

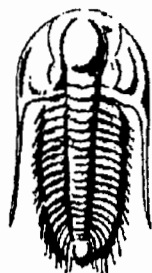
CONFIDENTIAL

KCC

AUG 18 2003

CONFIDENTIAL

ORIGINAL



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas Co.**

301 S. Market
Wichita Ks. 67202

ATTN: Wes Hansen

3-28s-5w Kingman Ks.

P.Brown A #1-3

Start Date: 2003.04.28 @ 03:30:46

End Date: 2003.04.28 @ 11:11:16

Job Ticket #: 16871

DST #: 1

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KCC WICHITA

RELEASED
FROM
CONFIDENTIAL

Lario Oil & Gas Co.

P.Brown A #1-3

3-28s-5w Kingman Ks.

DST # 1

Miss.

2003.04.28

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

CONFIDENTIAL

ORIGINAL


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

301 S. Market
Wichita Ks. 67202

ATTN: Wes Hansen

KCC

AUG 18 2003

CONFIDENTIAL

P. Brown A #1-3

3-28s-5w Kingman Ks.

Job Ticket: 16871

DST#: 1

Test Start: 2003.04.28 @ 03:30:46

GENERAL INFORMATION:

Formation: **Miss.**Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 05:05:16

Time Test Ended: 11:11:16

Interval: **3762.00 ft (KB) To 3790.00 ft (KB) (TVD)**Total Depth: **3790.00 ft (KB) (TVD)**Hole Diameter: **7.88 inches** Hole Condition: **Fair**Test Type: **Conventional Bottom Hole**Tester: **Gary Pevoteaux**Unit No: **23**Reference Elevations: **1434.00 ft (KB)****1426.00 ft (CF)**KB to GR/CF: **8.00 ft**

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Serial #: **2342**

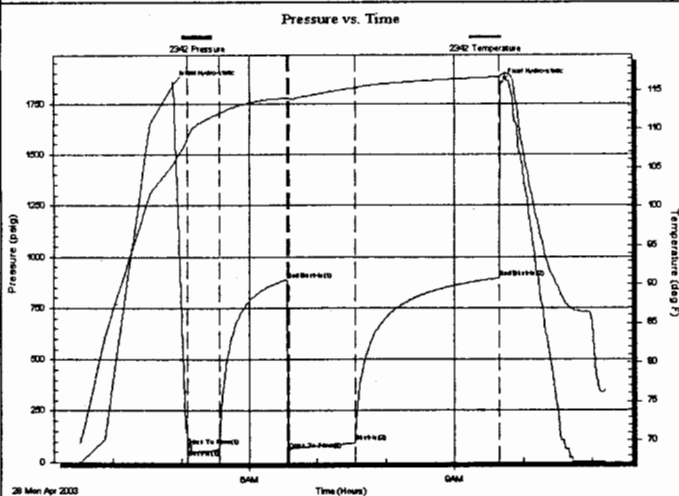
Inside

Press@RunDepth: **96.89 psig @ 3763.00 ft (KB)**Start Date: **2003.04.28**

End Date:

2003.04.28Start Time: **03:30:47**

End Time:

11:11:16Capacity: **7000.00 psig**Last Calib.: **2003.04.28**Time On Btm: **2003.04.28 @ 04:52:46**Time Off Btm: **2003.04.28 @ 09:40:46**TEST COMMENT: **IF: Strong blow . B.O.B. in 15 secs. GTS in 12 mins. (see gas volume report)****IS: Very weak blow . 1/4".****FF: Strong blow . (see gas volume report)****FSI: Very weak blow . 1/4".**

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1848.71	105.44	Initial Hydro-static
13	76.83	108.82	Open To Flow (1)
41	66.09	111.99	Shut-In (1)
101	887.57	114.03	End Shut-In (1)
103	59.29	113.95	Open To Flow (2)
161	96.89	115.28	Shut-In (2)
287	895.63	116.67	End Shut-In (2)
288	1851.65	116.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 23% m 77% w Rw .09 ohms	1.68
0.00	@ 72 deg. F.	0.00
80.00	Drig. mud	1.12

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	2.00	26.02
Last Gas Rate	0.25	3.00	27.60
Max. Gas Rate	0.25	7.00	33.95



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co.

P.Brown A #1-3

301 S.Market
Wichita Ks. 67202

3-28s-5w Kingman Ks.

ATTN: Wes Hansen

Job Ticket: 16871

DST#: 1

Test Start: 2003.04.28 @ 03:30:46

Tool Information

Drill Pipe:	Length: 3746.00 ft	Diameter: 3.80 inches	Volume: 52.55 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	51000.00 lb
		Total Volume:	52.55 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3762.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3736.00		
S.I. Tool	5.00			3741.00		
HMV	5.00			3746.00		
Jars	5.00			3751.00		
Safety Joint	2.00			3753.00		
Packer	4.00			3757.00	27.00	Bottom Of Top Packer
Packer	5.00			3762.00		
Stubb	1.00			3763.00		
Recorder	0.00	2342	Inside	3763.00		
Perforations	22.00			3785.00		
Recorder	0.00	13222	Outside	3785.00		
Bullnose	5.00			3790.00	28.00	Bottom Packers & Anchor

Total Tool Length: 55.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

P.Brown A #1-3

301 S.Market
Wichita Ks. 67202

3-28s-5w Kingman Ks.

Job Ticket: 16871

DST#: 1

ATTN: Wes Hansen

Test Start: 2003.04.28 @ 03:30:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

88000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 23% m 77% w Rw .09 ohms	1.683
0.00	@ 72 deg. F.	0.000
80.00	Drig.mud	1.122

Total Length: 200.00 ft

Total Volume: 2.805 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: GP-1

Laboratory Name:

Laboratory Location:

Recovery Comments:

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas Co.

P.Brown A #1-3

301 S. Market
Wichita Ks. 67202

3-28s-5w Kingman Ks.

Job Ticket: 16871

DST#: 1

ATTN: Wes Hansen

Test Start: 2003.04.28 @ 03:30:46

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	15	0.25	2.00	26.02
1	20	0.25	3.00	27.60
1	25	0.25	3.50	28.40
1	30	0.25	4.00	29.19
2	10	0.25	7.00	33.95
2	20	0.25	5.00	30.78
2	30	0.25	4.00	29.19
2	40	0.25	3.50	28.40
2	50	0.25	3.00	27.60
2	60	0.25	3.00	27.60

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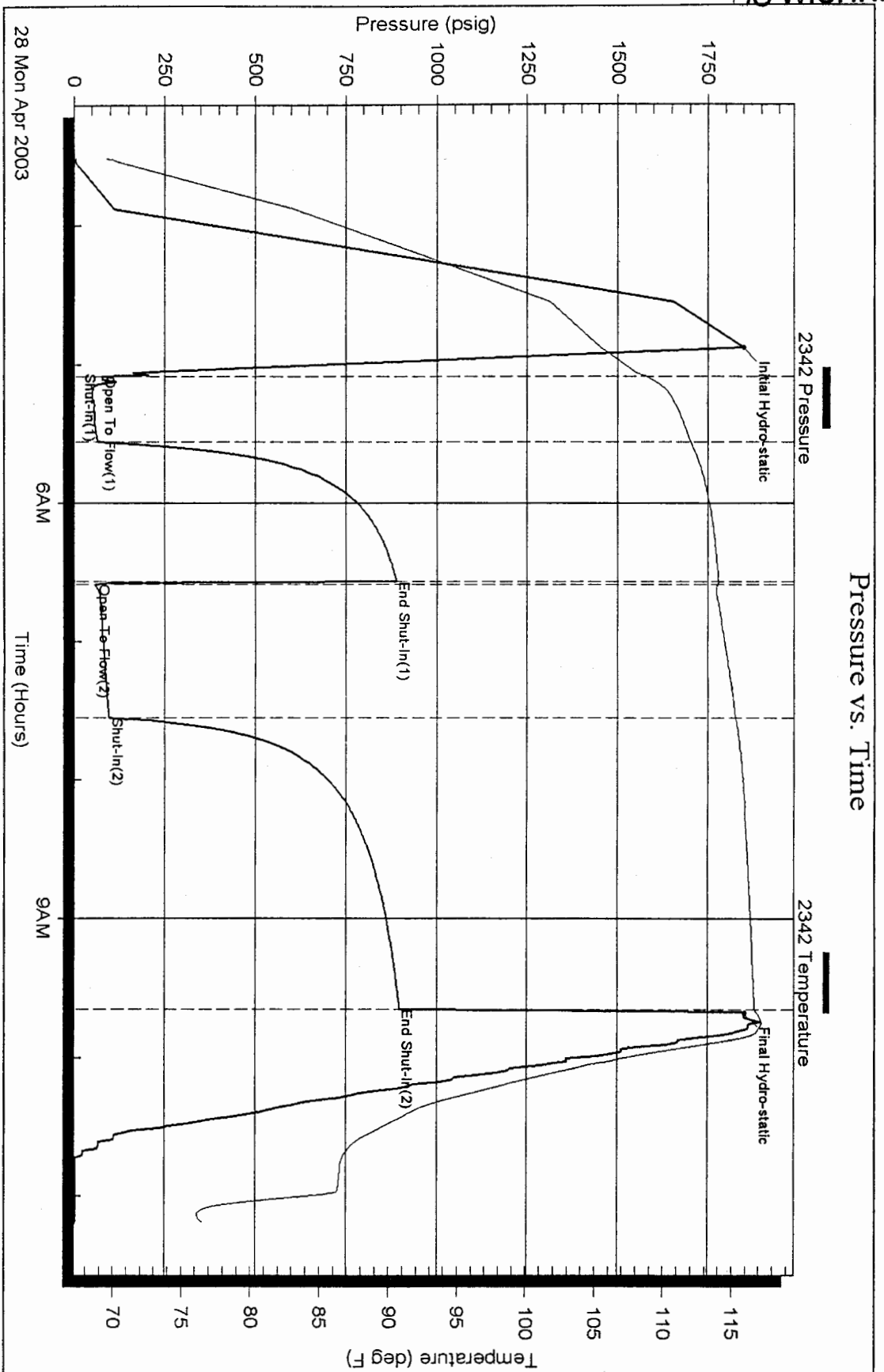
Serial #: 2342

Inside

Lario Oil & Gas Co.

3-28s-5w Kingman Ks.

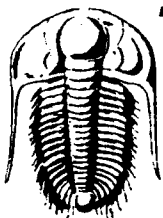
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 16871

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV #
5539

No 16871

Test Ticket

Well Name & No.	<u>P. Brown A #1-3</u>		Test No.	<u>1</u>	Date	<u>4-28-2003</u>	
Company	<u>Lario Oil & Gas Co.</u>		Zone Tested	<u>Miss.</u>			
Address	<u>301 S. Market, ~~Wichita~~ Wichita, KS 67202</u>		Elevation	<u>1434</u>	KB	<u>1426</u>	GL
Co. Rep / Geo.	<u>Wes Hansen</u>	Cont.	<u>Duke Dalg. II</u>	Est. Ft. of Pay	<u>Por. %</u>		
Location: Sec.	<u>3</u>	Twp.	<u>28S</u>	Rge.	<u>SW</u>	Co.	<u>Kingman</u> State <u>Ks.</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>Evaluation (Y, N)</u>		

Interval Tested 3762 - 3790 Initial Str Wt./Lbs. 35,000 Unseated Str Wt./Lbs. 34,000
 Anchor Length 28' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 54,000
 Top Packer Depth 3757' Tool Weight 2100#
 Bottom Packer Depth 3762' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 3790' Wt. Pipe Run None Drill Collar Run None
 Mud Wt. 9.5 LCM 0 Vis. 52 WL 10.4cc Drill Pipe Size 4 1/2" x 4" Ft. Run 3746'
 Blow Description IF: Strong blow. 30.0 B. in 15 sec. GTS in 12 min.
(see gas volume report) ISI: Very weak below 1/4".
FF: Strong blow. (see gas volume report) FSI: Very weak
below 1/4".

Recovery — Total Feet	<u>200</u>	GIP	<u>yes</u>	Ft. in DC	<u>0</u>	Ft. in DP	<u>200</u>
Rec.	<u>80</u>	Feet Of	<u>Org. Mud</u>	%gas	%oil	%water	%mud
Rec.	<u>120</u>	Feet Of	<u>M.W.</u>	%gas	%oil	<u>77</u>	%water <u>23</u> %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>117</u>	°F Gravity	<u>N/A</u>	°API D@	<u>~</u>	°F Corrected Gravity	<u>N/A</u> °API
RW	<u>.09</u>	@	<u>72</u>	°F Chlorides	<u>88,000</u>	ppm Recovery	Chlorides <u>4,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1849	PSI	Recorder No.	<u>2342</u>	T-On Location	<u>0246</u>
(B) First Initial Flow Pressure			<u>77</u>	PSI	(depth)	<u>3763'</u>	T-Started	<u>0330</u>
(C) First Final Flow Pressure			<u>66</u>	PSI	Recorder No.	<u>13222</u>	T-Open	<u>0505</u>
(D) Initial Shut-In Pressure			<u>888</u>	PSI	(depth)	<u>3785'</u>	T-Pulled	<u>0937</u>
(E) Second Initial Flow Pressure			<u>59</u>	PSI	Recorder No.	<u>~</u>	T-Out	<u>1111</u>
(F) Second Final Flow Pressure			<u>97</u>	PSI	(depth)	<u>~</u>	T-Off Location	<u>1240</u>
(G) Final Shut-in Pressure			<u>896</u>	PSI	Initial Opening	<u>30</u>	Test	<u>✓ 700°</u>
(Q) Final Hydrostatic Mud			<u>1852</u>	PSI	Initial Shut-in	<u>60</u>	Jars	<u>✓ 200°</u>
					Final Flow	<u>60</u>	Safety Joint	<u>✓ 80°</u>
					Final Shut-in	<u>120</u>	Straddle	
							Circ. Sub	
							Sampler	
							Extra Packer	
							Elec. Rec.	<u>✓ 150°</u>
							Mileage	<u>✓ 35°</u>
							Other <u>STAND</u>	<u>✓ 15°</u>
							TOTAL PRICE \$	<u>✓ 1170°</u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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.

Approved By

Wesley Hansen

Our Representative

Cory R. Hansen



GAS VOLUME REPORT

Lario Oil & Gas

P. Brown A II₁₋₃

OPERATOR

WELL NAME AND NO.

DST NO.

Initial Open

Final Exam

Remarks:

CHART PAGE

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

