

15-033-21198

LARIO OIL & GAS COMPANY

CONFIDENTIAL

CHRISTOPHER #1-16

ORIGINAL

1800' FSL & 1070' FEL Sec. 16-33S-19W
Comanche Co., KS

KCC

DST INFORMATION

MAY 14 2001

DST #1 (4805' - 4835') Swope

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Recovered 145' GMCW (10% gas, 55% wtr, 35% mud)
975' V. Sli MC Gassy Wtr (5% gas, 90% wtr, 5% mud)

	<u>Alpine</u>	<u>Ak-1</u>
SIP	1697-1693#	1696-1697#
IFP	85-366#	149-362#
FFP	379-585#	481-599#
HP	2385-2362#	2448-2407#

RELEASED

MAY 21 2002

FROM CONFIDENTIAL

BHT 126 deg F.

Rw 0.32 @ 64 deg.

DST #2 (5042 - 5120) Altamont and Pawnee



1st Open: Strong blow OBB in 3 min. No gas to surface.

2nd Open: OBB immediately. Gas to surface in 5 min. Gauged through 1/8" choke as follows:

<u>Time</u>	<u>PSI</u>	<u>Rates</u>
10 min		tstm
20 min	1 psi	5,760 cfgpd
30 min		
40 min	2 psi	6,140 cfgpd Stabilized

Rec: 65' gas cut mud (10% gas, 90% mud)

IFP: 25-32 FFP: 40-41
ISP: 1308 FSP: 1371
HP: 2458-2435
Temp: 125 F.

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ORIGINAL

DST #3 (5174 - 5250) Conglomerate

1st Open: Strong blow OBB in 40 seconds. Gas to surface in 6 min

Gauged through 1/4" choke as follows:

<u>Time</u>	<u>PSI</u>	<u>Rates</u>
10 min	1.6 psi	25,380 cfgpd
20 min	1.6 psi	25,380 cfgpd
30 min	1.8 psi	25,700 cfgpd

RELEASED

MAY 21 2002

2nd Open: Ga: through 1/4" choke

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<u>Time</u>	<u>PSI</u>	<u>Rates</u>
5 min	2.0 psi	26,020 cfgpd
10 min	1.5 psi	25,220 cfgpd
<u>20 min</u>	<u>1.0 psi</u>	<u>24,430 cfgpd</u>
30 min	1.6 psi	5,990 cfgpd
40 min	2.4 psi	6,290 cfgpd

Changed choke to 1/8"

Rec: 80' gas cut mud (7% gas, 93% mud)

IFP: 48-43 FFP: 41-43
 ISP: 690 FSP: 599
 HP: 2523-2522
 Temp: 126 F

DST #4 (5285 - 5350) Spergen30-60-45-90

25' VSGCM 3% gas, 97% mud

	<u>Alpine</u>	<u>Ak-1</u>
SIP	556-1391#	560-1421#
IF	16-22#	70-70#
FF	20-24#	84-84#
HP	2619-2595#	2703-2680#

Temp. 123 deg F.

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DST #5 (5350' - 5400') 30-60-60-120 Tailpipe Straddle
RTD @ 5780'. 380' tailpipe

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Rec: 995' Total Fluid as follows;

MAY 21 2002

500' GCM 8% gas, 92% mud
125' SGCWCM 4% gas, 4% wtr, 92% mud
370' GCWCM 4% gas, 32% wtr, 58% mud

FROM CONFIDENTIAL

	<u>Alpine</u>	<u>Ak-1</u>
SIP	1889-1876#	1916-1897#
IF	177-365#	247-383#
FF	346-516#	439-554#
HP	2668-2661#	2744-2725#

Temp. 123 deg F.

DST #6 (6042' - 6078') Viola 30-60-30-60

1st open: Surface blow built to 2" in 30 min.

2nd open: 1" blow throughout.

Rec: 10 Mud

	<u>Alpine</u>	<u>Ak-1</u>
ISIP	633#	Recorder Failed
IF	21-17#	
FF	Recorder malfunctioned	
HP	for final flow and shut in,	

Note: This test was a misrun.

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 S Market
Wichita KS 67202

ATTN: Roger Martin

16-33S-19W Comanche

Christopher "1-16"

Start Date: 2001.04.06 @ 02:35:00

End Date: 2001.04.06 @ 08:05:00

Job Ticket #: 13996 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Lario Oil & Gas

Christopher "1-16"

16-33S-19W Comanche

DST #: 1

Swope

2001.04.06



TRIOBITE TESTING, INC

DRILL STEM TEST REPORT

RELEASED

Lario Oil & Gas

Christopher "1-16"

301 S Market
Wichita KS 67202

MAY 21 2002

16-33S-19W Comanche

Job Ticket: 13996

DST#: 1

ATTN: Roger Martin

FROM CONFIDENTIAL

Test Start: 2001.04.06 @ 02:35:00

GENERAL INFORMATION:

Formation: **Swope**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:05:59
Time Test Ended: 08:05:00

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Test Type: Conventional Bottom Hole
Tester: Lanny Saloga
Unit No: 14

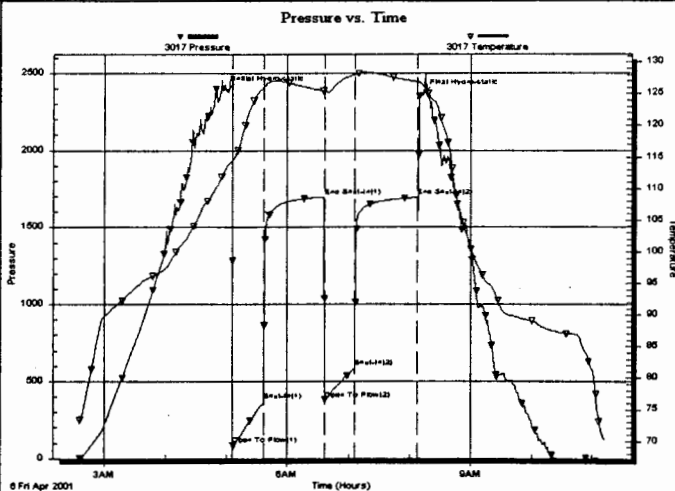
Interval: **4805.00 ft (KB) To 4835.00 ft (KB) (TVD)**
Total Depth: **4835.00 ft (KB)**
Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **1984.00 ft (KB)**
1975.00 ft (CF)
KB to GR/CF: **9.00 ft**

Serial #: **3017** Inside
Press@RunDepth: **585.64 psig @ 4807.00 ft (KB)**
Start Date: **2001.04.06** End Date: **2001.04.06**
Start Time: **02:35:04** End Time: **11:12:59**

Capacity: **7000.00 psig**
Last Calib.: **2001.04.05**
Time On Btm: **2001.04.06 @ 05:00:44**
Time Off Btm: **2001.04.06 @ 08:12:14**

TEST COMMENT: 1" built to strong OBB in 4 min. I.F.P.
No blow-back. I.S.I.P.
1" built to strong OBB in 6 min. F.F.P.
No blow-back. F.S.I.P. RW 0.32 at 64 F. 23,800 PPM.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
146	2385.07	113.61	Initial Hydro-static
151	85.84	114.57	Open To Flow (1)
182	366.80	126.09	Shut-In(1)
241	1697.27	125.43	End Shut-In(1)
242	379.36	125.43	Open To Flow (2)
271	585.64	127.97	Shut-In(2)
332	1693.33	126.88	End Shut-In(2)
338	2362.86	126.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	Gassy Mud cut Wtr 10%G 55%W 35%M	2.03
975.00	Very sil Mud cut Gassy Wtr 5%G 90%W 5	13.68

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Christopher "1-16"

301 S Market
Wichita KS 67202

16-33S-19W Comanche

Job Ticket: 13996

DST#: 1

ATTN: Roger Martin

Test Start: 2001.04.06 @ 02:35:00

Tool Information

Drill Pipe:	Length: 4790.00 ft	Diameter: 3.80 inches	Volume: 67.19 bbl	Tool Weight: 1800.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 8000.00 lb
Drill Pipe Above KB:	12.00 ft			Tool Chased ft
Depth to Top Packer:	4800.00 ft			String Weight: Initial 52000.00 lb
Depth to Bottom Packer:	ft			Final 57000.00 lb
Interval between Packers:	ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

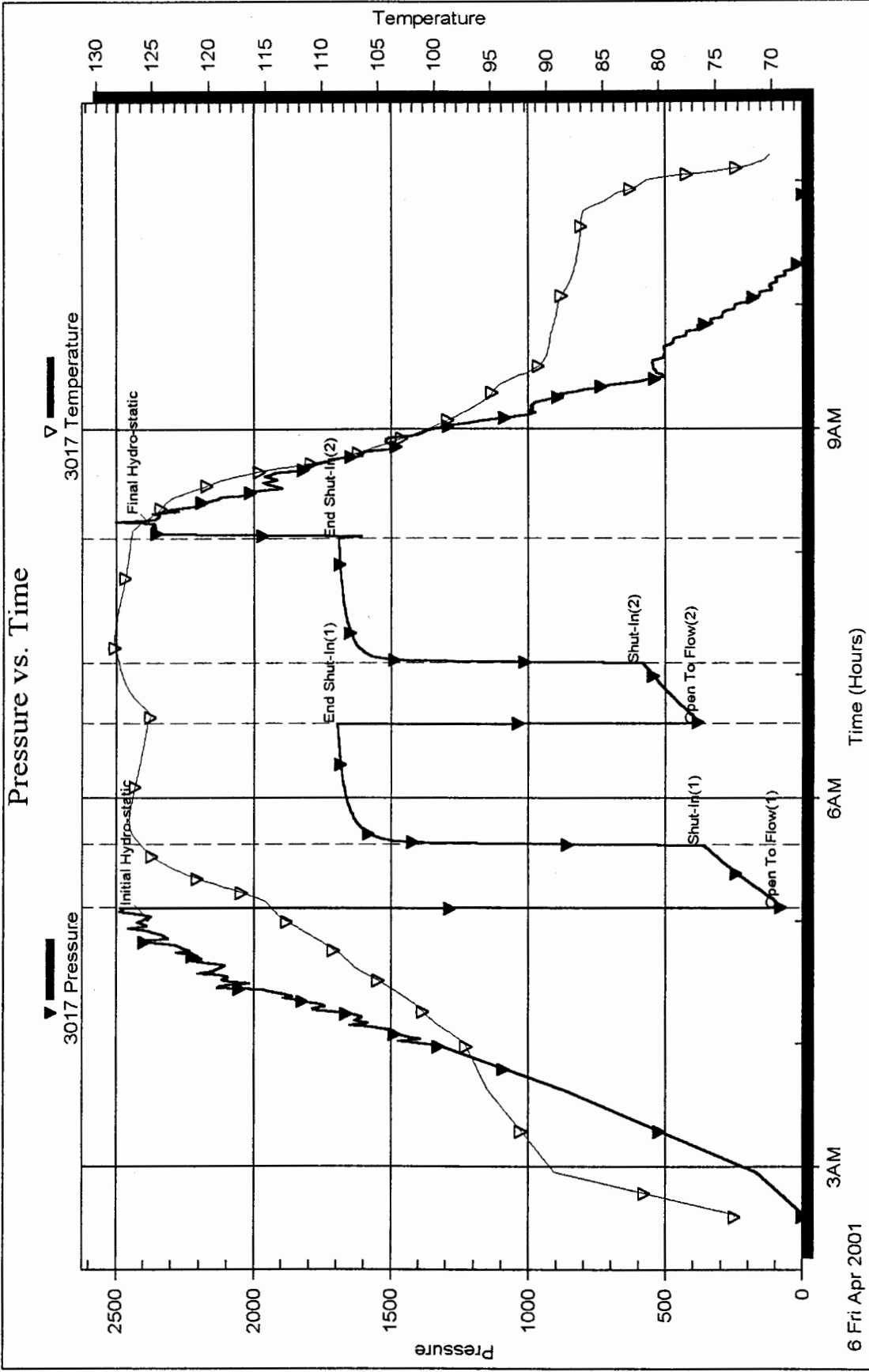
1" built to strong OBB in 4 min. I.F.P.
No blow-back. I.S.I.P.

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4779.00	
S.I. Tool	5.00			4784.00	
HMV	5.00			4789.00	
Jars	5.00			4794.00	
Safety Joint	2.00			4796.00	
Packer	4.00			4800.00	22.00 Bottom Of Top Packer
Packer	5.00			4805.00	
Stubb	1.00			4806.00	
Perforations	1.00			4807.00	
Recorder	0.00	3017	Inside	4807.00	
Perforations	26.00			4833.00	
Recorder	0.00	10242	Inside	4833.00	
Bullnose	2.00			4835.00	35.00 Bottom Packers & Anchor

Total Tool Length: 57.00

Serial #: 3017 Inside Lario Oil & Gas 16-33S-19W Comanche

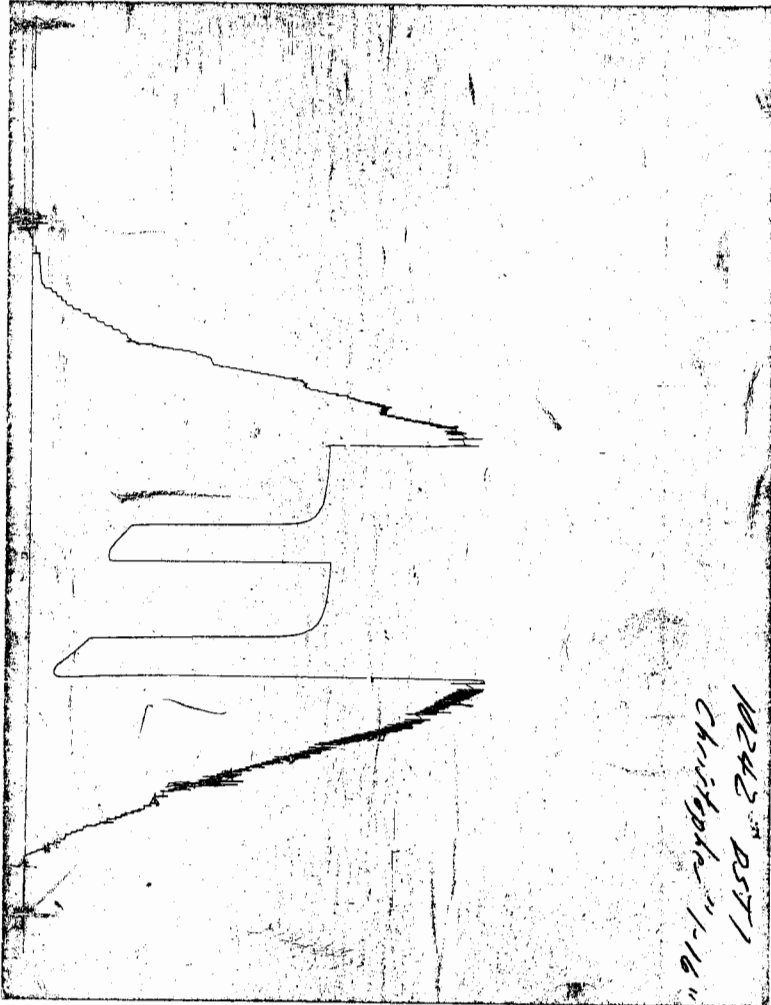


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CHART PAGE

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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13996

Test Ticket

Well Name & No. <u>Christopher "1-16"</u>	Test No. <u>1</u>	Date <u>4-6-2001</u>
Company <u>Loria Oil & Gas Co.</u>	Zone Tested <u>Swape</u>	
Address <u>Wichita Ks. 67202</u>	Elevation <u>1984</u> KB <u>1975</u> GL	
Co. Rep / Geo. <u>Roger Martin</u>	Cont. <u>Duke Rig 4</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>16</u> Twp. <u>33S</u> Rge. <u>19W</u> Co. <u>Camarache</u> State <u>Ks.</u>		
No. of Copies <u> </u> Distribution Sheet (Y, N) <u> </u> Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>		

Interval Tested <u>4805-4835</u>	Initial Str Wt./Lbs. <u>52,000</u>	Unseated Str Wt./Lbs. <u>57,000</u>
Anchor Length <u>30'</u> Tool = <u>27'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>8,000</u>
Top Packer Depth <u>4800</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>4805</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>4835</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>0</u>
Mud Wt. <u>9.2</u> LCM <u>0</u> Vis. <u>54</u> WL <u>10.8</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4790 12 1/4</u>

Blow Description 1" built to string OBB in 4 min. F.F.P. RECEIVED
No blow-back. F.S.T.P.
1" built to string OBB in 6 min. F.F.P.
No blow-back. F.S.T.P.

Recovery — Total Feet 1120 GIP 0 Ft. in DC 0 Ft. in DP 1120

Rec. <u>145</u> Feet Of <u>Gassy mud cut with</u>	<u>10</u> %gas	%oil	<u>55</u> %water	<u>35</u> %mud
Rec. <u>975</u> Feet Of <u>Very slim mud cut with</u>	<u>5</u> %gas	%oil	<u>90</u> %water	<u>5</u> %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud

BHT 126 °F Gravity °API D@ °F Corrected Gravity °API

RW 0.32 @ 64 °F Chlorides 23,800 ppm Recovery Chlorides 6,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2448</u>	<u>2385</u>		<u>3017 "02:35"</u>	<u>12:00 A.M.</u>
(B) First Initial Flow Pressure	<u>149</u>	<u>85</u>		(depth) <u>4807</u>	T-Started <u>2:35 A.M.</u>
(C) First Final Flow Pressure	<u>362</u>	<u>366</u>		Recorder No. <u>10242</u>	T-Open <u>5:05 A.M.</u>
(D) Initial Shut-In Pressure	<u>1696</u>	<u>1697</u>		(depth) <u>4832</u>	T-Pulled <u>8:05 A.M.</u> <u>11:20</u>
(E) Second Initial Flow Pressure	<u>481</u>	<u>379</u>		Recorder No. <u> </u>	T-Out <u>11:30 A.M.</u>
(F) Second Final Flow Pressure	<u>599</u>	<u>585</u>		(depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>1692</u>	<u>1693</u>		PSI Initial Opening <u>30</u>	Test <u>800</u> ✓
(Q) Final Hydrostatic Mud	<u>2407</u>	<u>2362</u>		PSI Initial Shut-in <u>60</u>	Jars <u>260</u> ✓
				Final Flow <u>30</u>	Safety Joint <u>50</u> ✓
				Final Shut-in <u>60</u>	Straddle <u> </u>

40610234.017

TRILOBITE TESTING L.L.C. 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 Roger L. Martin

Our Representative

Circ. Sub
 Sampler
 Extra Packer
 Elec. Rec. 150 ✓
 Mileage 70 ✓
 Other 2 Hrs. ✓
 TOTAL PRICE \$ 4,330.00



**TRILOBITE
TESTING, INC**

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MAY 07 2002
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DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 S Market
Wichita KS 67202

ATTN: Roger Martin

16-33S-19W Comanche

Christopher "1-16"

Start Date: 2001.04.07 @ 18:08:00

End Date: 2001.04.08 @ 00:30:00

Job Ticket #: 13997 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Lario Oil & Gas

Christopher "1-16"

16-33S-19W Comanche

DST #: 2

Allamont/Pawnee

2001.04.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Lario Oil & Gas

301 S Market
Wichita KS 67202

ATTN: Roger Martin

Christopher "1-16"

16-33S-19W Comanche

Job Ticket: 13997

DST#: 2

Test Start: 2001.04.07 @ 18:08:00

GENERAL INFORMATION:

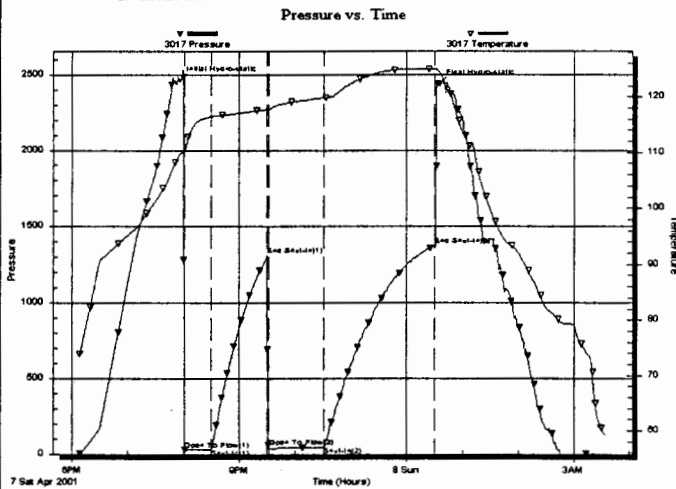
Formation: **Altamont/Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:01:03
 Time Test Ended: 00:30:00
 Interval: **5042.00 ft (KB) To 5120.00 ft (KB) (TVD)**
 Total Depth: 5120.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Fair

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Test Type: Conventional Bottom Hole
 Tester: Lanny Saloga
 Unit No: 14
 Reference Elevations: 1984.00 ft (KB)
 1975.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: **3017** Inside
 Press@RunDepth: 41.24 psig @ 5044.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2001.04.07 End Date: 2001.04.08 Last Calib.: 2001.04.05
 Start Time: 18:08:08 End Time: 03:35:18 Time On Btm: 2001.04.07 @ 19:56:18
 Time Off Btm: 2001.04.08 @ 00:35:18

TEST COMMENT: 1" built to strong OBB in 3 min. Cracked 2" slightly. I.F.P.
 No blow-back. I.S.I.P.
 Strong immed. GTS in 5 min. See flow chart. F.F.P.
 No blow-back. F.S.I.P. Gas burned. Press. up gas bott



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
109	2458.23	109.68	Initial Hydro-static
113	25.24	110.30	Open To Flow (1)
142	32.85	116.47	Shut-In(1)
203	1308.98	117.80	End Shut-In(1)
204	40.60	117.85	Open To Flow (2)
263	41.24	119.83	Shut-In(2)
383	1371.93	125.00	End Shut-In(2)
388	2435.86	124.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4977 Ft. GIP	0.00
65.00	Gas cut Mud 10%G 90%M	0.91

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate	0.13	2.00	6.14
Max. Gas Rate	0.13	2.00	6.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Christopher "1-16"

301 S Market
Wichita KS 67202

16-33S-19W Comanche

Job Ticket: 13997

DST#: 2

ATTN: Roger Martin

Test Start: 2001.04.07 @ 18:08:00

Tool Information

Drill Pipe:	Length: 5042.00 ft	Diameter: 3.80 inches	Volume: 70.73 bbl	Tool Weight: 2800.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 4000.00 lb
Drill Pipe Above KB:	27.00 ft			Tool Chased ft
Depth to Top Packer:	5037.00 ft			String Weight: Initial 56000.00 lb
Depth to Bottom Packer:	ft			Final 56000.00 lb
Interval between Packers:	ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

1" built to strong OBB in 3 min. Cracked 2" slightly. I.F.P.
No blow-back. I.S.I.P.

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Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			5016.00	
S.I. Tool	5.00			5021.00	
HMV	5.00			5026.00	
Jars	5.00			5031.00	
Safety Joint	2.00			5033.00	
Packer	4.00			5037.00	22.00 Bottom Of Top Packer
Packer	5.00			5042.00	
Stubb	1.00			5043.00	
Perforations	1.00			5044.00	
Recorder	0.00	3017	Inside	5044.00	
Perforations	9.00			5053.00	
C.O. Sub	1.00			5054.00	
Blank Spacing	63.00			5117.00	
Recorder	0.00	10242	Inside	5117.00	
C.O. Sub	1.00			5118.00	
Bullnose	2.00			5120.00	83.00 Bottom Packers & Anchor
Total Tool Length:	105.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Christopher "1-16"

301 S Market
Wichita KS 67202

16-33S-19W Comanche

ATTN: Roger Martin

Job Ticket: 13997 DST#:2

Test Start: 2001.04.07 @ 18:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: -999999 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: - ppm

Viscosity: 48.00 sec/qt

Cushion Volume: bbl

214748364

Water Loss: 10.36

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4977 Fl. GIP	0.000
65.00	Gas cut Mud 10%G 90%M	0.912

Total Length: 65.00 ft Total Volume: 0.910 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: 3017

Laboratory Name: Caraw ay

Laboratory Location: Liberal KS

Recovery Comments:

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas

Christopher "1-16"

301 S Market
Wichita KS 67202

16-33S-19W Comanche

Job Ticket: 13997

DST#: 2

ATTN: Roger Martin

Test Start: 2001.04.07 @ 18:08:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (kPaa)	Gas Rate (Mcf/d)
2	20	0.13	1.00	5.76
2	30	0.13	1.00	5.76
2	40	0.13	2.00	6.14
2	50	0.13	2.00	6.14
2	55	0.13	2.00	6.14

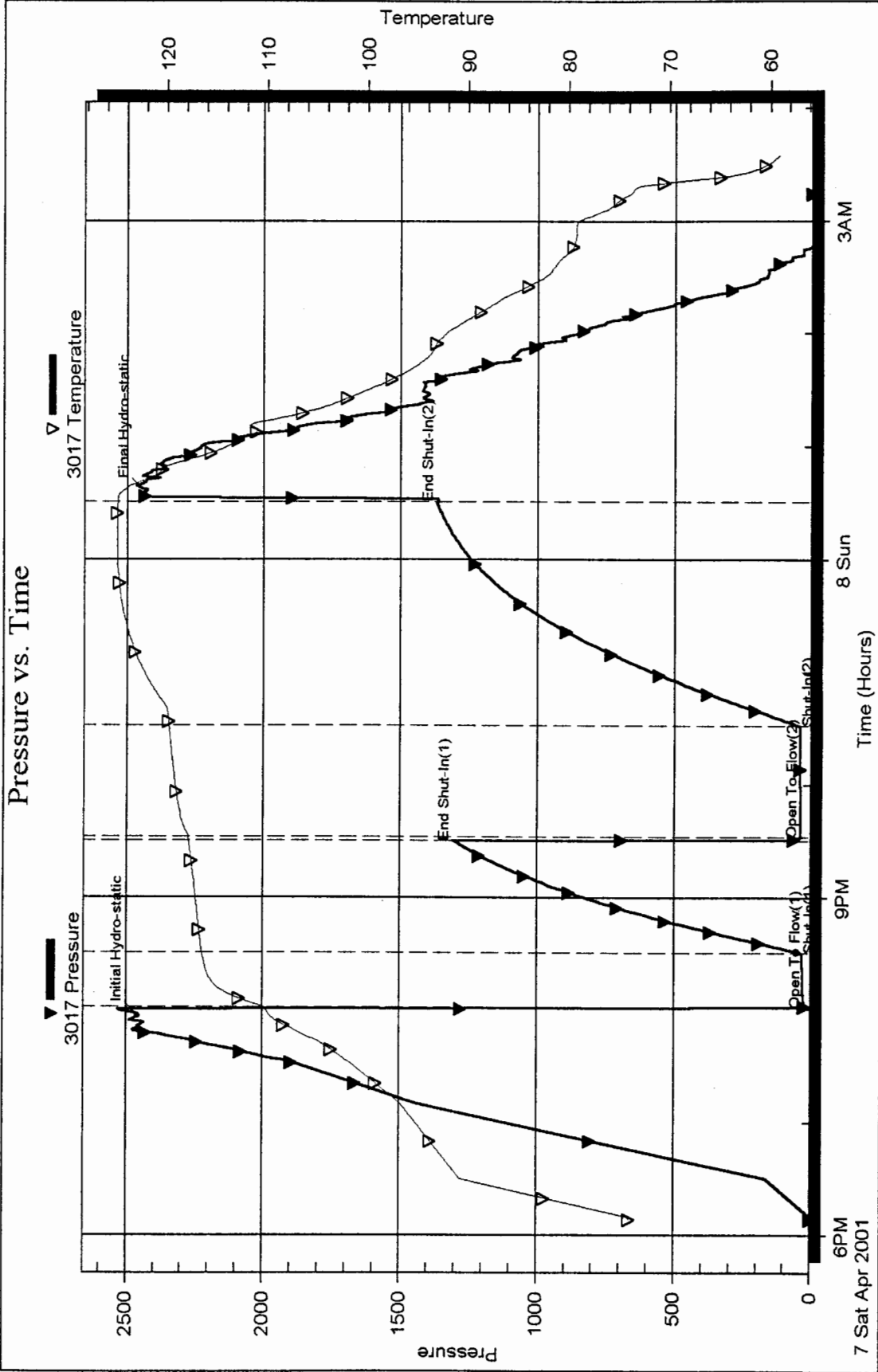
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Serial #: 3017

Inside Lario Oil & Gas

16-33S-19W Comanche

Pressure vs. Time



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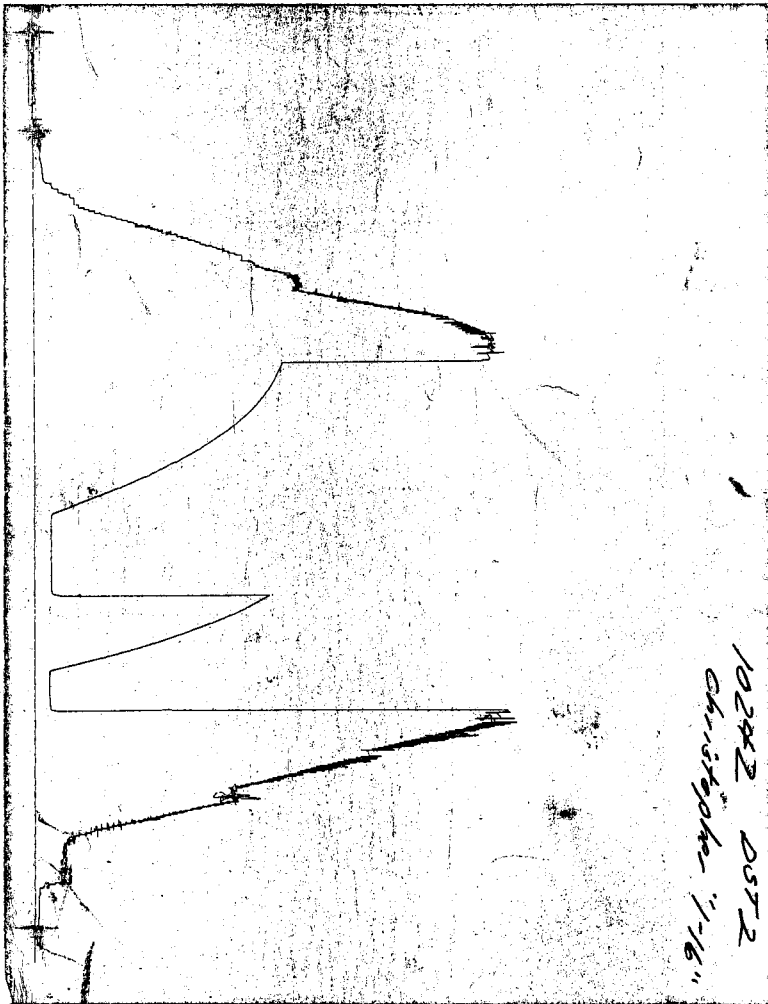
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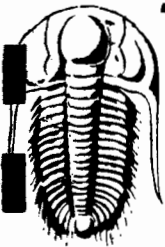
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CHART PAGE

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





TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Lorrie Oil & Gas Co.
OPERATOR

Christopher "1-16"
WELL NAME AND NO.

2
DST NO.

GTS 5 min. into F.F.P.

IFP

F.F.P.

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water (PSIG)	Orifice Size	CF/D
	<i>No</i>			<i>10</i>	<i>To work to Gauge.</i>	<i>1/8"</i>	
	<i>Gas</i>			<i>20</i>	<i>1</i>	<i>"</i>	<i>5,400</i>
				<i>30</i>	<i>1</i>	<i>"</i>	<i>5,400</i>
				<i>40</i>	<i>2</i>	<i>"</i>	<i>5,800</i>
				<i>50</i>	<i>2</i>	<i>"</i>	<i>5,800</i>
				<i>55</i>	<i>2</i>	<i>"</i>	<i>5,800</i>
				<i>60</i>	<i>Pressure up Gas Bottle.</i>		

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Remarks: *Gas burned.*
1 sample to Caraway.

TRILOBITE TESTING L.L.C.

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N^o 13997

Test Ticket

Well Name & No. Christopher "1-16" Test No. 2 Date 4-7-2001
 Company Lacia Oil & Gas Co. Zone Tested Altamont/Pownee
 Address Wichita Ks. 67202 Elevation 1984 KB 1975 GL
 Co. Rep / Geo. Roger Martin Cont. Duke Rig 4 Est. Ft. of Pay Por. %
 Location: Sec. 16 Twp. 33S Rge. 19W Co. Crawford State Ks
 No. of Copies See Distribution Sheet (Y, N) Y Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 5042-5120 Initial Str Wt./Lbs. 56,000 Unseated Str Wt./Lbs. 56,000
 Anchor Length 78' Tool 127 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 4,000
 Top Packer Depth 5037 Tool Weight 2,800
 Bottom Packer Depth 5042 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5120 Wt. Pipe Run Drill Collar Run 0
 Mud Wt. 9.4 LCM 0 Vis. 48 WL 10.4 Drill Pipe Size 4 1/2 XH Ft. Run 5042 27' up
 Blow Description 1" built to string OBB in 3 min. Cracked 2" F.F.P.
No blow-back. F.S.T.P.
String immov. BTS in 5 min. See Flow Charts F.F.P.
No blow-back. F.S.T.P.

Recovery — Total Feet 65 GIP 4977 Ft. in DC 0 Ft. in DP 65
 Rec. 65 Feet Of Gas cut mud 10% gas %oil %water 90% mud
 Rec. Feet Of RECEIVED %gas %oil %water %mud
 Rec. Feet Of MAY 07 2001 %gas %oil %water %mud
 Rec. Feet Of KCC WICHITA %gas %oil %water %mud
 BHT 125 °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 7,000 ppm System

	AK-1	Alpine	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2552</u>	<u>2458</u>	<u>3017 18:08</u>	<u>4:30 PM</u>
(B) First Initial Flow Pressure	<u>67</u>	<u>25</u>	(depth) <u>5044</u>	T-Started <u>6:08 PM</u>
(C) First Final Flow Pressure	<u>67</u>	<u>32</u>	Recorder No. <u>10242</u>	T-Open <u>8:00 PM</u>
(D) Initial Shut-In Pressure	<u>1316</u>	<u>1308</u>	(depth) <u>5117</u>	T-Pulled <u>12:30 AM</u>
(E) Second Initial Flow Pressure	<u>77</u>	<u>40</u>	Recorder No. <u> </u>	T-Out <u>7:40 AM</u>
(F) Second Final Flow Pressure	<u>77</u>	<u>41</u>	(depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>1380</u>	<u>1371</u>	Initial Opening <u>30</u>	Test <u>9.00</u> ✓
(Q) Final Hydrostatic Mud	<u>2501</u>	<u>2435</u>	Initial Shut-in <u>60</u>	Jars <u>200</u> ✓

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Approved By Roger L. Martin

Our Representative Young J. Salge

Final Flow 60 Safety Joint 150 ✓
 Final Shut-in 120 Straddle
 Circ. Sub
 Sampler
 Extra Packer
 Elec. Rec. 150 ✓
 Mileage 70 ✓
 Other 1 H.V. ✓
 TOTAL PRICE \$ 4,400⁰⁰



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

301 S Market
Wichita KS 67202

ATTN: Roger Martin

16-33S-19W Comanche

Christopher "1-16"

Start Date: 2001.04.09 @ 02:20:00

End Date: 2001.04.09 @ 08:10:00

Job Ticket #: 13998 DST #: 3

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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

301 S Market
Wichita KS 67202

ATTN: Roger Martin

Christopher "1-16"

16-33S-19W Comanche

Job Ticket: 13998

DST#: 3

Test Start: 2001.04.09 @ 02:20:00

GENERAL INFORMATION:

Formation: **Congl./Miss.**

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

Time Tool Opened: 04:29:21

Time Test Ended: 08:10:00

Test Type: **Conventional Bottom Hole**

Tester: **Lanny Saloga**

Unit No: **14**

Interval: **5174.00 ft (KB) To 5250.00 ft (KB) (TVD)**

Total Depth: **5250.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1984.00 ft (KB)**

1975.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: **3017** Inside

Press@RunDepth: **43.44 psig @ 5176.00 ft (KB)**

Start Date: **2001.04.09**

End Date: **2001.04.09**

Start Time: **02:20:11**

End Time: **10:31:20**

Capacity: **7000.00 psig**

Last Calib.: **2001.04.05**

Time On Btm: **2001.04.09 @ 04:17:21**

Time Off Btm: **2001.04.09 @ 08:16:06**

TEST COMMENT: **Strong OBB in 40 sec. GTS in 6 min. See flow chart. I.F.P.**

No blow-back. I.S.I.P.

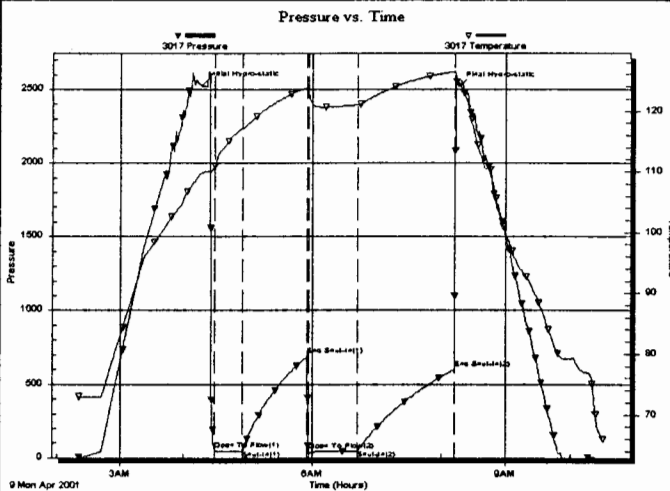
Strong immed. See flow chart. F.F.P.

No blow-back. F.S.I.P. Gas burned.

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PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
118	2523.02	109.83	Initial Hydro-static
130	48.59	110.97	Open To Flow (1)
155	43.74	117.12	Shut-In(1)
216	690.56	123.92	End Shut-In(1)
217	41.46	123.59	Open To Flow (2)
262	43.44	120.99	Shut-In(2)
352	599.30	126.47	End Shut-In(2)
356	2522.01	124.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	5086 Ft. GIP	0.00
80.00	Sli Gas cut Mud 7%G 93%M	1.12

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.60	25.38
Last Gas Rate	0.13	2.40	6.29
Max. Gas Rate	0.13	2.40	6.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Christopher "1-16"

301 S Market
Wichita KS 67202

16-33S-19W Comanche

Job Ticket: 13998

DST#: 3

ATTN: Roger Martin

Test Start: 2001.04.09 @ 02:20:00

Tool Information

Drill Pipe:	Length: 5166.00 ft	Diameter: 3.80 inches	Volume: 72.47 bbl	Tool Weight: 2800.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 6000.00 lb
Drill Pipe Above KB:	19.00 ft			Tool Chased ft
Depth to Top Packer:	5169.00 ft			String Weight: Initial 54000.00 lb
Depth to Bottom Packer:	ft			Final 54000.00 lb
Interval between Packers:	ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Strong OBB in 40 sec. GTS in 6 min. See flow chart. I.F.P.
No blow-back. I.S.I.P.

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5148.00	
S.I. Tool	5.00			5153.00	
HMV	5.00			5158.00	
Jars	5.00			5163.00	
Safety Joint	2.00			5165.00	
Packer	4.00			5169.00	22.00 Bottom Of Top Packer
Packer	5.00			5174.00	
Stubb	1.00			5175.00	
Perforations	1.00			5176.00	
Recorder	0.00	3017	Inside	5176.00	
Perforations	7.00			5183.00	
C.O. Sub	1.00			5184.00	
Blank Spacing	63.00			5247.00	
Recorder	0.00	10242	Inside	5247.00	
C.O. Sub	1.00			5248.00	
Bullnose	2.00			5250.00	81.00 Bottom Packers & Anchor
Total Tool Length:	103.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas

Christopher "1-16"

301 S Market
Wichita KS 67202

16-33S-19W Comanche

Job Ticket: 13998

DST#: 3

ATTN: Roger Martin

Test Start: 2001.04.09 @ 02:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: -999999 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: - ppm

Viscosity: 61.00 sec/qt

Cushion Volume: bbl

214748364

Water Loss: 9.56

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 7500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	5086 Ft. GIP	0.000
80.00	Slr Gas cut Mud 7%G 93%M	1.122

Total Length: 80.00 ft Total Volume: 1.120 bbl

Num Fluid Samples: 2

Num Gas Bombs: 2

Serial #: 3017

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:

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**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas

Christopher "1-16"

301 S Market
Wichita KS 67202

16-33S-19W Comanche

Job Ticket: 13998

DST#: 3

ATTN: Roger Martin

Test Start: 2001.04.09 @ 02:20:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (kPaa)	Gas Rate (Mcf/d)
1	15	0.25	1.60	25.38
1	20	0.25	1.60	25.38
1	30	0.25	1.80	25.70
2	5	0.25	2.00	26.02
2	10	0.25	1.50	25.22
2	20	0.25	1.00	24.43
2	30	0.13	1.60	5.99
2	40	0.13	2.40	6.29

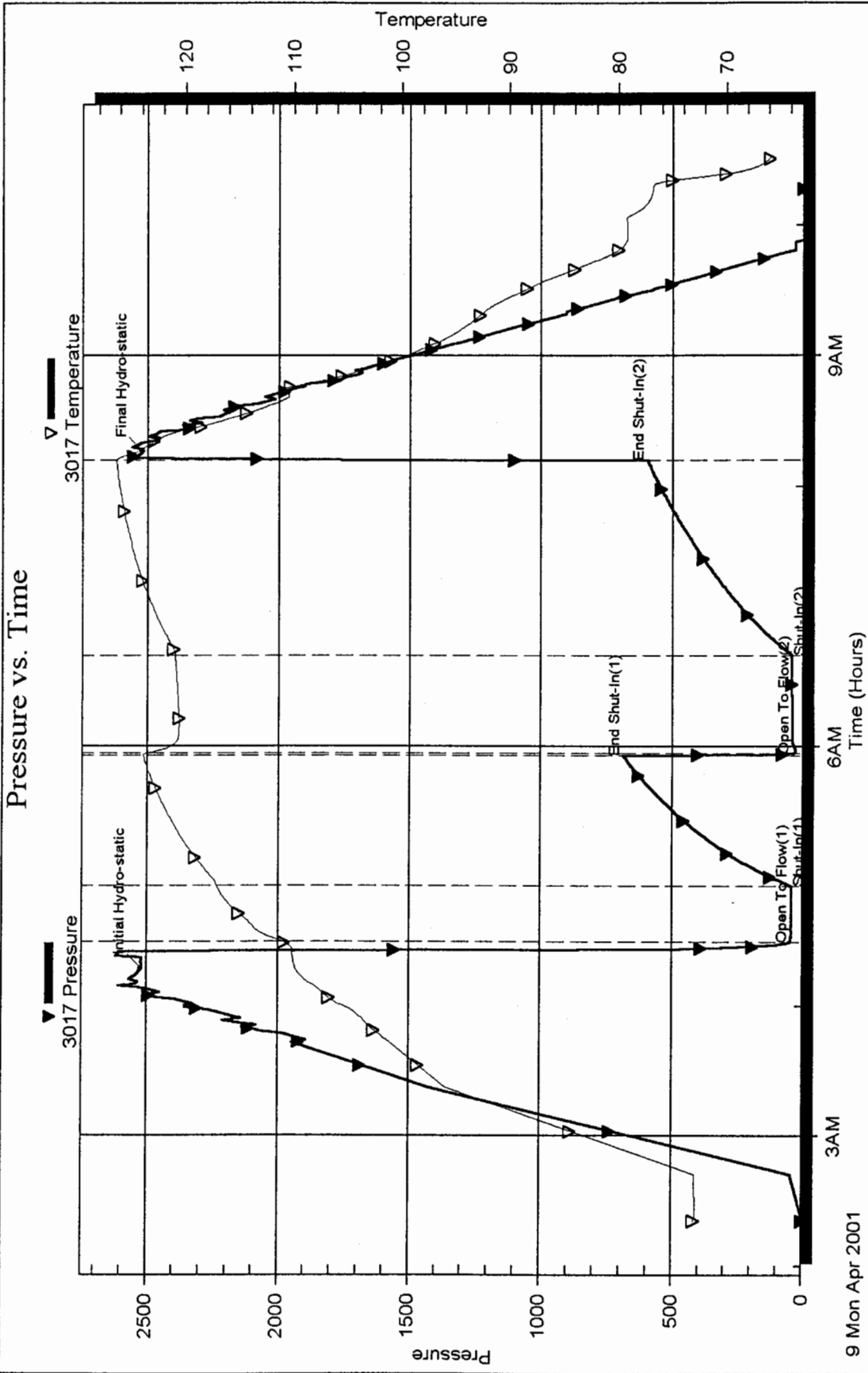
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Serial #: 3017

Inside Lario Oil & Gas

16-33S-19W Comanche

Pressure vs. Time

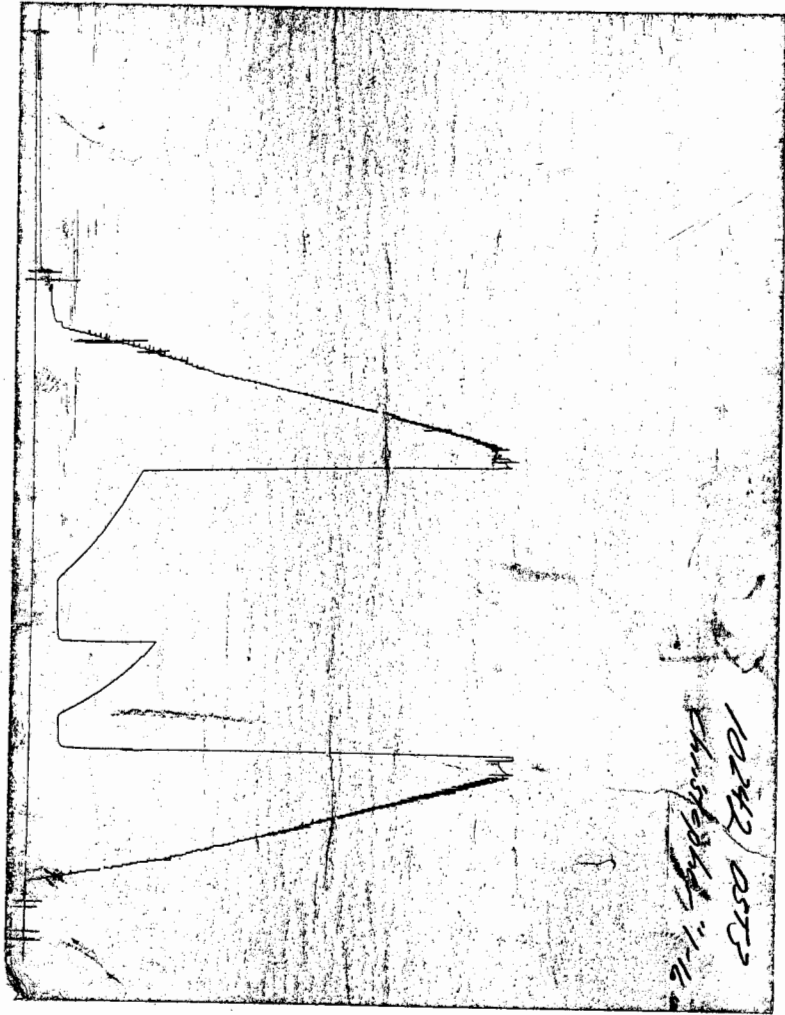


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CHART PAGE

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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13998

Test Ticket

Well Name & No. <u>Christopher "1-16"</u>	Test No. <u>3</u>	Date <u>4-9-2001</u>
Company <u>Lavio Oil & Gas Co.</u>	Zone Tested <u>Congl./Miss.</u>	
Address <u>Wichita ks. 67202</u>	Elevation <u>1984</u> KB <u>1975</u> GL	
Co. Rep / Geo. <u>Roger Martin</u>	Cont. <u>Duke Rig 4</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>16</u>	Twp. <u>33S</u>	Rge. <u>19W</u> Co. <u>Comanche</u> State <u>KS</u>
No. of Copies <u>See Distribution Sheet (Y, N) Y</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>5174-5250</u>	Initial Str Wt./Lbs. <u>54000</u>	Unseated Str Wt./Lbs. <u>54000</u>
Anchor Length <u>76'</u> Tool = <u>27'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>6,000</u>
Top Packer Depth <u>5169</u>	Tool Weight <u>2,800</u>	
Bottom Packer Depth <u>5174</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>5250</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>0</u>
Mud Wt. <u>9.1</u> LCM <u>4#</u> Vis. <u>61</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>5166 19'ip</u>
Blow Description <u>Strong OBB in 40 sec. GTS in 6 min. See Flow Chart. F.F.P.</u>		
<u>No blow-backs F.S.T.P.</u>		
<u>See Flow Chart F.F.P.</u>		
<u>No blow-backs F.S.T.P.</u>		

Recovery — Total Feet <u>80</u>	GIP <u>5086</u>	Ft. in DC <u>0</u>	Ft. in DP <u>80</u>
Rec. <u>80</u> Feet Of <u>51' Gas cut mud</u>	<u>7</u> %gas	%oil	%water <u>93</u> %mud
Rec. <u> </u> Feet Of <u> </u>	RECEIVED	%oil	%water
Rec. <u> </u> Feet Of <u> </u>	<u>MAY 07 2001</u>	%oil	%water
Rec. <u> </u> Feet Of <u> </u>	KCC WICHITA	%oil	%water
BHT <u>126</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API
RW <u> </u> @ <u> </u> °F	Chlorides <u> </u> ppm	Recovery Chlorides <u>7,500</u> ppm	System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2598</u>	<u>2523</u>		<u>3017 "02:20"</u>	<u>1:00 AM</u>
(B) First Initial Flow Pressure	<u>149</u>	<u>48</u>		(depth) <u>5176</u>	T-Started <u>2:20 AM</u>
(C) First Final Flow Pressure	<u>149</u>	<u>43</u>		Recorder No. <u>10242</u>	T-Open <u>4:25 A.M. 9:40</u>
(D) Initial Shut-In Pressure	<u>732</u>	<u>690</u>		(depth) <u>5247</u>	T-Pulled <u>8:10 AM</u>
(E) Second Initial Flow Pressure	<u>149</u>	<u>41</u>		Recorder No. <u> </u>	T-Out <u>10:40 AM</u>
(F) Second Final Flow Pressure	<u>149</u>	<u>43</u>		(depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>644</u>	<u>599</u>		Initial Opening <u>30</u>	Test <u>900</u> ✓
(Q) Final Hydrostatic Mud	<u>2559</u>	<u>2522</u>		Initial Shut-in <u>60</u>	Jars <u>200</u> ✓
				Final Flow <u>45</u>	Safety Joint <u>50</u> ✓
				Final Shut-in <u>90</u>	Straddle <u> </u>

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Approved By Roger L. Martin

Our Representative Emmy S. Salgado

Circ. Sub
 Sampler
 Extra Packer
 Elec. Rec. 150 ✓
 Mileage 70 ✓
 Other
 TOTAL PRICE \$ 1,370.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**

Wichita Ks. 67202

ATTN: Roger Martin

16-33S-19W Comanche

Christopher "1-16"

Start Date: 2001.04.10 @ 04:34:00

End Date: 2001.04.10 @ 10:20:00

Job Ticket #: 13999 DST #: 4

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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

Wichita Ks. 67202

ATTN: Roger Martin

Christopher "1-16"

16-33S-19W Comanche

Job Ticket: 13999

DST#: 4

Test Start: 2001.04.10 @ 04:34:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:33:51

Time Test Ended: 10:20:00

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **5285.00 ft (KB) To 5350.00 ft (KB) (TVD)**

Total Depth: 5350.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1984.00 ft (KB)

1975.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **3017** Inside

Press@RunDepth: 24.38 psig @ 5287.00 ft (KB)

Start Date: 2001.04.10

End Date:

2001.04.10

Start Time: 04:34:11

End Time:

12:38:35

Capacity: 7000.00 psig

Last Calib.: 2001.04.05

Time On Btm: 2001.04.10 @ 06:28:51

Time Off Btm: 2001.04.10 @ 10:23:51

TEST COMMENT: Weak 1" built to strong OBB in 17 min. I.F.P.

No blow-back. I.S.I.P.

Strong OBB immed. F.F.P.

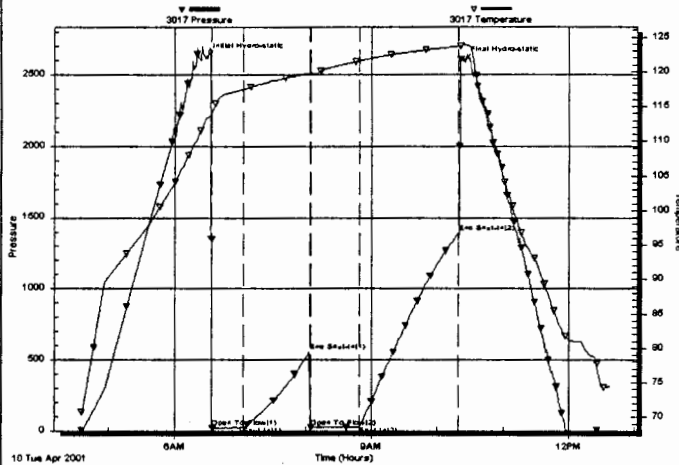
No blow-back. F.S.I.P.

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Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
115	2619.99	113.17	Initial Hydro-static
120	16.77	114.02	Open To Flow (1)
149	22.37	117.46	Shut-In(1)
209	556.50	119.78	End Shut-In(1)
210	20.33	119.81	Open To Flow (2)
255	24.38	121.52	Shut-In(2)
346	1391.18	123.66	End Shut-In(2)
350	2595.29	123.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	??? GIP	0.00
25.00	Very sli Gas ??? cut Mud 3%G 97%M	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Christopher "1-16"

Wichita Ks. 67202

16-33S-19W Comanche

Job Ticket: 13999

DST#: 4

ATTN: Roger Martin

Test Start: 2001.04.10 @ 04:34:00

Tool Information

Drill Pipe:	Length: 5290.00 ft	Diameter: 3.80 inches	Volume: 74.20 bbl	Tool Weight: 2300.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
Drill Pipe Above KB:	32.00 ft			Tool Chased ft
Depth to Top Packer:	5280.00 ft			String Weight: Initial 54000.00 lb
Depth to Bottom Packer:	ft			Final 55000.00 lb
Interval between Packers:	ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Weak 1" built to strong OBB in 17 min. I.F.P.
No blow-back. I.S.I.P.

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			5259.00		
S.I. Tool	5.00			5264.00		
HMV	5.00			5269.00		
Jars	5.00			5274.00		
Safety Joint	2.00			5276.00		
Packer	4.00			5280.00	22.00	Bottom Of Top Packer
Packer	5.00			5285.00		
Stubb	1.00			5286.00		
Perforations	1.00			5287.00		
Recorder	0.00	3017	Inside	5287.00		
Perforations	28.00			5315.00		
C.O. Sub	1.00			5316.00		
Blank Spacing	31.00			5347.00		
Recorder	0.00	10242	Inside	5347.00		
C.O. Sub	1.00			5348.00		
Bullnose	2.00			5350.00	70.00	Bottom Packers & Anchor
Total Tool Length:	92.00					

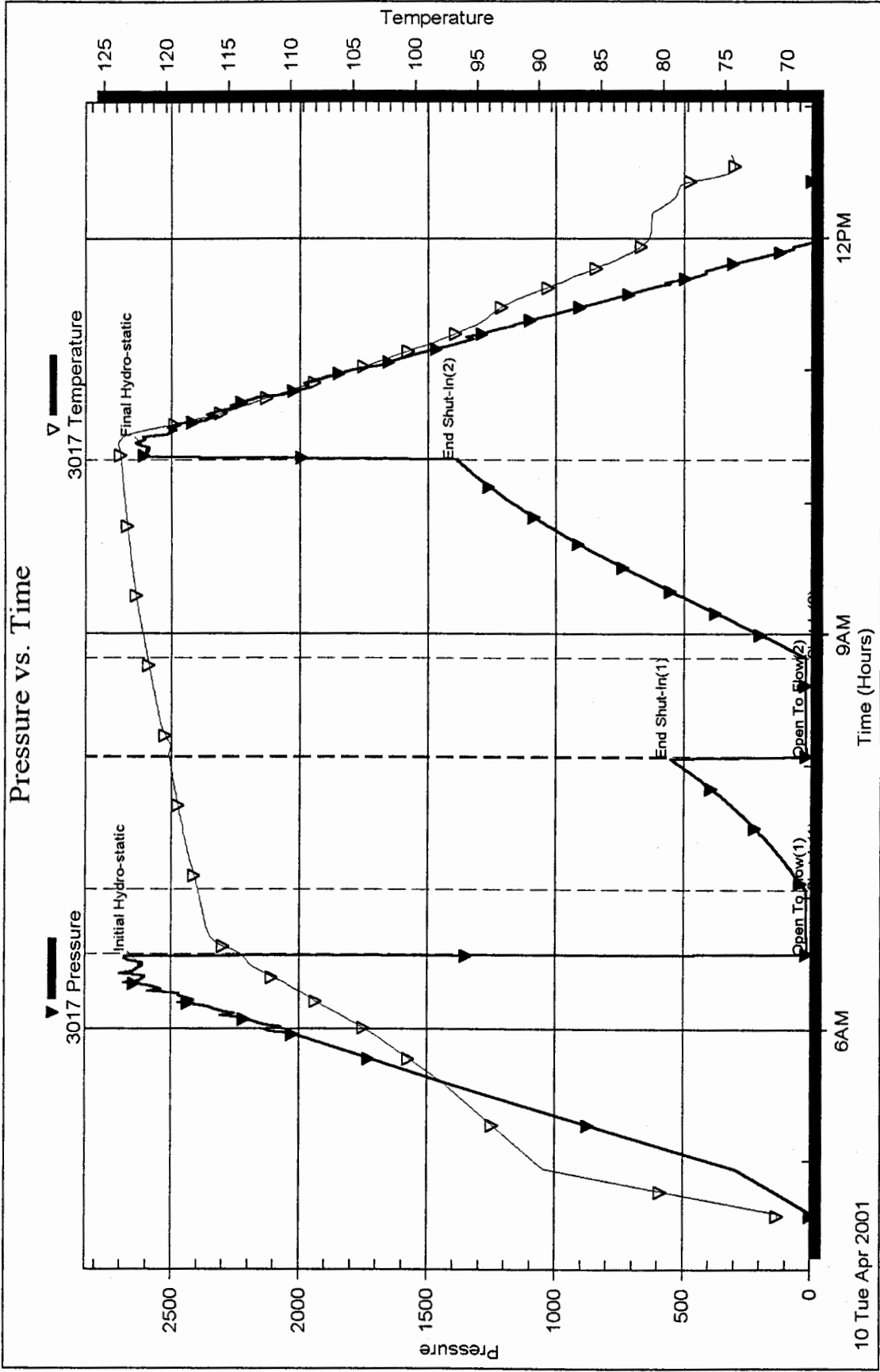
Serial #: 3017

Inside

Lario Oil & Gas

16-33S-19W Comanche

Pressure vs. Time



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Trilobite Testing, Inc

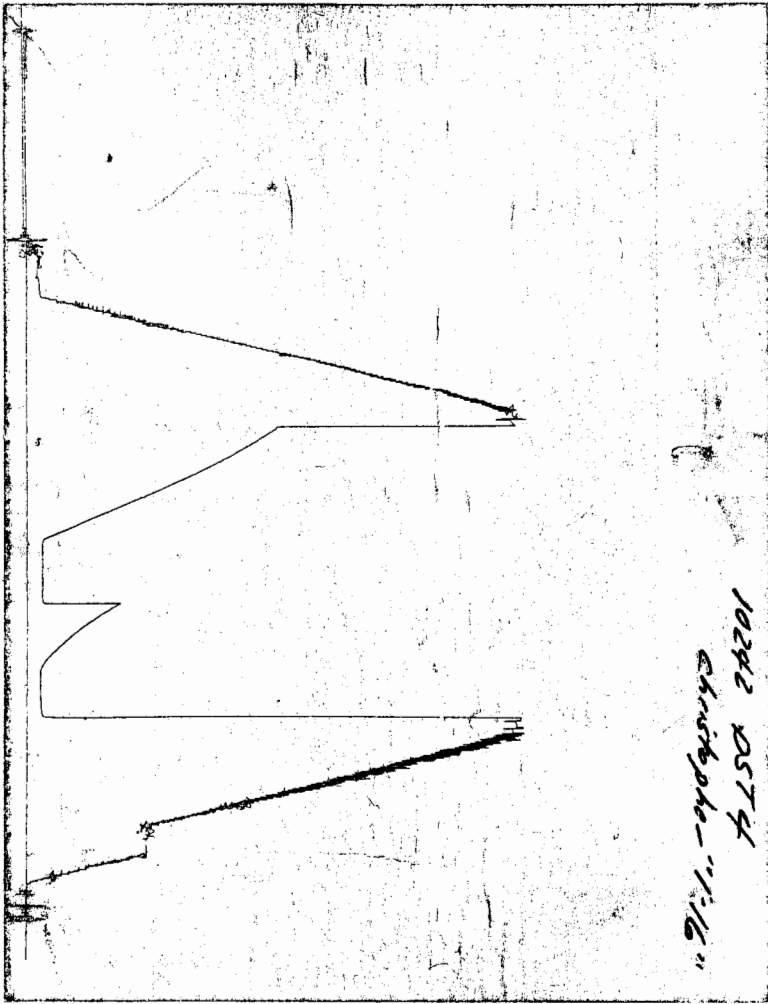
Ref. No: 13999

Printed: 2001.04.19 @ 10:40:14 Page 4

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CHART PAGE

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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13999

Test Ticket

Well Name & No. <u>Christopher "1-16"</u>	Test No. <u>4</u>	Date <u>4-10-2001</u>
Company <u>Lavin Oil & Gas Co.</u>	Zone Tested <u>Miss</u>	
Address <u>Wichita KS, 67202</u>	Elevation <u>1984</u> KB <u>1975</u> GL	
Co. Rep / Geo. <u>Roger Martin</u>	Cont. <u>Duke Rig 4</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>16</u>	Twp. <u>33.5</u>	Rge. <u>19W</u>
	Co. <u>Comanche</u>	State <u>Ks.</u>
No. of Copies <u>See</u> Distribution Sheet (Y, N) <u>Y</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested 5285-5350 Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 55,000
 Anchor Length 65' Tool = 27' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 5,000
 Top Packer Depth 5280 Tool Weight 2,300
 Bottom Packer Depth 5285 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5350 Wt. Pipe Run Drill Collar Run 0
 Mud Wt. 9.0 LCM 4# Vis. 61 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 5290 3240
 Blow Description Weak 1" built to strong OBB in 17 min. I.F.P.

No blow-back. F.S.T.P.
Strong OBB immedi. F.F.P.
No blow-back. F.S.T.P.

Recovery — Total Feet 25 GIP ??? Ft. in DC 0 Ft. in DP 25
 Rec. 25 Feet Of Very slt Gas? and mud 3 %gas %oil %water 97 %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 123 °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 6,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2703</u>	<u>2619</u>		<u>3017 "04:34"</u>	<u>2:45 A.M.</u>
(B) First Initial Flow Pressure	<u>70</u>	<u>16</u>		(depth) <u>5287</u>	T-Started <u>4:34 A.M.</u>
(C) First Final Flow Pressure	<u>70</u>	<u>22</u>		Recorder No. <u>10242</u>	T-Open <u>6:35 A.M.</u>
(D) Initial Shut-In Pressure	<u>560</u>	<u>556</u>		(depth) <u>5347</u>	T-Pulled <u>10:20 A.M.</u> 1:35
(E) Second Initial Flow Pressure	<u>84</u>	<u>20</u>		Recorder No. <u> </u>	T-Out <u>12:45 P.M.</u>
(F) Second Final Flow Pressure	<u>84</u>	<u>24</u>		(depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>1421</u>	<u>1391</u>		PSI Initial Opening <u>30</u>	Test <u>900</u> ✓
(Q) Final Hydrostatic Mud	<u>2680</u>	<u>2595</u>		PSI Initial Shut-in <u>60</u>	Jars <u>200</u> ✓
				Final Flow <u>45</u>	Safety Joint <u>150</u> ✓
				Final Shut-in <u>90</u>	Straddle <u> </u>

41010434.017

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Approved By Roger L. Martin

Our Representative Larry A. Seliga

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 MAY 07 2001
 KCC WICHITA

Circ. Sub
 Sampler
 Extra Packer
 Elec. Rec. 150 ✓
 Mileage 70 ✓
 Other
 TOTAL PRICE \$ 4,370⁰⁰



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**
Wichita Ks. 67202

ATTN: Roger Martin

16-33S-19W Comanche

Christopher "1-16"

Start Date: 2001.04.12 @ 05:45:00

End Date: 2001.04.12 @ 12:30:00

Job Ticket #: 14000 DST #: 5

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

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Lario Oil & Gas

Christopher "1-16"

16-33S-19W Comanche

DST #: 5

Mississippi

2001.04.12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Lario Oil & Gas

Wichita Ks. 67202

ATTN: Roger Martin

Christopher "1-16"

16-33S-19W Comanche

Job Ticket: 14000

DST#: 5

Test Start: 2001.04.12 @ 05:45:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:01:23
 Time Test Ended: 12:30:00

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Test Type: Conventional Straddle
 Tester: Lanny Saloga
 Unit No: 14

Interval: **5350.00 ft (KB) To 5400.00 ft (KB) (TVD)**
 Total Depth: 5780.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Fair

MAY 07 2002

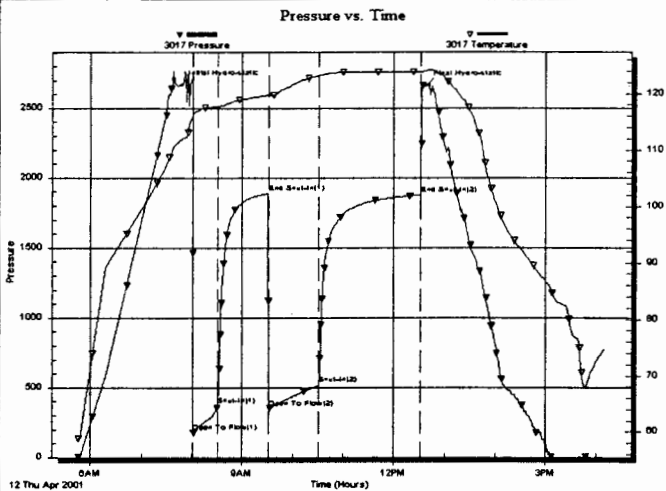
Reference Elevations: 1984.00 ft (KB)
 1975.00 ft (CF)
 KB to GR/CF: 9.00 ft

KCC WICHITA

Serial #: **3017** Inside
 Press@RunDepth: 516.35 psig @ 5353.00 ft (KB)
 Start Date: 2001.04.12 End Date: 2001.04.12
 Start Time: 05:45:13 End Time: 16:11:23

Capacity: 7000.00 psig
 Last Calib.: 2001.04.05
 Time On Btm: 2001.04.12 @ 07:47:08
 Time Off Btm: 2001.04.12 @ 12:37:53

TEST COMMENT: 3" built to strong OBB in 7 min. Cracked 2" slightly. I.F.P.
 No blow -back. I.S.I.P. Opened tool 3 times. Packers held.
 3" built to strong OBB in 6 min. Cracked 2" slightly. F.F.P.
 4" blow -b Bottom packer did not hold.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
122	2668.89	111.90	Initial Hydro-static
137	177.73	116.52	Open To Flow (1)
166	365.32	117.81	Shut-in(1)
226	1889.95	119.76	End Shut-in(1)
227	346.09	119.78	Open To Flow (2)
287	516.35	123.20	Shut-in(2)
407	1876.52	123.93	End Shut-in(2)
413	2661.92	124.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	??? FL GIP "No odor"	0.00
500.00	Gas ? cut Mud 8%G 92%M	7.01
125.00	Sil Gas ? & Wtr cut Mud 4%G 4%W 92%M	1.75
370.00	Gassy? Wtr cut Mud 4%G 38%W 58%M	5.19

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Christopher "1-16"

Wichita Ks. 67202

16-33S-19W Comanche

Job Ticket: 14000

DST#: 5

ATTN: Roger Martin

Test Start: 2001.04.12 @ 05:45:00

Tool Information

Drill Pipe:	Length: 5350.00 ft	Diameter: 3.80 inches	Volume: 75.05 bbl	Tool Weight: 7800.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 40000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 3000.00 lb
Drill Pipe Above KB:	27.00 ft			Tool Chased ft
Depth to Top Packer:	5345.00 ft			String Weight: Initial 56000.00 lb
Depth to Bottom Packer:	5400.00 ft			Final 62000.00 lb
Interval between Packers:	55.00 ft			
Tool Length:	458.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

3" built to strong OBB in 7 min. Cracked 2" slightly. I.F.P.
No blow-back. I.S.I.P. Opened tool 3 times. Packers held.

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5324.00	
S.I. Tool	5.00			5329.00	
HMV	5.00			5334.00	
Jars	5.00			5339.00	
Safety Joint	2.00			5341.00	
Packer	4.00			5345.00	22.00 Bottom Of Top Packer
Packer	5.00			5350.00	
Stubb	1.00			5351.00	
Perforations	1.00			5352.00	
C.O. Sub	1.00			5353.00	
Recorder	0.00	3017	Inside	5353.00	
Blank Spacing	31.00			5384.00	
C.O. Sub	1.00			5385.00	
Perforations	9.00			5394.00	
Recorder	0.00	10242	Inside	5394.00	
Perforations	3.00			5397.00	
Blank Off Sub	0.00			5397.00	
T.C.	3.00			5400.00	55.00 Tool Interval
Packer	1.00			5401.00	
Stubb	1.00			5402.00	
Perforations	1.00			5403.00	
C.O. Sub	1.00			5404.00	
Blank Spacing	373.00			5777.00	
Recorder	0.00	13630	Below	5777.00	
C.O. Sub	1.00			5778.00	
Bullnose	3.00			5781.00	381.00 Bottom Packers & Anchor
Total Tool Length:		458.00			

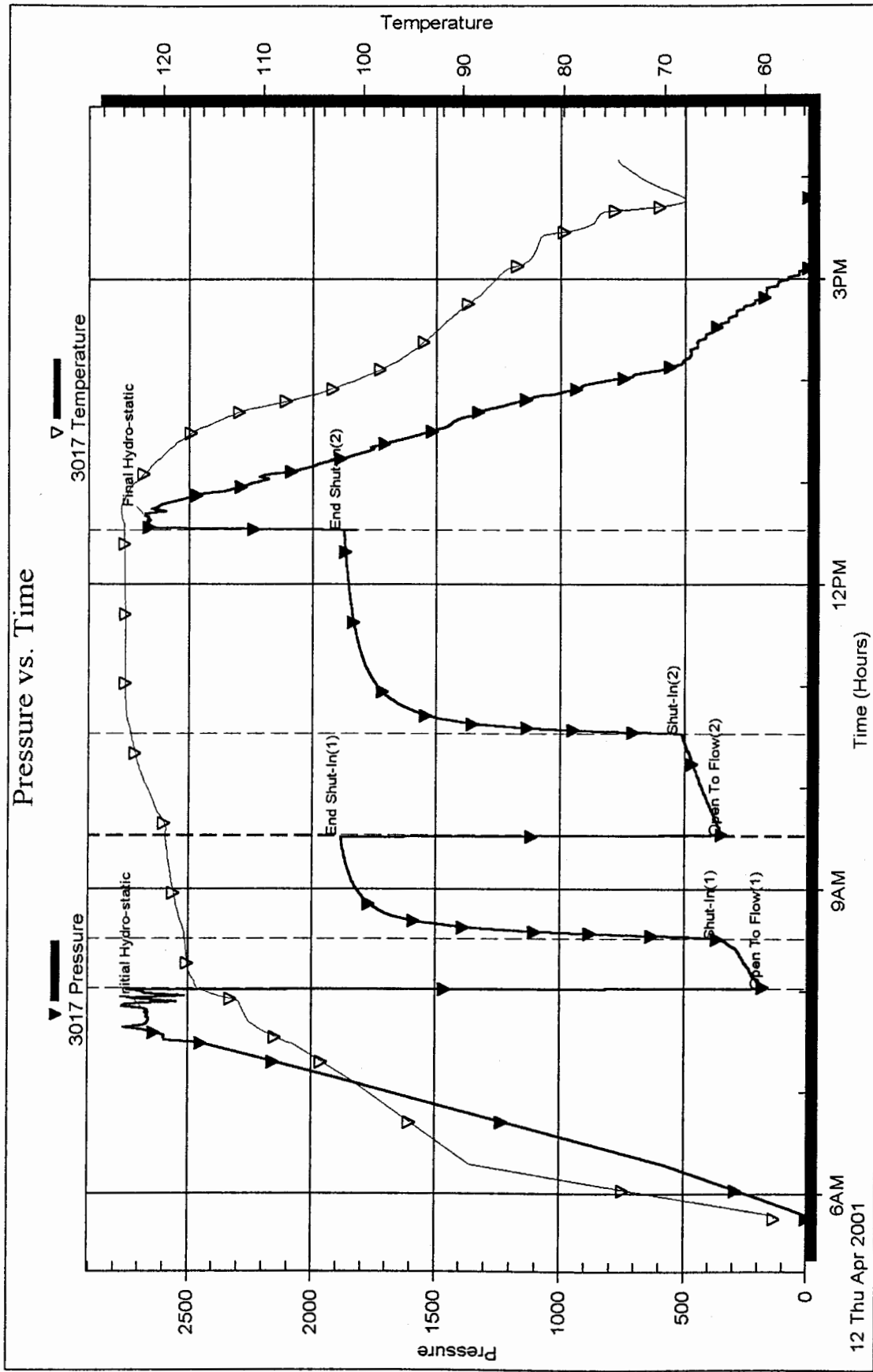
Serial #: 3017

Inside

Lario Oil & Gas

16-33S-19W Comanche

Pressure vs. Time



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Trilobite Testing, Inc

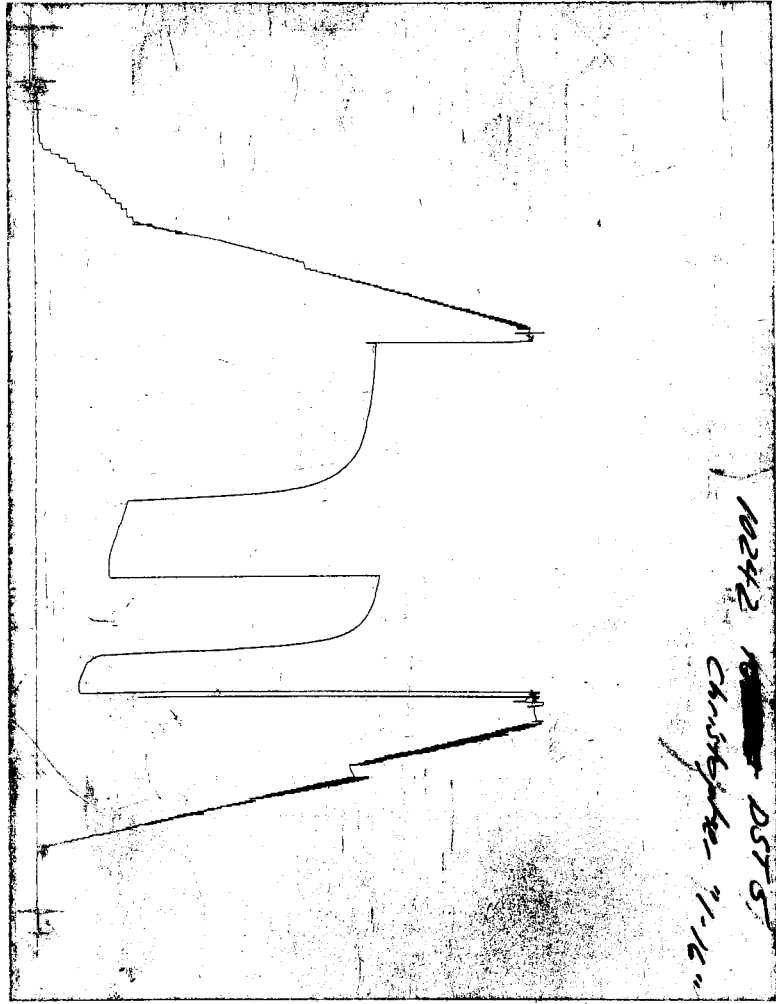
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Printed: 2001.04.19 @ 10:39:36 Page 4

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CHART PAGE

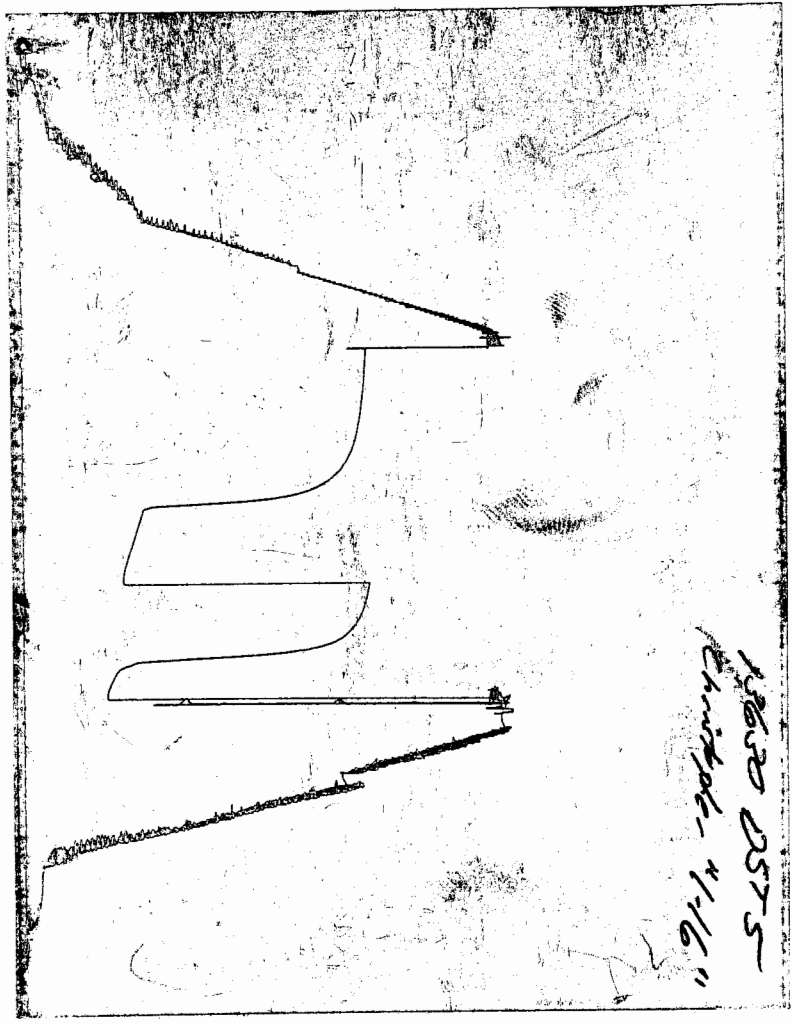
This is a photocopy of the actual AK-1 recorder chart



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CHART PAGE

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



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N^o 14000

MAY 07 2001

Test Ticket

KCC WICHITA

Well Name & No. <u>Christopher "1-16"</u>	Test No. <u>5</u>	Date <u>4-12-2001</u>
Company <u>Louis Oil & Gas Co.</u>	Zone Tested <u>Miss.</u>	
Address <u>Wichita KS. 67202</u>	Elevation <u>1984</u> KB <u>1975</u> GL	
Co. Rep / Geo. <u>Roger Martin</u>	Cont. <u>Duke Rig 4</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>16</u>	Twp. <u>33S</u>	Rge. <u>19W</u> Co. <u>Comanche</u> State <u>Ks.</u>
No. of Copies <u>see</u> Distribution Sheet (Y, N) <u>Y</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested 5350-5400 Initial Str Wt./Lbs. 56,000 Unseated Str Wt./Lbs. 62,000
 Anchor Length 50' Tail=380' Tool=27' Wt. Set Lbs. 40,000 Wt. Pulled Loose/Lbs. 3,000
 Top Packer Depth 5345 Tool Weight 7,800
 Bottom Packer Depth 5350 S-PK=5400 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5780 Wt. Pipe Run Drill Collar Run 0
 Mud Wt. 9.3 LCM 4# Vis. 61 WL 7.0 Drill Pipe Size 4 1/2 XH. Ft. Run 5350 27' up
 Blow Description 3" built to string OBB in 7 min. Cracked 2" slightly. T.F.P.
No blow-back. T.S.T.P.
3" built to string OBB in 6 min. Cracked 2" slightly. F.F.P.
4" blow-back. F.S.T.P.

Recovery — Total Feet 995 GIP ??? No odor Ft. in DC 0 Ft. in DP 995
 Rec. 500 Feet Of Gas?? cut mud 8 %gas %oil %water 92 %mud
 Rec. 125 Feet Of 5lb gas? & 4lb cut mud 4 %gas %oil 4 %water 92 %mud
 Rec. 370 Feet Of Gas?? cut mud 4 %gas %oil 38 %water 58 %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 123 °F Gravity °API D@ °F Corrected Gravity °API
 RW 0.38 @ 73 °F Chlorides 17,200 ppm Recovery Chlorides 5,000 ppm System

	AK-1	Alpine	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2744</u>	<u>2668</u>	<u>3017 "05-45"</u>	<u>2:45 AM.</u>
(B) First Initial Flow Pressure	<u>247</u>	<u>177</u>	(depth) <u>5353</u>	T-Started <u>5:45 AM.</u>
(C) First Final Flow Pressure	<u>383</u>	<u>365</u>	Recorder No. <u>10242</u>	T-Open <u>8:00 AM.</u>
(D) Initial Shut-In Pressure	<u>1916</u>	<u>1889</u>	(depth) <u>5394</u>	T-Pulled <u>12:30 PM.</u>
(E) Second Initial Flow Pressure	<u>439</u>	<u>346</u>	Recorder No. <u>13630</u>	T-Out <u>4:15 PM.</u>
(F) Second Final Flow Pressure	<u>554</u>	<u>516</u>	(depth) <u>5777</u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>1897</u>	<u>1876</u>	Initial Opening <u>30</u>	Test <u>✓</u>
(Q) Final Hydrostatic Mud	<u>2725</u>	<u>2661</u>	Initial Shut-in <u>60</u>	Jars <u>✓</u>
			Final Flow <u>60</u>	Safety Joint <u>✓</u>
			Final Shut-in <u>120</u>	Straddle <u>✓</u>
				Circ. Sub <u>✓</u>
				Sampler <u> </u>
				Extra Packer <u>✓</u>
				Elec. Rec. <u>✓</u>
				Mileage <u>70</u> ✓
				Other <u>3 Hrs.</u> ✓

41210545-017
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 Approved By Roger Martin
 Our Representative Jimmy S. Sabaga

Opened tool 3 times
 third try packers held.
 Bottom packer did not hold.
 TOTAL PRICE \$ 4860⁰⁰



DRILL STEM TEST REPORT

Prepared For: **Lario Oil & Gas**
Wichita Ks. 67202

RECEIVED
MAY 07 2001
KCC WICHITA

ATTN: Roger Martin

16-33S-19W Comanche

Christopher "1-16"

Start Date: 2001.04.14 @ 05:34:00

End Date: 2001.04.14 @ 11:00:00

Job Ticket #: 14076 DST #: 6

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

Christopher "1-16"

Wichita Ks. 67202

16-33S-19W Comanche

Job Ticket: 14076

DST#: 6

ATTN: Roger Martin

Test Start: 2001.04.14 @ 05:34:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:01:25

Time Test Ended: 11:00:00

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **6042.00 ft (KB) To 6078.00 ft (KB) (TVD)**

Reference Elevations: 1984.00 ft (KB)

Total Depth: 6078.00 ft (KB)

1975.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: **3017** Inside

Press@RunDepth: psig @ 6044.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.04.14

End Date: 2001.04.14

Last Calib.: 2001.04.05

Start Time: 05:34:15

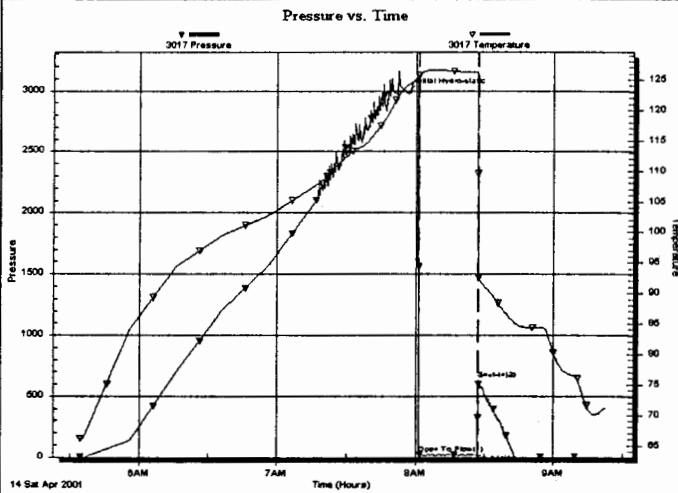
End Time: 09:23:10

Time On Btm: 2001.04.14 @ 07:56:10

Time Off Btm:

TEST COMMENT: Surface blow built to 2" in 30 min. I.F.P.
No blow -back. I.S.I.P.
3/4" blow built to 1" in 5 min. Stabilized. F.F.P.
No blow -back. F.S.I.P.

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PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
142	2984.92	124.10	Initial Hydro-static
148	21.41	125.85	Open To Flow (1)
173	17.93	126.31	Shut-In(1)
173	633.37	92.82	Shut-In(2)

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.14

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas

Christopher "1-16"

Wichita Ks. 67202

16-33S-19W Comanche

Job Ticket: 14076

DST#: 6

ATTN: Roger Martin

Test Start: 2001.04.14 @ 05:34:00

Tool Information

Drill Pipe:	Length: 6033.00 ft	Diameter: 3.80 inches	Volume: 84.63 bbl	Tool Weight: 1800.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 13000.00 lb
Drill Pipe Above KB:	18.00 ft			Tool Chased ft
Depth to Top Packer:	6037.00 ft			String Weight: Initial 62000.00 lb
Depth to Bottom Packer:	ft			Final 62000.00 lb
Interval between Packers:	ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Surface blow built to 2" in 30 min. I.F.P.
No blow-back. I.S.I.P.

Tool Description

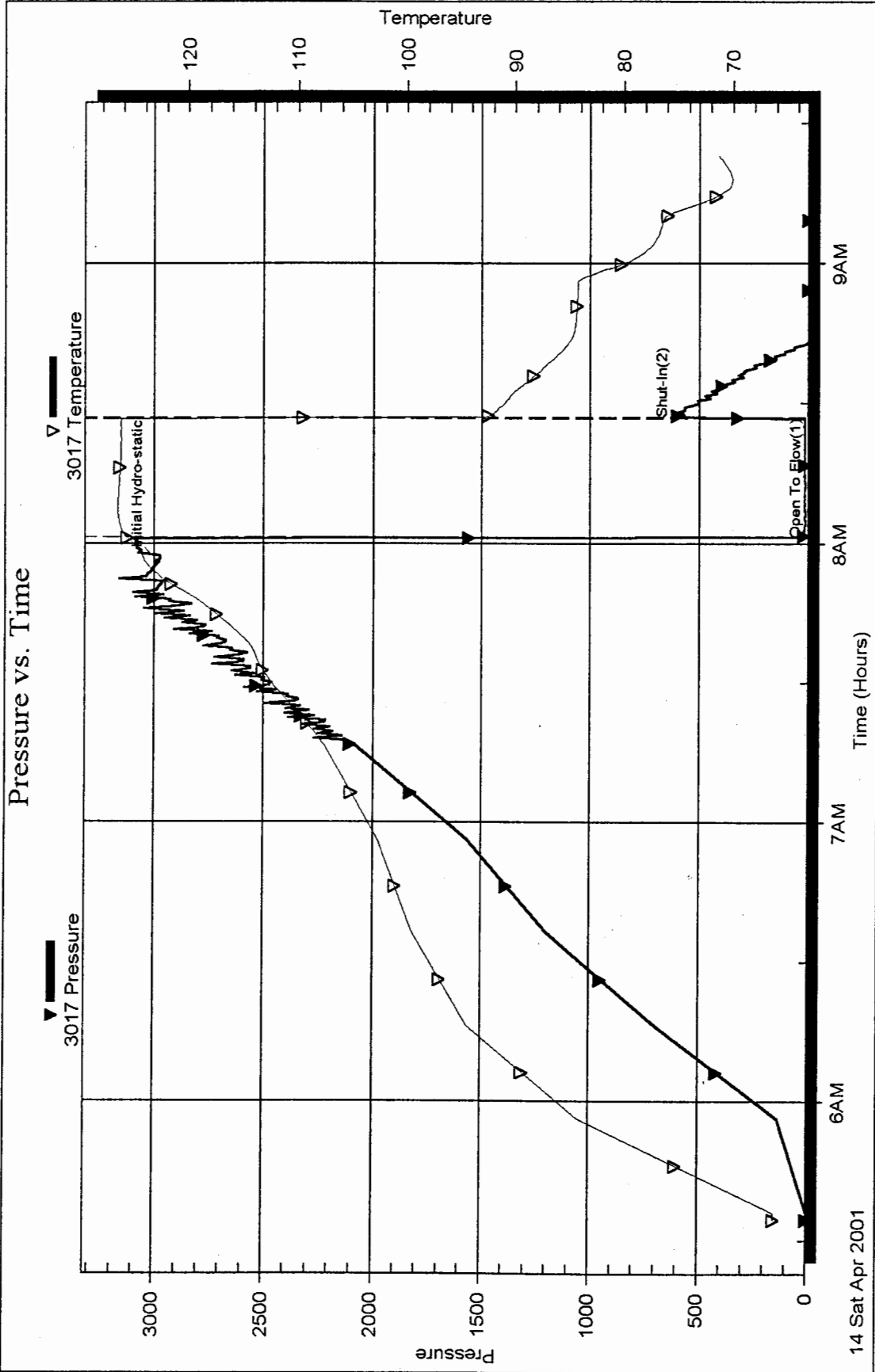
Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			6016.00	
S.I. Tool	5.00			6021.00	
HMV	5.00			6026.00	
Jars	5.00			6031.00	
Safety Joint	2.00			6033.00	
Packer	4.00			6037.00	22.00 Bottom Of Top Packer
Packer	5.00			6042.00	
Stubb	1.00			6043.00	
Perforations	1.00			6044.00	
Recorder	0.00	3017	inside	6044.00	
Perforations	32.00			6076.00	
Recorder	0.00	10242	inside	6076.00	
Bullnose	2.00			6078.00	41.00 Bottom Packers & Anchor

Total Tool Length: 63.00

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KCC WICHITA

Pressure vs. Time



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MAY 07 2001
KCC WICHITA

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 14076

Test Ticket

Well Name & No. <u>Christopher "1-16"</u>	Test No. <u>6</u>	Date <u>4-14-2001</u>
Company <u>Louis Oil & Gas Co.</u>	Zone Tested <u>Viola</u>	
Address <u>Wichita Ks. 67202</u>	Elevation <u>1984</u> KB <u>1975</u> GL	
Co. Rep / Geo. <u>Roger Martin</u>	Cont. <u>Duke Rig 4</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>16</u>	Twp. <u>33S</u>	Rge. <u>19W</u> Co. <u>Cumacche</u> State <u>Ks.</u>
No. of Copies <u>See</u> Distribution Sheet (Y, N) <u>Y</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>6042-6078</u>	Initial Str Wt./Lbs. <u>62,000</u>	Unseated Str Wt./Lbs. <u>62,000</u>
Anchor Length <u>36'</u> <u>Teal=27'</u>	Wt. Set Lbs. <u>22,000</u>	Wt. Pulled Loose/Lbs. <u>13,000</u>
Top Packer Depth <u>6037</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>6042</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>6078</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>0</u>
Mud Wt. <u>9.2</u> LCM <u>8#</u> Vis. <u>67</u> WL <u>7.6</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>6033 18'4"</u>
Blow Description <u>Surface blow built to 2" in 30 min. T.F.P.</u>		
<u>No blow-back. T.S.T.P.</u>		
<u>3/4" built to 1" in 5 min. Stabilized. F.F.P.</u>		
<u>No blow-back. F.S.T.P.</u>		

Recovery — Total Feet <u>10</u>	GIP <u>0</u>	Ft. in DC <u>0</u>	Ft. in DP <u>10</u>
Rec. <u>10'</u> Feet Of <u>Mud</u>	%gas <u> </u>	%oil <u> </u>	%water <u>100</u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
BHT <u> </u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u> </u> @ <u> </u> °F Chlorides <u> </u>	ppm Recovery Chlorides <u>6,000</u>	ppm System <u> </u>	

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>No</u>	<u>2984</u>	PSI Recorder No. <u>3017 "05:34"</u>	T-On Location <u>3:45 AM</u>	
(B) First Initial Flow Pressure	<u>Chart</u>	<u>21</u>	PSI (depth) <u>6044</u>	T-Started <u>5:34 AM</u>	
(C) First Final Flow Pressure	<u>5.00</u>	<u>17</u>	PSI Recorder No. <u>10242</u>	T-Open <u>8:00 AM</u>	
(D) Initial Shut-In Pressure	<u>Well</u>	<u>633</u>	PSI (depth) <u>6075</u>	T-Pulled <u>11:00 AM</u>	
(E) Second Initial Flow Pressure	<u>out</u>	<u> </u>	PSI Recorder No. <u> </u>	T-Out <u>1:40 P.M.</u>	
(F) Second Final Flow Pressure	<u>of</u>	<u> </u>	PSI (depth) <u> </u>	T-Off Location <u> </u>	
(G) Final Shut-in Pressure	<u>Rec.</u>	<u> </u>	PSI Initial Opening <u>30</u>	Test <u> </u> <input checked="" type="checkbox"/>	
(Q) Final Hydrostatic Mud	<u> </u>	<u> </u>	PSI Initial Shut-in <u>60</u>	Jars <u> </u> <input checked="" type="checkbox"/>	

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Approved By

Our Representative Ernie S. DeLoe

Final Flow 30 Safety Joint
Final Shut-in 60 Straddle

RECEIVED

MAY 07 2001

KCC WICHITA

Circ. Sub
Sampler
Extra Packer
Elec. Rec.
Mileage 70
Other
TOTAL PRICE \$ 1,470⁰⁰

RECEIVED
MAY 07
KCC WICHITA

CHART PAGE

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

