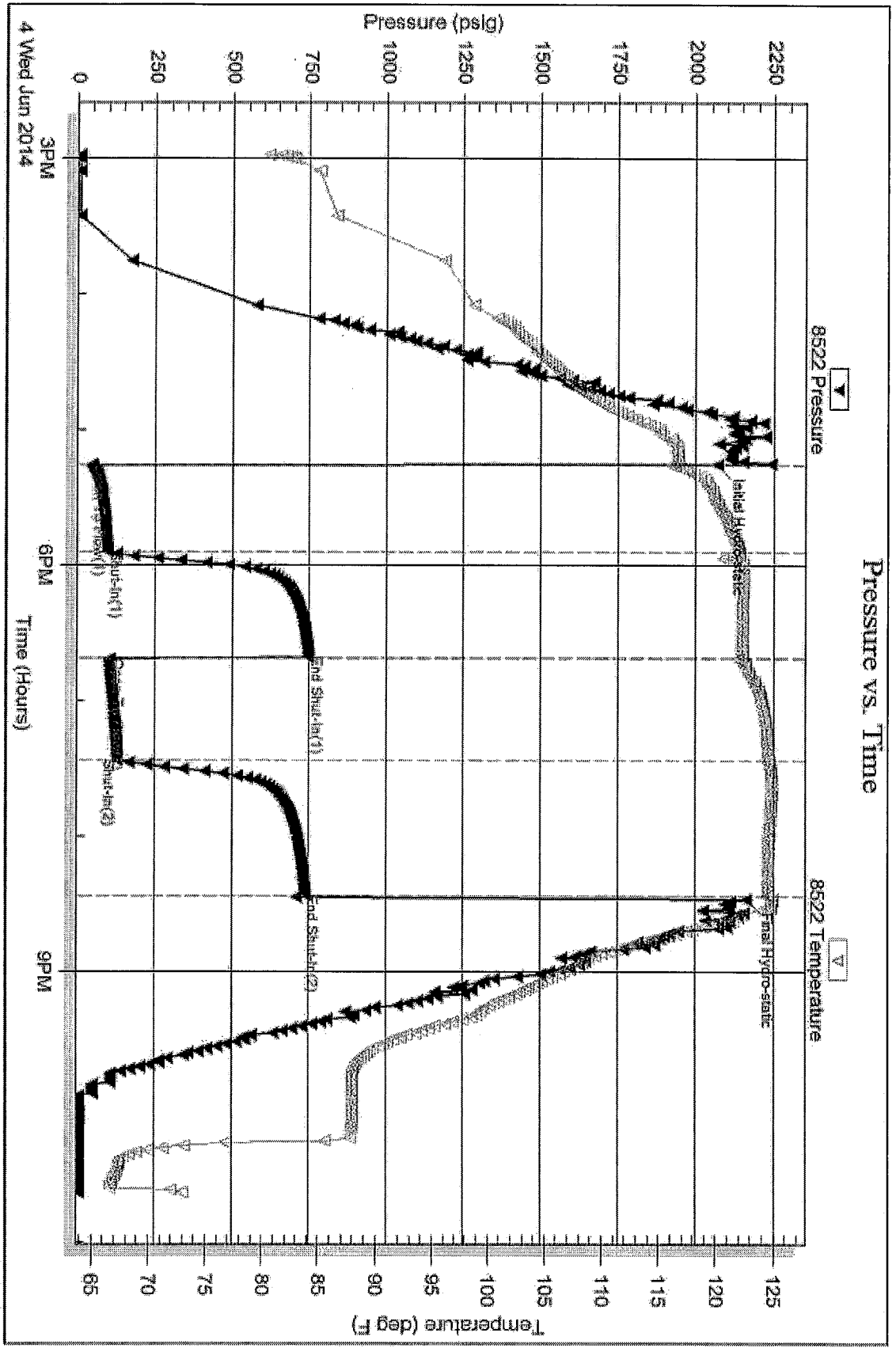
Serial #: 8522

Outside Larjo Oil & Gas Co.

Knapp #7-31

DST Test Number: 6

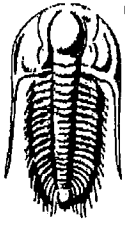
Pressure vs. Time



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

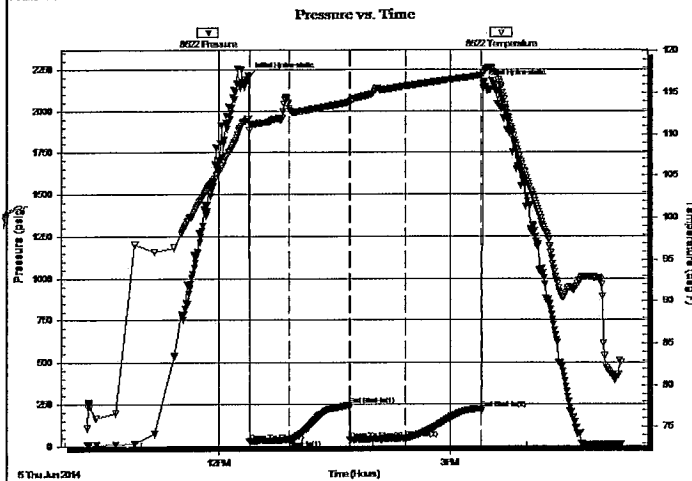
Time Off Btm: 2014.06.05 @ 15:25:45

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

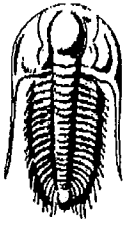
Recovery

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

* 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: 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:

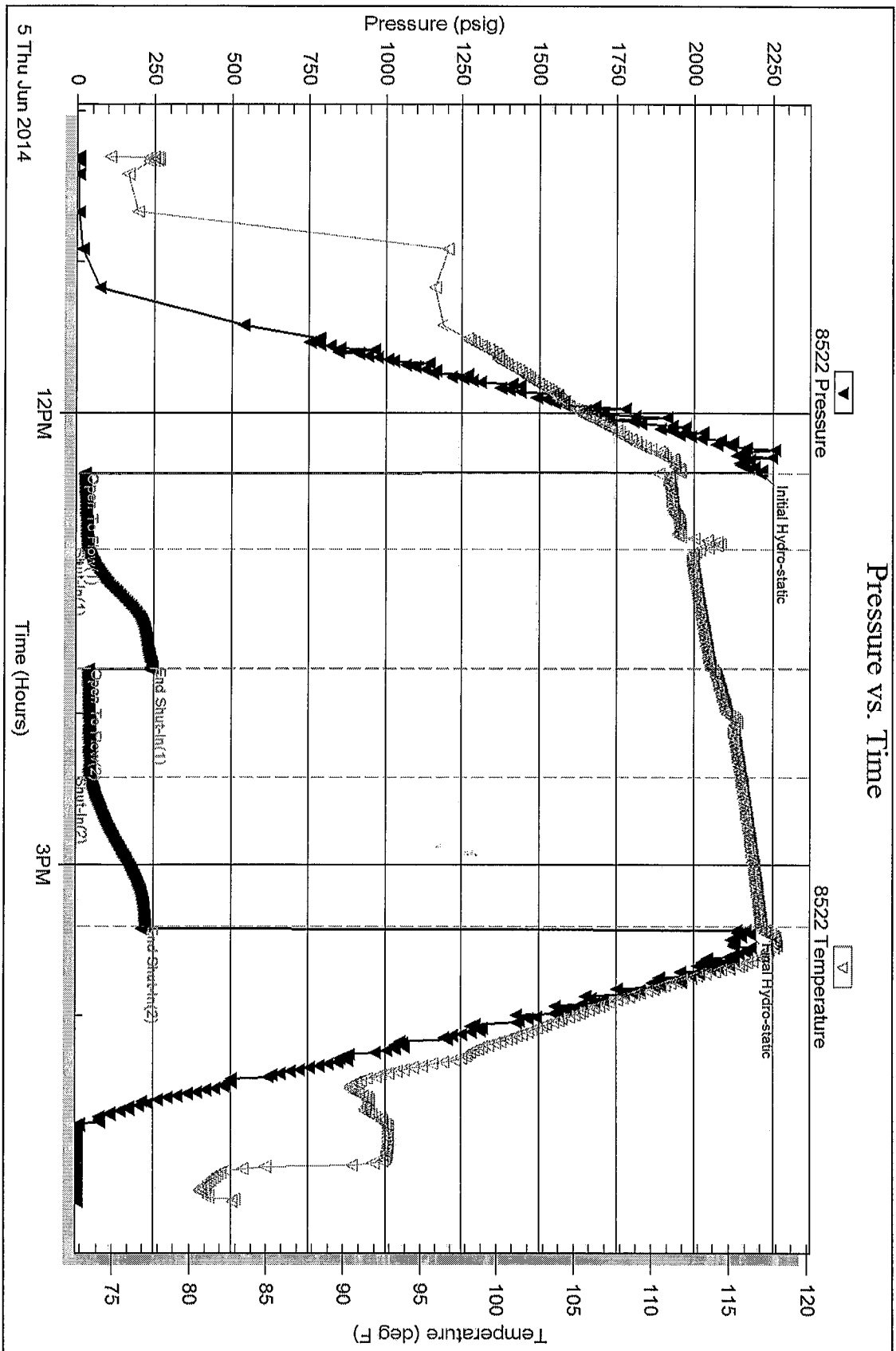
Serial #: 8522

Outside Larjo Oil & Gas Co.

Kriapp #7-31

DST Test Number: 7

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 54915

Printed: 2014.06.05 @ 23:02:06