

15-033-21199

RELEASED

MAY 15 2003

LARIO OIL & GAS COMPANY

FROM CONFIDENTIAL

BRASS #2-2

KCC

1380' FSL & 660' FEL Sec. 2-33S-19W
Comanche Co., KS

APR 26 2001

DST INFORMATION

CONFIDENTIAL

DST #1 (4805'-4836') Swope

Recovery: 180' total fluid consisting of:
90' slightly oil & gas cut mud (10% gas, 3% oil, 87% mud)
90' muddy water (50% mud, 50% wtr)
868' GIP

IFP 31#-51#
FFP 66#-105#
ISIP 1535#
FSIP 1546#
HP 2439#-2330#
BHT 119 deg

CONFIDENTIAL

ORIGINAL

DST #2 5029' - 5070' Altamont formation

Recovered 2885' GIP, 15' sli GCM, 10% gas, 90% mud

IFP 17#-18#
FFP 17#-18#
SIP 366#
FSIP 1220#
HP 2520#-2511#

DST #3 (5063'-5105') Pawnee

Recovered 80' GIP, 40' sli GCM (6% gas, 94% mud)

	Alpine	Ak-1
SIP	1446-1137#	1385-1066#
FP	22-26/24-36#	21-21/43-43#
HP	2529-2464#	2492-2492#

BHT 115 deg F.

RECEIVED
STATE CORPORATION COMMISSION

APR 27 2001

CONSERVATION DIVISION
WICHITA, Kansas

RELEASED

MAY 15 2003

DST #4 (5157'-5240') Upper Mississippi

FROM CONFIDENTIAL

1st open GTS in 5 min. Gauge through 3/4" choke.

Min.	PSI	CFG
10	9	365,505
15	10	381,024
20	9	365,505
25	8	349,885
30	7	334,265

KCC

APR 26 2001

CONFIDENTIAL

2nd open gauged through 3/4" choke first 30 min.

Min.	PSI	CFG
5	8	349,885
10	9	365,505
15	8	349,885
20	7	334,265
25	5	303,025
30	4	287,405

CONFIDENTIAL

NOTE: Changed to 1/2" choke @ 30 min.

35	38	353,474
40	50	434,422
45	54	461,405
50	56	474,897
55	56	474,897
60	56	474,897

stabilized

ORIGINAL

Recovered: 30' GCM (20% gas, 80% mud)
180' GCM (10% gas, 90% mud)

	Alpine	Ak-1
SIP	1566-1423#	1576-1417#
FP	132-184#/136-137#	202-192#/192-181#
HP	2587-2564#	2628-2628#

BHT 125 deg F.

RECEIVED
STATE CORPORATION COMMISSION

MAY 27 2001

CONSERVATION DIVISION
Wichita, Kansas

RELEASED

MAY 15 2003

FROM CONFIDENTIAL

DST #5 (5240'-5286') Lower Mississippi

1st open strong blow OBB in 1 min 10 sec. No GTS during IO.

Bled off blow during ISI. Had GTS 40 min into ISI.

2nd open gauged through ¼" choke.

<u>Min.</u>	<u>PSI</u>	<u>CFG</u>	
5	1	24,431	
10	1.5	25,224	
15	1.5	25,224	
20	2	26,014	
25	2.5	26,810	
30	3	27,603	
35	3.5	28,397	
40	3.5	28,397	
45	4	29,190	stabilized
50	4	29,190	
55	4	29,190	
60	4	29,190	

CONFIDENTIAL

ORIGINAL

KCC

APR 26 2001

CONFIDENTIAL

Rec. 50' sli GCM (10% gas, 90% mud)

	<u>Alpine</u>	<u>Ak-1</u>
SIP	1611-1610#	1618-1608#
FP	22-22/23-30#	32-32/43-43#
HP	2637-2587#	2659-2659#

BHT 119 deg F

RELEASED

MAY 15 2003

DST #6 5900'-5930' Viola

FROM CONFIDENTIAL

Open @ 4:40 AM with 8# on a ½" choke.
OBB 17 sec.

CONFIDENTIAL

GTS in 6 min.

MIN.	cfg	PSI	
10	157,849	9	½" choke
15	157,849	9	
20	144,358	7	
25	137,612	6	
30	130,866	5	
2 nd open			
5	184,832	13	½" choke
10	178,086	12	
15	151,103	8	
20	137,612	6	
25	130,866	5	
30	117,375	3	
35	60,077	2	change to 3/8" choke
40	71,067	5	
45	71,067	5	
50	71,067	5	
55	72,898	5.5	
60	74,730	6	

ORIGINAL

KCC

APR 26 2001

CONFIDENTIAL

Recovered: 210' Total Fluid

20' Sli O&GCWM (12% gas, 4% oil, 6% wtr, 78% mud)

120' Sli O&GCWM (26% gas, 6% oil, 18% wtr, 50% mud)

60' Sli O&GCWM (20% gas, 10% oil, 50% wtr, 20% mud)

	Alpine	Ak-1
SIP	1927-1902#	1903-1861#
FP	68-69#/62-106#	149-149#/106-128#
HP	2931-2851#	2952-2973#

Rw - .13@50 deg

Chlorides : 85,000 ppm

BHT 125 deg F.



TRILOBITE
TESTING, INC

11 copies

DRILL STEM TEST REPORT

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

301 Market
Wichita, KS 67202

ATTN: David Munro

2-33-19 Comanche KS

Brass #2-2

Start Date: 2001.03.06 @ 19:13:00

End Date: 2001.03.07 @ 02:35:00

Job Ticket #: 14175 DST #: 1

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 Market
Wichita, KS 67202

ATTN: David Munro

Brass #2-2

2-33-19 Comanche KS

Job Ticket: 14175

DST#: 1

Test Start: 2001.03.06 @ 19:13:00

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:07:00

Time Test Ended: 02:35:00

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 11

Interval: **4805.00 ft (KB) To 4836.00 ft (KB) (TVD)**

Total Depth: 4836.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2011.00 ft (KB)

2000.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **2357** Inside

Press@RunDepth: 107.33 psig @ 4811.01 ft (KB)

Start Date: 2001.03.06

End Date:

2001.03.07

Start Time: 19:13:01

End Time:

05:16:00

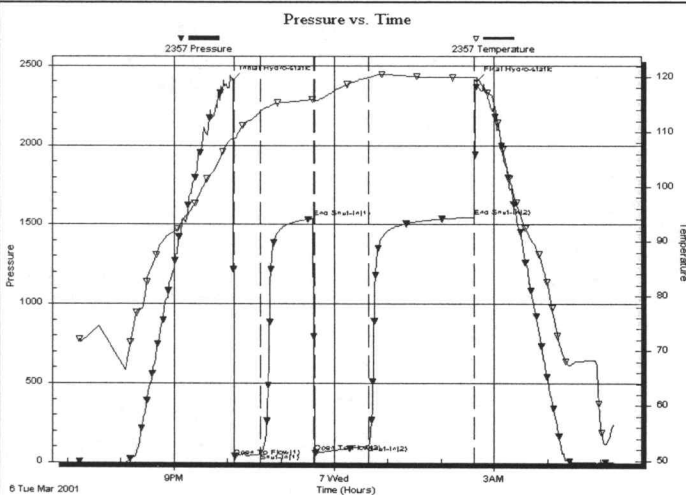
Capacity: 7000.00 psig

Last Calib.: 2001.03.05

Time On Btm: 2001.03.06 @ 22:06:30

Time Off Btm: 2001.03.07 @ 02:40:30

TEST COMMENT: 868' Gas in pipe IF-B.O.B. in 12 min
FF-B.O.B. in 15 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
174	2407.10	108.76	Initial Hydro-static
174	31.37	108.74	Open To Flow (1)
205	51.37	113.84	Shut-In(1)
264	1535.65	115.93	End Shut-In(1)
265	56.40	115.86	Open To Flow (2)
326	107.33	119.96	Shut-In(2)
445	1546.51	119.92	End Shut-In(2)
448	2401.93	119.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Slightly oil cut gassymud 10%g 3%o	1.26
90.00	Muddy water 50%w 50%w	1.26

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.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 14175

DST#: 1

ATTN: David Munro

Test Start: 2001.03.06 @ 19:13:00

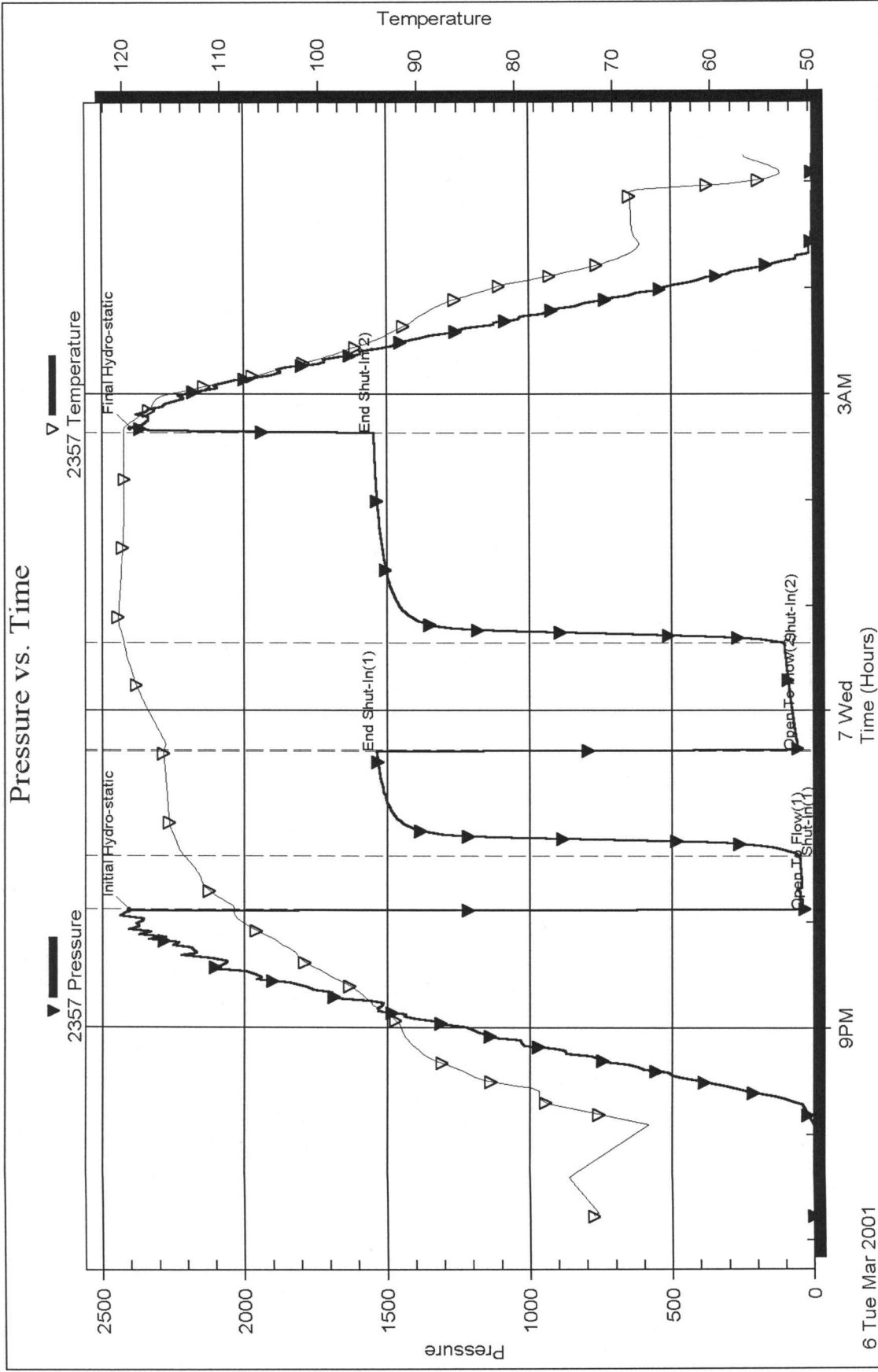
Tool Information

Drill Pipe:	Length: 4792.00 ft	Diameter: 3.80 inches	Volume: 67.22 bbl	Tool Weight: 1000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
Drill Pipe Above KB:	11.02 ft			Tool Chased 0.01 ft
Depth to Top Packer:	4805.00 ft			String Weight: Initial 50000.00 lb
Depth to Bottom Packer:	ft			Final 50000.00 lb
Interval between Packers:	ft			
Tool Length:	60.02 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			4782.00	
S.I. Tool	5.00			4787.00	
HYD S.I. Tool	5.00			4792.00	
Jars	5.00			4797.00	
Safety Joint	3.00			4800.00	
Packer	5.00			4805.00	24.00 Bottom Of Top Packer
Packer	5.00			4810.00	
Stubb	1.00			4811.00	
Recorder	0.01	2357	Inside	4811.01	
Perforations	25.00			4836.01	
Recorder	0.01	13254	Outside	4836.02	
Bullnose	5.00			4841.02	36.02 Bottom Packers & Anchor
Total Tool Length:		60.02			

Pressure vs. Time





DRILL STEM TEST REPORT

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

301 Market
Wichita, KS 67202

ATTN: David Munro

2-33-19 Comanche KS

Brass #2-2

Start Date: 2001.03.08 @ 13:29:00

End Date: 2001.03.08 @ 20:13:00

Job Ticket #: 13593 DST #: 2

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 Market
Wichita, KS 67202

ATTN: David Munro

Brass #2-2

2-33-19 Comanche KS

Job Ticket: 13593

DST#: 2

Test Start: 2001.03.08 @ 13:29:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:46:35

Time Test Ended: 20:13:00

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **5029.00 ft (KB) To 5070.00 ft (KB) (TVD)**

Total Depth: 5070.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2011.00 ft (KB)

2000.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3302 Inside

Press@RunDepth: 17.61 psig @ 5030.00 ft (KB)

Start Date: 2001.03.08

End Date:

2001.03.08

Start Time: 13:29:07

End Time:

22:34:35

Capacity: 7000.00 psig

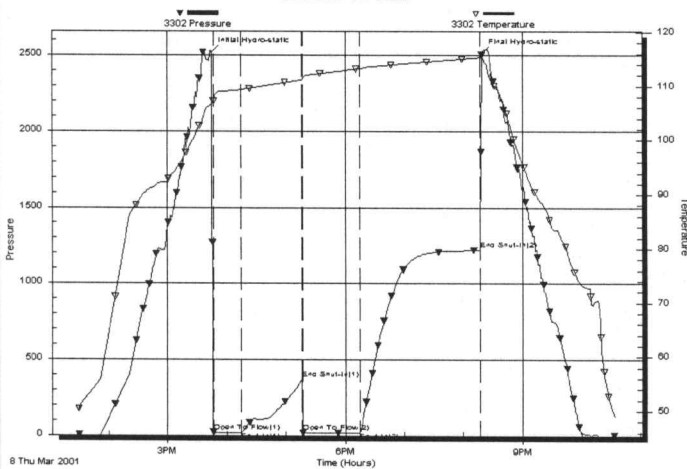
Last Calib.: 2001.03.07

Time On Btm: 2001.03.08 @ 15:44:35

Time Off Btm: 2001.03.08 @ 20:18:35

TEST COMMENT: IF: Weak blow b.ob in 26 mins.
IS: Bled down for 60 sec. built-
back to 10" in H2O bucket.
FF: Strong blow b.o.b in 15 sec.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
136	2519.95	106.85	Initial Hydro-static
138	16.71	107.63	Open To Flow (1)
166	17.59	109.40	Shut-In(1)
227	366.44	111.21	End Shut-In(1)
228	17.07	111.34	Open To Flow (2)
286	17.61	113.32	Shut-In(2)
409	1220.22	115.37	End Shut-In(2)
410	2510.64	115.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2885.00	01 - Gas	40.47
15.00	SGCM 10% gas 90% mud	0.21

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.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13593

DST#: 2

ATTN: David Munro

Test Start: 2001.03.08 @ 13:29:00

Tool Information

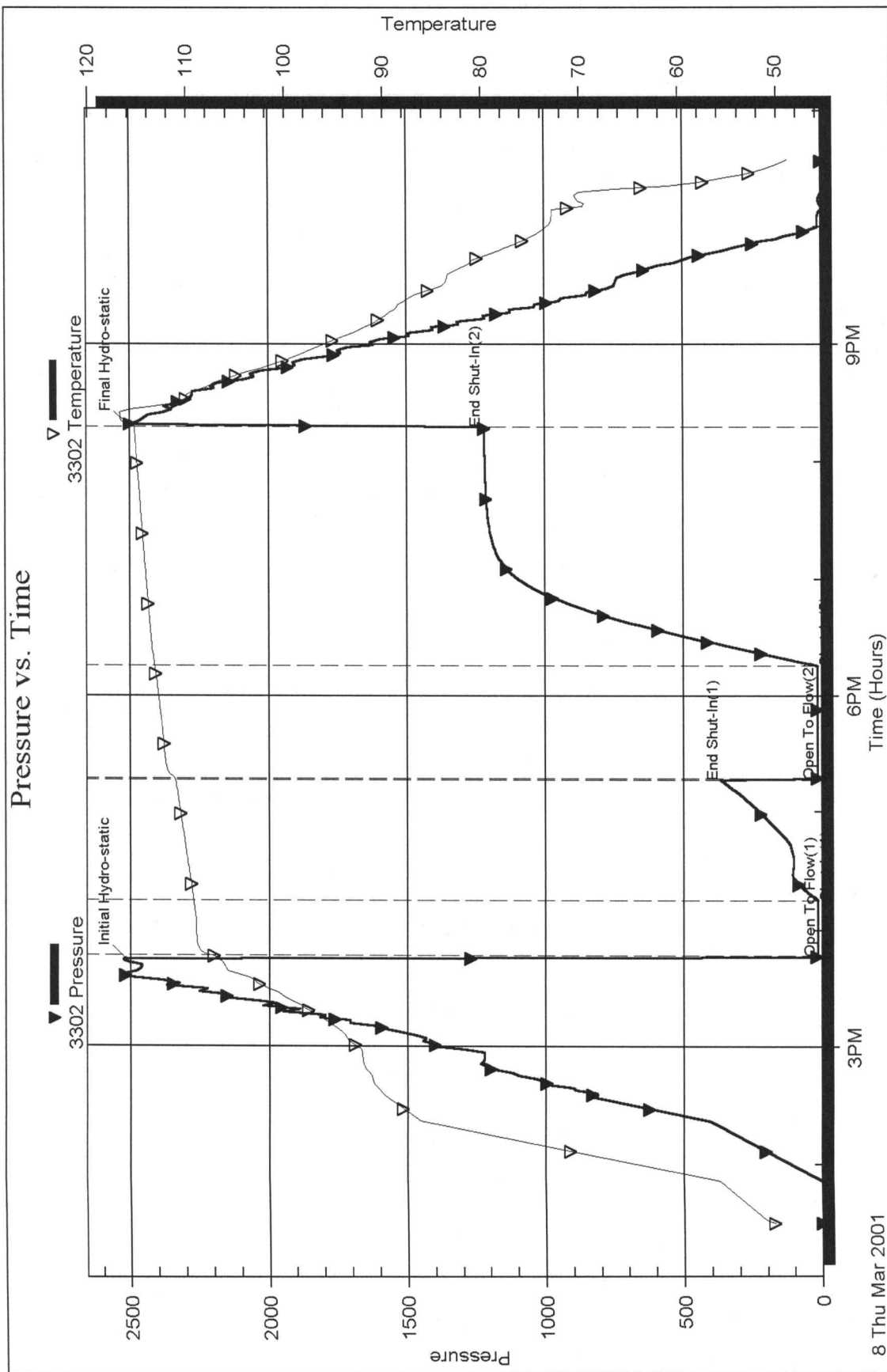
Drill Pipe:	Length: 5012.00 ft	Diameter: 3.80 inches	Volume: 70.31 bbl	Tool Weight: 2100.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
Drill Pipe Above KB:	11.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5024.00 ft			String Weight: Initial 58000.00 lb
Depth to Bottom Packer:	ft			Final 58000.00 lb
Interval between Packers:	ft			
Tool Length:	69.00 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			5002.00	
S.I. Tool	5.00			5007.00	
HMV	5.00			5012.00	
Jars	5.00			5017.00	
Safety Joint	2.00			5019.00	
Packer	5.00			5024.00	23.00 Bottom Of Top Packer
Packer	5.00			5029.00	
Stubb	1.00			5030.00	
Recorder	0.00	3302	Inside	5030.00	
Anchor	37.00			5067.00	
Recorder	0.00	10991	Outside	5067.00	
Bullnose	3.00			5070.00	46.00 Bottom Packers & Anchor

Total Tool Length: 69.00

Pressure vs. Time





DRILL STEM TEST REPORT

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

301 Market
Wichita, KS 67202

ATTN: David Munro

2-33-19 Comanche KS

Brass #2-2

Start Date: 2001.03.09 @ 09:37:00

End Date: 2001.03.09 @ 00:00:00

Job Ticket #: 13594 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 Market
Wichita, KS 67202

ATTN: David Munro

Brass #2-2

2-33-19 Comanche KS

Job Ticket: 13594

DST#: 3

Test Start: 2001.03.09 @ 09:37:00

GENERAL INFORMATION:

Formation: **pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:08:26

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **5063.00 ft (KB) To 5105.00 ft (KB) (TVD)**

Total Depth: 5105.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2011.00 ft (KB)

2000.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3302 Inside

Press@RunDepth: 36.33 psig @ 5064.00 ft (KB)

Start Date: 2001.03.09

End Date:

2001.03.09

Start Time: 09:43:58

End Time:

17:22:26

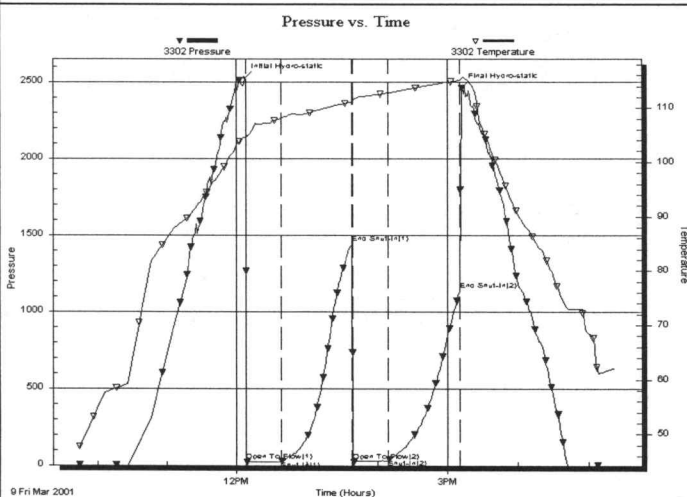
Capacity: 3000.00 psig

Last Calib.: 2001.03.09

Time On Btm: 2001.03.09 @ 12:06:56

Time Off Btm: 2001.03.09 @ 15:11:56

TEST COMMENT: IF: Weak surface blow built to 4-3/8" in H2O bucket.
IS: Bled down for 2 mins. built back to weak surface blow 1/4" in H2O bucket.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
143	2529.02	104.61	Initial Hydro-static
145	22.25	104.64	Open To Flow (1)
174	26.34	108.19	Shut-In (1)
234	1445.83	111.17	End Shut-In (1)
235	24.46	111.41	Open To Flow (2)
265	36.33	112.83	Shut-In (2)
326	1137.35	115.14	End Shut-In (2)
328	2464.34	115.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	gas	1.12
40.00	SGCM 6% gas 94% mud	0.56

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.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13594

DST#: 3

ATTN: David Munro

Test Start: 2001.03.09 @ 09:37:00

Tool Information

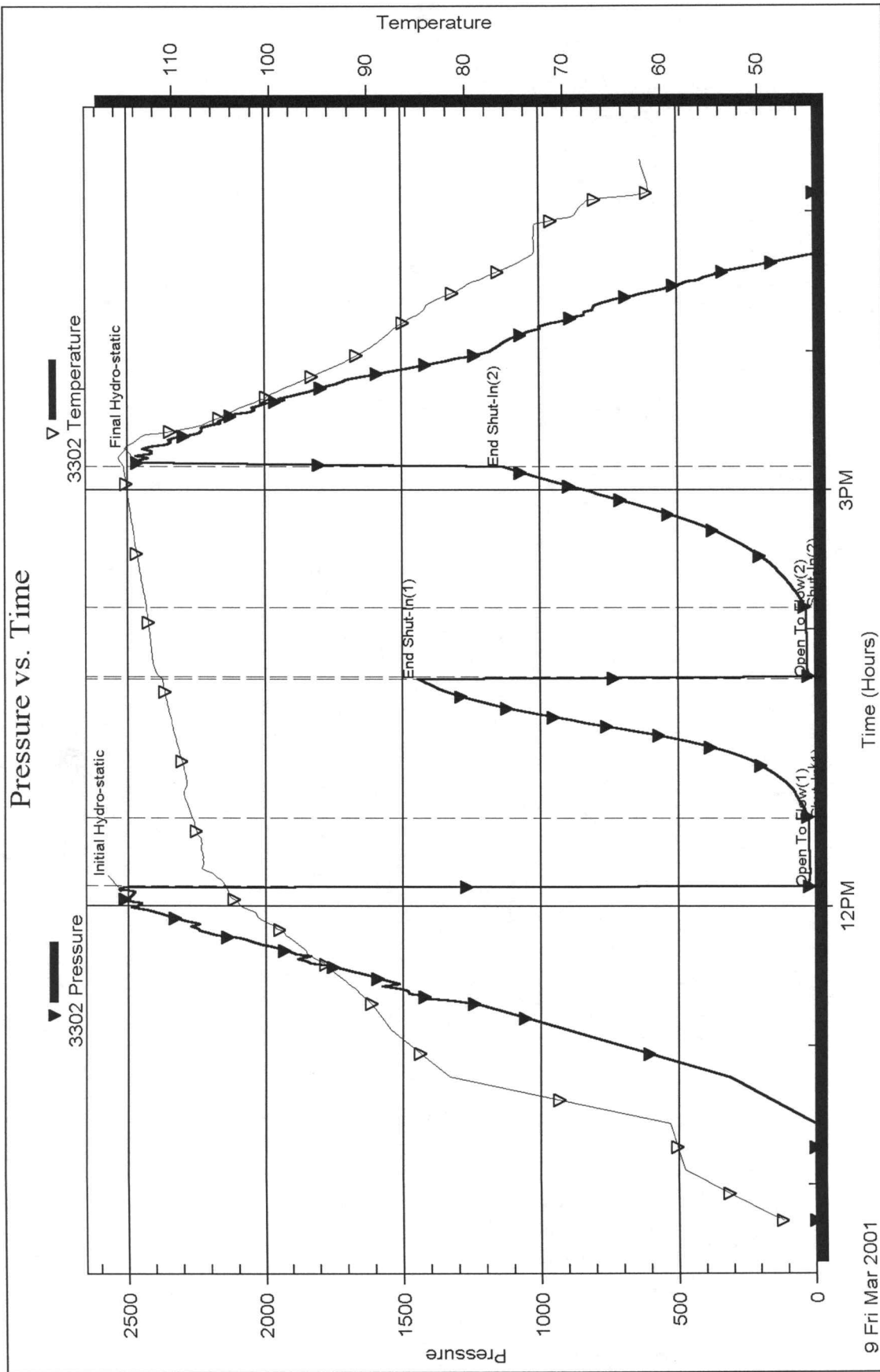
Drill Pipe:	Length: 5040.00 ft	Diameter: 3.80 inches	Volume: 70.70 bbl	Tool Weight: 2100.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
Drill Pipe Above KB:	5.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5058.00 ft			String Weight: Initial 58000.00 lb
Depth to Bottom Packer:	ft			Final lb
Interval between Packers:	ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

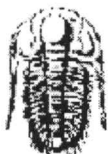
Tool Comments

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5036.00	
S.I. Tool	5.00			5041.00	
HMV	5.00			5046.00	
Jars	5.00			5051.00	
Safety Joint	2.00			5053.00	
Packer	5.00			5058.00	23.00 Bottom Of Top Packer
Packer	5.00			5063.00	
Stubb	1.00			5064.00	
Recorder	0.00	3302	Inside	5064.00	
Anchor	38.00			5102.00	
Recorder	0.00	10991	Outside	5102.00	
Bullnose	3.00			5105.00	47.00 Bottom Packers & Anchor
Total Tool Length:		70.00			

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

301 Market
Wichita, KS 67202

ATTN: David Munro

2-33-19 Comanche KS

Brass #2-2

Start Date: 2001.03.10 @ 14:42:00

End Date: 2001.03.10 @ 00:00:00

Job Ticket #: 13595 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 Market
Wichita, KS 67202

ATTN: David Munro

Brass #2-2

2-33-19 Comanche KS

Job Ticket: 13595

DST#: 4

Test Start: 2001.03.10 @ 14:42:00

GENERAL INFORMATION:

Formation: **mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:07

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **5157.00 ft (KB) To 5240.00 ft (KB) (TVD)**

Total Depth: 5240.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2011.00 ft (KB)

2000.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3302 Inside

Press@RunDepth: 136.55 psig @ 5158.00 ft (KB)

Start Date: 2001.03.10

End Date: 2001.03.11

Start Time: 14:42:39

End Time: 01:02:07

Capacity: 3000.00 psig

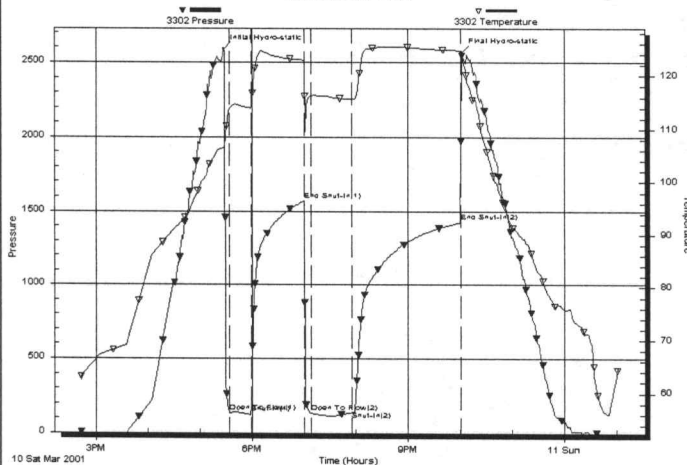
Last Calib.: 2001.03.11

Time On Btm: 2001.03.10 @ 17:27:37

Time Off Btm: 2001.03.10 @ 22:02:07

TEST COMMENT: IF: Strong blow b.o.b in 45 sec.
GTS in 5 mins. gauge gas.
IS: Bled down for 25 mins. built back to b.o.b in 5 mins.
FF: Strong blow b.o.b in 10 sec.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
165	2586.82	106.51	Initial Hydro-static
172	132.00	113.89	Open To Flow (1)
197	183.73	114.02	Shut-In(1)
258	1566.33	123.01	End Shut-In(1)
266	132.26	116.34	Open To Flow (2)
313	136.55	115.78	Shut-In(2)
438	1422.96	124.81	End Shut-In(2)
440	2564.23	123.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4952.00	gas in pipe	69.46
30.00	HGCM 20%gas 80% mud	0.42
180.00	GCM 10%gas 90% mud	2.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	9.00	365.50
Last Gas Rate	0.50	54.00	461.41
Max. Gas Rate	0.50	54.00	461.41



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13595

DST#: 4

ATTN: David Munro

Test Start: 2001.03.10 @ 14:42:00

Tool Information

Drill Pipe:	Length: 5162.00 ft	Diameter: 3.80 inches	Volume: 72.41 bbl	Tool Weight: 2100.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
Drill Pipe Above KB:	33.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5152.00 ft			String Weight: Initial 57000.00 lb
Depth to Bottom Packer:	ft			Final 57000.00 lb
Interval between Packers:	ft			
Tool Length:	111.00 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			5130.00	
S.I. Tool	5.00			5135.00	
HMV	5.00			5140.00	
Jars	5.00			5145.00	
Safety Joint	2.00			5147.00	
Packer	5.00			5152.00	23.00 Bottom Of Top Packer
Packer	5.00			5157.00	
Stubb	1.00			5158.00	
Recorder	0.00	3302	Inside	5158.00	
Anchor	17.00			5175.00	
Blank Spacing	62.00			5237.00	
Recorder	0.00	10991	Outside	5237.00	
Bullnose	3.00			5240.00	88.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13595

DST#: 4

ATTN: David Munro

Test Start: 2001.03.10 @ 14:42:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 10.45

Resistivity: 3.00 ohm.m

Salinity: 8000.00 ppm

Filter Cake: 0.32 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: -999999 deg API

Water Salinity: - ppm

214748364

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4952.00	gas in pipe	69.464
30.00	HGCM 20%gas 80%mud	0.421
180.00	GCM 10%gas 90%mud	2.525

Total Length: 5162.00 ft

Total Volume: 72.400 bbl

Num Fluid Samples: 2

Num Gas Bombs: 2

Serial #: 3302

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas Co.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13595

DST#: 4

ATTN: David Munro

Test Start: 2001.03.10 @ 14:42:00

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	10	0.75	9.00	365.50
1	10	0.75	9.00	365.50
1	10	0.75	9.00	365.50
1	10	0.75	9.00	365.50
1	15	0.75	10.00	381.12
1	20	0.75	9.00	365.50
1	25	0.75	8.00	349.88
1	30	0.75	7.00	334.26
2	5	0.75	8.00	349.88
2	10	0.75	9.00	365.50
2	15	0.75	8.00	349.88
2	20	0.75	7.00	334.26
2	25	0.75	5.00	303.02
2	30	0.75	4.00	287.41
2	35	0.50	38.00	353.47
2	40	0.50	50.00	434.42
2	45	0.50	54.00	461.41

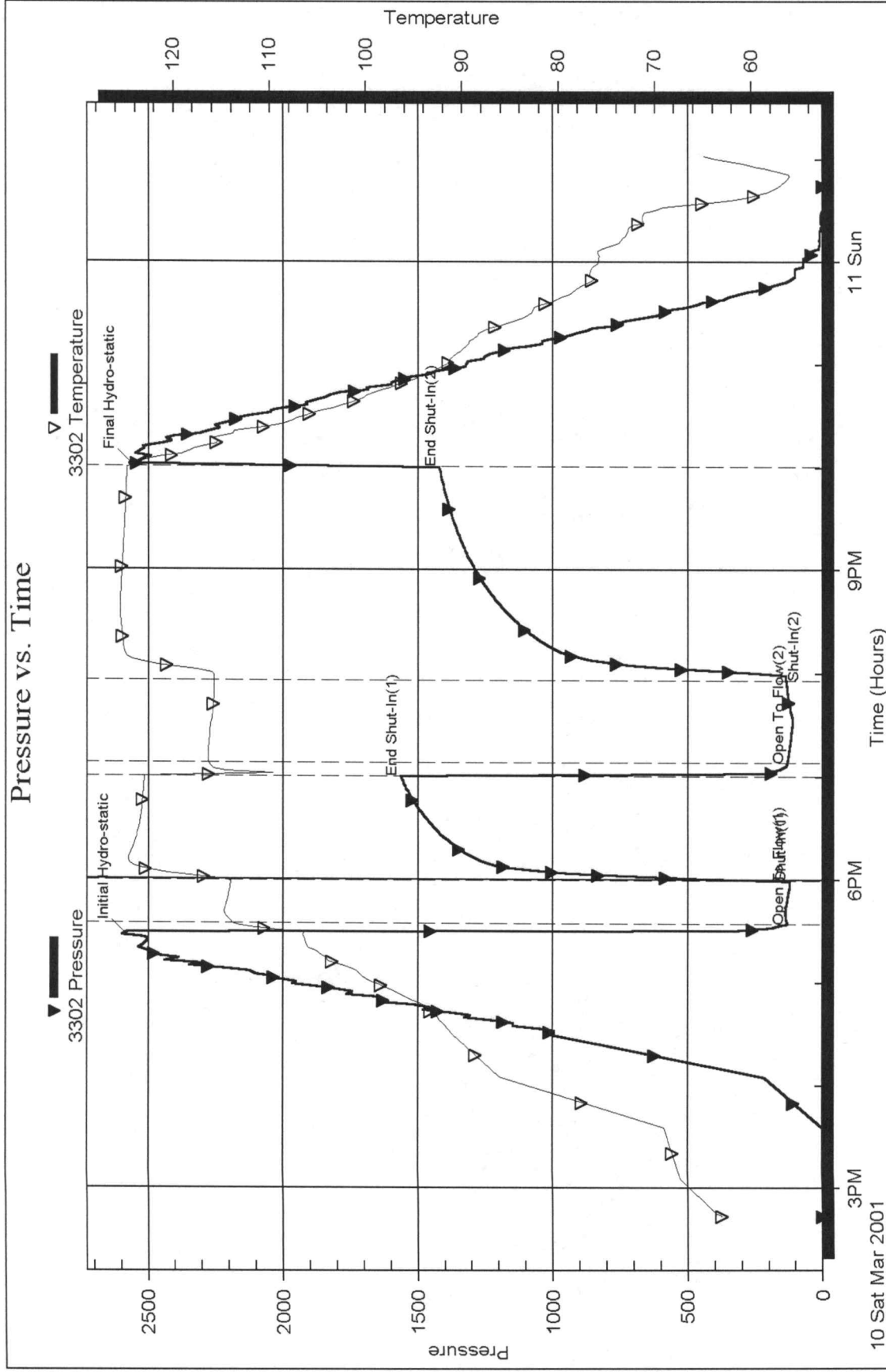
Serial #: 3302

Inside

Lario Oil & Gas Co.

2-33-19 Comanche KS

Pressure vs. Time





DRILL STEM TEST REPORT

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

301 Market
Wichita, KS 67202

ATTN: David Munro

2-33-19 Comanche KS

Brass #2-2

Start Date: 2001.03.11 @ 13:51:00

End Date: 2001.03.11 @ 00:00:00

Job Ticket #: 13596 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.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

ATTN: David Munro

Job Ticket: 13596

DST#: 5

Test Start: 2001.03.11 @ 13:51:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:53:48

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole

Tester: Darren L Amerie

Unit No: 19

Interval: **5240.00 ft (KB) To 5286.00 ft (KB) (TVD)**

Total Depth: 5286.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2011.00 ft (KB)

2000.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **3302** Inside

Press@RunDepth: 30.27 psig @ 5241.00 ft (KB)

Start Date: 2001.03.11

End Date:

2001.03.11

Start Time: 13:50:50

End Time:

22:41:18

Capacity: 7000.00 psig

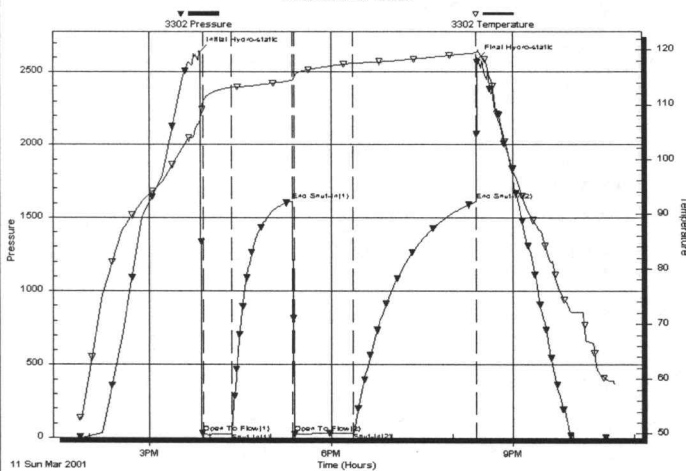
Last Calib.: 2001.03.11

Time On Btm: 2001.03.11 @ 15:50:18

Time Off Btm: 2001.03.11 @ 20:25:18

TEST COMMENT: IF: Strong blow b.o.b in 70 sec.
IS: Bled down for 3 mins. built
back to b.o.b in 35 mins. GTS--
in 40 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
120	2636.71	107.29	Initial Hydro-static
123	21.97	110.75	Open To Flow (1)
151	22.05	113.20	Shut-In(1)
211	1611.08	114.45	End Shut-In(1)
213	23.44	115.18	Open To Flow (2)
271	30.27	117.62	Shut-In(2)
393	1609.91	119.48	End Shut-In(2)
395	2587.24	120.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5177.00	01 - Gas	72.62
50.00	SGCM 10%gas 90% mud	0.70

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.00	24.43
Last Gas Rate	0.25	4.00	29.19
Max. Gas Rate	0.25	4.00	29.19



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13596

DST#: 5

ATTN: David Munro

Test Start: 2001.03.11 @ 13:51:00

Tool Information

Drill Pipe:	Length: 5227.00 ft	Diameter: 3.80 inches	Volume: 73.32 bbl	Tool Weight: 2100.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight to Pull Loose: 57000.00 lb
Drill Pipe Above KB:	15.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5235.00 ft			String Weight: Initial 57000.00 lb
Depth to Bottom Packer:	ft			Final 57000.00 lb
Interval between Packers:	ft			
Tool Length:	74.00 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			5213.00	
S.I. Tool	5.00			5218.00	
HMV	5.00			5223.00	
Jars	5.00			5228.00	
Safety Joint	2.00			5230.00	
Packer	5.00			5235.00	23.00 Bottom Of Top Packer
Packer	5.00			5240.00	
Stubb	1.00			5241.00	
Recorder	0.00	3302	Inside	5241.00	
Anchor	42.00			5283.00	
Recorder	0.00	10991	Outside	5283.00	
Bullnose	3.00			5286.00	51.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13596

DST#: 5

ATTN: David Munro

Test Start: 2001.03.11 @ 13:51:00

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: 49.00 sec/qt

Cushion Volume:

bbl

214748364

Water Loss: 87.72

Gas Cushion Type:

Resistivity: 3.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5177.00	01 - Gas	72.620
50.00	SGCM 10%gas 90%mud	0.701

Total Length: 5227.00 ft

Total Volume: 73.320 bbl

Num Fluid Samples: 2

Num Gas Bombs: 2

Serial #: 3302

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas Co.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13596

DST#: 5

ATTN: David Munro

Test Start: 2001.03.11 @ 13:51:00

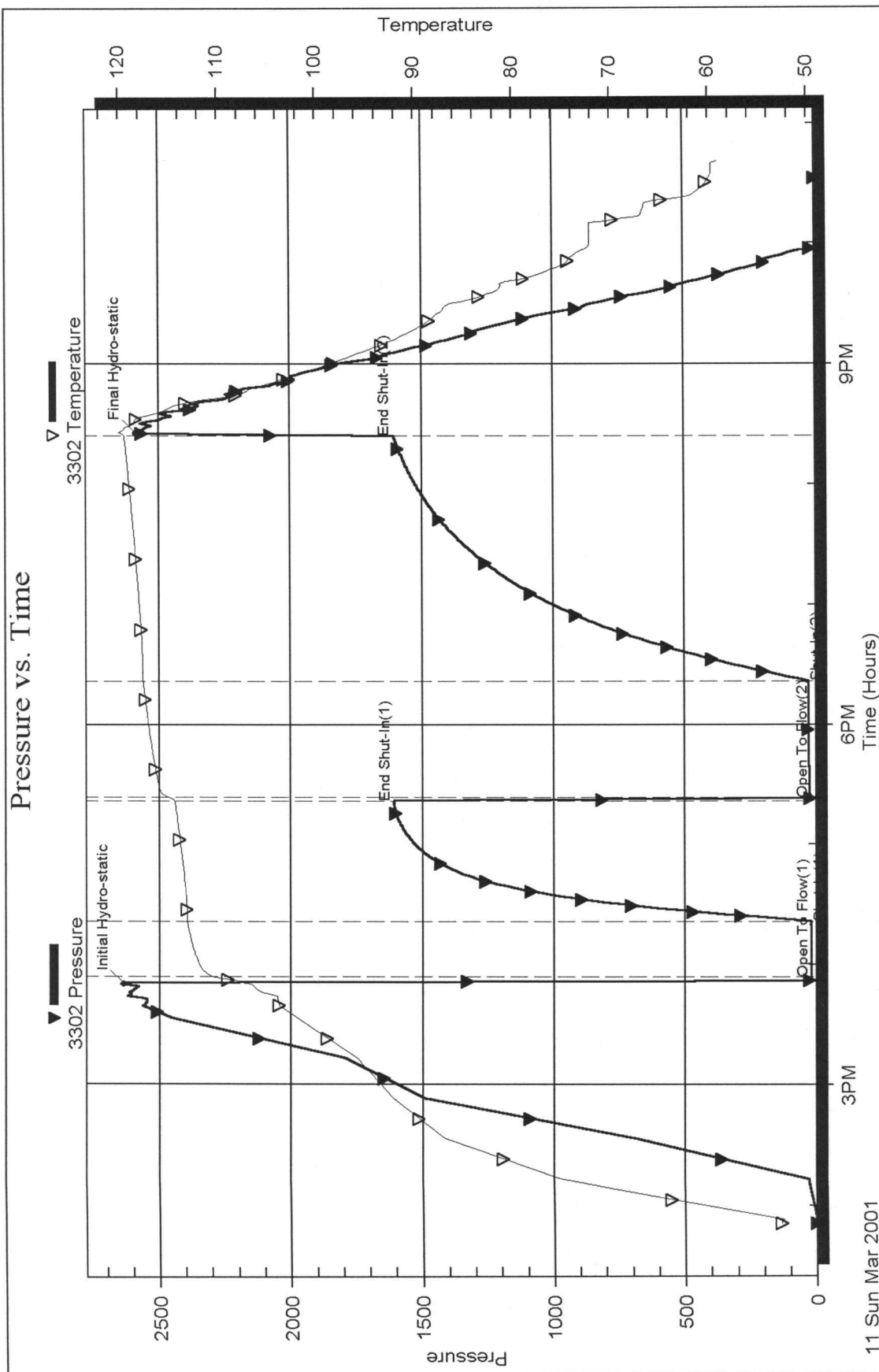
Gas Rates Information

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	5	0.25	1.00	24.43
2	5	0.25	1.00	24.43
2	5	0.25	1.00	24.43
2	5	0.25	1.00	24.43
2	10	0.25	1.50	25.22
2	15	0.25	1.50	25.22
2	20	0.25	2.00	26.02
2	25	0.25	2.50	26.81
2	30	0.25	3.00	27.60
2	35	0.25	3.50	28.40
2	40	0.25	3.50	28.40
2	45	0.25	4.00	29.19

Pressure vs. Time





DRILL STEM TEST REPORT

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

301 Market
Wichita, KS 67202

ATTN: David Munro

2-33-19 Comanche KS

Brass #2-2

Start Date: 2001.03.15 @ 02:09:00

End Date: 2001.03.15 @ 09:21:00

Job Ticket #: 13597 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 Co.

301 Market
Wichita, KS 67202

ATTN: David Munro

Brass #2-2

2-33-19 Comanche KS

Job Ticket: 13597

DST#: 6

Test Start: 2001.03.15 @ 02:09:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:47:34

Time Test Ended: 09:21:00

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **5900.00 ft (KB) To 5930.00 ft (KB) (TVD)**

Total Depth: 5930.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2011.00 ft (KB)

2000.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3302 Inside

Press@RunDepth: 106.33 psig @ 5901.00 ft (KB)

Start Date: 2001.03.15

End Date: 2001.03.15

Start Time: 02:09:06

End Time: 12:08:34

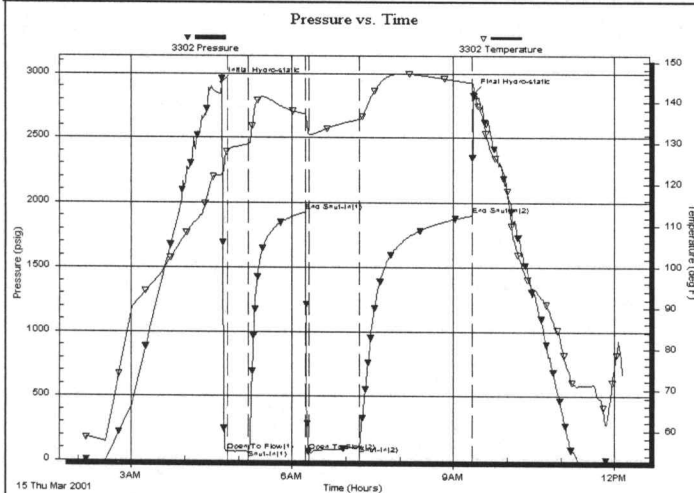
Capacity: 7000.00 psig

Last Calib.: 2001.03.09

Time On Btm: 2001.03.15 @ 04:41:04

Time Off Btm: 2001.03.15 @ 09:23:04

TEST COMMENT: Resistivity .13@50degrees IF: Strong blow b.o.b in 15 sec.
GTS in 6 mins. Gauge gas
IS: Bled down for 10 mins. no
blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
152	2930.57	122.47	Initial Hydro-static
159	68.16	128.30	Open To Flow (1)
183	69.00	129.91	Shut-In (1)
246	1927.49	137.19	End Shut-In (1)
250	62.17	132.29	Open To Flow (2)
306	106.33	135.90	Shut-In (2)
432	1901.83	144.89	End Shut-In (2)
434	2850.98	143.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5667.00	01 - Gas	79.49
20.00	SO&GCWM 12%G 4%O 6%W 78%M	0.28
120.00	O&GCWM 26%G 6%O 18%W 50%M	1.68
60.00	O&GCMW 20%G 10%O 50%W 20%M	0.84

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	9.00	157.85
Last Gas Rate	0.38	6.00	74.73
Max. Gas Rate	0.50	13.00	184.83



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lario Oil & Gas Co.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13597

DST#: 6

ATTN: David Munro

Test Start: 2001.03.15 @ 02:09:00

Tool Information

Drill Pipe:	Length: 5877.00 ft	Diameter: 3.80 inches	Volume: 82.44 bbl	Tool Weight: 2100.00 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: 64000.00 lb
Drill Pipe Above KB:	5.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5895.00 ft			String Weight: Initial 60000.00 lb
Depth to Bottom Packer:	ft			Final 60000.00 lb
Interval between Packers:	ft			
Tool Length:	58.00 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			5873.00	
S.I. Tool	5.00			5878.00	
HMV	5.00			5883.00	
Jars	5.00			5888.00	
Safety Joint	2.00			5890.00	
Packer	5.00			5895.00	23.00 Bottom Of Top Packer
Packer	5.00			5900.00	
Stubb	1.00			5901.00	
Recorder	0.00	3302	Inside	5901.00	
Anchor	26.00			5927.00	
Recorder	0.00	10991	Outside	5927.00	
Bullnose	3.00			5930.00	35.00 Bottom Packers & Anchor

Total Tool Length: 58.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13597

DST#: 6

ATTN: David Munro

Test Start: 2001.03.15 @ 02:09:00

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:

85000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.56

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5667.00	01 - Gas	79.493
20.00	SO&GCWM12%g 4%o 6%w 78%m	0.281
120.00	O&GCWM26%G 6%O 18%W 50%M	1.683
60.00	O&GCMW 20%G 10%O50%W 20%M	0.842

Total Length: 5867.00 ft

Total Volume: 82.290 bbl

Num Fluid Samples: 2

Num Gas Bombs: 2

Serial #: 3302

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments: Resistivity .13@50degress



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Lario Oil & Gas Co.

Brass #2-2

301 Market
Wichita, KS 67202

2-33-19 Comanche KS

Job Ticket: 13597

DST#: 6

ATTN: David Munro

Test Start: 2001.03.15 @ 02:09:00

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	10	0.50	9.00	157.85
1	15	0.50	9.00	157.85
1	20	0.50	7.00	144.36
1	25	0.50	6.00	137.61
1	30	0.50	5.00	130.87
2	5	0.50	13.00	184.83
2	10	0.50	12.00	178.09
2	15	0.50	8.00	151.10
2	20	0.50	6.00	137.61
2	25	0.50	5.00	130.87
2	30	0.50	3.00	117.38
2	35	0.38	2.00	60.08
2	40	0.38	5.00	71.07
2	45	0.38	5.00	71.07
2	50	0.38	5.00	71.07
2	55	0.38	5.50	72.90
2	60	0.38	6.00	74.73

Pressure vs. Time

