

DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 West Main St.
Salem IL 62881

ATTN: Tom Funk

9 13 32W Logan KS

Frey 1-9

Start Date: 2007.06.17 @ 21:05:42

End Date: 2007.06.18 @ 05:31:36

Job Ticket #: 27688 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

Shakespeare Oil Company

202 West Main St.
Salem IL 62881

ATTN: Tom Funk

Frey 1-9

9 13 32W Logan KS

Job Ticket: 27688

DST#: 1

Test Start: 2007.06.17 @ 21:05:42

GENERAL INFORMATION:

Formation: I-J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:24:52

Time Test Ended: 05:31:36

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: 4153.00 ft (KB) To 4200.00 ft (KB) (TVD)

Total Depth: 4200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2990.00 ft (KB)

2980.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6772 Inside

Press@RunDepth: 323.21 psig @ 4154.00 ft (KB)

Start Date: 2007.06.17

End Date:

2007.06.18

Capacity: 7000.00 psig

Last Calib.: 2007.06.18

Start Time: 21:05:42

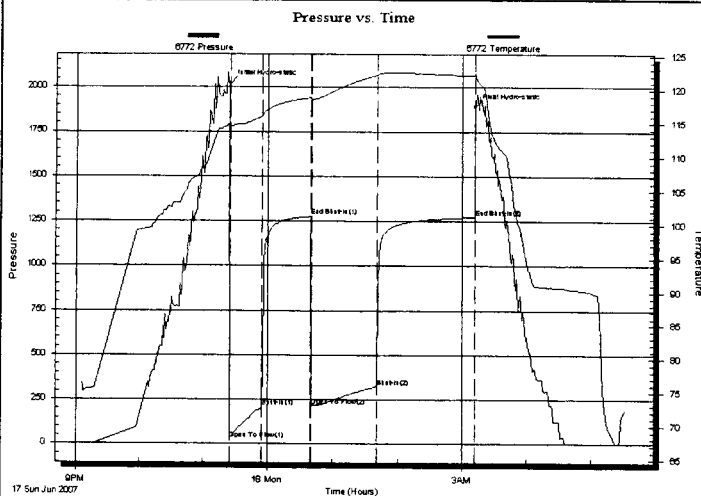
End Time:

05:31:36

Time On Btm: 2007.06.17 @ 23:24:37

Time Off Btm: 2007.06.18 @ 03:11:36

TEST COMMENT: IF BOB in 8 min.
IS Surface blow built to 3 in 45 min.
FF BOB in 8 min.
FS Surface blow built to 9 in 90 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2019.84	114.95	Initial Hydro-static
1	25.38	114.51	Open To Flow (1)
31	208.82	116.22	Shut-In (1)
75	1274.58	118.87	End Shut-In (1)
76	215.07	118.65	Open To Flow (2)
136	323.21	122.17	Shut-In (2)
227	1270.83	122.13	End Shut-In (2)
227	1889.16	122.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	GWCM trace of Oil 5%G 45%W 50%M	0.91
279.00	MGO 40%G 30%O 30%M	1.37
341.00	GO 30%G 70%O	4.22

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company

Frey 1-9

202 West Main St.
Salem IL 62881

9 13 32W Logan KS

Job Ticket: 27688

DST#: 1

ATTN: Tom Funk

Test Start: 2007.06.17 @ 21:05:42

Tool Information

Drill Pipe:	Length: 3615.00 ft	Diameter: 3.80 inches	Volume: 50.71 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: 527.00 ft	Diameter: 2.25 inches	Volume: 2.59 bbl	Weight to Pull Loose:	12000.00 lb
		Total Volume:	53.30 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	90000.00 lb
Depth to Top Packer:	4153.00 ft			Final	93000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 ft				
Tool Length:	67.00 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			4134.00	
Shut In Tool	5.00			4139.00	
Hydraulic tool	5.00			4144.00	
Packer	5.00			4149.00	20.00 Bottom Of Top Packer
Packer	4.00			4153.00	
Stubb	1.00			4154.00	
Recorder	0.00	6772	Inside	4154.00	
Perforations	8.00			4162.00	
Change Over Sub	1.00			4163.00	
Drill Pipe	31.00			4194.00	
Change Over Sub	1.00			4195.00	
Recorder	0.00	7437	Outside	4195.00	
Bullnose	5.00			4200.00	47.00 Bottom Packers & Anchor

Total Tool Length: 67.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company

Frey 1-9

202 West Main St.
Salem IL 62881

9 13 32W Logan KS

Job Ticket: 27688

DST#: 1

ATTN: Tom Funk

Test Start: 2007.06.17 @ 21:05:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

51000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	GWCM trace of Oil 5%G 45%W 50%M	0.915
279.00	MCOGO 40%G 30%O 30%M	1.372
341.00	GO 30%G 70%O	4.219

Total Length: 806.00 ft

Total Volume: 6.506 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

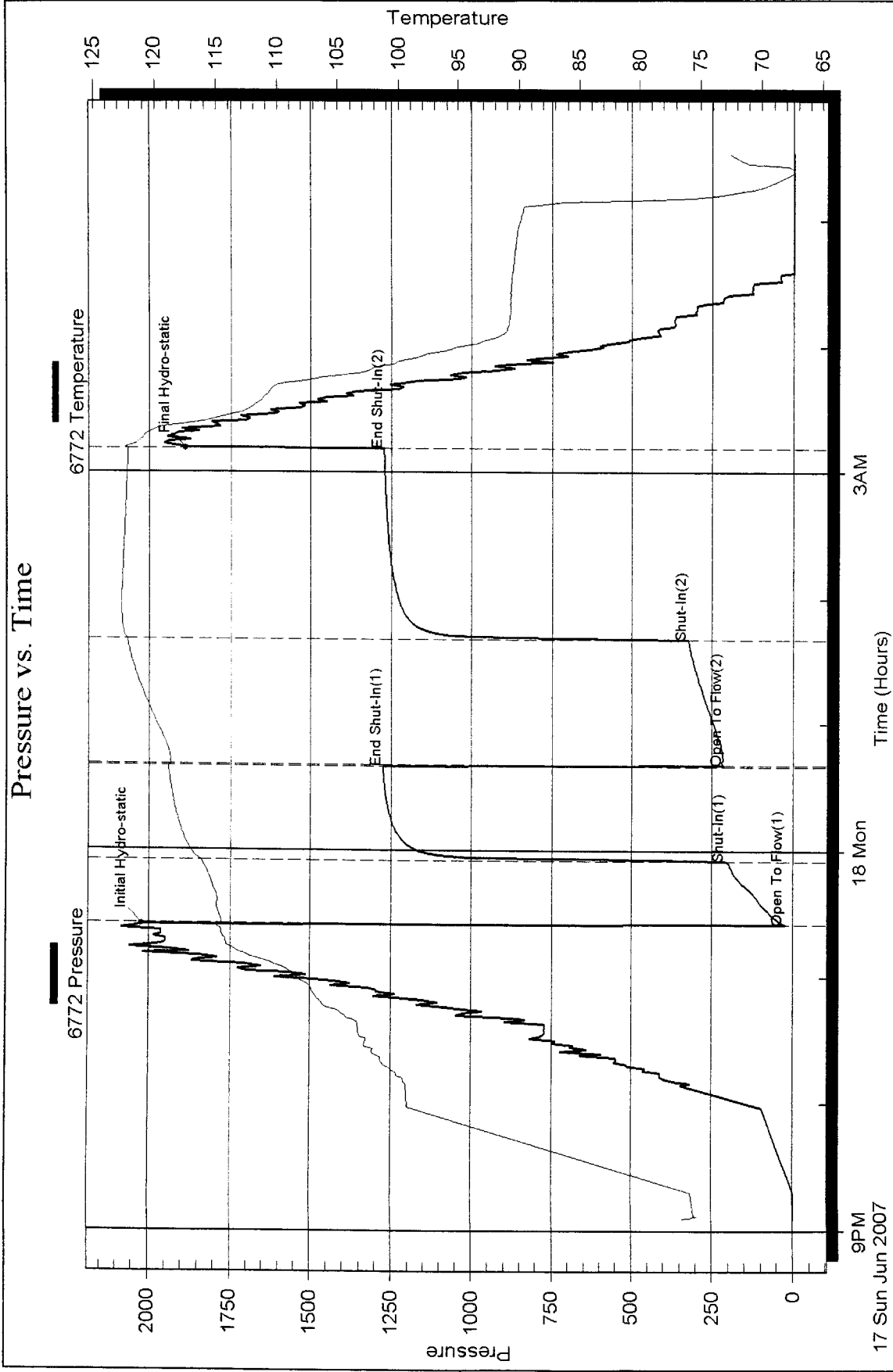
Serial #: 6772

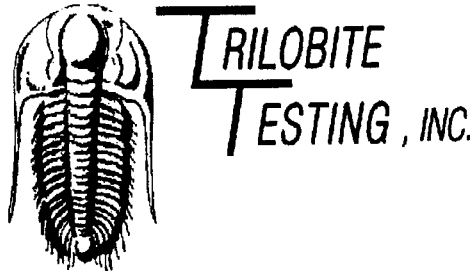
Inside

Shakespeare Oil Company

9 13 32W Logan KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 West Main St
Salem IL 62881

ATTN: Tom Funk

9 13 32W Logan KS

Frey 1-9

Start Date: 2007.06.18 @ 12:54:05

End Date: 2007.06.18 @ 16:14:15

Job Ticket #: 27689 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

Shakespeare Oil Company

202 West Main St
Salem IL 62881

ATTN: Tom Funk

Frey 1-9

9 13 32W Logan KS

Job Ticket: 27689

DST#: 2

Test Start: 2007.06.18 @ 12:54:05

GENERAL INFORMATION:

Formation: **K**

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

Time Tool Opened: 14:25:45

Time Test Ended: 16:14:15

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4203.00 ft (KB) To 4223.00 ft (KB) (TVD)**

Total Depth: **4223.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2990.00 ft (KB)**

2980.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6772 **Inside**

Press@RunDepth: **psig @ 4204.00 ft (KB)**

Start Date: **2007.06.18**

End Date:

2007.06.18

Capacity: **7000.00 psig**

Last Calib.: **2007.06.18**

Start Time: **12:54:05**

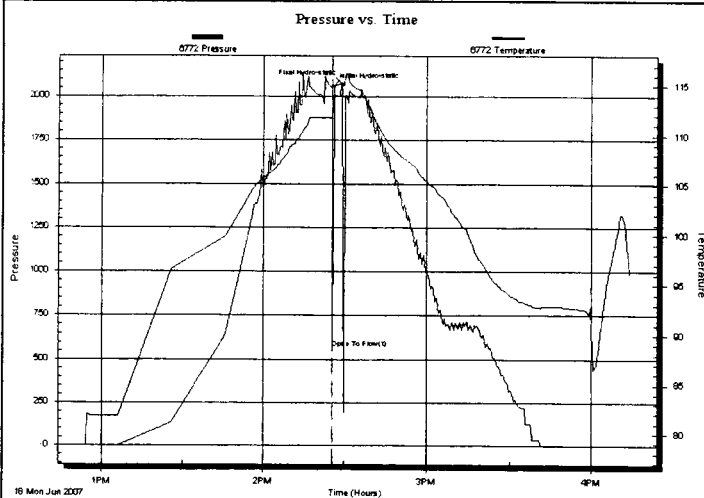
End Time:

16:14:15

Time On Btm: **2007.06.18 @ 14:25:30**

Time Off Btm: **2007.06.18 @ 14:29:15**

TEST COMMENT: Packers failed at open.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.54	111.79	Initial Hydro-static
1	563.03	111.53	Open To Flow (1)
4	2070.20	115.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	100%M	1.83

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company

Frey 1-9

202 West Main St
Salem IL 62881

9 13 32W Logan KS

Job Ticket: 27689

DST#: 2

ATTN: Tom Funk

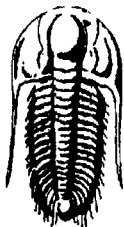
Test Start: 2007.06.18 @ 12:54:05

Tool Information

Drill Pipe:	Length: 3679.00 ft	Diameter: 3.80 inches	Volume: 51.61 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: 527.00 ft	Diameter: 2.25 inches	Volume: 2.59 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	54.20 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	90000.00 lb
Depth to Top Packer:	4203.00 ft			Final	90000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	40.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4184.00	
Shut In Tool	5.00			4189.00	
Hydraulic tool	5.00			4194.00	
Packer	5.00			4199.00	20.00 Bottom Of Top Packer
Packer	4.00			4203.00	
Stubb	1.00			4204.00	
Recorder	0.00	6772	Inside	4204.00	
Perforations	14.00			4218.00	
Recorder	0.00	7437	Outside	4218.00	
Bullnose	5.00			4223.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



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FLUID SUMMARY

Shakespeare Oil Company

Frey 1-9

202 West Main St
Salem IL 62881

9 13 32W Logan KS

Job Ticket: 27689

DST#: 2

ATTN: Tom Funk

Test Start: 2007.06.18 @ 12:54:05

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	100%M	1.829

Total Length: 372.00 ft

Total Volume: 1.829 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

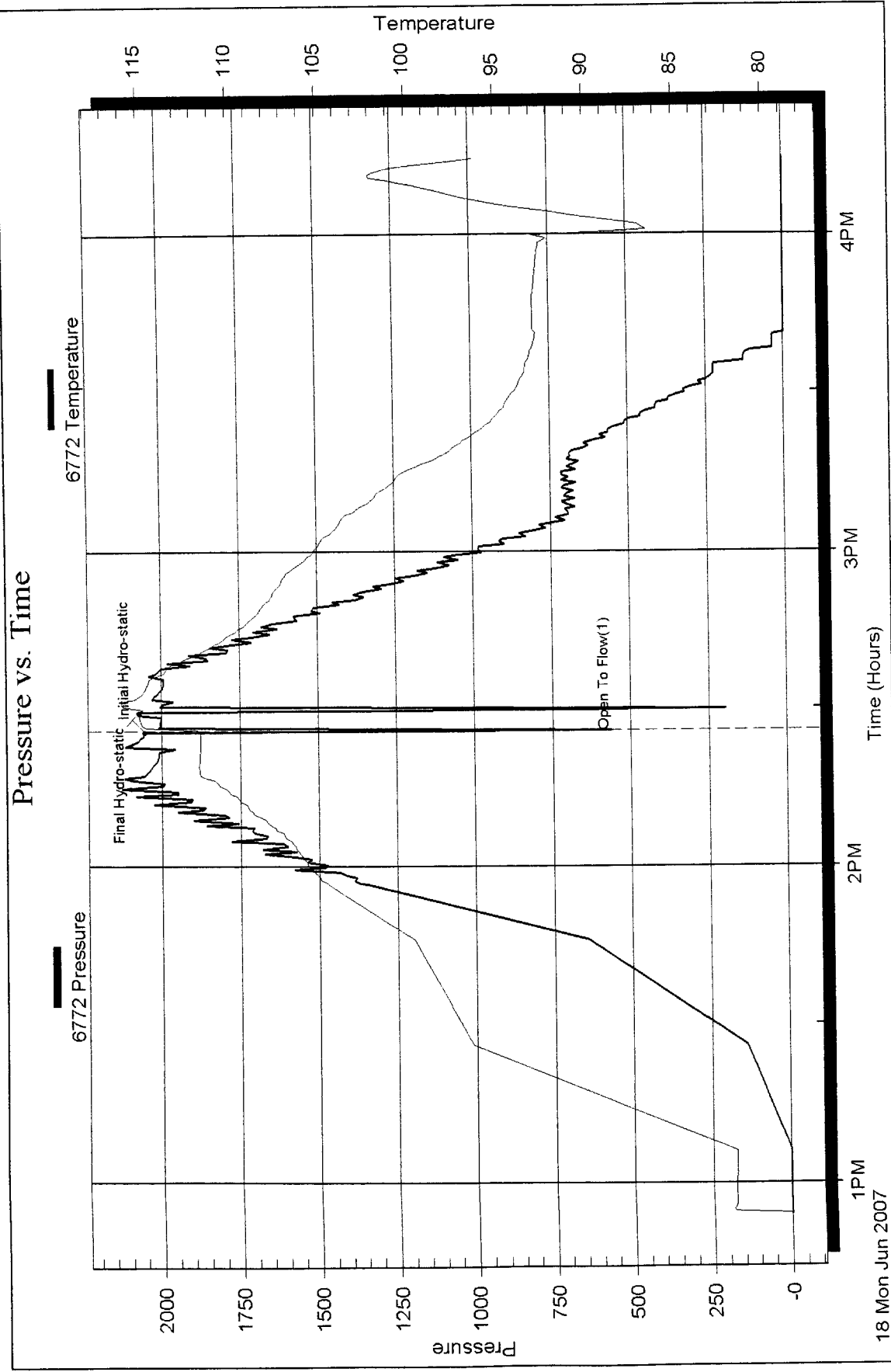
DST Test Number: 2

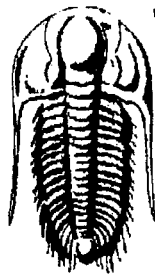
9 13 32W Logan KS

Shakespeare Oil Company

Inside

Serial #: 6772





TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 West Main St
Salem IL 62881

ATTN: Tom Funk

9 13 32W Logan KS

Frey 1-9

Start Date: 2007.06.18 @ 16:21:44

End Date: 2007.06.18 @ 23:01:53

Job Ticket #: 27690 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

Shakespeare Oil Company

202 West Main St
Salem IL 62881

ATTN: Tom Funk

Frey 1-9

9 13 32W Logan KS

Job Ticket: 27690

DST#: 3

Test Start: 2007.06.18 @ 16:21:44

GENERAL INFORMATION:

Formation: **K**

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

Time Tool Opened: 17:57:09

Time Test Ended: 23:01:53

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4196.00 ft (KB) To 4223.00 ft (KB) (TVD)**

Total Depth: **4223.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2990.00 ft (KB)**

2980.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **139.17 psig @ 4197.00 ft (KB)**

Start Date: **2007.06.18**

End Date:

2007.06.18

Capacity: **7000.00 psig**

Last Calib.: **2007.06.18**

Start Time: **16:21:44**

End Time:

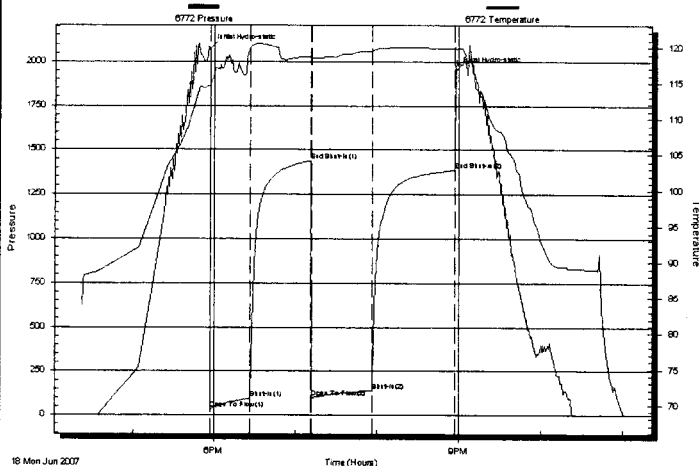
23:01:53

Time On Btm: **2007.06.18 @ 17:56:39**

Time Off Btm: **2007.06.18 @ 20:57:23**

TEST COMMENT: IF 1/4 blow built to 5 in 30 min.
IS No return
FF Surface blow built to 2 1/4 in 45 min.
FS No return

Pressure vs. Time



PRESSURE SUMMARY

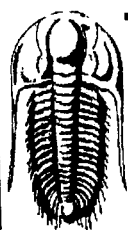
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2073.54	114.64	Initial Hydro-static
1	32.65	114.80	Open To Flow (1)
31	94.51	119.92	Shut-In (1)
75	1439.02	118.73	End Shut-In (1)
75	99.05	118.19	Open To Flow (2)
120	139.17	119.51	Shut-In (2)
181	1389.06	119.87	End Shut-In (2)
181	1947.50	120.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	WCM 5%W 95%M	0.91
93.00	Mud w/Oil spots 100%M	0.46

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company

Frey 1-9

202 West Main St
Salem IL 62881

9 13 32W Logan KS

Job Ticket: 27690

DST#: 3

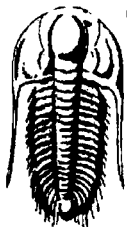
ATTN: Tom Funk

Test Start: 2007.06.18 @ 16:21:44

Tool Information

Drill Pipe:	Length: 3679.00 ft	Diameter: 3.80 inches	Volume: 51.61 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: 527.00 ft	Diameter: 2.25 inches	Volume: 2.59 bbl	Weight to Pull Loose:	10000.00 lb
			Total Volume: 54.20 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	90000.00 lb
Depth to Top Packer:	4196.00 ft			Final	90000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	47.00 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			4177.00	
Shut In Tool	5.00			4182.00	
Hydraulic tool	5.00			4187.00	
Packer	5.00			4192.00	20.00 Bottom Of Top Packer
Packer	4.00			4196.00	
Stubb	1.00			4197.00	
Recorder	0.00	6772	Inside	4197.00	
Perforations	21.00			4218.00	
Recorder	0.00	7437	Outside	4218.00	
Bullnose	5.00			4223.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

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202 West Main St
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9 13 32W Logan KS

Job Ticket: 27690

DST#: 3

ATTN: Tom Funk

Test Start: 2007.06.18 @ 16:21:44

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	WCM 5%W 95%M	0.915
93.00	Mud w/Oil spots 100%M	0.457

Total Length: 279.00 ft

Total Volume: 1.372 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

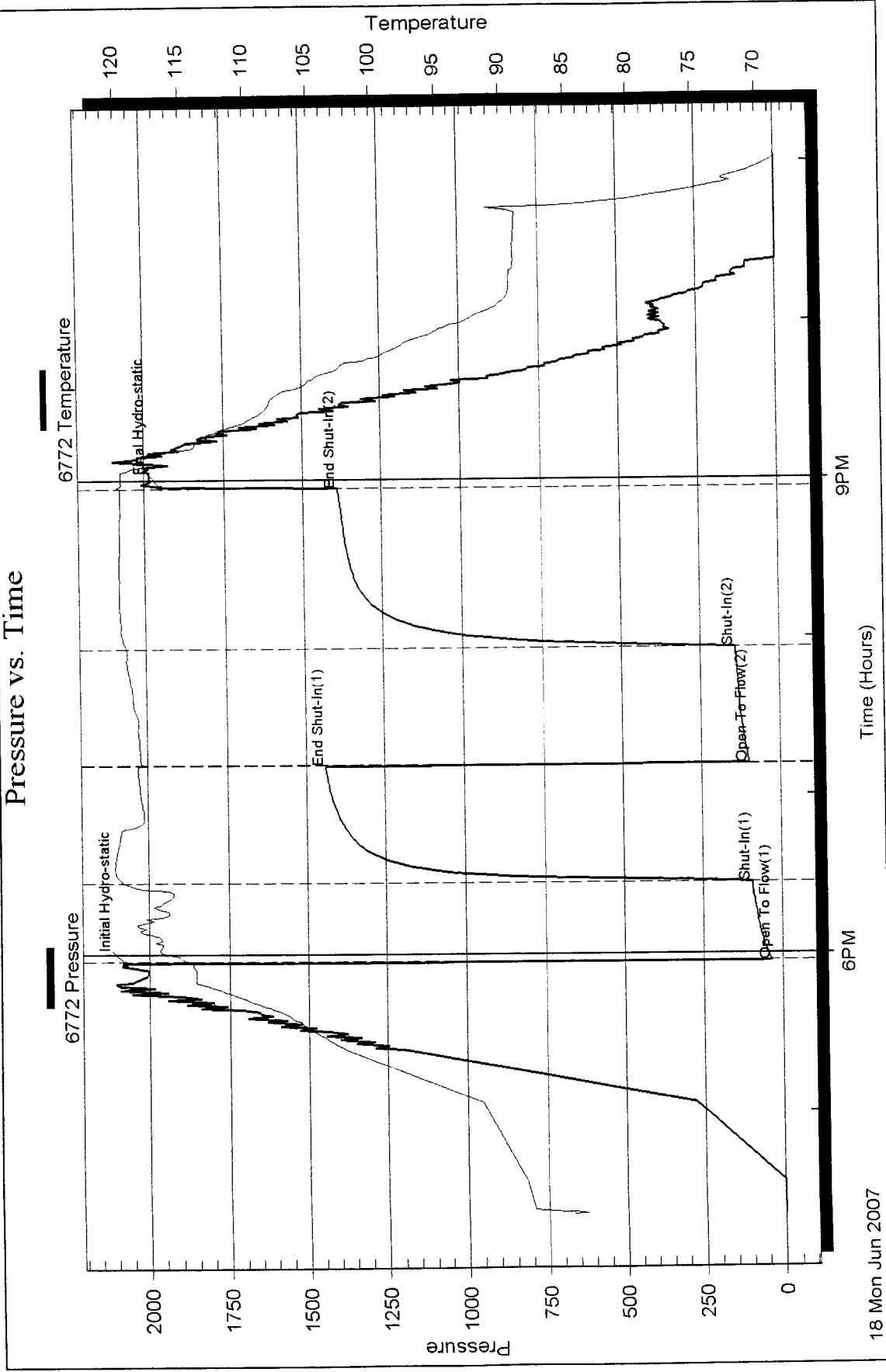
Serial #:

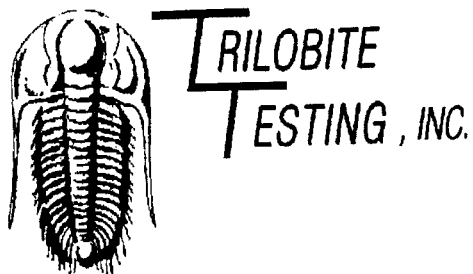
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 West Main St
Salem IL 62881

ATTN: Tom Funk

9 13 32W Logan KS

Frey 1-9

Start Date: 2007.06.20 @ 02:40:12

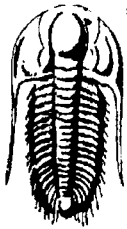
End Date: 2007.06.20 @ 08:56:36

Job Ticket #: 27691 DST #: 4

Trilobite Testing, Inc

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DRILL STEM TEST REPORT

Shakespeare Oil Company

202 West Main St
Salem IL 62881

ATTN: Tom Funk

Frey 1-9

9 13 32W Logan KS

Job Ticket: 27691

DST#: 4

Test Start: 2007.06.20 @ 02:40:12

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:00:07

Time Test Ended: 08:56:36

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4507.00 ft (KB) To 4550.00 ft (KB) (TVD)**

Total Depth: 4550.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2990.00 ft (KB)

2980.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6772 Inside

Press@RunDepth: 40.37 psig @ 4508.00 ft (KB)

Start Date: 2007.06.20

End Date:

2007.06.20

Capacity: 7000.00 psig

Last Calib.: 2007.06.20

Start Time: 02:40:12

End Time:

08:56:36

Time On Btm: 2007.06.20 @ 04:59:37

Time Off Btm: 2007.06.20 @ 07:00:36

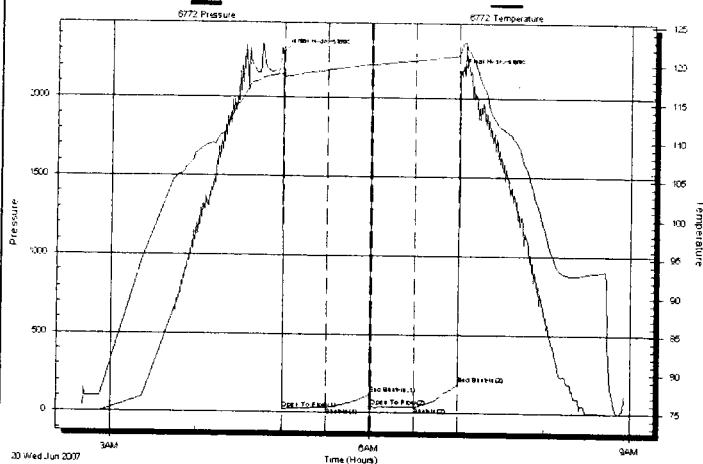
TEST COMMENT: IF Surface blow died in 11 min.

IS No return

FF No blow

FS No return

Pressure vs Time



PRESSURE SUMMARY

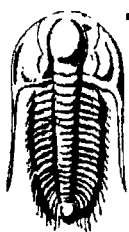
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.79	118.87	Initial Hydro-static
1	20.93	118.44	Open To Flow (1)
31	34.13	119.31	Shut-In (1)
61	118.28	120.07	End Shut-In (1)
61	38.35	120.02	Open To Flow (2)
91	40.37	120.58	Shut-In (2)
121	183.56	121.25	End Shut-In (2)
121	2168.89	121.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 5%O 95%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

Shakespeare Oil Company

Frey 1-9

202 West Main St
Salem IL 62881

9 13 32W Logan KS

Job Ticket: 27691

DST#: 4

ATTN: Tom Funk

Test Start: 2007.06.20 @ 02:40:12

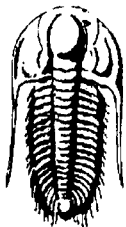
Tool Information

Drill Pipe:	Length: 3965.00 ft	Diameter: 3.80 inches	Volume: 55.62 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: 527.00 ft	Diameter: 2.25 inches	Volume: 2.59 bbl	Weight to Pull Loose:	12000.00 lb
		Total Volume:	58.21 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	90000.00 lb
Depth to Top Packer:	4507.00 ft			Final	90000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 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			4488.00	
Shut In Tool	5.00			4493.00	
Hydraulic tool	5.00			4498.00	
Packer	5.00			4503.00	20.00 Bottom Of Top Packer
Packer	4.00			4507.00	
Stubb	1.00			4508.00	
Recorder	0.00	6772	Inside	4508.00	
Perforations	3.00			4511.00	
Change Over Sub	1.00			4512.00	
Drill Pipe	32.00			4544.00	
Change Over Sub	1.00			4545.00	
Recorder	0.00	7437	Outside	4545.00	
Bullnose	5.00			4550.00	43.00 Bottom Packers & Anchor

Total Tool Length: 63.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company

Frey 1-9

202 West Main St
Salem IL 62881

9 13 32W Logan KS

Job Ticket: 27691

DST#: 4

ATTN: Tom Funk

Test Start: 2007.06.20 @ 02:40:12

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: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 5%O 95%M	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

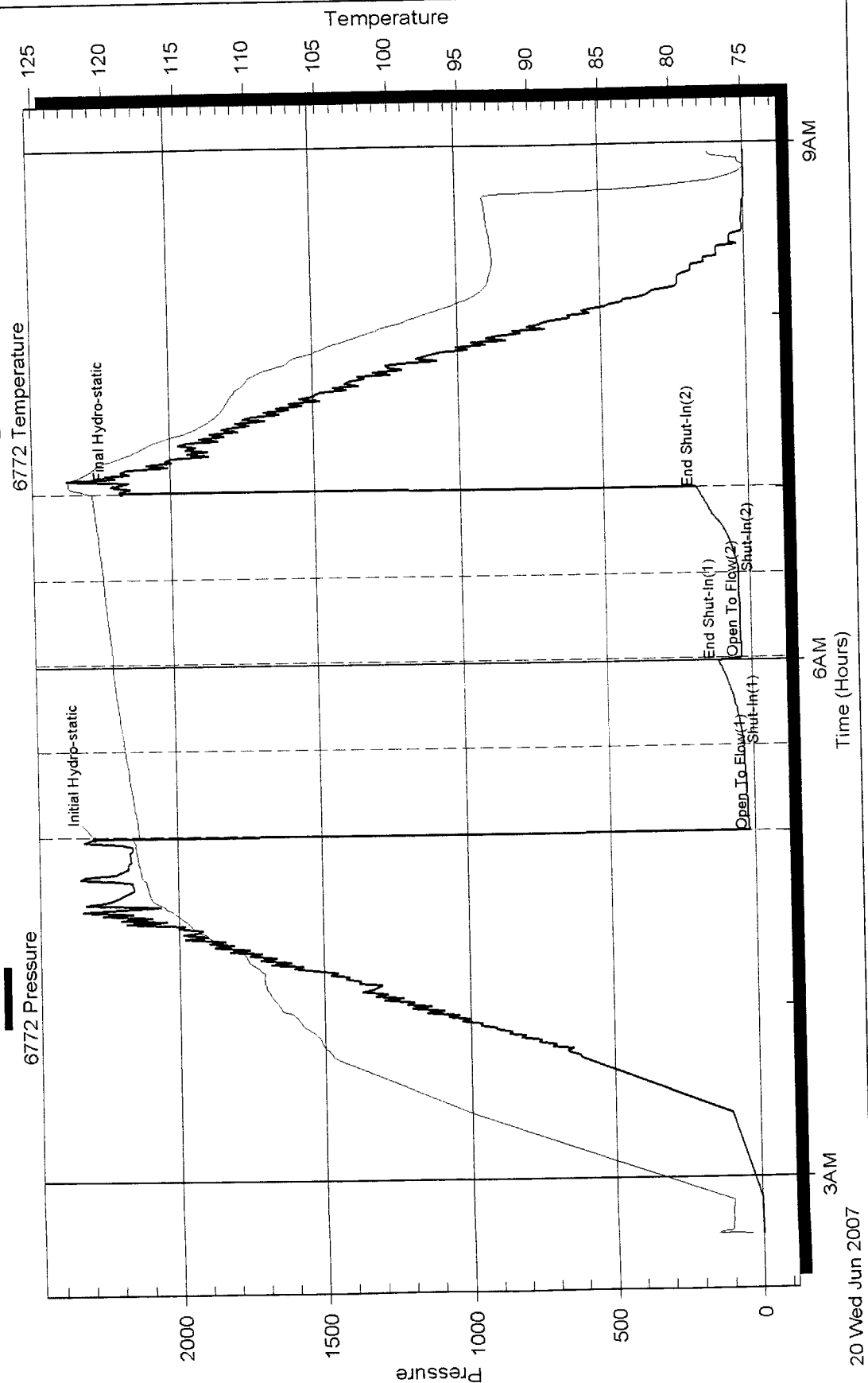
Serial #:

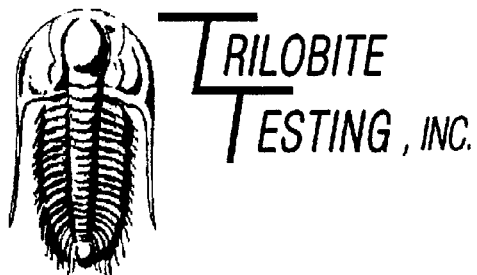
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 West Main St
Salem IL 62881

ATTN: Tom Funk

9 13 32W Logan KS

Frey 1-9

Start Date: 2007.06.20 @ 16:04:16

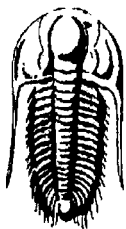
End Date: 2007.06.20 @ 21:36:10

Job Ticket #: 27692 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

Shakespeare Oil Company

202 West Main St
Salem IL 62881

ATTN: Tom Funk

Frey 1-9

9 13 32W Logan KS

Job Ticket: 27692

DST#: 5

Test Start: 2007.06.20 @ 16:04:16

GENERAL INFORMATION:

Formation: **Cherokee sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:46:26

Time Test Ended: 21:36:10

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4550.00 ft (KB) To 4573.00 ft (KB) (TVD)**

Total Depth: 4573.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2990.00 ft (KB)

2980.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6772 Inside

Press@RunDepth: 30.25 psig @ 4551.00 ft (KB)

Start Date: 2007.06.20

End Date:

2007.06.20

Start Time: 16:04:16

End Time:

21:36:10

Capacity: 7000.00 psig

Last Calib.: 2007.06.20

Time On Btm: 2007.06.20 @ 17:46:11

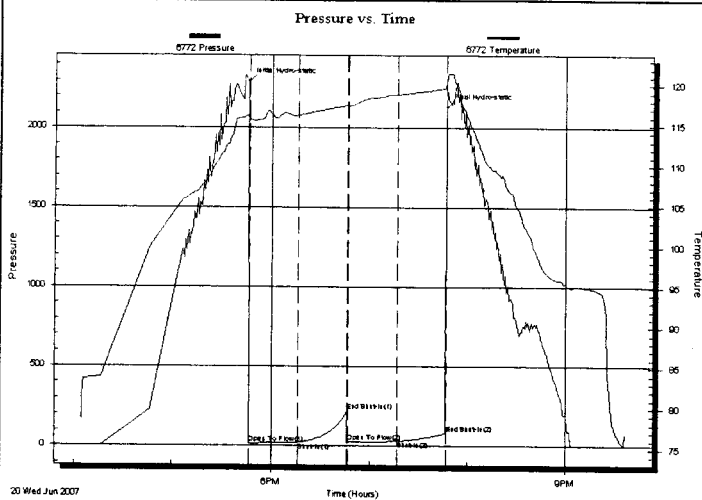
Time Off Btm: 2007.06.20 @ 19:47:26

TEST COMMENT: IF Surface blow died in 17 min.

IS No return

FF No blow

FS No return



PRESSURE SUMMARY

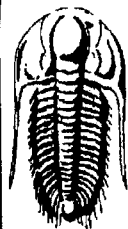
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2289.24	116.18	Initial Hydro-static
1	13.69	115.59	Open To Flow (1)
30	22.51	116.30	Shut-In(1)
60	222.98	117.56	End Shut-In(1)
61	26.24	117.51	Open To Flow (2)
91	30.25	118.83	Shut-In(2)
121	82.47	119.70	End Shut-In(2)
122	2130.50	120.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud Oil spots 100%M	0.15

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company

Frey 1-9

202 West Main St
Salem IL 62881

9 13 32W Logan KS

Job Ticket: 27692

DST#: 5

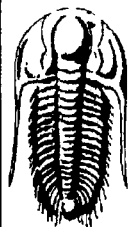
ATTN: Tom Funk

Test Start: 2007.06.20 @ 16:04:16

Tool Information

Drill Pipe:	Length: 4028.00 ft	Diameter: 3.80 inches	Volume: 56.50 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: 527.00 ft	Diameter: 2.25 inches	Volume: 2.59 bbl	Weight to Pull Loose:	120000.0 lb
		Total Volume:	59.09 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	90000.00 lb
Depth to Top Packer:	4550.00 ft			Final	90000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 ft				
Tool Length:	43.00 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			4531.00	
Shut In Tool	5.00			4536.00	
Hydraulic tool	5.00			4541.00	
Packer	5.00			4546.00	20.00 Bottom Of Top Packer
Packer	4.00			4550.00	
Stubb	1.00			4551.00	
Recorder	0.00	6772	Inside	4551.00	
Perforations	17.00			4568.00	
Recorder	0.00	7437	Outside	4568.00	
Bullnose	5.00			4573.00	23.00 Bottom Packers & Anchor
Total Tool Length:		43.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company

Frey 1-9

202 West Main St
Salem IL 62881

9 13 32W Logan KS

Job Ticket: 27692

DST#: 5

ATTN: Tom Funk

Test Start: 2007.06.20 @ 16:04:16

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud Oil spots 100%M	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

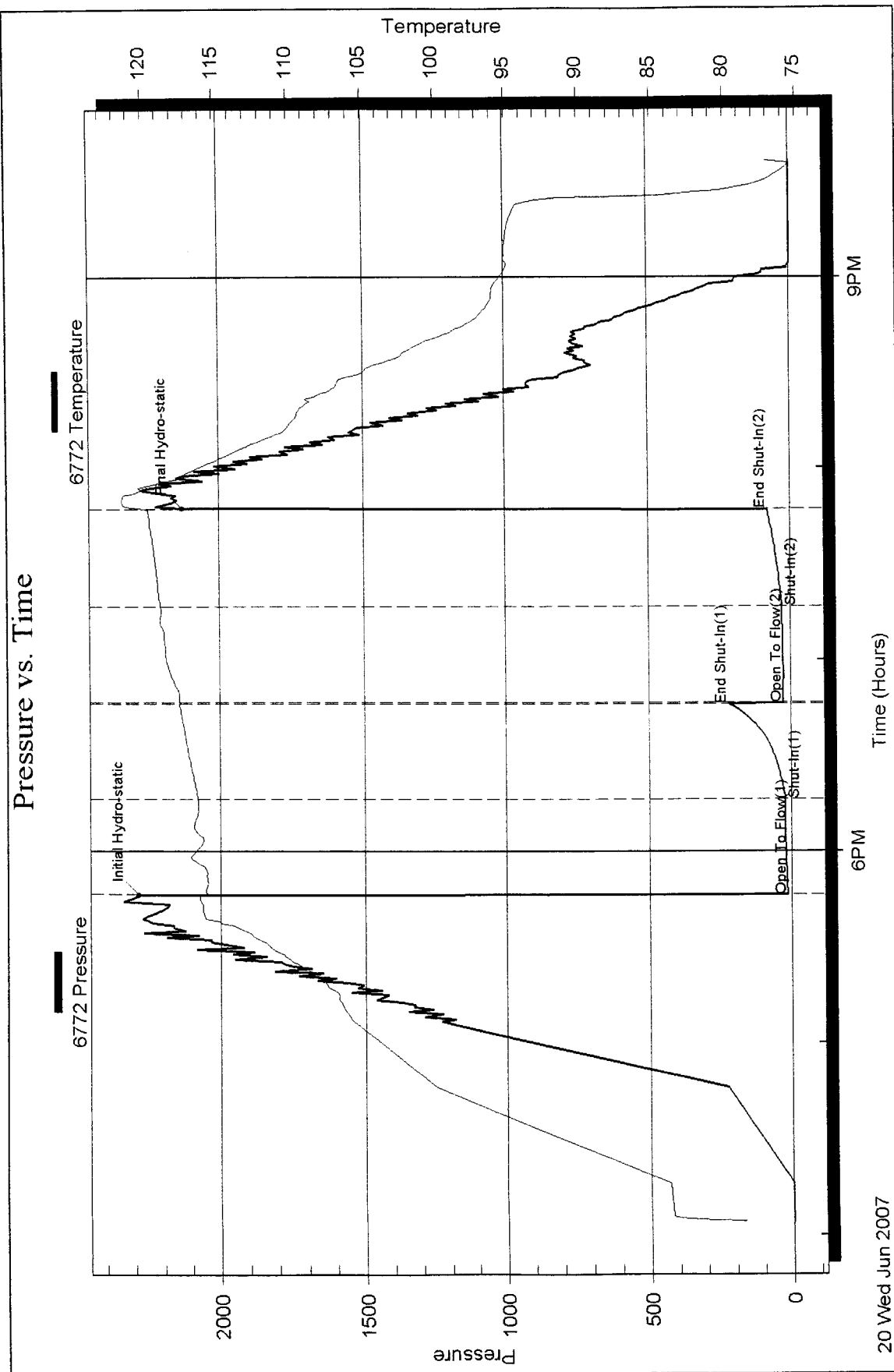
Num Gas Bombs: 0

Serial #:

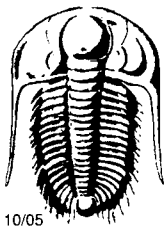
Laboratory Name:

Laboratory Location:

Recovery Comments:



20 Wed Jun 2007



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27688

10291

Test Ticket

Well Name & No. Frey 1-9 Test No. 1 Date 6-17-07
 Company Shakespere oil company Zone Tested I-J
 Address 202 West Main Street, Salem, FL 62881 Elevation 2990 KB 2980 GL
 Co. Rep / Geo. Tom Funk Rig Muffin 14
 Location: Sec. 9 Twp. 13S Rge. 32W Co. Logan State KS
 Comment: _____ Release date / time: _____

Interval Tested 4153 4200 Initial Str Wt./Lbs. 90,000 Unseated Str Wt./Lbs. 93,000
 Anchor Length 47 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 120,000
 Top Packer Depth 4148 Tool Weight 1500
 Bottom Packer Depth 4153 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4200 Wt. Pipe Run — Drill Collar Run 527
 Mud Wt. 8.9 LCM 1 Vis. 54 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3615
 Blow Description IF: Bob in 8 min.

IS: Surface blow built to 3 in 45 min.
FF: Bob in 8 min.
FS: Surface blow built to 9 in 90 min.

Recovery - Total Feet 806 GIP 868 Ft. in DC 527 Ft. in DP 279
 Rec. 341 Feet of 90 30 %gas 70 %oil %water %mud
 Rec. 279 Feet of mc90 40 %gas 30 %oil %water 30 %mud
 Rec. 186 Feet of gwlcm Trace of oil 5 %gas %oil 45 %water 50 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 122 °F Gravity 38 °API D @ 70 °F Corrected Gravity 37 °API
 RW .15 @ 70 °F Chlorides 51000 ppm Recovery 51000 Chlorides 2300 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2082	PSI	Recorder No.	6772	Test	1200.00
(B) First Initial Flow Pressure			25	PSI	(depth)	4154	Jars	
(C) First Final Flow Pressure			208	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			1274	PSI	(depth)	4199	Circ Sub	X N/C
(E) Second Initial Flow Pressure			215	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			323	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			1270	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			1994	PSI	Initial Shut-In	45	Shale Packer	

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Approved By [Signature]
 Our Representative [Signature]

Final Flow 60
 Final Shut-In 90
 T-On Location 19:20
 T-Started 21:05
 T-Open 23:24 5.75
 T-Pulled 3:09
 T-Out 5:35
 Mileage 84-105.00
 Sub Total: 1305
 Std. By X .25 25
 Acc. Chg: [Signature]
 Other: _____
 Total: _____

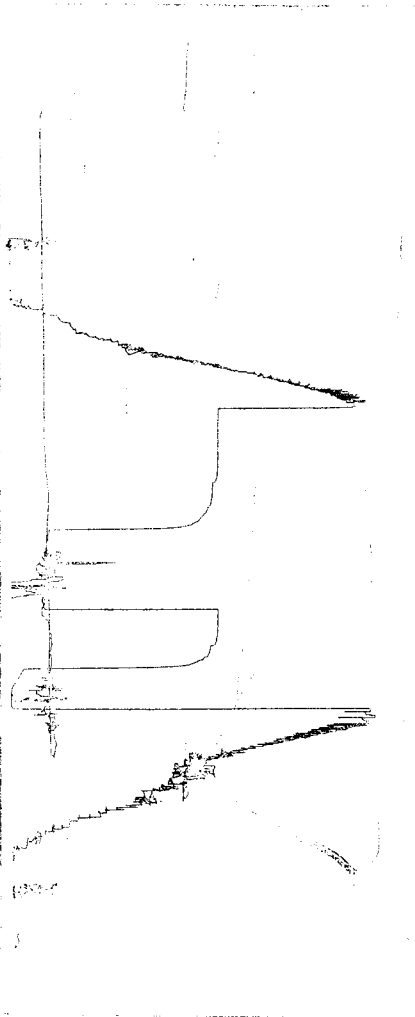
5.50

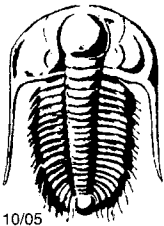
CHART PAGE

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

7437
#1

Shakespear oil company
Frey 1-9





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27689

Test Ticket

Well Name & No.	Frey 1-9	Test No.	2	Date	6-18-07
Company	Shakespeare Oil Company	Zone Tested	K		
Address	202 West Main St, Salem, IL 62881	Elevation	2990	KB	2980 GL
Co. Rep / Geo.	Tom Funk	Rig	Murfin 14		
Location: Sec.	9	Twp.	135	Rge.	32 W
		Co.	Logan	State	KS
Comment:	Release date / time:				

Interval Tested	4203	4223	Initial Str Wt./Lbs.	90,000	Unseated Str Wt./Lbs.	90,000
Anchor Length		20	Wt. Set Lbs.	39,000	Wt. Pulled Loose/Lbs.	90,000
Top Packer Depth		4198	Tool Weight	1500		
Bottom Packer Depth		4203	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4223	Wt. Pipe Run	—	Drill Collar Run	527
Mud Wt.	8.8	LCM 1	Vis. 55	WL 8.0	Drill Pipe Size	4 1/2 x H
Blow Description	Packers Failed & open.					

Recovery - Total Feet	372	GIP	—	Ft. in DC	372	Ft. in DP	—
Rec.	372	Feet of	Mud	%gas	%oil	%water	100 %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	111	°F Gravity	—	*API D @	—	*F Corrected Gravity	—
RW	—	@	—	*F	Chlorides	ppm Recovery	—
					Chlorides	2500	ppm System

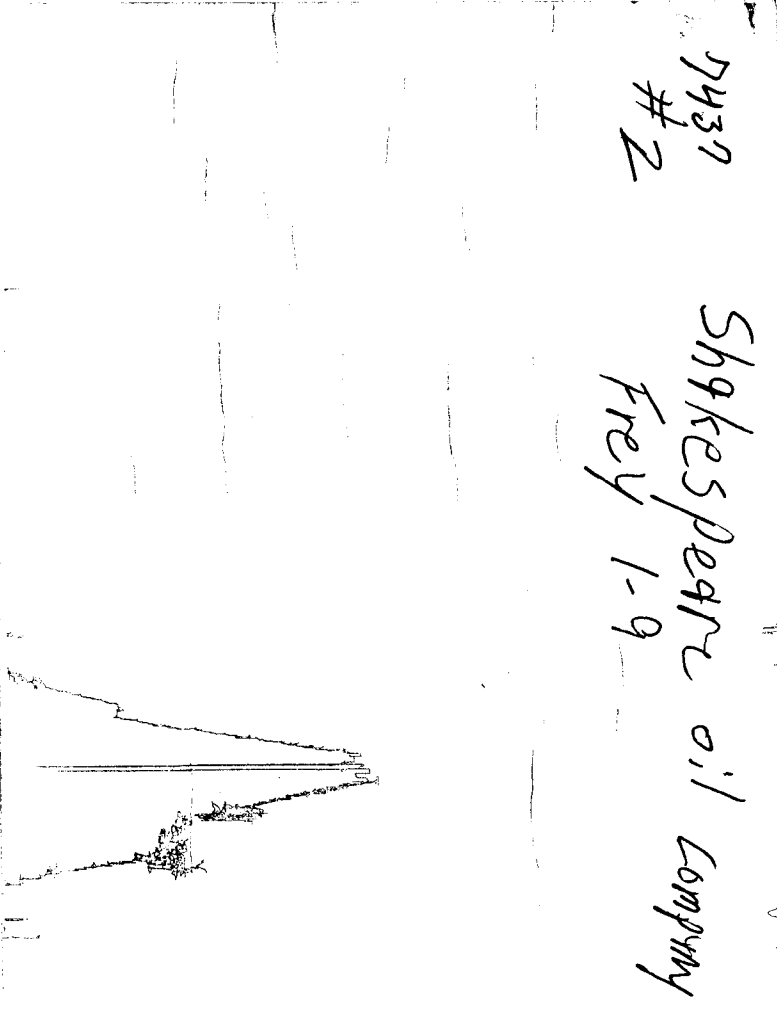
(A) Initial Hydrostatic Mud	AK-1	Alpine	2052	PSI	Recorder No.	6772	Test	x 1000.00
(B) First Initial Flow Pressure			563	PSI	(depth)	4204	Jars	
(C) First Final Flow Pressure				PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure				PSI	(depth)	4222	Circ Sub	x N/L
(E) Second Initial Flow Pressure				PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure				PSI	(depth)		Straddle	
(G) Final Shut-In Pressure				PSI	Initial Opening	—	Ext. Packer	
(Q) Final Hydrostatic Mud			2086	PSI	Initial Shut-In	—	Shale Packer	
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED 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.					Final Flow	—	Ruined Packer	
					Final Shut-In	✓	Mileage	84-105.00
					T-On Location	12:20	Sub Total:	1705
					T-Started	12:54	Std. By	
					T-Open	14:26	Acc. Chg:	
					T-Pulled	14:35	Other:	
					T-Out	16:15	Total:	
Approved By								
Our Representative								

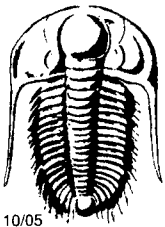
CHART PAGE

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

7437
#2

Shakespeare oil Company
Frey 1-9





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27690

10/05

Test Ticket

Well Name & No.	<u>Frey 1-9</u>	Test No.	<u>3</u>	Date	<u>6-18-07</u>
Company	<u>Shakespeare oil company</u>	Zone Tested	<u>K</u>		
Address	<u>202 West Main St. Salem, IL 62881</u>	Elevation	<u>2990</u>	KB	<u>2980</u> GL
Co. Rep / Geo.	<u>Tom Funk</u>	Rig	<u>Murfin 14</u>		
Location: Sec.	<u>9</u>	Twp.	<u>13S</u>	Rge.	<u>32W</u>
		Co.	<u>Logan</u>	State	<u>KS</u>
Comment:	Release date / time:				

Interval Tested	<u>4196</u>	<u>4223</u>	Initial Str Wt./Lbs.	<u>90,000</u>	Unseated Str Wt./Lbs.	<u>90,000</u>
Anchor Length		<u>4191</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>10000</u>
Top Packer Depth		<u>27</u>	Tool Weight	<u>1500</u>		
Bottom Packer Depth		<u>4196</u>	Hole Size 7 7/8"	☒	Rubber Size 6 3/4"	☒
Total Depth		<u>4223</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>527</u>
Mud Wt.	<u>8.8</u> LCM <u>1</u> Vis. <u>55</u> WL <u>8.0</u>		Drill Pipe Size	<u>4 1/2 X 4</u>	Ft. Run	<u>3679</u>
Blow Description	<u>IF: 1/4 blow built to 5 in 30 min.</u>					

IS: No return.

FF: Surface blow built to

FS: No return.

Recovery - Total Feet	<u>279</u>	GIP	<u>—</u>	Ft. in DC	<u>279</u>	Ft. in DP	<u>—</u>
Rec.	<u>93</u>	Feet of	<u>mud oil spots</u>	%gas		%oil	
Rec.	<u>186</u>	Feet of	<u>wcm</u>	%gas		%oil	<u>5</u>
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
BHT	<u>119</u>	°F Gravity	<u>—</u>	*API D @	<u>—</u>	*F Corrected Gravity	<u>—</u>
RW	<u>—</u>	@	<u>—</u>	*F Chlorides	<u>—</u>	ppm Recovery	<u>—</u>
				Chlorides	<u>2500</u>	ppm System	

(A) Initial Hydrostatic Mud	AK-1	Alpine	<u>2130</u> PSI	Recorder No.	<u>6772</u>	Test x	<u>1200,00</u>
(B) First Initial Flow Pressure			<u>32</u> PSI	(depth)	<u>4197</u>	Jars	
(C) First Final Flow Pressure			<u>94</u> PSI	Recorder No.	<u>5437</u>	Safety Jt.	
(D) Initial Shut-In Pressure			<u>1439</u> PSI	(depth)	<u>4222</u>	Circ Sub x	<u>N/C</u>
(E) Second Initial Flow Pressure			<u>99</u> PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			<u>139</u> PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			<u>1389</u> PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud			<u>2010</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer	

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Approved By

Our Representative

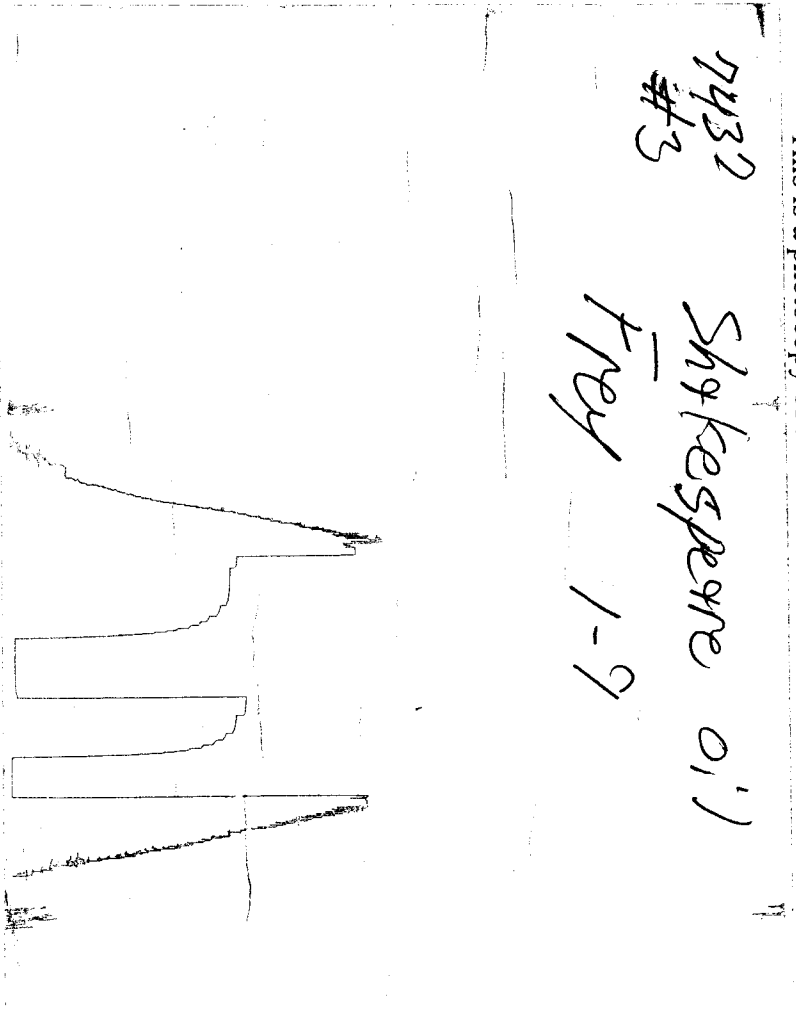
Final Flow		Mileage	<u>—</u>
Final Shut-In		Sub Total:	<u>1200</u>
T-On Location	<u>16:15</u>	Std. By	
T-Started	<u>16:21</u>	Acc. Chg:	
T-Open	<u>17:56</u>	Other:	
T-Pulled	<u>20:56</u>	Total:	
T-Out	<u>23:00</u>		

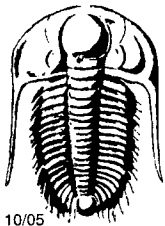
CHART PAGE

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

7432
#3

Shakespeare 011
Trey 1-9





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27691

Test Ticket

Well Name & No.	<u>Frey 1-9</u>	Test No.	<u>4</u>	Date	<u>6-20-07</u>
Company	<u>Shakespeare oil Company</u>	Zone Tested	<u>Johnson</u>		
Address	<u>202 West Main St. Salem, FL 62881</u>	Elevation	<u>2990</u>	KB	<u>2980</u>
Co. Rep / Geo.	<u>Tom Funk</u>	Rig	<u>Murfin 14</u>		
Location: Sec.	<u>9</u>	Twp.	<u>13S</u>	Rge.	<u>32W</u>
		Co.	<u>Logan</u>	State	<u>KS</u>
Comment:	Release date / time: _____				

Interval Tested	<u>4507</u>	<u>4550</u>	Initial Str Wt./Lbs.	<u>90,000</u>	Unseated Str Wt./Lbs.	<u>90,000</u>
Anchor Length		<u>43</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>120,000</u>
Top Packer Depth		<u>4502</u>	Tool Weight	<u>1500</u>		
Bottom Packer Depth		<u>4507</u>	Hole Size 7 7/8"	<u>✓</u>	Rubber Size 6 3/4"	<u>✓</u>
Total Depth		<u>4550</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>527</u>
Mud Wt.	<u>9.1</u>	LCM <u>1</u>	Vis. <u>63</u>	WL <u>8.8</u>	Drill Pipe Size	<u>4 1/2 X 4</u>
Blow Description	<u>IF: Surface blow died in 11 min.</u>					
	<u>IS: No return.</u>					
	<u>FF: No blow.</u>					
	<u>FS: No return.</u>					

Recovery - Total Feet	<u>30</u>	GIP	<u>—</u>	Ft. in DC	<u>30</u>	Ft. in DP	<u>—</u>
Rec.	<u>30</u>	Feet of	<u>OCM</u>	%gas	<u>5</u>	%oil	<u>95</u>
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
BHT	<u>121</u>	*F Gravity	<u>—</u>	*API D @	<u>—</u>	*F Corrected Gravity	<u>—</u>
RW	<u>—</u>	@	<u>—</u>	*F Chlorides	<u>—</u>	ppm Recovery	<u>—</u>
				Chlorides	<u>4100</u>	ppm System	

(A) Initial Hydrostatic Mud	<u>2339</u>	PSI	Recorder No.	<u>6772</u>	Test	<u>1200.00</u>
(B) First Initial Flow Pressure	<u>20</u>	PSI	(depth)	<u>4508</u>	Jars	
(C) First Final Flow Pressure	<u>34</u>	PSI	Recorder No.	<u>7437</u>	Safety Jt.	
(D) Initial Shut-In Pressure	<u>118</u>	PSI	(depth)	<u>4549</u>	Circ Sub	<u>X N/C</u>
(E) Second Initial Flow Pressure	<u>38</u>	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	<u>40</u>	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	<u>183</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>2213</u>	PSI	Initial Shut-In	<u>30</u>	Shale Packer	
			Final Flow	<u>30</u>	Ruined Packer	
			Final Shut-In	<u>30</u>	Mileage	<u>84-105.00</u>
			T-On Location	<u>2:20</u>	Sub Total:	<u>1305</u>
			T-Started	<u>2:40</u>	Std. By	
			T-Open	<u>5:00</u>	Acc. Chg:	
			T-Pulled	<u>7:00</u>	Other:	
			T-Out	<u>9:00</u>	Total:	

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Approved By [Signature]

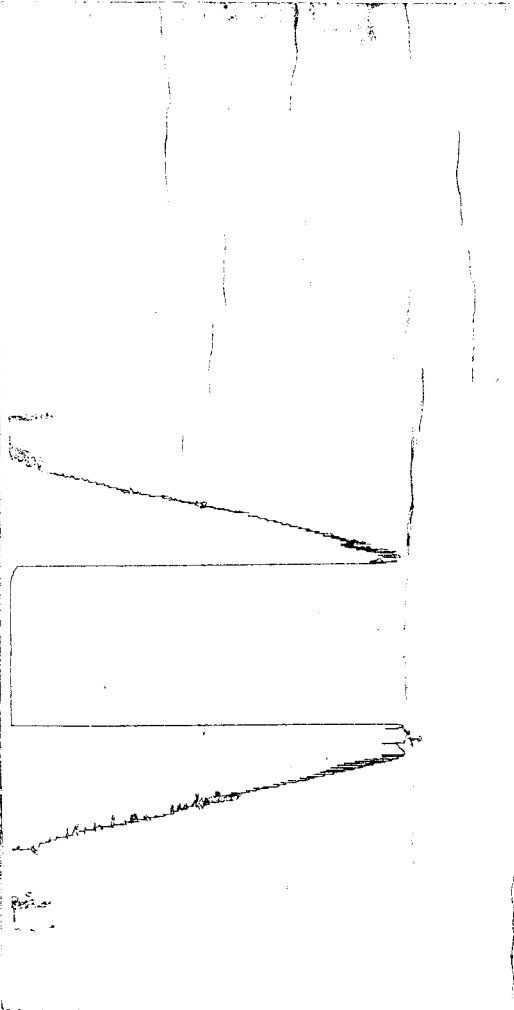
Our Representative [Signature]

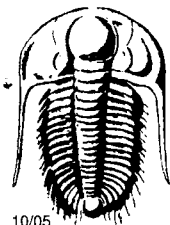
CHART PAGE

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

74317
#4

Shakespeare Oil
Frey 1-9





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27692

Test Ticket

Well Name & No. <u>Frey 1-9</u>	Test No. <u>5</u>	Date <u>6-20-07</u>
Company <u>Shake Speare oil company</u>	Zone Tested <u>Cherokee-Snd</u>	
Address <u>202 West main st. Salem, IL 62881</u>	Elevation <u>2990</u> KB <u>2980</u> GL	
Co. Rep / Geo. <u>Tom Funk</u>	Rig <u>Martin 14</u>	
Location: Sec. <u>9</u> Twp. <u>13S</u> Rge. <u>32W</u>	Co. <u>Logan</u> State <u>IL</u>	
Comment: _____		Release date / time: _____

Interval Tested <u>4550</u>	<u>4573</u>	Initial Str Wt./Lbs. <u>90,000</u>	Unseated Str Wt./Lbs. <u>90,000</u>
Anchor Length _____	<u>23</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>120,000</u>
Top Packer Depth _____	<u>4545</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth _____	<u>4550</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth _____	<u>4573</u>	Wt. Pipe Run _____	Drill Collar Run <u>527</u>
Mud Wt. <u>9.4</u> LCM <u>1</u> Vis. <u>56</u> WL <u>9.6</u>		Drill Pipe Size <u>4 1/2 x H</u>	Ft. Run <u>4028</u>
Blow Description <u>IF: surface blow died in 17 min.</u>			
<u>IS: No return.</u>			
<u>FF: No blow.</u>			
<u>FS: No return.</u>			

Recovery - Total Feet <u>30</u>	GIP <u>—</u>	Ft. in DC <u>30</u>	Ft. in DP <u>—</u>
Rec. <u>30</u>	Feet of <u>mud oil spots</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>119</u>	°F Gravity <u>—</u>	°API D @ <u>—</u>	°F Corrected Gravity <u>—</u>
RW <u>—</u>	@ <u>—</u>	°F Chlorides <u>—</u> ppm Recovery <u>—</u>	Chlorides <u>4400</u> ppm System

(A) Initial Hydrostatic Mud <u>2361</u> PSI	Recorder No. <u>6772</u>	Test <u>x 1200.00</u>
(B) First Initial Flow Pressure <u>13</u> PSI	(depth) <u>4551</u>	Jars _____
(C) First Final Flow Pressure <u>22</u> PSI	Recorder No. <u>7437</u>	Safety Jt. _____
(D) Initial Shut-In Pressure <u>222</u> PSI	(depth) <u>4572</u>	Circ Sub <u>x N/L</u>
(E) Second Initial Flow Pressure <u>26</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure <u>30</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure <u>82</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud <u>2225</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
	Final Flow <u>30</u>	Ruined Packer _____
	Final Shut-In <u>30</u>	Mileage <u>84-105.00</u>
	T-On Location <u>15:40</u>	Sub Total: _____
	T-Started <u>16:04</u>	Std. By <u>1305</u>
	T-Open <u>17:46</u>	Acc. Chg: _____
	T-Pulled <u>19:46</u>	Other: _____
	T-Out <u>21:40</u>	Total: _____

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Approved By [Signature]
Our Representative [Signature]

CHART PAGE

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

7437
#5
Shakespeare 011

Frey 1-9

