



DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

19 18 26W Ness KS

McLeish 3-19

Start Date: 2006.07.14 @ 21:37:01

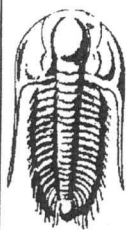
End Date: 2006.07.15 @ 05:58:30

Job Ticket #: 24265 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

Larson Operating

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

McLeish 3-19

19 18 26W Ness KS

Job Ticket: 24265

DST#: 1

Test Start: 2006.07.14 @ 21:37:01

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:15:30

Time Test Ended: 05:58:30

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4405.00 ft (KB) To 4438.00 ft (KB) (TVD)**

Total Depth: 4438.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2648.00 ft (KB)

2638.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8017

Inside

Press@RunDepth: 207.54 psig @ 4408.00 ft (KB)

Start Date: 2006.07.14

End Date: 2006.07.15

Start Time: 21:37:01

End Time: 05:58:30

Capacity: 7000.00 psig

Last Calib.: 2006.07.15

Time On Btm: 2006.07.15 @ 00:15:15

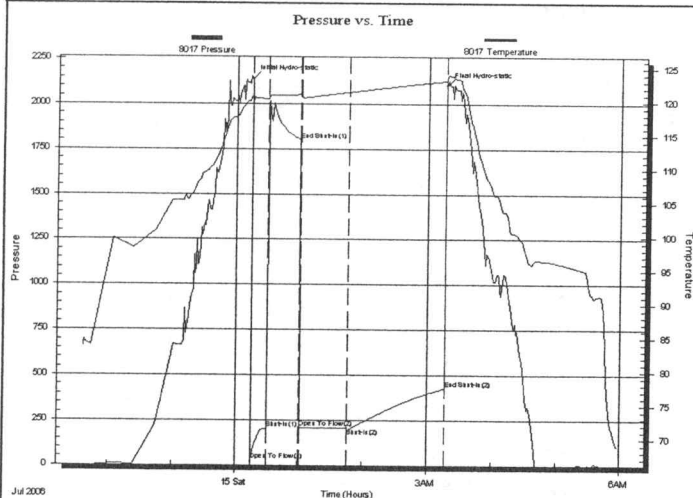
Time Off Btm: 2006.07.15 @ 03:17:15

TEST COMMENT: IF BOB @ 5 1/2 min

ISI No return

FF No blow

FSI No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2138.65	120.93	Initial Hydro-static
1	27.73	119.67	Open To Flow (1)
16	199.74	120.43	Shut-In (1)
46	1799.31	121.11	End Shut-In (1)
46	205.01	120.71	Open To Flow (2)
91	207.54	121.46	Shut-In (2)
182	426.86	123.15	End Shut-In (2)
182	2101.78	123.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
375.00	Drilling Mud	4.17

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

McLeish 3-19

19 18 26W Ness KS

Job Ticket: 24265

DST#: 1

Test Start: 2006.07.14 @ 21:37:01

Tool Information

Drill Pipe:	Length: 4267.00 ft	Diameter: 3.80 inches	Volume: 59.85 bbl	Tool Weight:	1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	60.44 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4405.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	61.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4378.00	
Shut In Tool	5.00			4383.00	
Hydraulic tool	5.00			4388.00	
Jars	5.00			4393.00	
Safety Joint	3.00			4396.00	
Packer	5.00			4401.00	28.00 Bottom Of Top Packer
Packer	4.00			4405.00	
Stubb	1.00			4406.00	
Perforations	2.00			4408.00	
Recorder	0.00	8017	Inside	4408.00	
Perforations	25.00			4433.00	
Recorder	0.00	13276	Inside	4433.00	
Bullnose	5.00			4438.00	33.00 Bottom Packers & Anchor

Total Tool Length: 61.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Operating

McLeish 3-19

562 W Hwy 4
Olmitz KS 67564

19 18 26W Ness KS

Job Ticket: 24265

DST#: 1

ATTN: Bob Lewellyn

Test Start: 2006.07.14 @ 21:37:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 7.96 in³

Resistivity: 0.00 ohm.m

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

0 deg API

Water Salinity:

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
375.00	Drilling Mud	4.167

Total Length: 375.00 ft Total Volume: 4.167 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

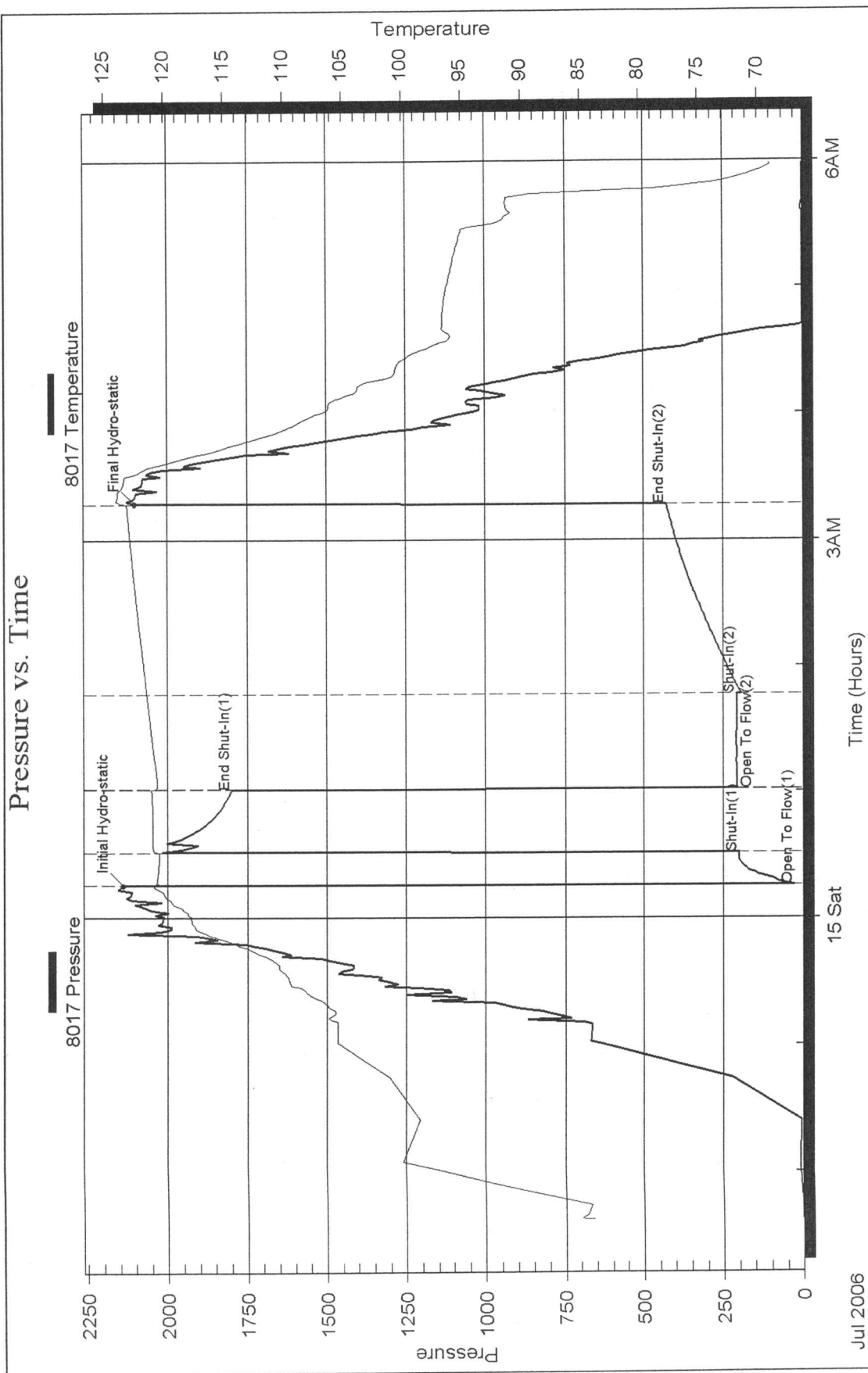
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Spots of oil in tool

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

19 18 26W Ness KS

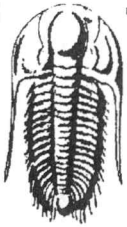
McLeish 3-19

Start Date: 2006.07.15 @ 07:42:01

End Date: 2006.07.15 @ 13:54:15

Job Ticket #: 24266 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

Larson Operating

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lew ellyn

McLeish 3-19

19 18 26W Ness KS

Job Ticket: 24266

DST#: 2

Test Start: 2006.07.15 @ 07:42:01

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:35:30

Time Test Ended: 13:54:15

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4408.00 ft (KB) To 4438.00 ft (KB) (TVD)**

Total Depth: 4438.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2648.00 ft (KB)

2638.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8017 Inside

Press@RunDepth: 141.80 psig @ 4413.00 ft (KB)

Start Date: 2006.07.15

End Date:

2006.07.15

Start Time: 07:42:01

End Time:

13:54:15

Capacity: 7000.00 psig

Last Calib.: 2006.07.15

Time On Btm: 2006.07.15 @ 09:35:00

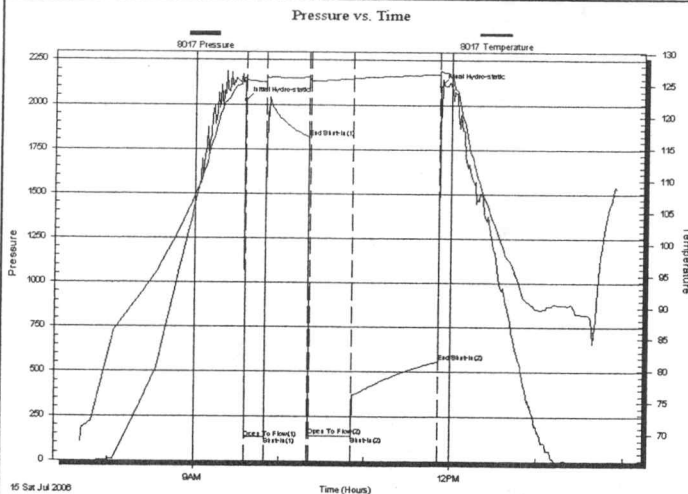
Time Off Btm: 2006.07.15 @ 11:52:15

TEST COMMENT: IF Surface blow to 4 "

ISI No return

FF Surface blow died @ 5 min

FSI No return



PRESSURE SUMMARY

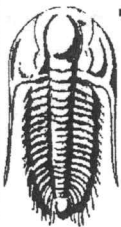
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2019.52	126.00	Initial Hydro-static
1	124.06	125.71	Open To Flow (1)
15	132.92	125.50	Shut-In(1)
45	1815.58	126.20	End Shut-In(1)
46	138.31	125.70	Open To Flow (2)
76	141.80	125.98	Shut-In(2)
137	558.67	126.75	End Shut-In(2)
138	2102.51	127.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Drilling Mud	3.37

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

McLeish 3-19

19 18 26W Ness KS

Job Ticket: 24266

DST#: 2

Test Start: 2006.07.15 @ 07:42:01

Tool Information

Drill Pipe:	Length: 4390.00 ft	Diameter: 3.80 inches	Volume: 61.58 bbl	Tool Weight:	1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	95000.00 lb
		Total Volume:	61.58 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4408.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 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
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Change Over Sub	1.00			4381.00	
Shut In Tool	5.00			4386.00	
Hydraulic tool	5.00			4391.00	
Jars	5.00			4396.00	
Safety Joint	3.00			4399.00	
Packer	5.00			4404.00	28.00 Bottom Of Top Packer
Packer	4.00			4408.00	
Stubb	1.00			4409.00	
Perforations	4.00			4413.00	
Recorder	0.00	8017	Inside	4413.00	
Perforations	20.00			4433.00	
Recorder	0.00	13276	Inside	4433.00	
Bullnose	5.00			4438.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Operating

McLeish 3-19

562 W Hwy 4
Olmritz KS 67564

19 18 26W Ness KS

Job Ticket: 24266

DST#: 2

ATTN: Bob Lewellyn

Test Start: 2006.07.15 @ 07:42:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Drilling Mud	3.367

Total Length: 240.00 ft

Total Volume: 3.367 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

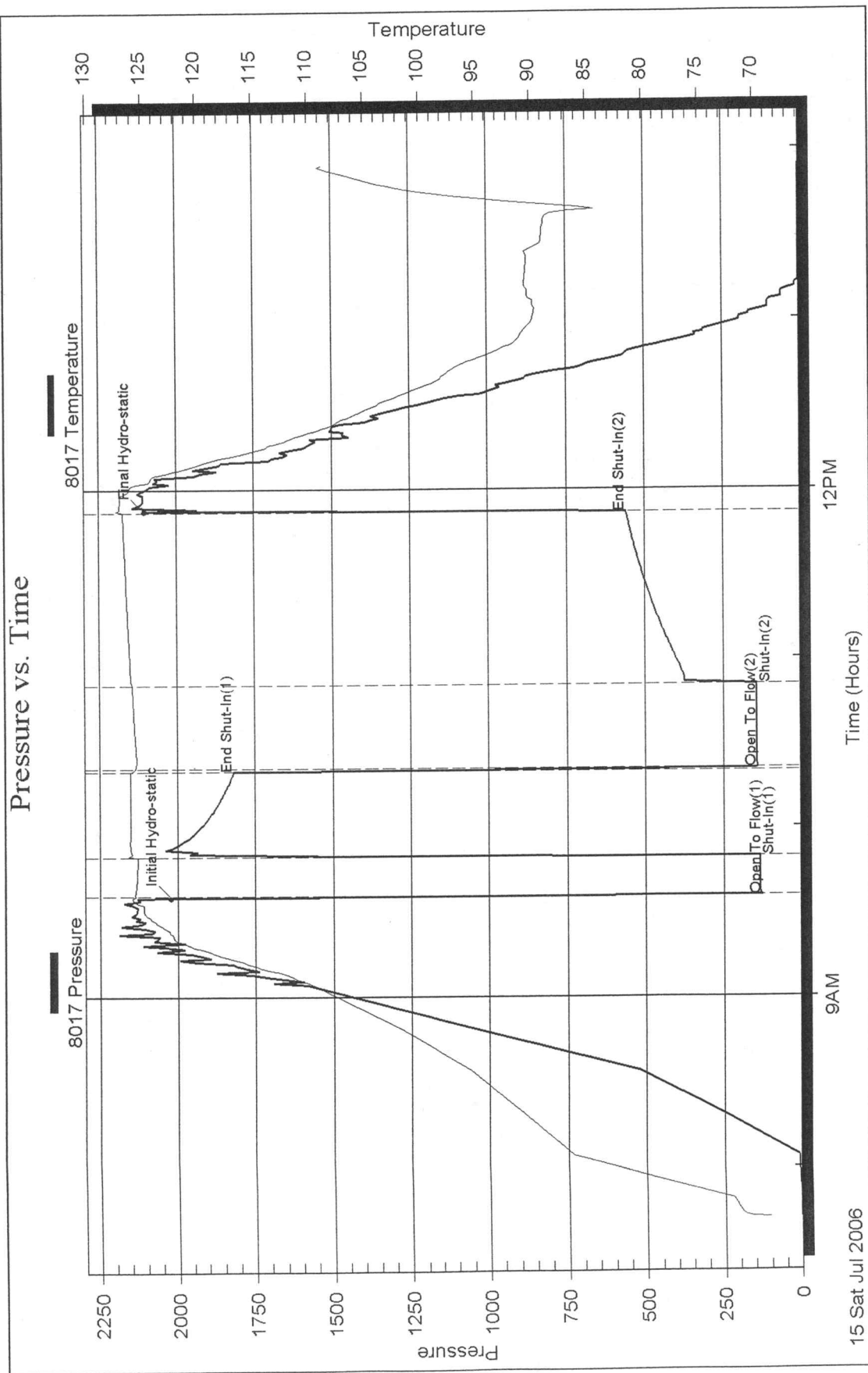
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

19 18 26W Ness KS

McLeish 3-19

Start Date: 2006.07.16 @ 04:55:28

End Date: 2006.07.16 @ 12:21:07

Job Ticket #: 23111 DST #: 3

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



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DRILL STEM TEST REPORT

Larson Operating

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

McLeish 3-19

19 18 26W Ness KS

Job Ticket: 23111

DST#: 3

Test Start: 2006.07.16 @ 04:55:28

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:15:23

Time Test Ended: 12:21:07

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4465.00 ft (KB) To 4522.00 ft (KB) (TVD)**

Total Depth: 4522.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2648.00 ft (KB)

2638.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6772

Inside

Press@RunDepth: 55.47 psig @ 4466.00 ft (KB)

Start Date: 2006.07.16

End Date:

2006.07.16

Capacity: 7000.00 psig

Last Calib.: 2006.07.16

Start Time: 04:55:28

End Time:

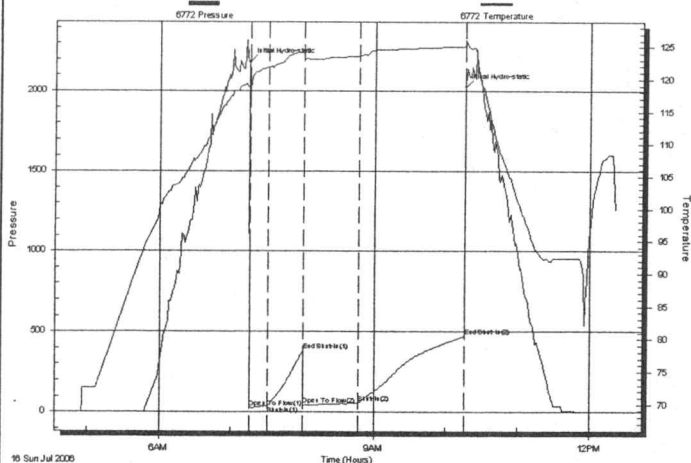
12:21:07

Time On Btm: 2006.07.16 @ 07:14:53

Time Off Btm: 2006.07.16 @ 10:15:52

TEST COMMENT: IF 1/4 blow BOB in 7 min
IS No return
FF Strong blow BOB in 1 min
FS No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.34	118.67	Initial Hydro-static
1	25.66	118.53	Open To Flow (1)
16	36.90	121.86	Shut-In(1)
46	380.33	124.19	End Shut-In(1)
46	42.35	122.97	Open To Flow (2)
92	55.47	123.60	Shut-In(2)
181	470.55	125.12	End Shut-In(2)
181	2027.08	125.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCGO 50%G 10%O 40%M	0.87
55.00	GOCM 5%G 10%O 85%M	0.77

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating

McLeish 3-19

562 W Hwy 4
Olmitz KS 67564

19 18 26W Ness KS

Job Ticket: 23111

DST#: 3

ATTN: Bob Lewellyn

Test Start: 2006.07.16 @ 04:55:28

Tool Information

Drill Pipe: Length: 4449.00 ft Diameter: 3.80 inches Volume: 62.41 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 2.25 inches Volume: 0.00 bbl
Total Volume: 62.41 bbl

Tool Weight: 1500.00 lb
Weight set on Packer: 30000.00 lb
Weight to Pull Loose: 60000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 46000.00 lb
Final 52000.00 lb

Drill Pipe Above KB: 11.00 ft
Depth to Top Packer: 4465.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 57.00 ft
Tool Length: 84.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4439.00	
Shut In Tool	5.00			4444.00	
Hydraulic tool	5.00			4449.00	
Jars	5.00			4454.00	
Safety Joint	2.00			4456.00	
Packer	5.00			4461.00	27.00 Bottom Of Top Packer
Packer	4.00			4465.00	
Stubb	1.00			4466.00	
Recorder	0.00	6772	Inside	4466.00	
Perforations	17.00			4483.00	
Change Over Sub	1.00			4484.00	
Drill Pipe	32.00			4516.00	
Change Over Sub	1.00			4517.00	
Recorder	0.00	7437	Outside	4517.00	
Bullhose	5.00			4522.00	57.00 Bottom Packers & Anchor

Total Tool Length: 84.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Operating

McLeish 3-19

562 W Hwy 4
Olmitz KS 67564

19 18 26W Ness KS

Job Ticket: 23111

DST#: 3

ATTN: Bob Lewellyn

Test Start: 2006.07.16 @ 04:55:28

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 8.74 in³

Resistivity: 0.00 ohm.m

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

0 deg API

Water Salinity:

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MCGO 50%G 10%O 40%M	0.870
55.00	GOCM 5%G 10%O 85%M	0.772

Total Length: 117.00 ft

Total Volume: 1.642 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

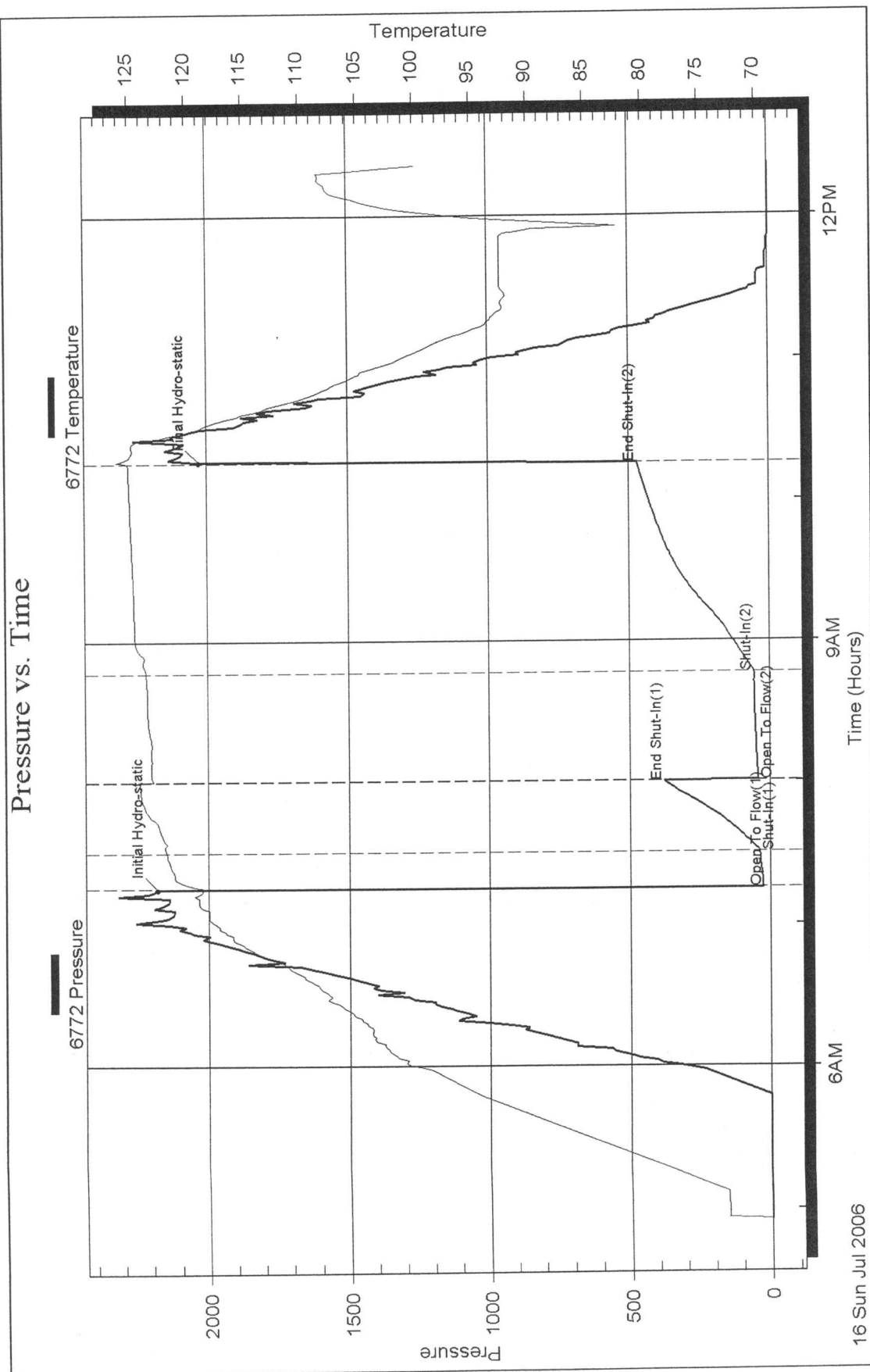
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

19 18 26W Ness KS

McLeish 3-19

Start Date: 2006.07.17 @ 05:29:02

End Date: 2006.07.17 @ 12:29:56

Job Ticket #: 23112 DST #: 4

Trilobite Testing, Inc

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



**TRILOBITE
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DRILL STEM TEST REPORT

Larson Operating

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

McLeish 3-19

19 18 26W Ness KS

Job Ticket: 23112

DST#: 4

Test Start: 2006.07.17 @ 05:29:02

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:12:12

Time Test Ended: 12:29:56

Interval: **4569.00 ft (KB) To 4605.00 ft (KB) (TVD)**

Total Depth: 4522.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Reference Elevations: 2648.00 ft (KB)

2638.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6772 Inside

Press@RunDepth: 28.11 psig @ 4570.00 ft (KB)

Start Date: 2006.07.17

End Date:

2006.07.17

Start Time: 05:29:02

End Time:

12:29:56

Capacity: 7000.00 psig

Last Calib.: 2006.07.17

Time On Btm: 2006.07.17 @ 08:11:57

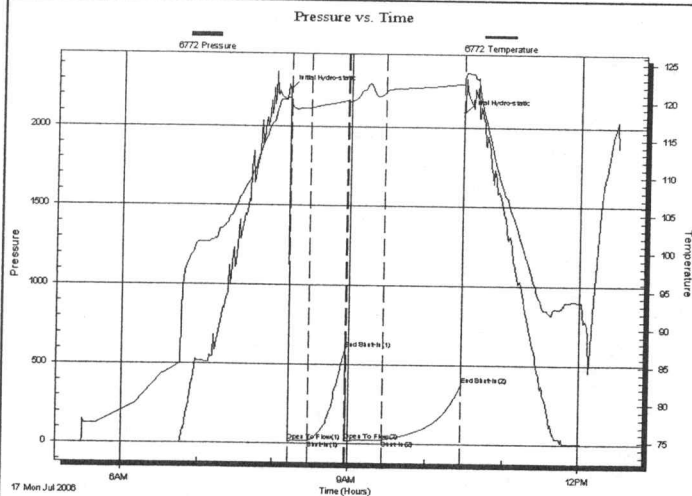
Time Off Btm: 2006.07.17 @ 10:27:56

TEST COMMENT: IF 1/4 blow died in 6 min

IS No return

FF No blow

FS No reutrtn



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2238.23	120.42	Initial Hydro-static
1	16.54	119.84	Open To Flow (1)
16	19.39	119.11	Shut-In(1)
45	601.51	120.13	End Shut-In(1)
46	21.37	119.95	Open To Flow (2)
75	28.11	121.32	Shut-In(2)
136	378.29	122.46	End Shut-In(2)
136	2095.95	123.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 10%O 90%M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

McLeish 3-19

19 18 26W Ness KS

Job Ticket: 23112

DST#: 4

Test Start: 2006.07.17 @ 05:29:02

Tool Information

Drill Pipe:	Length: 4511.00 ft	Diameter: 3.80 inches	Volume: 63.28 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 62.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	63.58 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4569.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4543.00	
Shut In Tool	5.00			4548.00	
Hydraulic tool	5.00			4553.00	
Jars	5.00			4558.00	
Safety Joint	2.00			4560.00	
Packer	5.00			4565.00	27.00 Bottom Of Top Packer
Packer	4.00			4569.00	
Stubb	1.00			4570.00	
Recorder	0.00	6772	Inside	4570.00	
Perforations	30.00			4600.00	
Recorder	0.00	7437	Outside	4600.00	
Bullnose	5.00			4605.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Operating

McLeish 3-19

562 W Hwy 4
Olmitz KS 67564

19 18 26W Ness KS

Job Ticket: 23112

DST#: 4

ATTN: Bob Lew ellyn

Test Start: 2006.07.17 @ 05:29:02

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 7.95 in³

Resistivity: 0.00 ohm.m

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 10%O 90%M	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

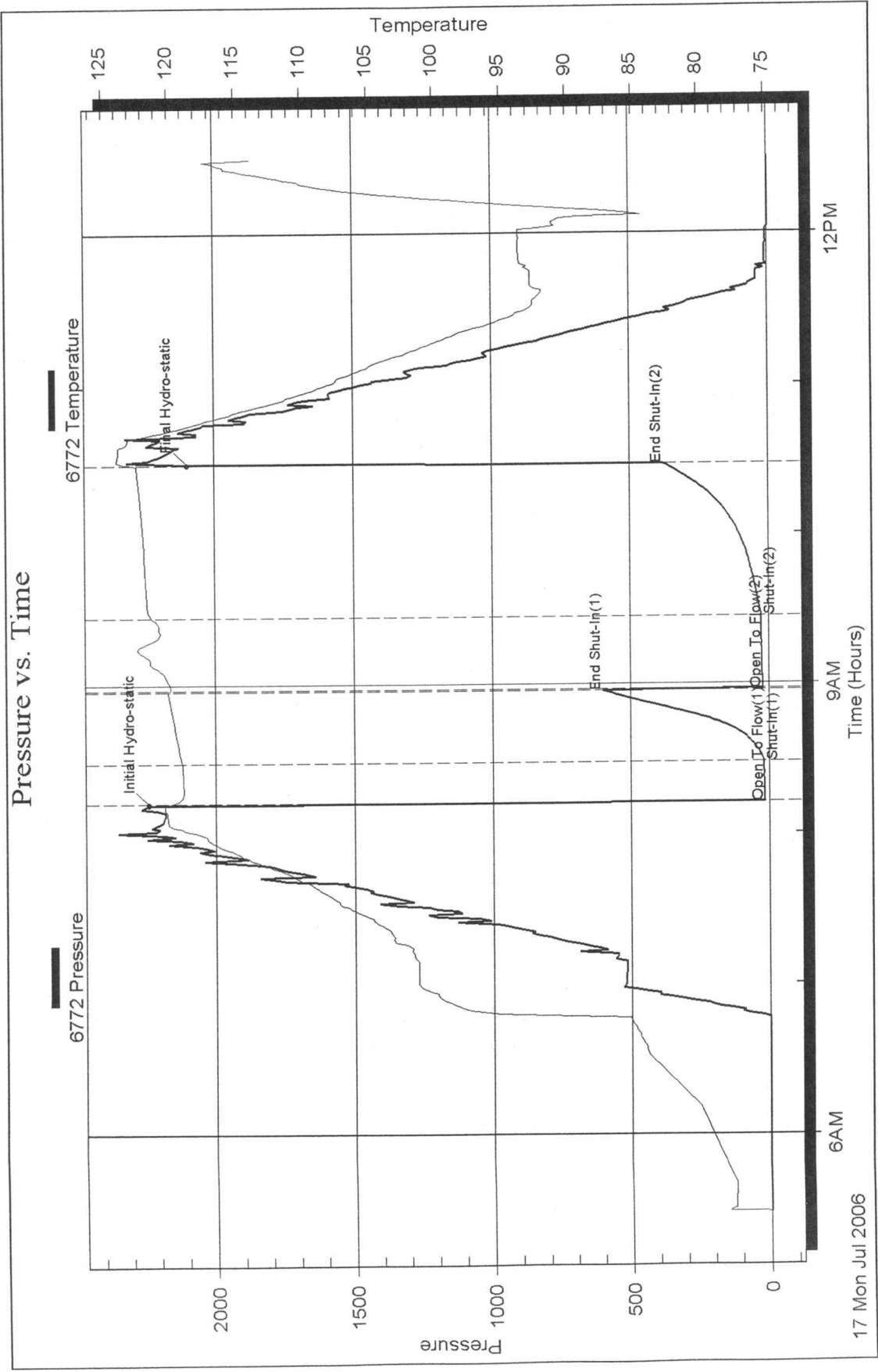
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Larson Operating**

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

19 18 26W Ness KS

McLeish 3-19

Start Date: 2006.07.17 @ 22:46:36

End Date: 2006.07.18 @ 05:43:30

Job Ticket #: 23113

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

Larson Operating

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

McLeish 3-19

19 18 26W Ness KS

Job Ticket: 23113

DST#: 5

Test Start: 2006.07.17 @ 22:46:36

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:56:31

Time Test Ended: 05:43:30

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4604.00 ft (KB) To 4614.00 ft (KB) (TVD)**

Total Depth: 4614.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2648.00 ft (KB)

2638.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6772** Inside

Press@RunDepth: 22.08 psig @ 4605.00 ft (KB)

Start Date: 2006.07.17

End Date: 2006.07.18

Capacity: 7000.00 psig

Last Calib.: 2006.07.18

Start Time: 22:46:36

End Time: 05:43:30

Time On Btm: 2006.07.18 @ 00:56:16

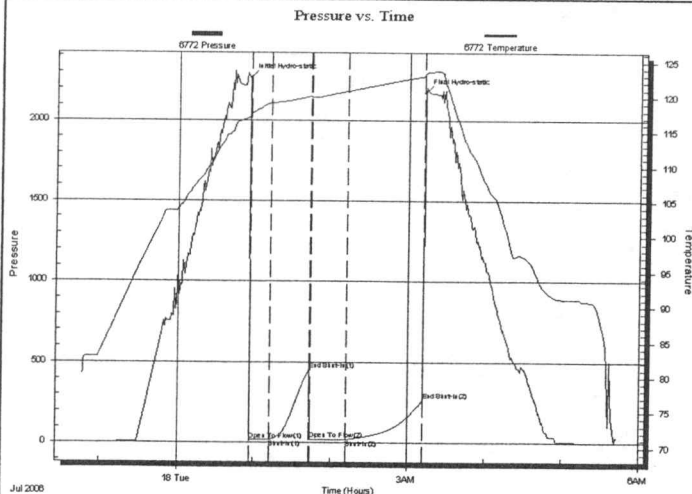
Time Off Btm: 2006.07.18 @ 03:12:00

TEST COMMENT: IF Surface blow died in 5 min

IS No reutr

FF No blow

FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2263.64	117.25	Initial Hydro-static
1	15.39	117.14	Open To Flow (1)
16	19.77	119.12	Shut-In (1)
48	451.92	120.14	End Shut-In (1)
48	19.88	120.03	Open To Flow (2)
76	22.08	120.83	Shut-In (2)
136	263.58	122.98	End Shut-In (2)
136	2173.20	123.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating

562 W Hwy 4
Olmitz KS 67564

ATTN: Bob Lewellyn

McLeish 3-19

19 18 26W Ness KS

Job Ticket: 23113

DST#: 5

Test Start: 2006.07.17 @ 22:46:36

Tool Information

Drill Pipe:	Length: 4543.00 ft	Diameter: 3.80 inches	Volume: 63.73 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 62.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	64.03 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4604.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	37.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4578.00	
Shut In Tool	5.00			4583.00	
Hydraulic tool	5.00			4588.00	
Jars	5.00			4593.00	
Safety Joint	2.00			4595.00	
Packer	5.00			4600.00	27.00 Bottom Of Top Packer
Packer	4.00			4604.00	
Stubb	1.00			4605.00	
Recorder	0.00	6772	Inside	4605.00	
Perforations	4.00			4609.00	
Recorder	0.00	7437	Outside	4609.00	
Bullnose	5.00			4614.00	10.00 Bottom Packers & Anchor

Total Tool Length: 37.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Operating

McLeish 3-19

562 W Hwy 4
Olmitz KS 67564

19 18 26W Ness KS

Job Ticket: 23113

DST#: 5

ATTN: Bob Lewellyn

Test Start: 2006.07.17 @ 22:46:36

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.97 in³

Resistivity: 0.00 ohm.m

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M	0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

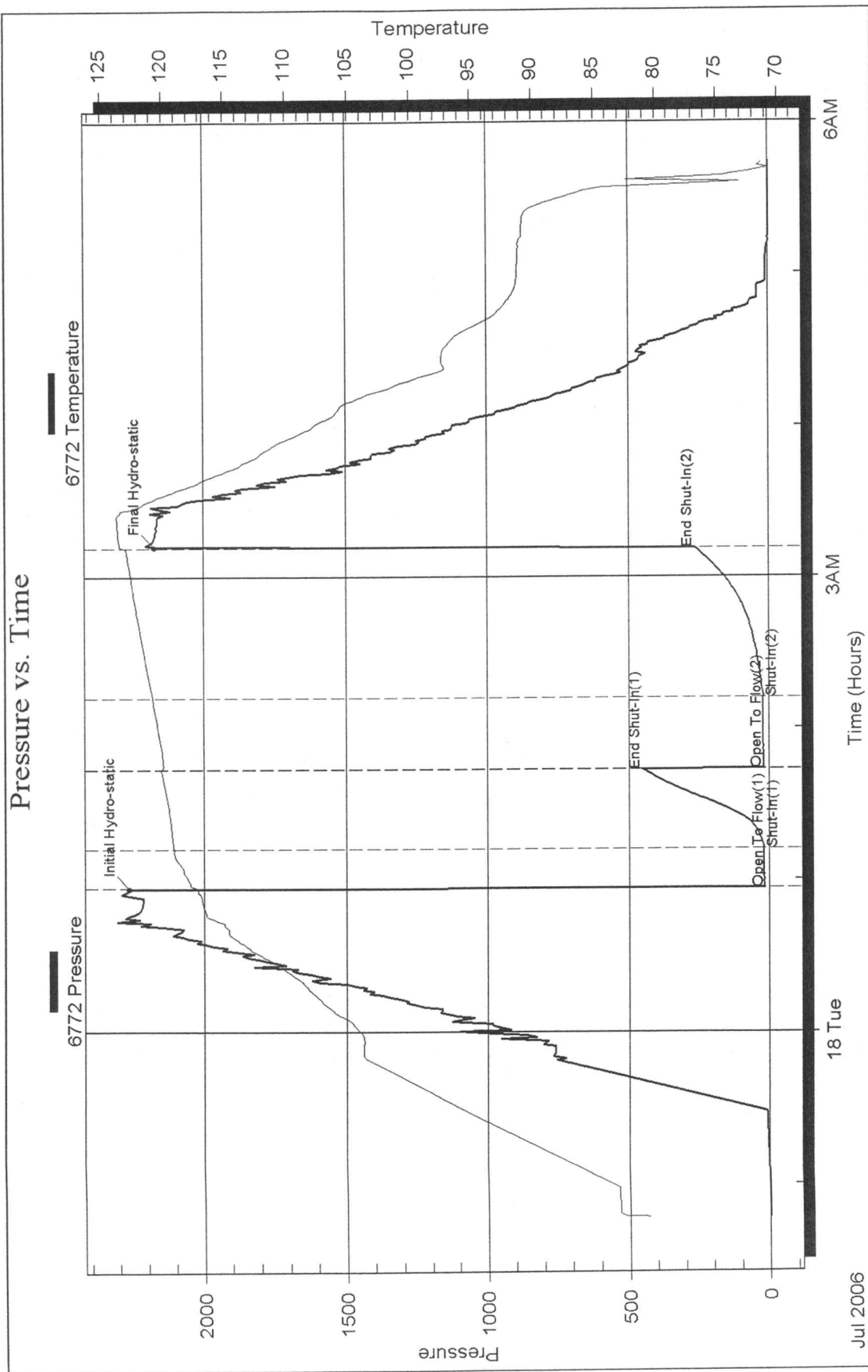


CHART PAGE

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

McLeish #3-19 24266 DST#1 Larson

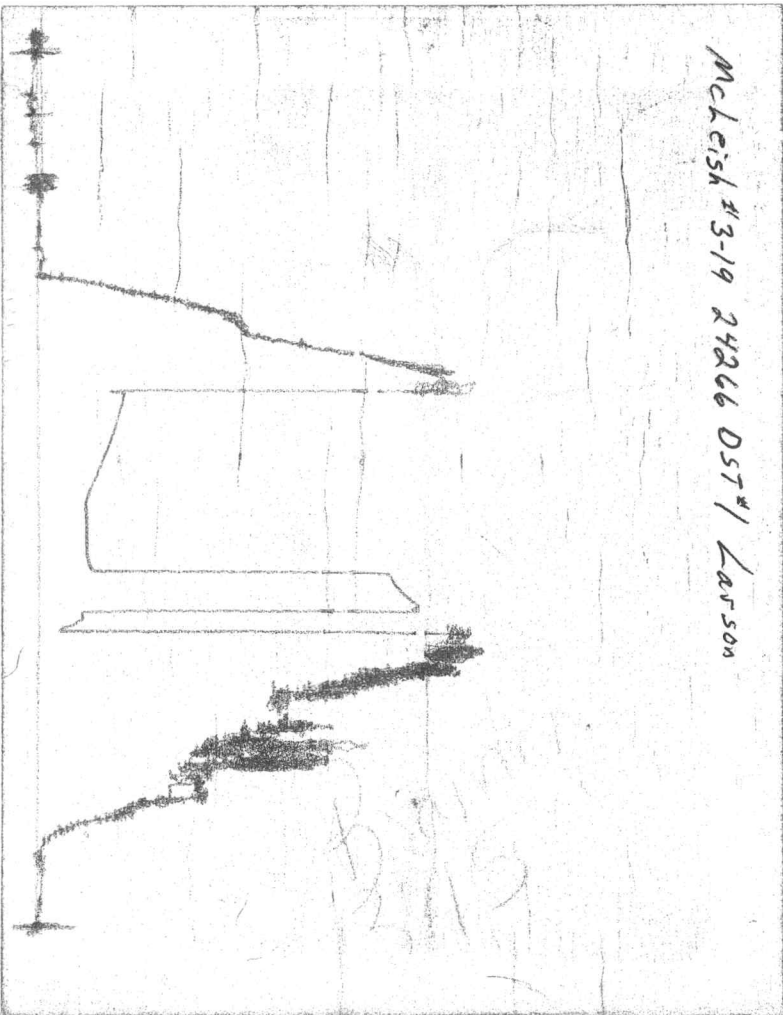


CHART PAGE

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

24266 DST #2 McLeish #3-19 Larson

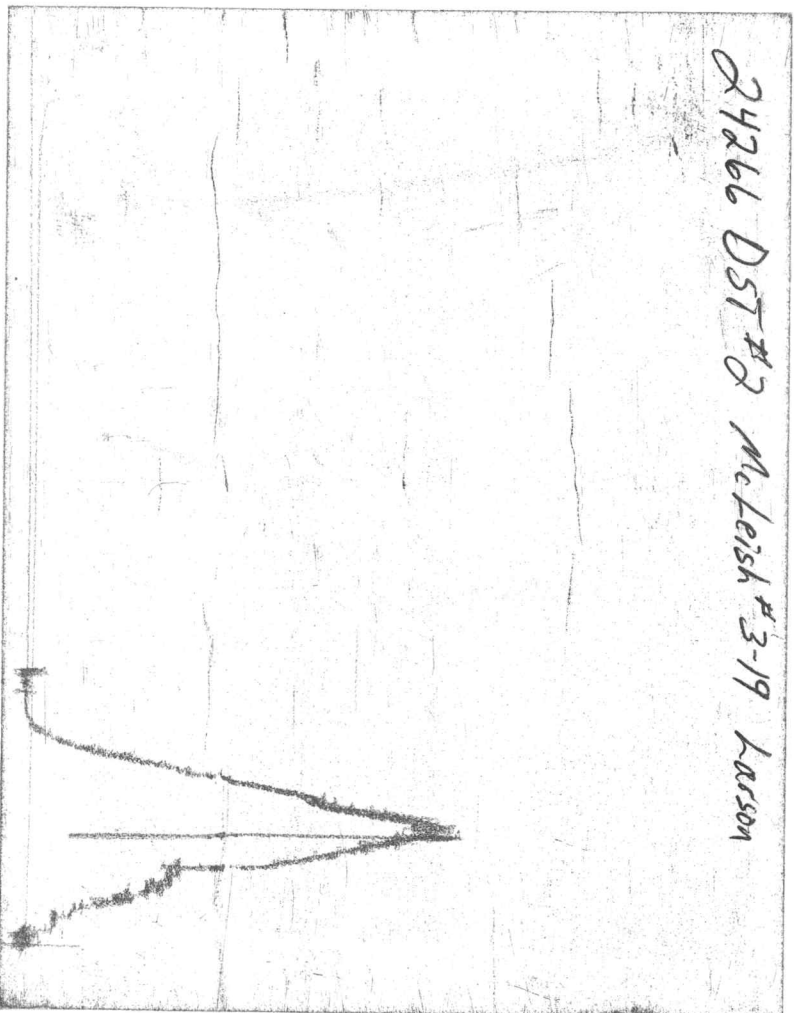


CHART PAGE

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

7437
#13

Larson Operating Company
McLeish 3-19

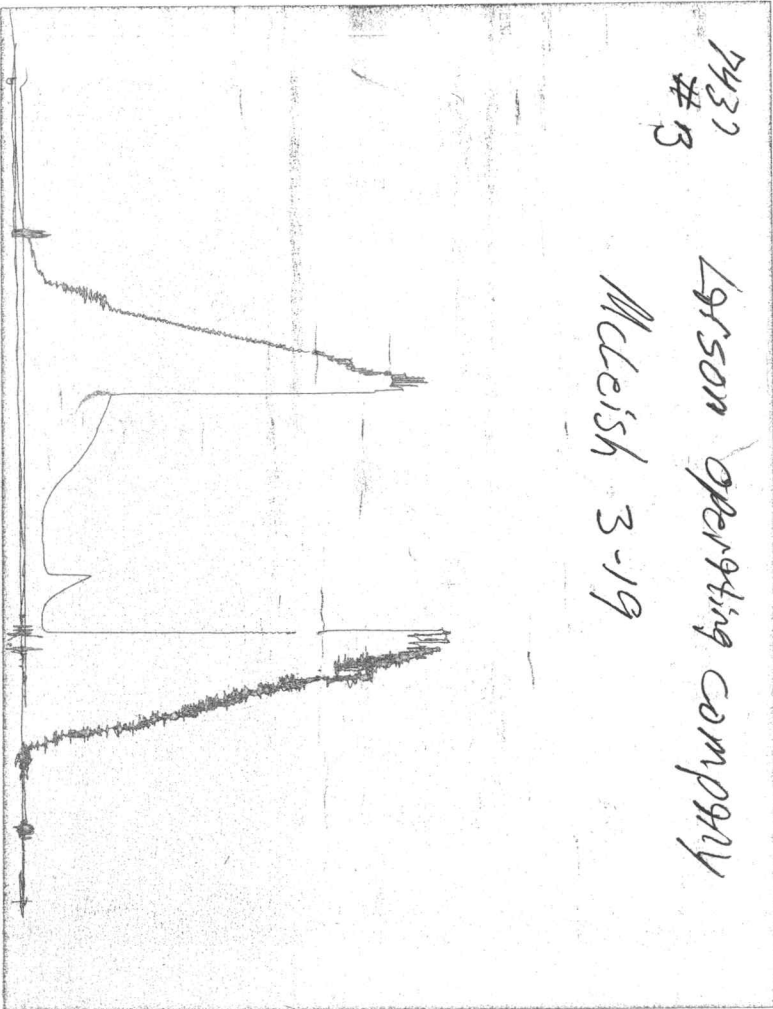


CHART PAGE

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

7439 Larson operating
#4 McLeish 3-19

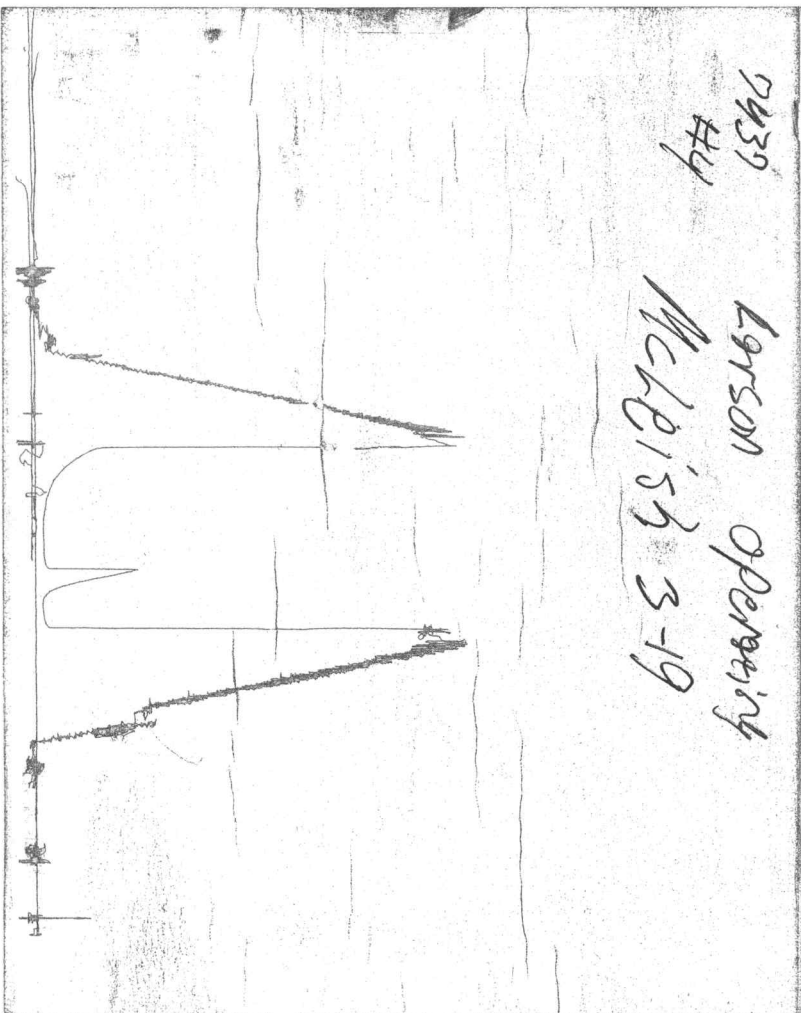


CHART PAGE

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

