

15-063-21657

31-12s-3lw



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas Company**

301 S Market
Wichita KS 67202

ATTN: Brad Rine

31 12 ³¹34W Gove KS

Ziegler Trust 1-31

Start Date: 2007.05.25 @ 07:16:01

End Date: 2007.05.25 @ 13:52:55

Job Ticket #: 27676

DST #: 1

CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 19 2009

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Lario Oil & Gas Company

Ziegler Trust 1-31

31 12 ³¹34W Gove KS

DST # 1

Johnson

2007.05.25

Range is 3lw, not 34w as printed



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Lario Oil & Gas Company

301 S Market
Wichita KS 67202

ATTN: Brad Rine

Ziegler Trust 1-31

31 12 34W Gove KS

Job Ticket: 27676

DST#: 1

Test Start: 2007.05.25 @ 07:16:01

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 09:19:26

Time Test Ended: 13:52:55

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4526.00 ft (KB) To 4575.00 ft (KB) (TVD)**

Total Depth: **4575.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2961.00 ft (KB)**

2956.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **19.32 psig @ 4527.00 ft (KB)**

Start Date: **2007.05.25**

End Date:

2007.05.25

Start Time: **07:16:01**

End Time:

13:52:55

Capacity: **7000.00 psig**

Last Calib.: **2007.05.25**

Time On Btm: **2007.05.25 @ 09:18:56**

Time Off Btm: **2007.05.25 @ 11:49:55**

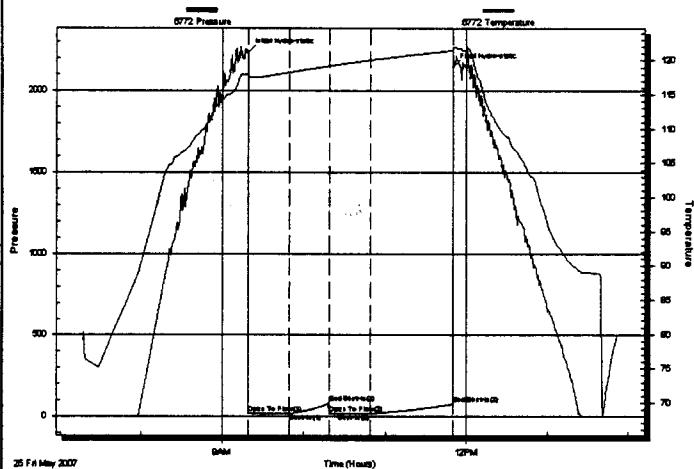
TEST COMMENT: IF 1/4 blow died in 9 min.

IS No return

FF No blow

FS No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.27	117.97	Initial Hydro-static
1	18.95	117.51	Open To Flow (1)
31	19.57	118.23	Shut-In (1)
60	82.64	119.18	End Shut-In (1)
60	19.59	119.19	Open To Flow (2)
91	19.32	120.04	Shut-In (2)
151	78.15	121.45	End Shut-In (2)
151	2146.59	121.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 5% O 95% M	0.07

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Company

Ziegler Trust 1-31

301 S Market
Wichita KS 67202

31 12 34W Gove KS

Job Ticket: 27676

DST#: 1

ATTN: Brad Rine

Test Start: 2007.05.25 @ 07:16:01

Tool Information

Drill Pipe:	Length: 4536.00 ft	Diameter: 3.88 inches	Volume: 66.34 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 300000.0 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 66.34 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	4526.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4505.00	
Shut In Tool	5.00			4510.00	
Hydraulic tool	5.00			4515.00	
Safety Joint	2.00			4517.00	
Packer	5.00			4522.00	22.00 Bottom Of Top Packer
Packer	4.00			4526.00	
Stubb	1.00			4527.00	
Recorder	0.00	6772	Inside	4527.00	
Perforations	10.00			4537.00	
Change Over Sub	1.00			4538.00	
Drill Pipe	31.00			4569.00	
Change Over Sub	1.00			4570.00	
Recorder	0.00	7437	Outside	4570.00	
Bullnose	5.00			4575.00	49.00 Bottom Packers & Anchor

Total Tool Length: 71.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Company

Ziegler Trust 1-31

301 S Market
Wichita KS 67202

31 12 34W Gove KS

Job Ticket: 27676

DST#: 1

ATTN: Brad Rine

Test Start: 2007.05.25 @ 07:16:01

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: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 5%O 95%M	0.073

Total Length: 5.00 ft

Total Volume: 0.073 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

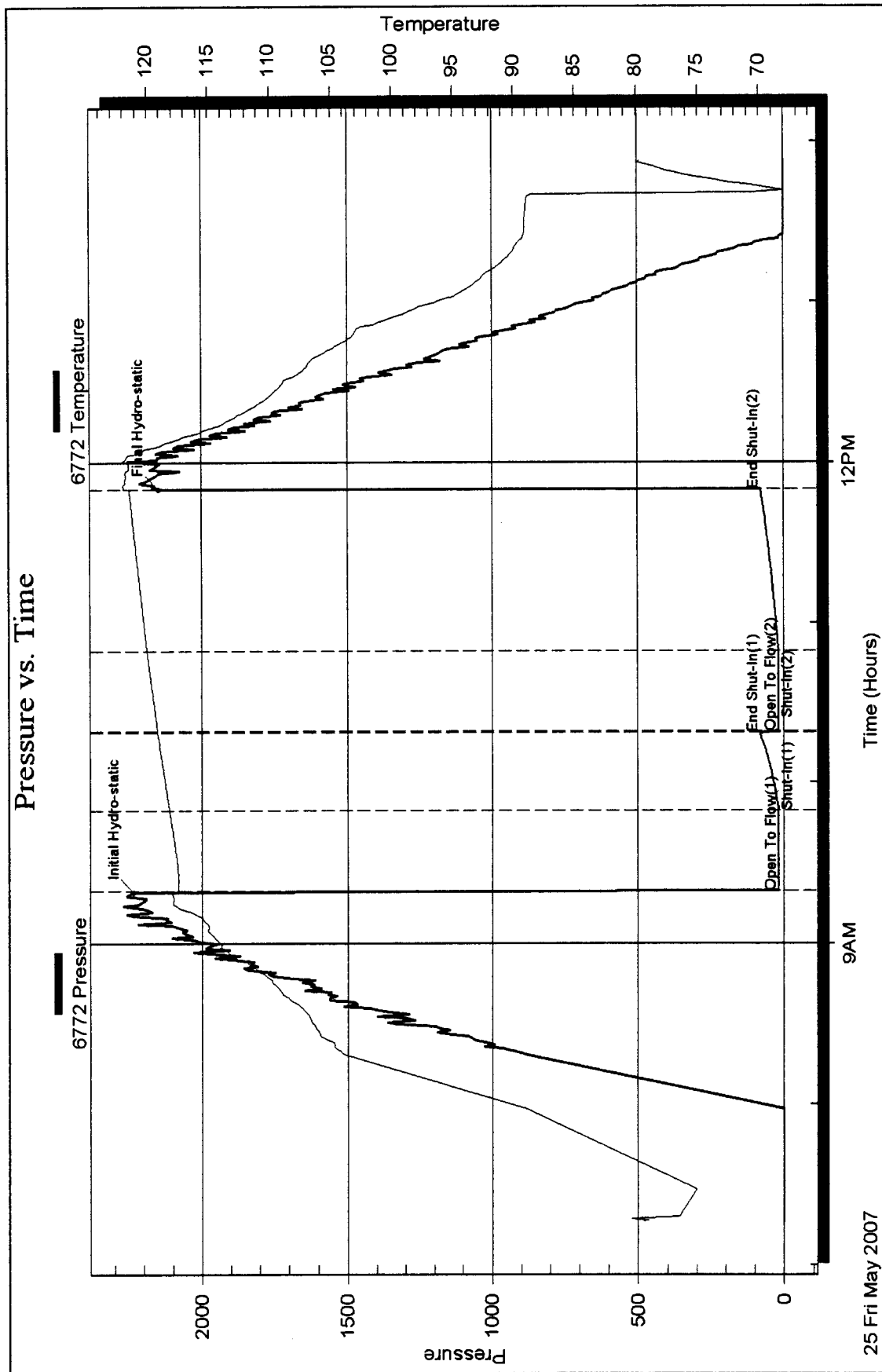
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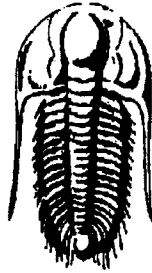
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas Company**

301 S Market
Wichita KS 67202

ATTN: Brad Rine

31 12 34W Gove KS

Ziegler Trust 1-31

Start Date: 2007.05.25 @ 23:13:57

End Date: 2007.05.26 @ 08:57:22

Job Ticket #: 27677 DST #: 2

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 19 2009

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Company

301 S Market
Wichita KS 67202

ATTN: Brad Rine

Ziegler Trust 1-31

31 12 34W Gove KS

Job Ticket: 27677

DST#: 2

Test Start: 2007.05.25 @ 23:13:57

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:27:07

Time Test Ended: 08:57:22

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4567.00 ft (KB) To 4602.00 ft (KB) (TVD)**

Total Depth: **4602.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Good

Reference Elevations: **2961.00 ft (KB)**

2956.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **443.00 psig @ 4568.00 ft (KB)**

Start Date: **2007.05.25**

End Date:

2007.05.26

Capacity: **7000.00 psig**

Last Calib.: **2007.05.26**

Start Time: **23:13:57**

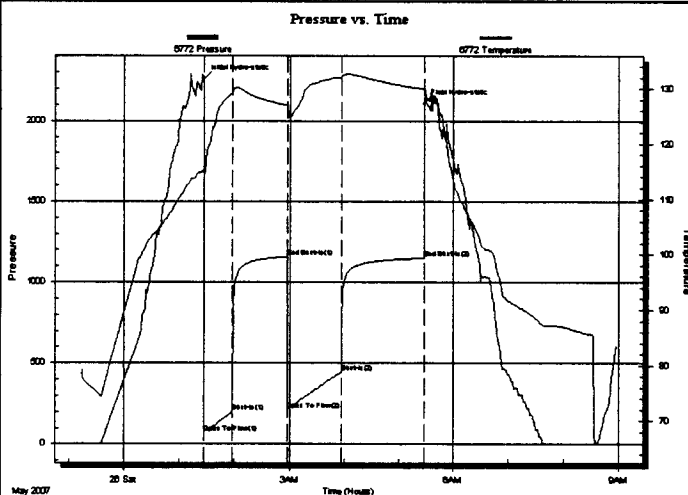
End Time:

08:57:22

Time On Btm: **2007.05.26 @ 01:26:52**

Time Off Btm: **2007.05.26 @ 05:27:51**

TEST COMMENT: IF 1/4 blow BOB in 3 min.
IS Surface blow BOB in 6 min.
FF Surface blow built to 6 in 60 min.
FS Surface blow never built



PRESSURE SUMMARY

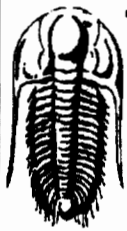
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.16	114.90	Initial Hydro-static
1	70.24	114.23	Open To Flow (1)
31	196.95	129.06	Shut-In (1)
91	1156.21	127.02	End Shut-In (1)
91	212.86	126.48	Open To Flow (2)
150	443.00	131.95	Shut-In (2)
241	1148.66	129.99	End Shut-In (2)
241	2109.49	130.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM 25%G 25%O 50%M	1.81
248.00	GOCM 20%G 10%O 70%M	3.63
620.00	GO 25%G 75%O	9.07
248.00	GO 15%G 85%O	3.63

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Company

Ziegler Trust 1-31

301 S Market
Wichita KS 67202

31 12 34W Gove KS

Job Ticket: 27677

DST#: 2

ATTN: Brad Rine

Test Start: 2007.05.25 @ 23:13:57

Tool Information

Drill Pipe:	Length: 4568.00 ft	Diameter: 3.88 inches	Volume: 66.80 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 66.80 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4567.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4546.00	
Shut In Tool	5.00			4551.00	
Hydraulic tool	5.00			4556.00	
Safety Joint	2.00			4558.00	
Packer	5.00			4563.00	22.00 Bottom Of Top Packer
Packer	4.00			4567.00	
Stubb	1.00			4568.00	
Recorder	0.00	6772	Inside	4568.00	
Perforations	29.00			4597.00	
Recorder	0.00	7437	Outside	4597.00	
Bullnose	5.00			4602.00	35.00 Bottom Packers & Anchor

Total Tool Length: 57.00



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FLUID SUMMARY

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Ziegler Trust 1-31

301 S Market
Wichita KS 67202

31 12 34W Gove KS

Job Ticket: 27677

DST#: 2

ATTN: Brad Rine

Test Start: 2007.05.25 @ 23:13:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 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: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOOM 25%G 25%O 50%M	1.813
248.00	GOOM 20%G 10%O 70%M	3.627
620.00	GO 25%G 75%O	9.067
248.00	GO 15%G 85%O	3.627

Total Length: 1240.00 ft

Total Volume: 18.134 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

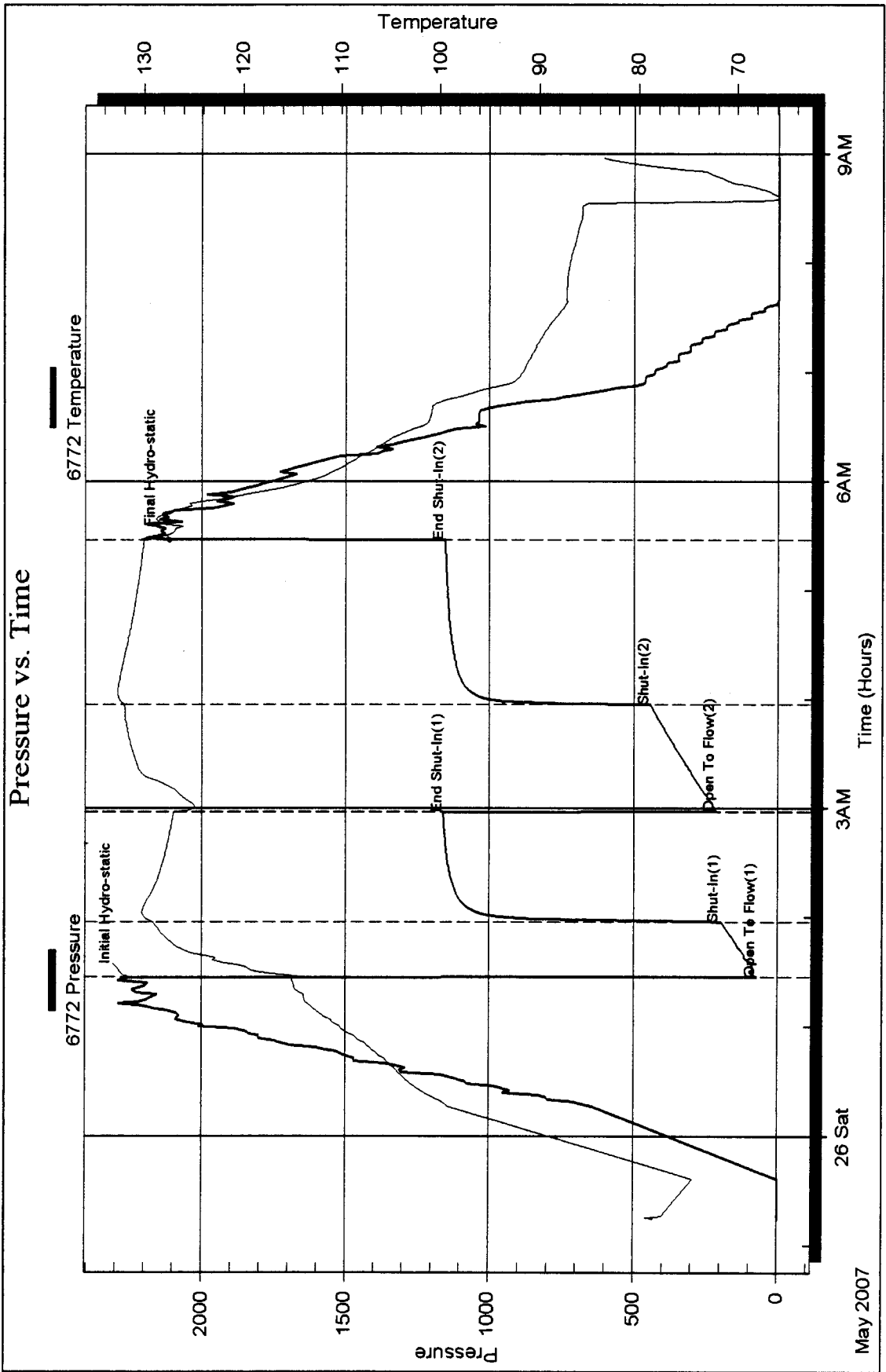
Serial #: 6772

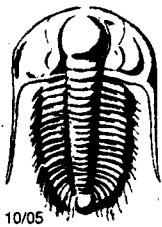
Inside

Lario Oil & Gas Company

31 12 34W Gove KS

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27676

Test Ticket

Well Name & No.	Ziegler Trust #1-31		Test No.	1	Date	5-25-07
Company	Lario Oil & Gas Company		Zone Tested	Johnson		
Address	301 S. Market Wichita, KS 67202		Elevation	2961	KB	2956 GL
Co. Rep / Geo.	Brad Rine		Rig	U91 #4		
Location: Sec.	31	Twp.	12S	Rge.	34W	Co. 900E State KS
Comment:						Release date / time:

Interval Tested	4526	4575	Initial Str Wt./Lbs.	45000	Unseated Str Wt./Lbs.	45,000
Anchor Length		49	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	65,000
Top Packer Depth		4521	Tool Weight	1500		
Bottom Packer Depth		4528	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4575	Wt. Pipe Run	—	Drill Collar Run	—
Mud Wt.	9.0	LCM 1	Vis. 51	WL 7.2	Drill Pipe Size	4 1/2 x H
Blow Description	IF: 1/4 blow died in 9 min. IS: NO return. FF: No blow. FS: NO return.					

Recovery - Total Feet	5	GIP	—	Ft. in DC	—	Ft. in DP	5
Rec.	5	Feet of	OCM	%gas	5	%oil	%water 95 %mud
Rec.		Feet of		%gas		%oil	%water %mud
Rec.		Feet of		%gas		%oil	%water %mud
Rec.		Feet of		%gas		%oil	%water %mud
Rec.		Feet of		%gas		%oil	%water %mud
BHT	121	°F Gravity	—	°F Corrected Gravity	—	°API	
RW	—	@	—	Chlorides	—	ppm Recovery	Chlorides 2300 ppm System

(A) Initial Hydrostatic Mud	2275	PSI	Recorder No.	6772	Test x	1200.00
(B) First Initial Flow Pressure	18	PSI	(depth)	4527	Jars	
(C) First Final Flow Pressure	19	PSI	Recorder No.	7437	Safety Jt. x	75.00
(D) Initial Shut-In Pressure	82	PSI	(depth)	4574	Circ Sub	X
(E) Second Initial Flow Pressure	19	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	19	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	78	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud	2219	PSI	Initial Shut-In	30	Shale Packer	
			Final Flow	30	Ruined Packer	
			Final Shut-In	60	Mileage	80-100.00
			T-On Location	6:15	Sub Total:	
			T-Started	7:15	Std. By	
			T-Open	9:09	Acc. Chg:	\$ 1375
			T-Pulled	11:49	Other:	
			T-Out	13:55	Total:	

Approved By Brad Rine

Our Representative [Signature]

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

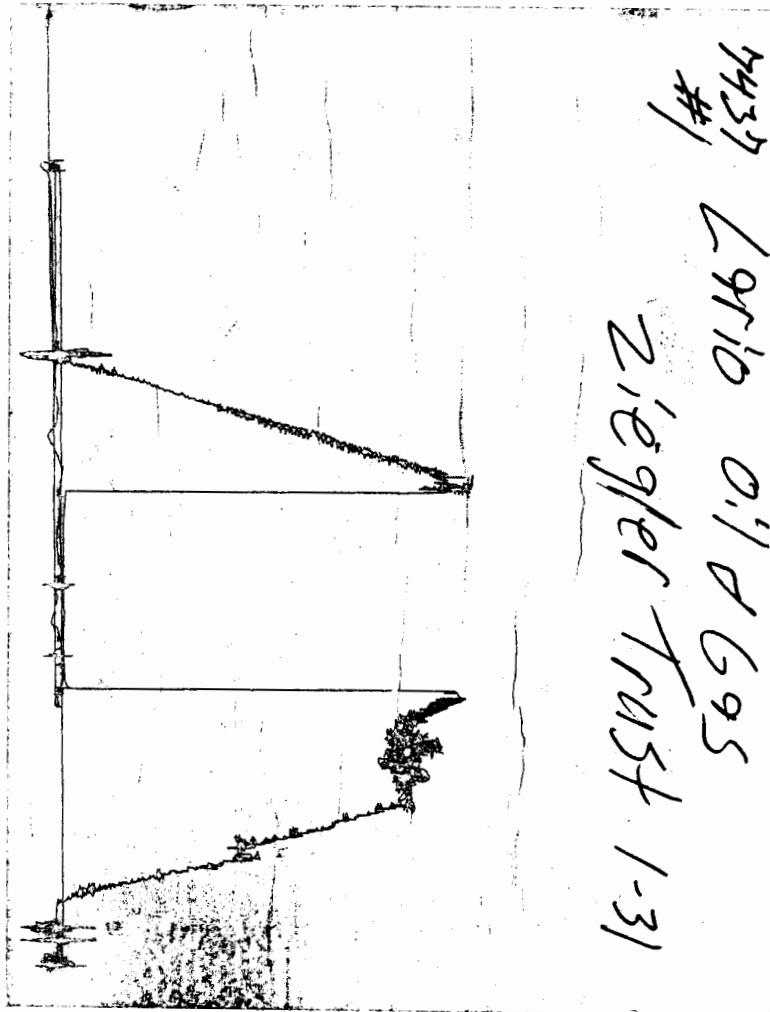
CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

4437
#1

Lev 10 0.1 d 695

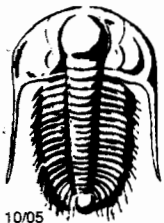
2.29/101 Trust 1-31



RECEIVED
KANSAS CORPORATION COMMISSION

FEB 19 2009

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27677

Test Ticket

Well Name & No.	Ziegler Trust 1-31		Test No.	2	Date	5-25-07
Company	Lario Oil & Gas Company		Zone Tested	Cherokee		
Address	301 S. Market Wichita, KS 67202		Elevation	2961	KB	2956 GL
Co. Rep / Geo.	Brad Rine		Rig	6191 #4		
Location: Sec.	31	Twp.	12 S	Rge.	34 W	Co. 90 W State KS
Comment:						Release date / time:

Interval Tested	4567	4602	Initial Str Wt./Lbs.	46,000	Unseated Str Wt./Lbs.	52,000
Anchor Length		35	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	70,000
Top Packer Depth		4562	Tool Weight	1500		
Bottom Packer Depth		4567	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4602	Wt. Pipe Run	—	Drill Collar Run	—
Mud Wt.	9.0 LCM	1 Vis. 51 WL 7.2	Drill Pipe Size	4 1/2 KH	Ft. Run	4568
Blow Description	IF: 1/4 blow Bob in 3 min.					
	IS: Surface blow Bob in 6 min.					
	FF: 1/4 blow built to 6 in 60 min.					
	FS: Surface blow never built.					

KANSAS CORPORATION COMMISSION

FEB 19 2009

Recovery - Total Feet	1240	GIP	2728	Ft. in DC	—	CONSERVATION DIVISION WICHITA, KS	1240
Rec.	248	Feet of	90	15% gas	85	%oil	%water %mud
Rec.	620	Feet of	90	25% gas	75	%oil	%water %mud
Rec.	248	Feet of	90 CM	20% gas	10	%oil	%water 70% mud
Rec.	124	Feet of	90 CM	25% gas	25	%oil	%water 50% mud
Rec.		Feet of		%gas		%oil	%water %mud
BHT	129	'F Gravity	35	'API D @	60	'F Corrected Gravity	35 'API
RW	—	@	—	'F Chlorides	—	ppm Recovery	— Chlorides 2300 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2336 PSI	Recorder No.	6772	Test	1200.00
(B) First Initial Flow Pressure			70 PSI	(depth)	4568	Jars	
(C) First Final Flow Pressure			196 PSI	Recorder No.	7437	Safety Jt.	875.00
(D) Initial Shut-In Pressure			1156 PSI	(depth)	4601	Circ Sub	N/C
(E) Second Initial Flow Pressure			212 PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			443 PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			1148 PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			2191 PSI	Initial Shut-In	60	Shale Packer	

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Approved By Brad Rine

Our Representative [Signature]

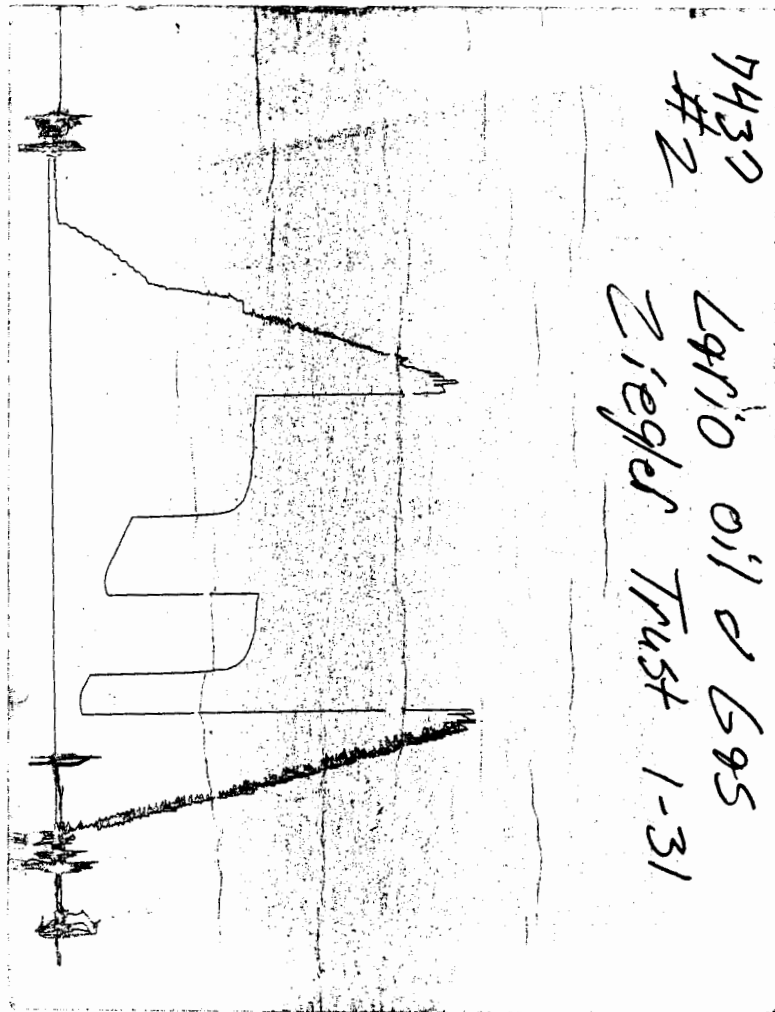
Final Flow	60	Final Shut-In	90
T-On Location	22:20	T-Started	23:13
T-Open	1:26	T-Pulled	5:26
T-Out	9:00		
Sub Total:		Std. By	12 50
Acc. Chg:		Other:	\$1425
Total:			

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

7437
#2

Lario Oil & Gas
Ziegler Trust 1-31



KANSAS CORPORATION COMMISSION

FEB 19 2009

CONSERVATION DIVISION
WICHITA, KS