

WELL NAME

Christian "1-16"

COMPANY

Lario Oil & Gas Co.

LOCATION

16-33s-19w

Comanche co Kansas

DATE

2/21/01

TRILOBITE TESTING L.L.C.

OPERATOR : Lario Oil & Gas Co.

DATE 2-10-01

WELL NAME: Christian "1-16"

KB 1983.00 ft

TICKET NO: 13976

DST #1

LOCATION : 16-33s-19w Comanche co KS

GR 1972.00 ft

FORMATION: Altamont/Pawnee

INTERVAL : 5044.00 To 5105.00 ft

TD 0.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 0 Rec.						PF Fr. to hr
SI 0 Range(Psi)	0.0	0.0	0.0	0.0	0.0	IS Fr. to hr
SF 0 Clock(hrs)						SF Fr. to hr
FS 0 Depth(ft)	0.0	0.0	0.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED 1700 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 0640 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	0.0	0.0	0.0	0.0	0.0	
Inside/Outside						

RECOVERY

Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Miss-Run hit bridge at 863'

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	50.00 S/L
W.L.	10.20 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	

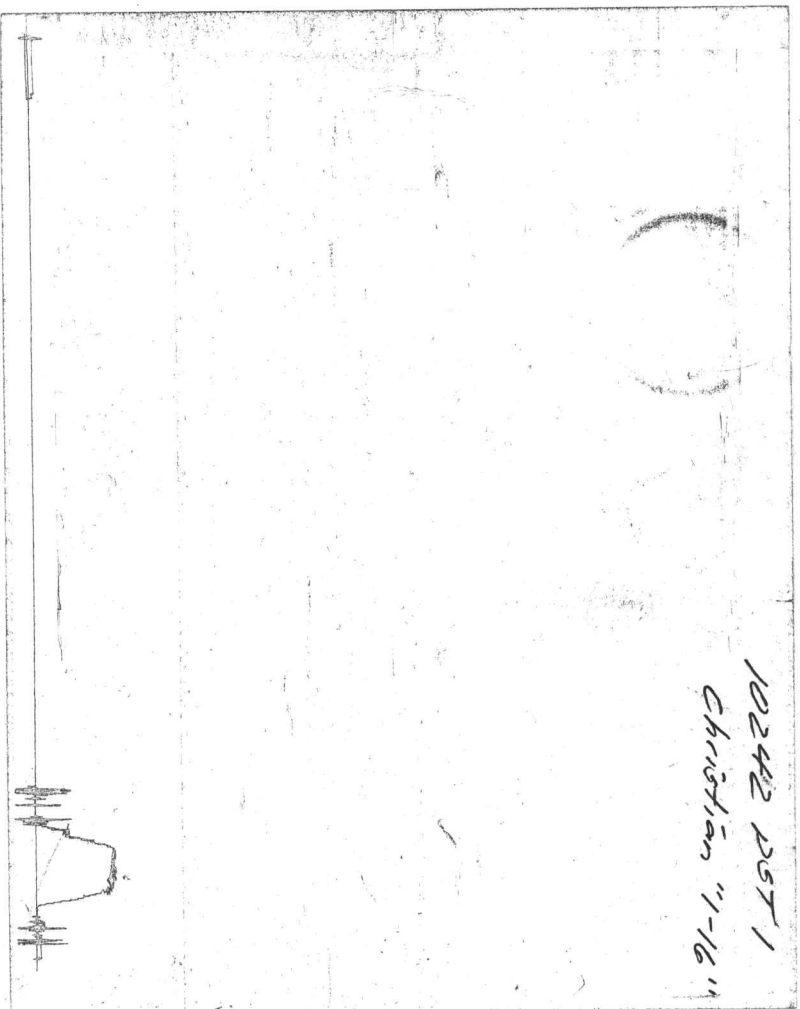
SAMPLES:

SENT TO:

Tester	Lanny Saloga
Co. Rep.	Arden Ratzlaff
Contr.	Duke
Rig #	1
Unit #	
Pump T.	

Test Successful: N

CHART PAGE



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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Lario Oil & Gas Co.

301 S Market
Wichita, KS 67202

ATTN: Ardon Ratzlaff

Christian "1-16"

16-33S-19W Comanche

Job Ticket: 13976

DST#: 2

Test Start: 2001.02.11 @ 11:25:00

GENERAL INFORMATION:

Formation: **Pawnee/Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:15:00

Time Test Ended: 21:42:27

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **5044.00 ft (KB) To 5105.00 ft (KB) (TVD)**

Total Depth: 5105.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1983.00 ft (KB)

1972.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **3017** Inside

Press@RunDepth: psig @ 5046.00 ft (KB)

Start Date: 2001.02.11

End Date:

2001.02.11

Capacity:

7000.00 psig

Start Time: 11:12:32

End Time:

21:42:27

Last Calib.:

2001.02.10

Time On Btm:

Time Off Btm:

TEST COMMENT: Weak 1" built to strong OBB in 5 min. I.F.P.
No blow-back. I.S.I.P.

PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)

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 Co.

301 S Market
Wichita, KS 67202

ATTN: Ardon Ratzlaff

Christian "1-16"

16-33S-19W Comanche

Job Ticket: 13976

DST#: 2

Test Start: 2001.02.11 @ 11:25:00

Tool Information

Drill Pipe:	Length: 4932.00 ft	Diameter: 3.80 inches	Volume: 69.18 bbl	Tool Weight: 2300.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 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: lb
Drill Pipe Above KB:	33.00 ft			Tool Chased ft
Depth to Top Packer:	5039.00 ft			String Weight: Initial 50000.00 lb
Depth to Bottom Packer:	ft			Final lb
Interval between Packers:	ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			5018.00		
S.I. Tool	5.00			5023.00		
HMV	5.00			5028.00		
Jars	5.00			5033.00		
Safety Joint	2.00			5035.00		
Packer	4.00			5039.00	22.00	Bottom Of Top Packer
Packer	5.00			5044.00		
Stubb	1.00			5045.00		
Perforations	1.00			5046.00		
Recorder	0.00	3017	Inside	5046.00		
Perforations	24.00			5070.00		
C.O. Sub	1.00			5071.00		
Blank Spacing	31.00			5102.00		
Recorder	0.00	10242	Inside	5102.00		
C.O. Sub	1.00			5103.00		
Bullnose	2.00			5105.00	66.00	Bottom Packers & Anchor
Total Tool Length:		88.00				



DRILL STEM TEST REPORT

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

301 S Market
Wichita, KS 67202

ATTN: Ardon Ratzlaff

16-33S-19W Comanche

Christian "1-16"

Start Date: 2001.02.11 @ 11:25:00

End Date: 2001.02.11 @ 18:45:00

Job Ticket #: 13978 DST #: 3

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 Co.

301 S Market
Wichita, KS 67202

ATTN: Ardon Ratzlaff

Christian "1-16"

16-33S-19W Comanche

Job Ticket: 13978

DST#: 3

Test Start: 2001.02.11 @ 11:25:00

GENERAL INFORMATION:

Formation: **Pawnee/Aldamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:15:12

Time Test Ended: 18:45:00

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **5044.00 ft (KB) To 5105.00 ft (KB) (TVD)**

Total Depth: 5105.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1983.00 ft (KB)

1972.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **3017** Inside

Press@RunDepth: 68.00 psig @ 5046.00 ft (KB)

Start Date: 2001.02.11

End Date:

2001.02.11

Start Time: 11:12:32

End Time:

21:42:27

Capacity: 7000.00 psig

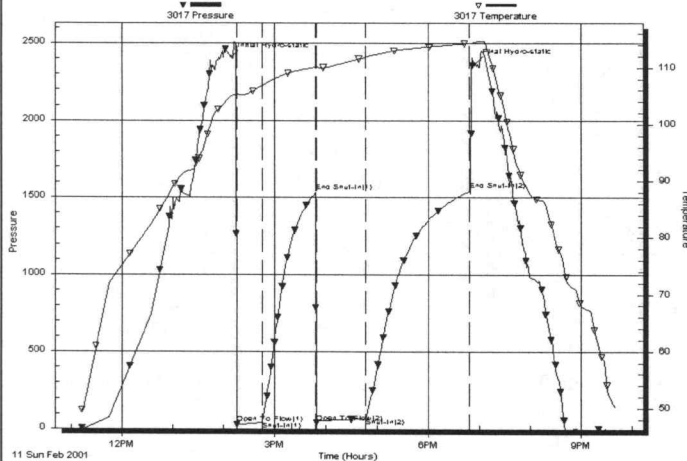
Last Calib.: 2001.02.10

Time On Btm: 2001.02.11 @ 14:09:12

Time Off Btm: 2001.02.11 @ 18:55:41

TEST COMMENT: Hit bridge at 865 ft. Worked tool through 80 ft. Out of it at 945 ft. Weak 1' built to strong OBB in 5 min. I.F.P.
No blow-back. I.S.I.P.
Strong OBB immed. & through-out. F.F.P.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
177	2409.80	105.06	Initial Hydro-static
183	29.24	105.34	Open To Flow (1)
213	41.14	106.85	Shut-In(1)
276	1534.61	110.15	End Shut-In(1)
277	35.75	110.19	Open To Flow (2)
335	68.00	111.89	Shut-In(2)
456	1541.80	114.38	End Shut-In(2)
464	2368.43	114.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	812 GIP	0.00
118.00	Sli Gas cut Mud 4%G 96%M	0.58

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 Co.

Christian "1-16"

301 S Market
Wichita, KS 67202

16-33S-19W Comanche

Job Ticket: 13978

DST#: 3

ATTN: Ardon Ratzlaff

Test Start: 2001.02.11 @ 11:25:00

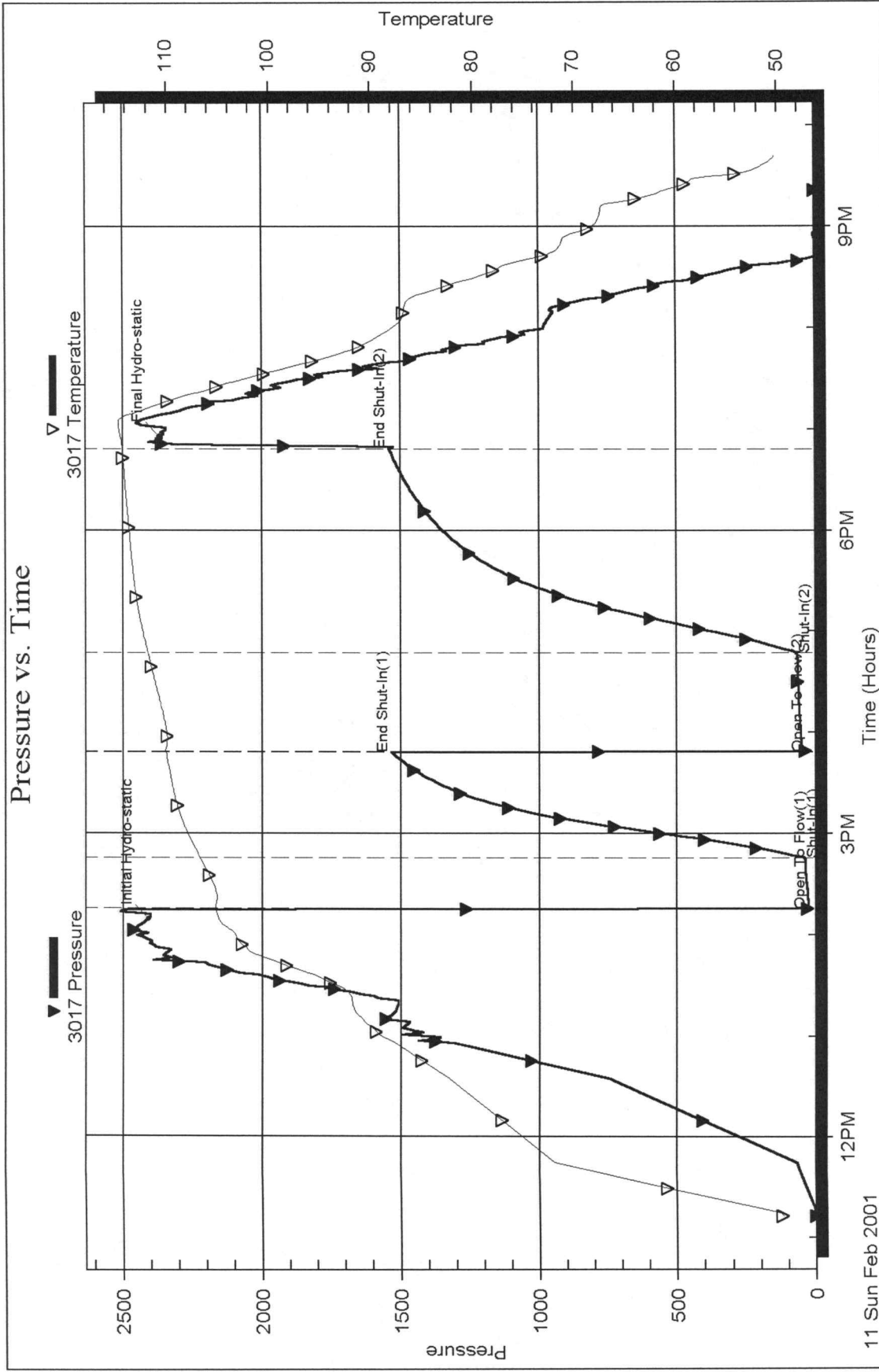
Tool Information

Drill Pipe:	Length: 4932.00 ft	Diameter: 3.80 inches	Volume: 69.18 bbl	Tool Weight: 2300.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 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: 14000.00 lb
Drill Pipe Above KB:	33.00 ft			Tool Chased ft
Depth to Top Packer:	5039.00 ft			String Weight: Initial 50000.00 lb
Depth to Bottom Packer:	ft			Final 51000.00 lb
Interval between Packers:	ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Hit bridge at 865 ft. Worked tool through 80 ft. Out of it at 945 ft.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5018.00	
S.I. Tool	5.00			5023.00	
HMV	5.00			5028.00	
Jars	5.00			5033.00	
Safety Joint	2.00			5035.00	
Packer	4.00			5039.00	22.00 Bottom Of Top Packer
Packer	5.00			5044.00	
Stubb	1.00			5045.00	
Perforations	1.00			5046.00	
Recorder	0.00	3017	Inside	5046.00	
Perforations	24.00			5070.00	
C.O. Sub	1.00			5071.00	
Blank Spacing	31.00			5102.00	
Recorder	0.00	10242	Inside	5102.00	
C.O. Sub	1.00			5103.00	
Bullnose	2.00			5105.00	66.00 Bottom Packers & Anchor
Total Tool Length:		88.00			





DRILL STEM TEST REPORT

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

301 S Market
Wichita, KS 67202

ATTN: Ardon Ratzlaff

16-33S-19W Comanche

Christian "1-16"

Start Date: 2001.02.12 @ 09:25:00

End Date: 2001.02.12 @ 16:00:00

Job Ticket #: 13979 DST #: 4

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 Co.

301 S Market
Wichita, KS 67202

ATTN: Ardon Ratzlaff

Christian "1-16"

16-33S-19W Comanche

Job Ticket: 13979

DST#: 4

Test Start: 2001.02.12 @ 09:25:00

GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:33:25

Time Test Ended: 16:00:00

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **5105.00 ft (KB) To 5120.00 ft (KB) (TVD)**

Total Depth: 5120.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1983.00 ft (KB)

1972.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **3017** Inside

Press@RunDepth: 22.13 psig @ 5107.00 ft (KB)

Start Date: 2001.02.12

End Date:

2001.02.12

Start Time: 09:16:30

End Time:

18:41:55

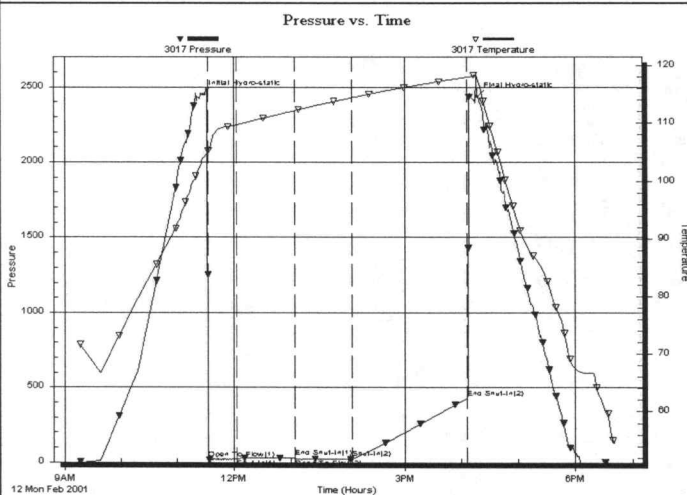
Capacity: 7000.00 psig

Last Calib.: 2001.02.10

Time On Btm: 2001.02.12 @ 11:27:25

Time Off Btm: 2001.02.12 @ 16:16:25

TEST COMMENT: Fair 4" built to strong OBB in 3 min. I.F.P.
1" blow -back. I.S.I.P.
Weak 1/2" built to 6" in bucket. 60 min. F.F.P.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
131	2448.21	103.79	Initial Hydro-static
137	18.55	105.13	Open To Flow (1)
167	20.19	109.73	Shut-In(1)
228	31.08	112.17	End Shut-In(1)
228	20.21	112.18	Open To Flow (2)
288	22.13	114.43	Shut-In(2)
410	428.81	117.99	End Shut-In(2)
420	2434.68	117.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	350 GIP	0.00
20.00	Mud 100%M	0.10

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 Co.

Christian "1-16"

301 S Market
Wichita, KS 67202

16-33S-19W Comanche

Job Ticket: 13979

DST#: 4

ATTN: Ardon Ratzlaff

Test Start: 2001.02.12 @ 09:25:00

Tool Information

Drill Pipe:	Length: 4929.00 ft	Diameter: 3.80 inches	Volume: 69.14 bbl	Tool Weight: 2300.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 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: 14000.00 lb
Drill Pipe Above KB:	27.00 ft			Tool Chased ft
Depth to Top Packer:	5100.00 ft			String Weight: Initial 54000.00 lb
Depth to Bottom Packer:	ft			Final 56000.00 lb
Interval between Packers:	ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

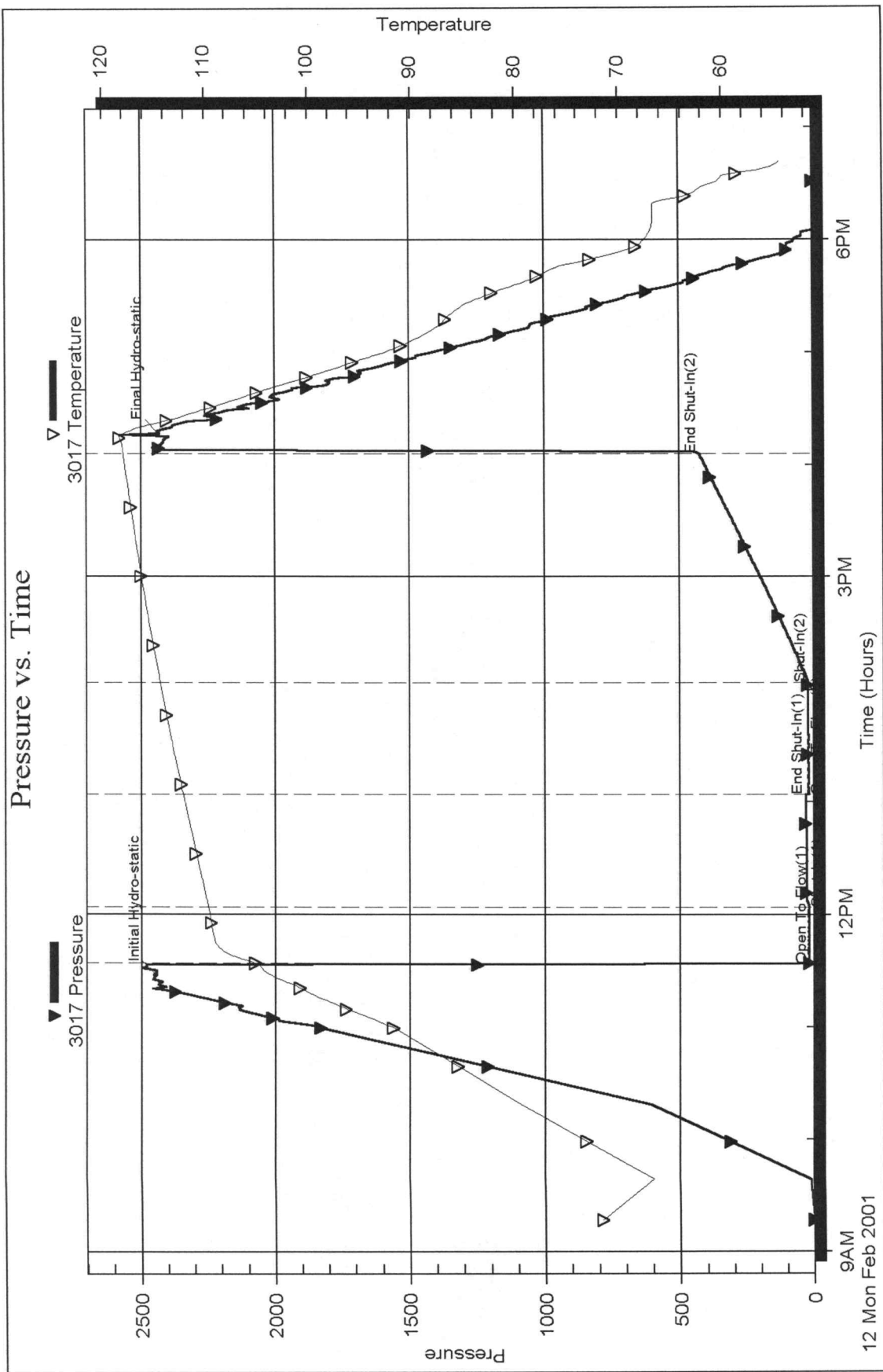
Tool Comments

Tool Description

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

C.O. Sub	1.00			5079.00	
S.I. Tool	5.00			5084.00	
HMV	5.00			5089.00	
Jars	5.00			5094.00	
Safety Joint	2.00			5096.00	
Packer	4.00			5100.00	22.00 Bottom Of Top Packer
Packer	5.00			5105.00	
Stubb	1.00			5106.00	
Perforations	1.00			5107.00	
Recorder	0.00	3017	Inside	5107.00	
Perforations	11.00			5118.00	
Recorder	0.00	10242	Inside	5118.00	
Bullnose	2.00			5120.00	20.00 Bottom Packers & Anchor

Total Tool Length: 42.00





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

301 S Market
Wichita, KS 67202

ATTN: Ardon Ratzlaff

16-33S-19W Comanche

Christian "1-16"

Start Date: 2001.02.13 @ 15:20:00

End Date: 2001.02.13 @ 21:45:00

Job Ticket #: 13980 DST #: 5

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 Co.

301 S Market
Wichita, KS 67202

ATTN: Ardon Ratzlaff

Christian "1-16"

16-33S-19W Comanche

Job Ticket: 13980

DST#: 5

Test Start: 2001.02.13 @ 15:20:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:14:39

Time Test Ended: 21:45:00

Test Type: Conventional Bottom Hole

Tester: Lanny Saloga

Unit No: 14

Interval: **5146.00 ft (KB) To 5219.00 ft (KB) (TVD)**

Total Depth: 5219.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1983.00 ft (KB)

1972.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **3017** Inside

Press@RunDepth: 24.64 psig @ 5148.00 ft (KB)

Start Date: 2001.02.13

End Date: 2001.02.14

Capacity: 7000.00 psig

Last Calib.: 2001.02.10

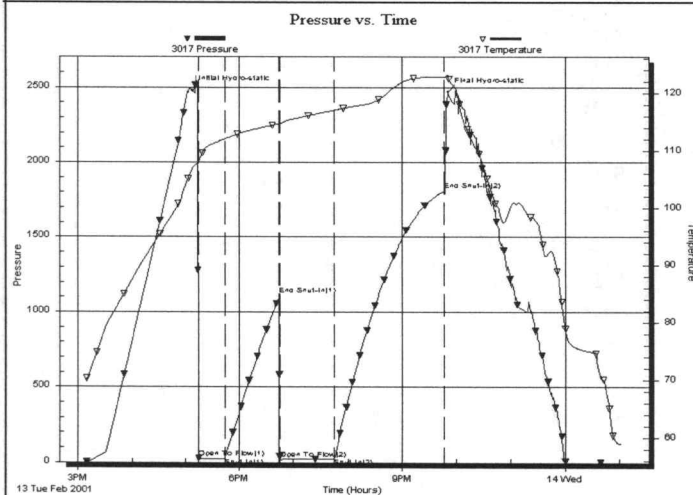
Start Time: 15:09:14

End Time: 01:02:24

Time On Btm: 2001.02.13 @ 17:07:54

Time Off Btm: 2001.02.13 @ 21:50:39

TEST COMMENT: Strong OBB in 40 sec. Cracked 2" slightly. I.F.P.
No blow-back. I.S.I.P.
Strong OBB immed. Cracked 2" slightly. F.F.P.
No blow-back. F.S.I.P.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
119	2475.67	107.06	Initial Hydro-static
126	24.64	108.17	Open To Flow (1)
155	26.52	112.15	Shut-In (1)
215	1107.87	114.77	End Shut-In (1)
216	17.57	114.81	Open To Flow (2)
276	24.64	117.14	Shut-In (2)
398	1809.65	122.92	End Shut-In (2)
402	2469.14	123.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2210 Ft. GIP	0.00
30.00	Slr Gas cut Mud 2%G 98%M	0.15

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 Co.

Christian "1-16"

301 S Market
Wichita, KS 67202

16-33S-19W Comanche

Job Ticket: 13980

DST#: 5

ATTN: Ardon Ratzlaff

Test Start: 2001.02.13 @ 15:20:00

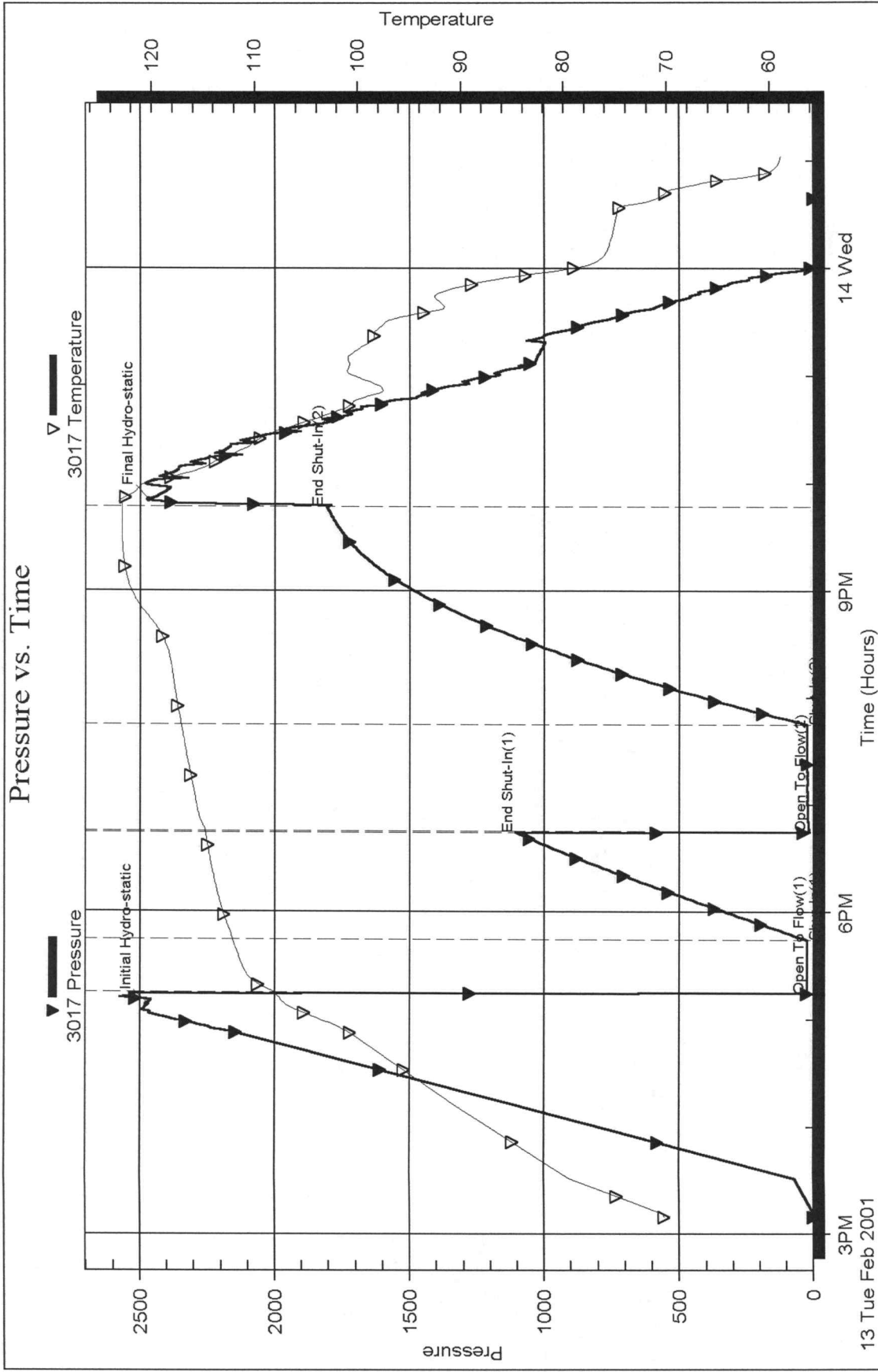
Tool Information

Drill Pipe:	Length: 4966.00 ft	Diameter: 3.80 inches	Volume: 69.66 bbl	Tool Weight: 2800.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 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: 9000.00 lb
Drill Pipe Above KB:	23.00 ft			Tool Chased ft
Depth to Top Packer:	5141.00 ft			String Weight: Initial 56000.00 lb
Depth to Bottom Packer:	ft			Final 56000.00 lb
Interval between Packers:	ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5120.00	
S.I. Tool	5.00			5125.00	
HMV	5.00			5130.00	
Jars	5.00			5135.00	
Safety Joint	2.00			5137.00	
Packer	4.00			5141.00	22.00 Bottom Of Top Packer
Packer	5.00			5146.00	
Stubb	1.00			5147.00	
Perforations	1.00			5148.00	
Recorder	0.00	3017	Inside	5148.00	
Perforations	6.00			5154.00	
C.O. Sub	1.00			5155.00	
Blank Spacing	61.00			5216.00	
Recorder	0.00	10242	Inside	5216.00	
C.O. Sub	1.00			5217.00	
Bullnose	2.00			5219.00	78.00 Bottom Packers & Anchor
Total Tool Length:		100.00			

Pressure vs. Time



15-033-21189

Released

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LARIO OIL & GAS COMPANY
DST REPORT

CHRISTIAN #1-16

790' FNL & 810' FEL of Sec. 16-33S-19W Comanche Co., KS

DST #1 & DST #2 misrun

DST #3 **Formation: Pawnee** **6044'-5105'**

IO	30 min	Weak 1" blow with a strong blow after 5 min off btm
ISI	60 min	
FO	60 min	Strong blow of btm immediately
FSI	120 min	

DST Recovery: 812' GIP, 118' SI gc mud (4% gas + 96% mud)

BHT 114 deg F.

IH	2904#
FH	2368#
IF	29#-41#
ISI	1534#
FF	35#-68#
FSI	1541#

KCC
MAR 10 2001
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DST #4 **Formation: Ft. Scott** **5105'-5120'**

IO	30 min	Fair 4" blow built to strong blow off btm in 3 min.
ISI	60 min	
FO	60 min	Weak ½" blow built to 6" in 60 min.
FSI	120 min	

Drill pipe recovery: 350' GIP & 20' mud

BHT 117 deg F.

IH	2448#
FH	2434#
IF	18#-20#
ISI	31#
FF	20#-22#
FSI	428#

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LARIO OIL & GAS COMPANY

DST REPORT

CHRISTIAN #1-16

790' FNL & 810' FEL of Sec. 16-33S-19W Comanche Co., KS

DST #5 Formation: Miss. Chert 5146'-5219'

IO	30 min	Strong blow off btm in 40 sec.
ISI	60 min	
FO	60 min	Strong blow off btm immediately
FSI	120 min	

Drill pipe recovery: 2210' GIP & 30' SL GCM (2% gas)

BHT 122 deg F.

IH	2475#
FH	2469#
IF	24#-26#
ISI	1107#
FF	17#-24#
FSI	1809#

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