



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

CONFIDENTIAL

Prepared For Lario Oil & Gas

301 South Market
Wichita KS 67202

ORIGINAL

KCC

ATTN: John Hastings

AUG 13 2002

10-28s-5w Kingman Ks

CONFIDENTIAL

Fearey #1

Start Date: 2002.06.07 @ 00:21:53

End Date: 2002.06.07 @ 09:22:38

Job Ticket #: 15684

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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AUG 14 2002

KCC WICHITA


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas

Fearey #1

301 South Market
Wichita KS 67202

10-28s-5w Kingman Ks

Job Ticket: 15684

DST#: 1

ATTN: John Hastings

Test Start: 2002.06.07 @ 00:21:53

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:29:38

Time Test Ended: 09:22:38

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: 3759.00 ft (KB) To 3775.00 ft (KB) (TVD)

Total Depth: 3775.00 ft (KB) (TVD)

Hole Diameter: 8.88 inches Hole Condition: Poor

Reference Elevations: 1433.00 ft (KB)

1422.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 2342

Inside

Press@RunDepth: 63.27 psig @ 3760.00 ft (KB)

Start Date: 2002.06.07

End Date:

Start Time: 00:21:54

End Time:

Capacity: 7000.00 psig

Last Calib.: 2002.06.07

Time On Btm: 2002.06.07 @ 03:28:53

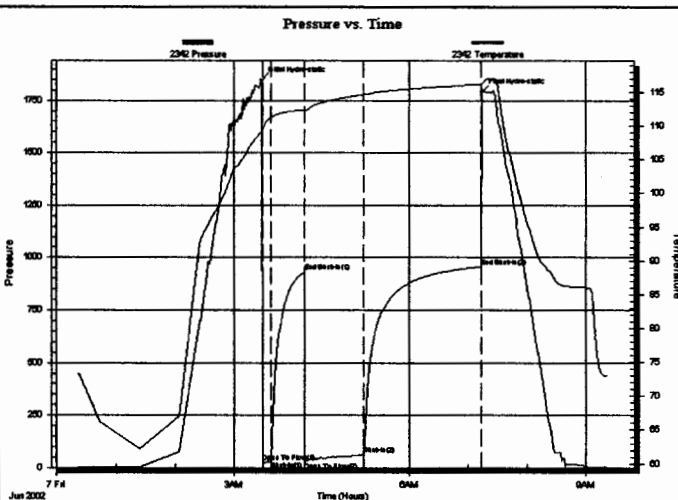
Time Off Btm: 2002.06.07 @ 07:14:08

TEST COMMENT: F:Strong blow . B.O.B. in 5 sec.

ISt:No blow .

FF:Strong blow . B.O.B. immediately. GTS in 12 min.(see gas volume report)

FSt:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.66	109.26	Initial Hydro-static
1	26.43	109.48	Open To Flow (1)
10	31.97	111.23	Shut-In (1)
44	931.59	112.34	End Shut-In (1)
45	27.94	112.33	Open To Flow (2)
105	63.27	114.64	Shut-In (2)
225	957.02	116.18	End Shut-In (2)
226	1790.84	116.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	MW 30% m 70% w Rw .10 ohms @ 75 de 0.34	
50.00	Drig. mud	0.25

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.00	24.43
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.25	1.00	24.43



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Fearey #1

301 South Market
Wichita KS 67202

10-28s-5w Kingman Ks

Job Ticket: 15684

DST#: 1

ATTN: John Hastings

Test Start: 2002.06.07 @ 00:21:53

Tool Information

Drill Pipe:	Length: 3590.00 ft	Diameter: 3.80 inches	Volume: 50.36 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: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 51.10 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3759.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.00 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			3733.00		
S.I. Tool	5.00			3738.00		
HMV	5.00			3743.00		
Jars	5.00			3748.00		
Safety Joint	2.00			3750.00		
Packer	4.00			3754.00	27.00	Bottom Of Top Packer
Packer	5.00			3759.00		
Stubb	1.00			3760.00		
Recorder	0.00	2342	Inside	3760.00		
Perforations	10.00			3770.00		
Recorder	0.00	10248	Outside	3770.00		
Bullnose	5.00			3775.00	16.00	Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Fearey #1

301 South Market
Wichita KS 67202

10-28s-5w Kingman Ks

Job Ticket: 15684

DST#: 1

ATTN: John Hastings

Test Start: 2002.06.07 @ 00:21:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

75000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.36 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
70.00	MW 30% m 70% w Rw ..10 ohms @ 75 deg.F	0.344
50.00	Drig.mud	0.246

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1 log

Laboratory Name: Caraw ay

Laboratory Location: Liberal KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas

Fearey #1

301 South Market
Wichita KS 67202

10-28s-5w Kingman Ks

Job Ticket: 15684

DST#: 1

ATTN: John Hastings

Test Start: 2002.06.07 @ 00:21:53

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)
2	20	0.25	1.00	24.43
2	20	0.25	1.00	24.43
2	30	0.25	1.00	24.43
2	40	0.25	1.00	24.43
2	50	0.25	1.00	24.43

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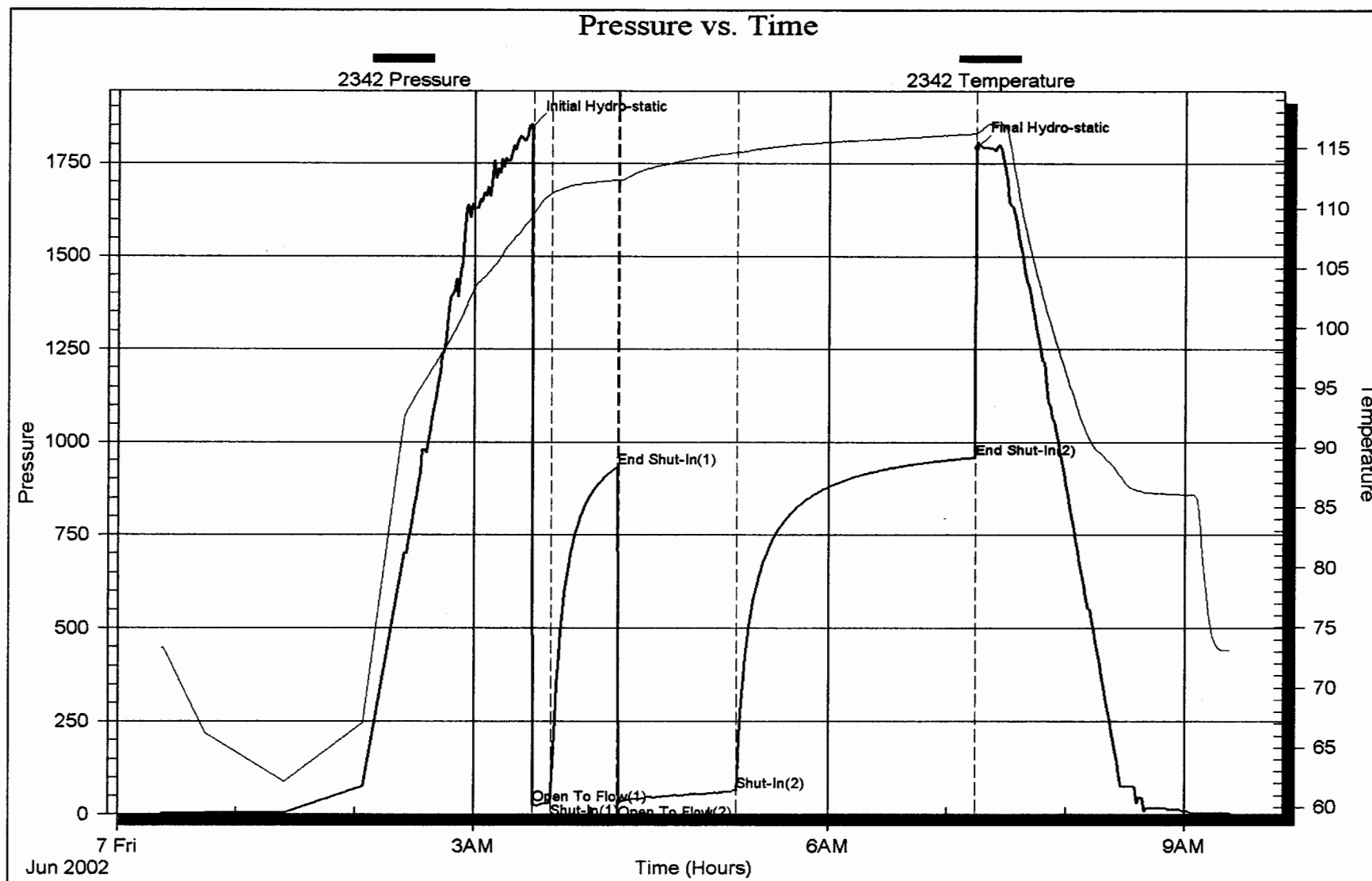
Serial #: 2342

Inside

Lario Oil & Gas

10-28s-5w Kingman Ks

DST Test Number: 1



827341



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 South Market
Wichita KS 67202

ATTN: John Hastings

10-28s-5w Kingman Ks

Fearey #1

Start Date: 2002.06.07 @ 16:54:36

End Date: 2002.06.08 @ 02:30:06

Job Ticket #: 15685

DST #: 2

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AUG 14 2002
10-28s-5w Kingman Ks
KCC WICHITA

Lario Oil & Gas

Fearey #1

DST # 2

Mississippian

2002.06.07

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lario Oil & Gas

Fearey #1

301 South Market
Wichita KS 67202

10-28s-5w Kingman Ks

Job Ticket: 15685

DST#: 2

ATTN: John Hastings

Test Start: 2002.06.07 @ 16:54:36

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:15:06

Time Test Ended: 02:30:06

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **3775.00 ft (KB) To 3807.00 ft (KB) (TVD)**

Reference Elevations: 1433.00 ft (KB)

Total Depth: 3807.00 ft (KB) (TVD)

1422.00 ft (CF)

Hole Diameter: 8.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: **2342**

Inside

Press@RunDepth: 174.81 psig @ 3776.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2002.06.07

End Date:

2002.06.08

Last Calib.: 2002.06.08

Start Time: 16:54:37

End Time:

02:30:06

Time On Btm: 2002.06.07 @ 19:13:51

Time Off Btm: 2002.06.07 @ 23:25:21

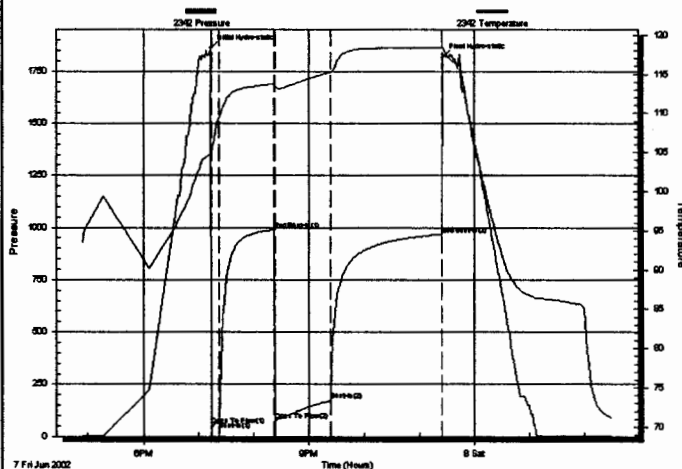
TEST COMMENT: F:Strong blow . B.O.B. in 5 sec.

IS:No blow .

FF:Strong blow . GTS in 2 min. (see gas volume report)

FS:Weak blow . 1 - 3".

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1860.34	104.79	Initial Hydro-static
2	53.54	105.03	Open To Flow (1)
9	71.67	109.36	Shut-In(1)
69	989.08	113.73	End Shut-In(1)
70	77.79	113.65	Open To Flow (2)
130	174.81	115.20	Shut-In(2)
251	968.01	118.38	End Shut-In(2)
252	1816.69	118.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	MW with oil scum & good odor	1.23
0.00	Rw .093 ohms @ 76 deg.F	0.00
125.00	SGCMW 5%g 32%m 63%w	1.75
70.00	GCM 15%g 85%m	0.98

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	3.00	63.74
Last Gas Rate	0.25	14.00	45.05
Max. Gas Rate	0.25	14.00	45.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Fearey #1

301 South Market
Wichita KS 67202

10-28s-5w Kingman Ks

Job Ticket: 15685

DST#: 2

ATTN: John Hastings

Test Start: 2002.06.07 @ 16:54:36

Tool Information

Drill Pipe:	Length: 3622.00 ft	Diameter: 3.80 inches	Volume: 50.81 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: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 56000.00 lb
		Total Volume: 51.55 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3775.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3749.00	
S.I. Tool	5.00			3754.00	
HMV	5.00			3759.00	
Jars	5.00			3764.00	
Safety Joint	2.00			3766.00	
Packer	4.00			3770.00	27.00 Bottom Of Top Packer
Packer	5.00			3775.00	
Stubb	1.00			3776.00	
Recorder	0.00	2342	Inside	3776.00	
Perforations	26.00			3802.00	
Recorder	0.00	10248	Outside	3802.00	
Bullnose	5.00			3807.00	32.00 Bottom Packers & Anchor

Total Tool Length: 59.00

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KCC WICHITA

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Lario Oil & Gas 301 South Market Wichita KS 67202 ATTN: John Hastings	Fearey #1 10-28s-5w Kingman Ks Job Ticket: 15685 DST#: 2 Test Start: 2002.06.07 @ 16:54:36	

Mud and Cushion Information			
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	ft	Water Salinity: 78000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume:	bbl	
Water Loss: 11.97 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure:	psig	
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information		
Recovery Table		
Length ft	Description	Volume bbl
185.00	MW with oil scum & good odor	1.229
0.00	Rw .093 ohms @ 76 deg.F	0.000
125.00	SGCMW 5%g 32%m 63%w	1.753
70.00	GCM 15%g 85%m	0.982

Total Length: 380.00 ft	Total Volume: 3.964 bbl	
Num Fluid Samples: 0	Num Gas Bombs: 2	Serial #: gp-2 log
Laboratory Name: Caraway	Laboratory Location: Liberal KS	
Recovery Comments:		



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas

Fearey #1

301 South Market
Wichita KS 67202

10-28s-5w Kingman Ks

Job Ticket: 15685

DST#: 2

ATTN: John Hastings

Test Start: 2002.06.07 @ 16:54:36

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)
2	10	0.38	3.00	63.74
2	10	0.38	3.00	63.74
2	20	0.25	7.00	33.95
2	30	0.25	11.00	40.30
2	40	0.25	13.00	43.47
2	50	0.25	14.00	45.05

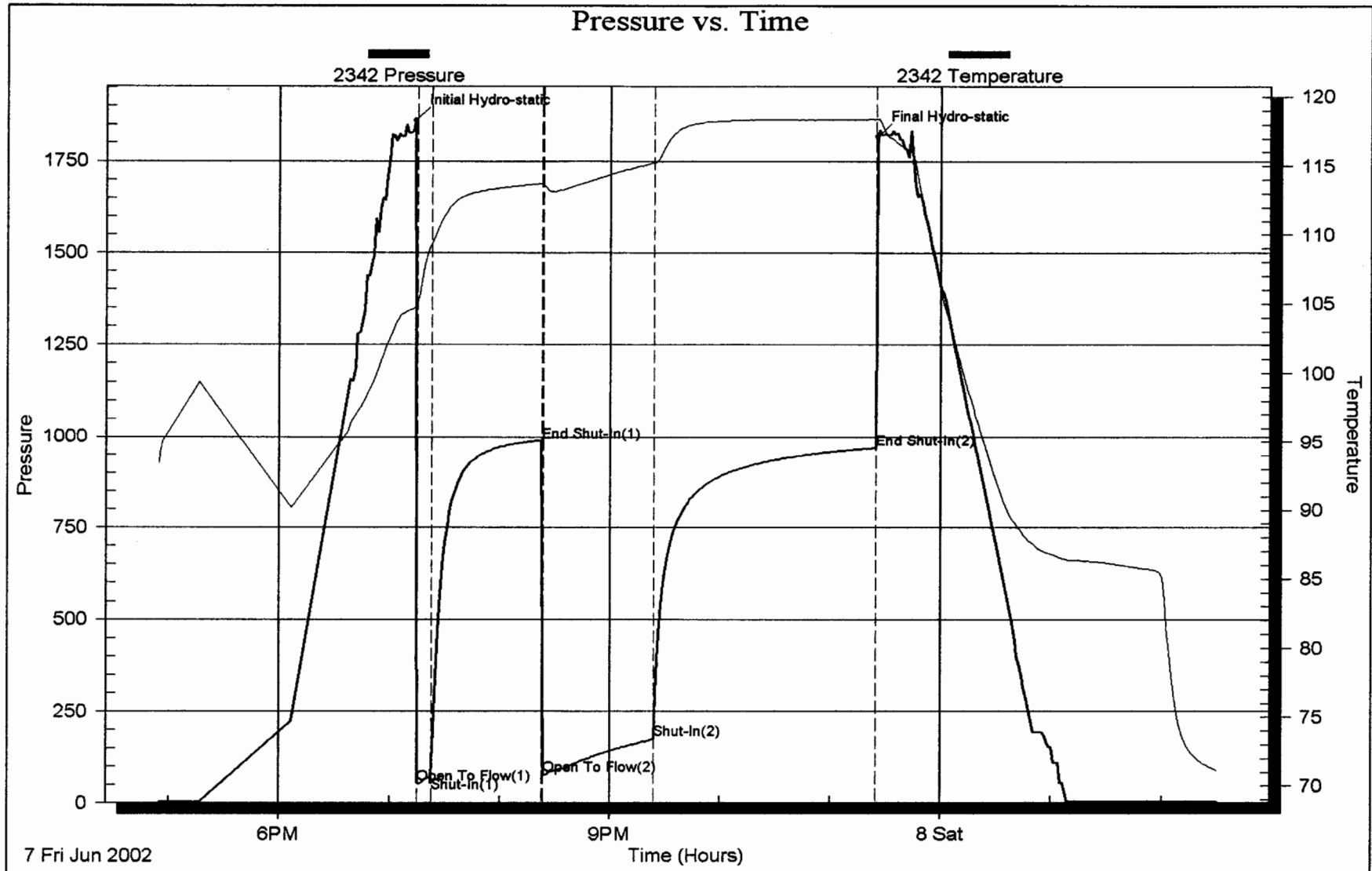
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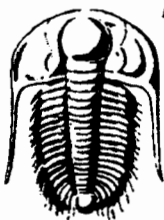
Serial #: 2342

Inside Lario Oil & Gas

10-28s-5w Kingman Ks

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15684

Test Ticket

Well Name & No. Fearey #1 Test No. 1 Date 6-7-2002
 Company Lario Oil & Gas Zone Tested Miss
 Address 301 South Market, Wichita Ks 67202 Elevation 1433 KB 1422 GL
 Co. Rep / Geo. John Hastings Cont. Duke Dalg. #4 Est. Ft. of Pay Por. %
 Location: Sec. 10 Twp. 28 S Rge. SW Co. Kingman State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3759 - 3775' Initial Str Wt/Lbs. 40,000 Unseated Str Wt/Lbs. 40,000
 Anchor Length 16' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3754' Tool Weight 2100#
 Bottom Packer Depth 3759' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 3775' Wt. Pipe Run None Drill Collar Run 150'
 Mud Wt. 9.2 LCMO Vis. 44 WL 10.4cc. Drill Pipe Size 4 1/2" x 14 Ft. Run 3590
 Blow Description FF: Strong below. B.O.B. in 5 secs. FSI: No below.

FF: Strong below. B.O.B. immediately. GTS in 12 mins.
(see gas volume report) FSI: No below.

Recovery — Total Feet 120 GIP yes Ft. in DC 120 Ft. in DP 0
 Rec. 50 Feet Of Dry Mud %gas %oil %water %mud
 Rec. 70 Feet Of Mud %gas %oil 70 %water 30 %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 116 °F Gravity N/A °API D@ °F Corrected Gravity N/A °API
 RW .10 @ 75 °F Chlorides 75,000 ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		<u>1845</u>	PSI	Recorder No. <u>2342</u>	T-On Location	<u>2300</u>
(B) First Initial Flow Pressure		<u>26</u>	PSI	(depth) <u>3760'</u>	T-Started	<u>0021</u>
(C) First Final Flow Pressure		<u>32</u>	PSI	Recorder No. <u>10248</u>	T-Open	<u>0329</u>
(D) Initial Shut-In Pressure		<u>932</u>	PSI	(depth) <u>3770'</u>	T-Pulled	<u>0713</u>
(E) Second Initial Flow Pressure		<u>28</u>	PSI	Recorder No. <u> </u>	T-Out	<u>0922</u>
(F) Second Final Flow Pressure		<u>63</u>	PSI	(depth) <u> </u>	T-Off Location	<u>1015</u>
(G) Final Shut-in Pressure		<u>957</u>	PSI	Initial Opening <u>10</u>	Test	<u>✓ 700</u>
(Q) Final Hydrostatic Mud		<u>1800</u>	PSI	Initial Shut-in <u>30</u>	Jars	<u>✓ 200</u>
				Final Flow <u>60</u>	Safety Joint	<u>✓ 50</u>
				Final Shut-in <u>120</u>	Straddle	<u> </u>
				<u>4</u>	Circ. Sub	<u> </u>
				<u>1</u>	Sampler	<u> </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

Our Representative

Extra Packer
 Elec. Rec. ✓ 150
 Mileage ✓ 55
 Other STAND 60
 TOTAL PRICE \$ ✓ 1215.00



GAS VOLUME REPORT

Fearey #1

OPERATOR

WELL NAME AND NO.

DST NO.

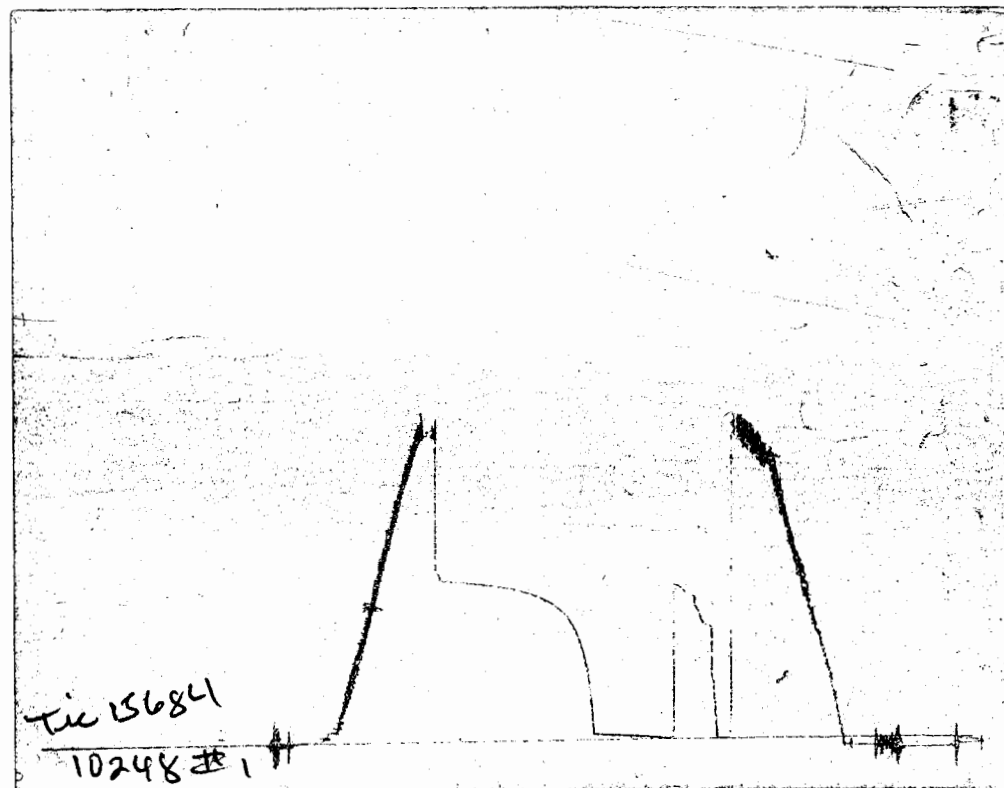
Final Open

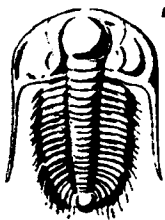
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Remarks:

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15685

Test Ticket

Well Name & No. <u>Fearey #1</u>	Test No. <u>2</u>	Date <u>6-7-2002</u>
Company <u>Lario Oil & Gas</u>	Zone Tested <u>Miss.</u>	
Address <u>301 South Market, Wichita, Ks. 67202</u>	Elevation <u>1433</u> KB <u>1422</u> GL	
Co. Rep / Geo. <u>John Hartings</u>	Cont. <u>Duke Dalg #4</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>10</u> Twp. <u>28 S</u> Rge. <u>S.W.</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> </u> Evaluation (Y, N) <u> </u>

Interval Tested 3775 - 3807' Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 44,000
 Anchor Length 32' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 56,000
 Top Packer Depth 3770' Tool Weight 2100 lb
 Bottom Packer Depth 3775' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 3807' Wt. Pipe Run None Drill Collar Run 150'
 Mud Wt. 9.3 LCM 0 Vis. 48 WL 12.0 cc. Drill Pipe Size 4 1/2" X. H. Ft. Run 3622
 Blow Description IF: Strong below. B.O.B. in 5 secs. ISI: No blow.

FF: Strong below. GTS in 2 mins. (see gas volume report)
FSI: Weak below. 1-3".

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>70</u> Feet Of <u>GCM</u>	<u>yes</u>	<u>150</u>	<u>230</u>
Rec. <u>125</u> Feet Of <u>SGCMW</u>		<u>15% gas</u>	<u>%oil</u> <u>%water</u> <u>85% mud</u>
Rec. <u>185</u> Feet Of <u>MW @ oil seam</u>		<u>5% gas</u>	<u>%oil</u> <u>63% water</u> <u>32% mud</u>
Rec. <u> </u> Feet Of <u>1/2 good order</u>		<u>% gas</u>	<u>%oil</u> <u>%water</u> <u>%mud</u>
Rec. <u> </u> Feet Of <u> </u>		<u>% gas</u>	<u>%oil</u> <u>%water</u> <u>%mud</u>

BHT 118 °F Gravity N/A °API D@ °F Corrected Gravity N/A °API
 RW .093 @ 76 °F Chlorides 78,000 ppm Recovery Chlorides 5,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1827</u>	<u>1827</u>	<u>2342</u>	<u>1620</u>	<u>10:55</u>
(B) First Initial Flow Pressure	<u>54</u>	<u>54</u>	<u>3776'</u>	<u>1654</u>	
(C) First Final Flow Pressure	<u>72</u>	<u>72</u>	<u>10248</u>	<u>1915</u>	
(D) Initial Shut-In Pressure	<u>989</u>	<u>989</u>	<u>3802'</u>	<u>2323</u>	<u>10:10</u>
(E) Second Initial Flow Pressure	<u>78</u>	<u>78</u>	<u> </u>	<u>0230</u>	
(F) Second Final Flow Pressure	<u>175</u>	<u>175</u>	<u> </u>	<u>0315</u>	
(G) Final Shut-in Pressure	<u>968</u>	<u>968</u>	<u>10</u>	<u>700</u>	
(Q) Final Hydrostatic Mud	<u>1824</u>	<u>1824</u>	<u>60</u>	<u>200</u>	

Final Flow 60 Safety Joint ✓ 50
 Final Shut-in 120 Straddle
 Circ. Sub
 Sampler

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Approved By John Hartings

Our Representative Cam Swatman

Extra Packer
 Elec. Rec. ✓ 150
 Mileage ✓ 55
 Other STAND ✓ 160
 TOTAL PRICE \$ ✓ 1215.00



GAS VOLUME REPORT

Lario Oil & Gas
OPERATOR

Fearey #1

WELL NAME AND NO.

2
DST NO

Initial Open

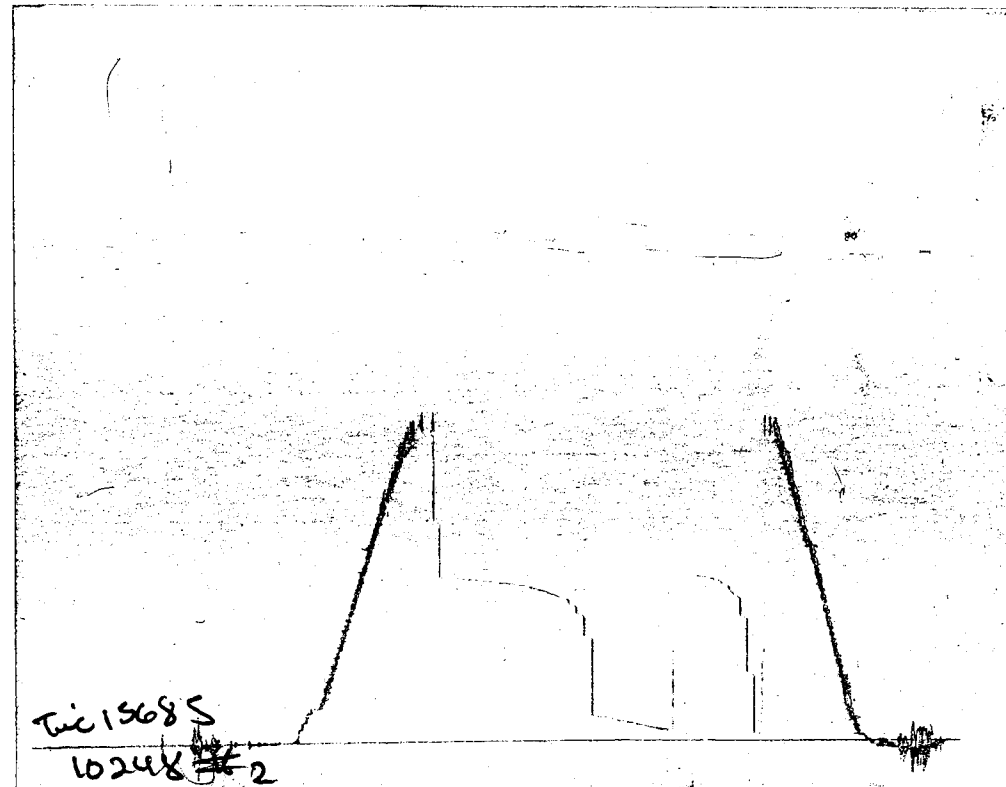
Final Open

[illegible]

Remarks:

CHART PAGE

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



NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, Inc.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 785-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-624-5389
Fax: 620-626-7108

Lab Number: 20022658

Analyzed: 06/12/02

Sample From: Fearey 1 DST 2
Producer: Lario Oil & Gas

Pressure:
Temperature:

Date: Location: 10-28-5

Time:
Sampler:
Source:

County: Kingman
State: Kansas
Formation: Miss

	Mole %	GPM
Helium	He: 0.282	0.000
Hydrogen	H2: 0.002	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 5.809	0.000
Carbon Dioxide	CO2: 0.043	0.000
Methane	C1: 81.629	0.000
Ethane	C2: 6.327	1.692
Propane	C3: 3.109	0.857
Iso Butane	iC4: 0.426	0.139
Normal Butane	nC4: 1.090	0.344
Iso Pentane	iC5: 0.261	0.095
Normal Pentane	nC5: 0.349	0.126
Hexanes Plus	C6+: 0.673	0.294

TOTAL: 100.000 3.547

Z Fact: 0.9972

SP.GR.: 0.6919

BTU (SAT): 1109.1 @ 14.73 psia

BTU (DRY): 1128.7 @ 14.73 psia

OCTANE RATING: 117.6

COMMENTS:

0.000