

DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 West Main St.
Salem, IL 62881

ATTN: Rick Hall

2-13s-32w

Irwin- Heirs 1-2

Start Date: 2005.08.08 @ 02:33:03

End Date: 2005.08.08 @ 09:40:57

Job Ticket #: 21296 DST #: 1

Shakespeare Oil Company

Irwin- Heirs 1-2

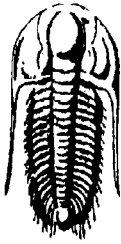
2-13s-32w

DST # 1

Lansing H-1

2005.08.08

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

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21296

DST#: 1

ATTN: Rick Hall

Test Start: 2005.08.08 @ 02:33:03

GENERAL INFORMATION:

Formation: **Lansing H-I**

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

Time Tool Opened: 05:07:58

Time Test Ended: 09:40:57

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **18**

Interval: **4195.00 ft (KB) To 4244.00 ft (KB) (TVD)**

Reference Elevations: **3029.00 ft (KB)**

Total Depth: **4244.00 ft (KB) (TVD)**

3020.00 ft (CF)

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

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

Serial #: 6772

Inside

Press@RunDepth: **52.88 psig @ 4200.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.08.08** End Date: **2005.08.08**

Last Calib.: **1899.12.30**

Start Time: **02:33:03** End Time: **09:40:57**

Time On Btm: **2005.08.08 @ 05:05:43**

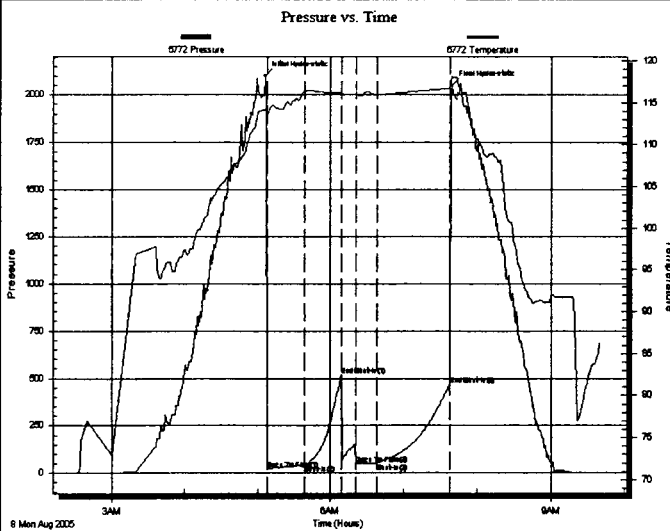
Time Off Btm: **2005.08.08 @ 07:39:12**

TEST COMMENT: **F: Surface blow built to 1 1/4 in 30 min.**

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

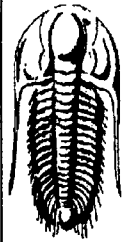
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2100.11	114.20	Initial Hydro-static
3	19.30	113.60	Open To Flow (1)
33	46.28	116.29	Shut-In(1)
64	516.72	116.20	End Shut-In(1)
76	48.04	115.91	Open To Flow (2)
93	52.88	115.90	Shut-In(2)
152	464.31	116.74	End Shut-In(2)
154	2051.79	118.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	gocm 10%g 10%o 80%m	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21296

DST#: 1

ATTN: Rick Hall

Test Start: 2005.08.08 @ 02:33:03

Tool Information

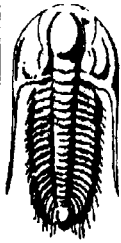
Drill Pipe:	Length: 3615.00 ft	Diameter: 3.80 inches	Volume: 50.71 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 568.00 ft	Diameter: 2.25 inches	Volume: 2.79 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 53.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4195.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	77.00 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			4172.00	
Shut In Tool	5.00			4177.00	
Hydraulic tool	5.00			4182.00	
Jars	5.00			4187.00	
Safety Joint	3.00			4190.00	
Packer	5.00		Fluid	4195.00	24.00 Bottom Of Top Packer
Packer - Shale	4.00			4199.00	
Stubb	1.00			4200.00	
Recorder	0.00	6772	Inside	4200.00	
Perforations	10.00			4210.00	
Change Over Sub	1.00			4211.00	
Drill Pipe	31.00			4242.00	
Change Over Sub	1.00			4243.00	
Recorder	0.00	7437	Inside	4243.00	
Bullnose	5.00			4248.00	53.00 Anchor Tool

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21296

DST#: 1

ATTN: Rick Hall

Test Start: 2005.08.08 @ 02:33:03

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	gocm 10%g 10%o 80%m	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

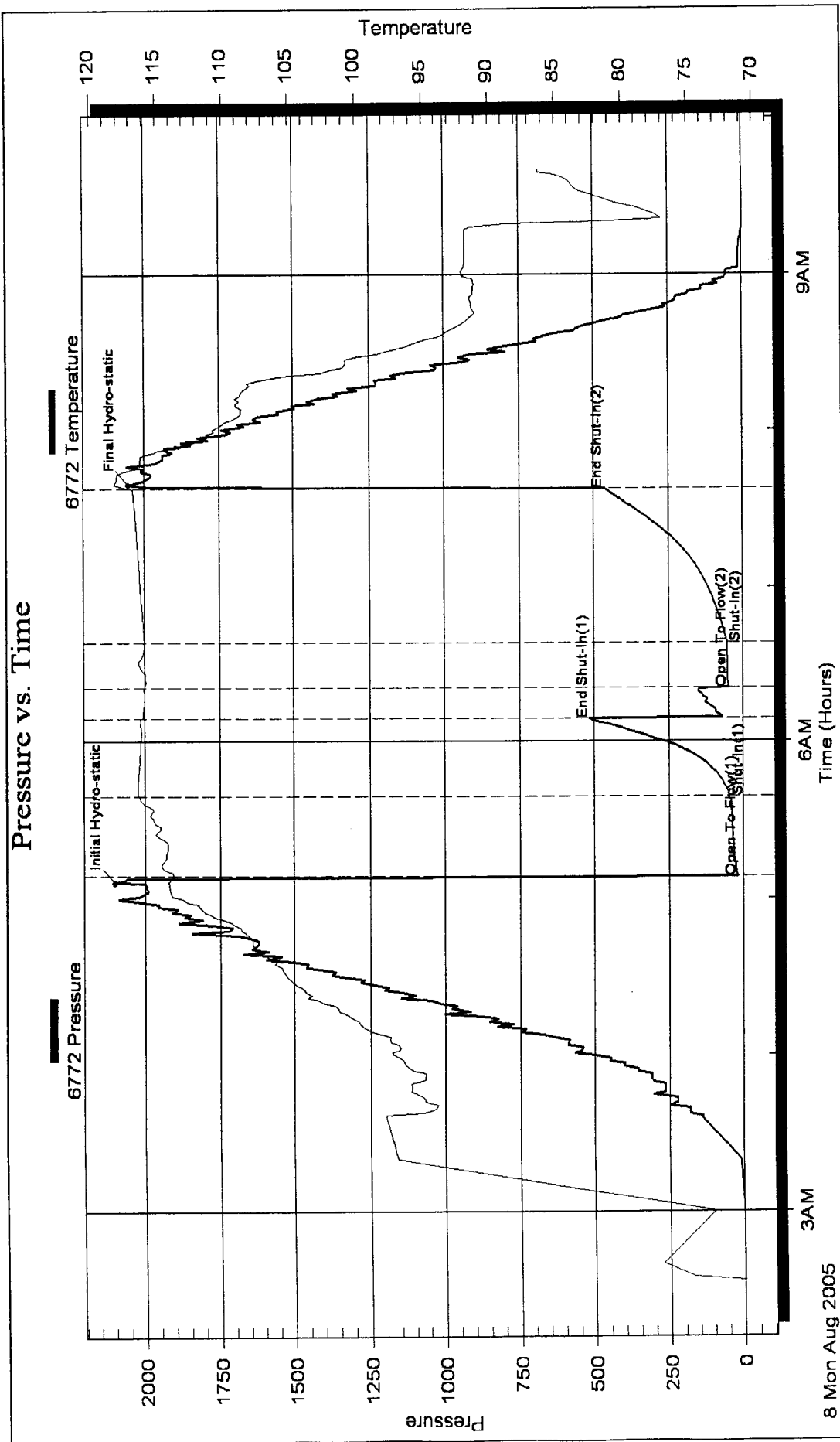
Serial #:

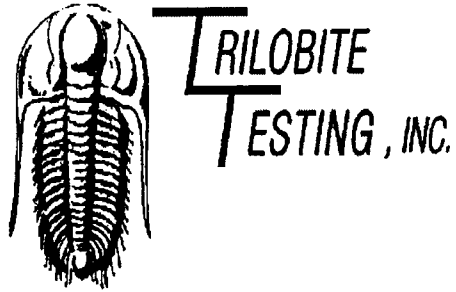
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 West Main St.
Salem, IL 62881

ATTN: Rick Hall

2-13s-32w

Irwin- Heirs 1-2

Start Date: 2005.08.08 @ 16:29:03

End Date: 2005.08.08 @ 21:43:12

Job Ticket #: 21297 DST #: 2

Shakespeare Oil Company

Irwin- Heirs 1-2

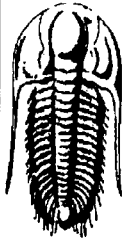
2-13s-32w

DST # 2

LKC-J

2005.08.08

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Company

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21297

DST#: 2

ATTN: Rick Hall

Test Start: 2005.08.08 @ 16:29:03

GENERAL INFORMATION:

Formation: **LKC- J**

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

Time Tool Opened: 18:09:13

Time Test Ended: 21:43:12

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **18**

Interval: **4244.00 ft (KB) To 4266.00 ft (KB) (TVD)**

Total Depth: **4266.00 ft (KB) (TVD)**

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

Reference Elevations: **3029.00 ft (KB)**

3020.00 ft (CF)

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

Serial #: 6772 Inside

Press@RunDepth: **18.06 psig @ 4249.00 ft (KB)**

Start Date: **2005.08.08**

End Date: **2005.08.08**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Start Time: **16:29:03**

End Time: **21:43:12**

Time On Btm: **2005.08.08 @ 18:06:58**

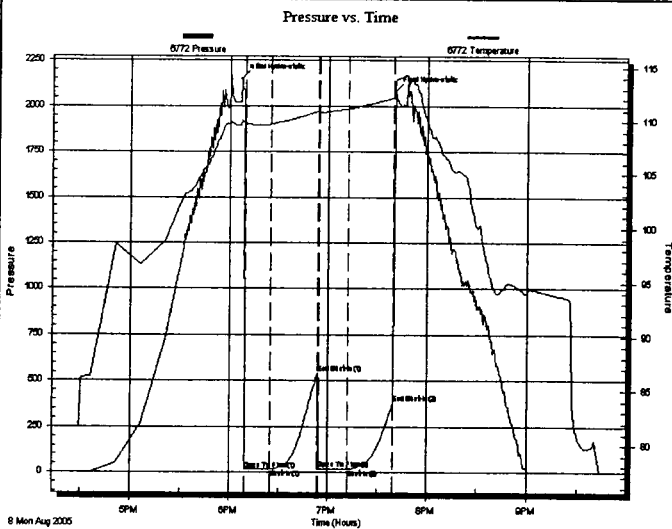
Time Off Btm: **2005.08.08 @ 19:40:13**

TEST COMMENT: **IF: Weak surface blow died in 3 min.**

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

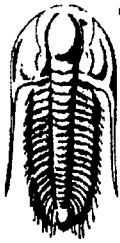
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.74	110.11	Initial Hydro-static
3	15.94	109.12	Open To Flow (1)
18	17.14	109.69	Shut-In(1)
47	542.91	110.86	End Shut-In(1)
48	16.42	110.65	Open To Flow (2)
66	18.06	111.10	Shut-In(2)
93	375.81	112.11	End Shut-In(2)
94	2081.85	113.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% m	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21297

DST#: 2

ATTN: Rick Hall

Test Start: 2005.08.08 @ 16:29:03

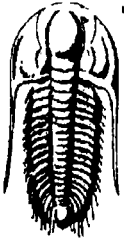
Tool Information

Drill Pipe:	Length: 3676.00 ft	Diameter: 3.80 inches	Volume: 51.56 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: 25000.00 lb
Drill Collar:	Length: 568.00 ft	Diameter: 2.25 inches	Volume: 2.79 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 54.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4244.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	50.00 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			4221.00	
Shut In Tool	5.00			4226.00	
Hydraulic tool	5.00			4231.00	
Jars	5.00			4236.00	
Safety Joint	3.00			4239.00	
Packer	5.00		Fluid	4244.00	24.00 Bottom Of Top Packer
Packer - Shale	4.00			4248.00	
Stubb	1.00			4249.00	
Recorder	0.00	6772	Inside	4249.00	
Perforations	16.00			4265.00	
Recorder	0.00	7437	Inside	4265.00	
Bullnose	5.00			4270.00	26.00 Anchor Tool

Total Tool Length: 50.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21297

DST#: 2

ATTN: Rick Hall

Test Start: 2005.08.08 @ 16:29:03

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.66 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

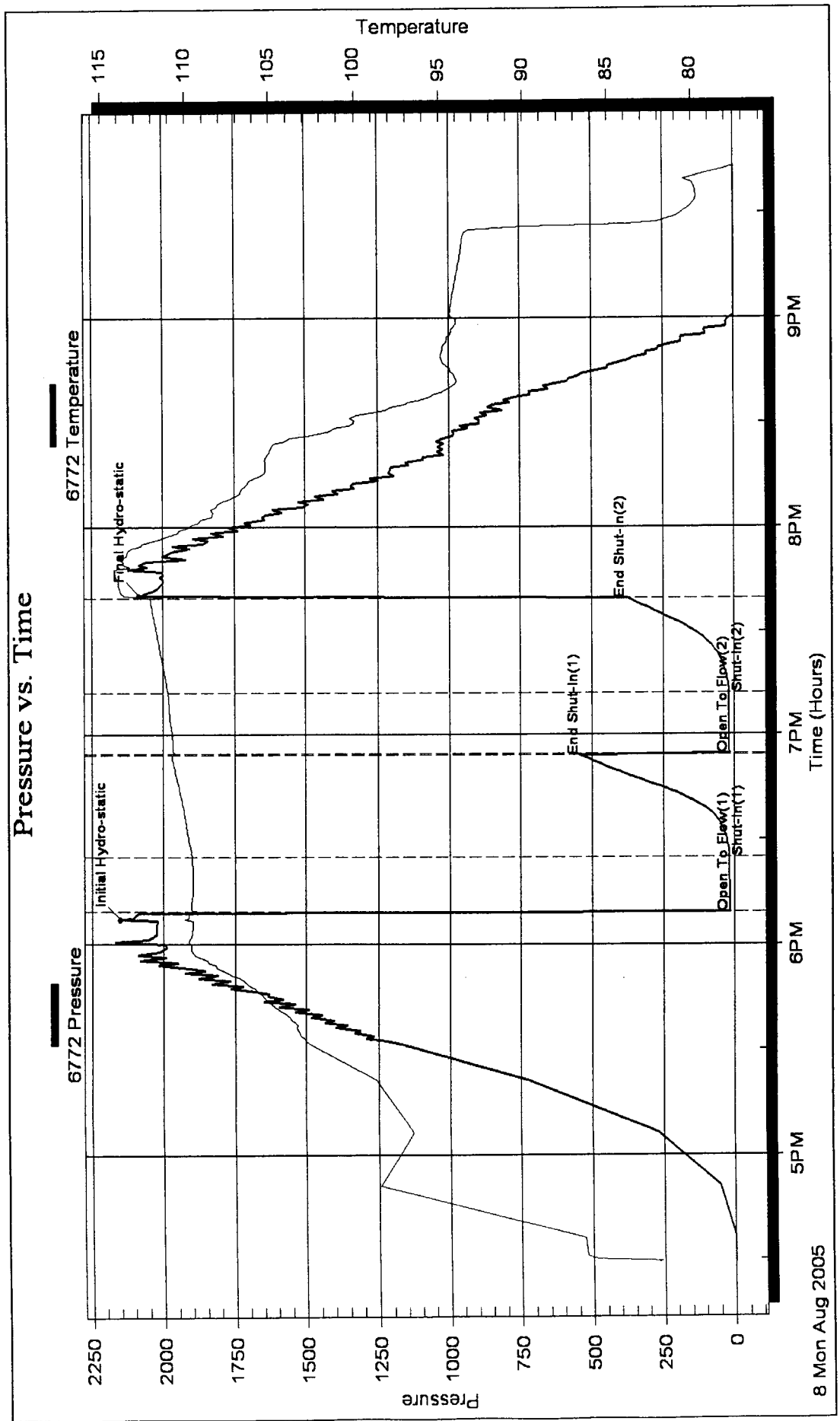
Num Gas Bombs: 0

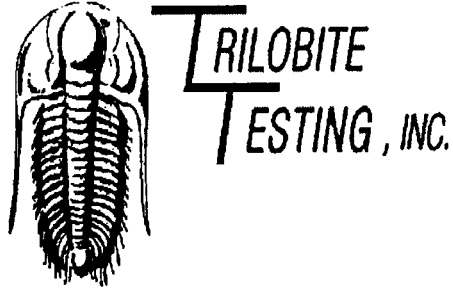
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 West Main St.
Salem, IL 62881

ATTN: Rick Hall

2-13s-32w

Irwin- Heirs 1-2

Start Date: 2005.08.09 @ 04:55:15

End Date: 2005.08.09 @ 12:02:39

Job Ticket #: 21298 DST #: 3

Shakespeare Oil Company

Irwin- Heirs 1-2

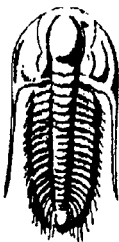
2-13s-32w

DST # 3

LKC-K

2005.08.09

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

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

ATTN: Rick Hall

Job Ticket: 21298

DST#: 3

Test Start: 2005.08.09 @ 04:55:15

GENERAL INFORMATION:

Formation: **LKC- K**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 07:02:25
 Time Test Ended: 12:02:39

Test Type: **Conventional Bottom Hole**
 Tester: **Brandon Turley**
 Unit No: **18**

Interval: **4271.00 ft (KB) To 4303.00 ft (KB) (TVD)**
 Total Depth: **4303.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

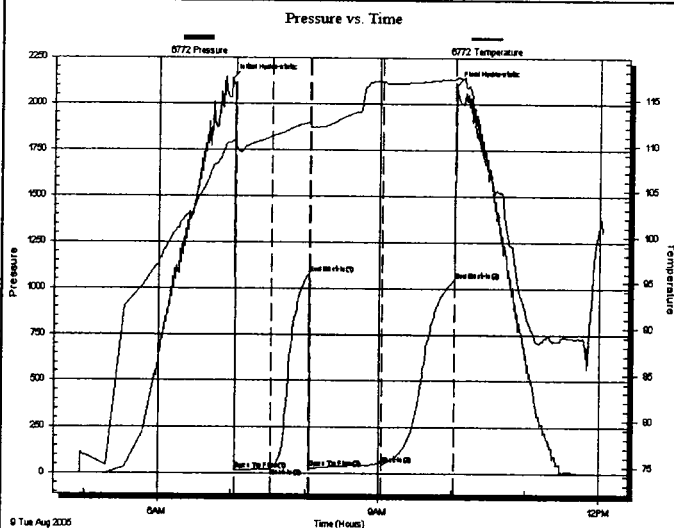
Reference Elevations: **3029.00 ft (KB)**
3020.00 ft (CF)
 KB to GR/CF: **9.00 ft**

Serial #: 6772 Inside

Press@RunDepth: **49.56 psig @ 4276.00 ft (KB)**
 Start Date: **2005.08.09** End Date: **2005.08.09**
 Start Time: **04:55:15** End Time: **12:02:39**

Capacity: **7000.00 psig**
 Last Calib.: **1899.12.30**
 Time On Btm: **2005.08.09 @ 06:59:40**
 Time Off Btm: **2005.08.09 @ 10:02:39**

TEST COMMENT: F: Surface blow built to 1 1/2 in 30 min.
 IS: No return.
 FF: Surface blow built to 3/4 in 60 min.
 FS: No return.



PRESSURE SUMMARY

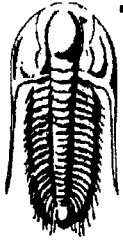
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.59	110.45	Initial Hydro-static
3	16.64	110.00	Open To Flow (1)
33	26.82	111.04	Shut-in(1)
63	1079.07	112.56	End Shut-in(1)
64	31.09	112.00	Open To Flow (2)
123	49.56	117.00	Shut-in(2)
183	1045.54	117.32	End Shut-in(2)
183	2102.20	117.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	ocm 10%o 90% m	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21298

DST#: 3

ATTN: Rick Hall

Test Start: 2005.08.09 @ 04:55:15

Tool Information

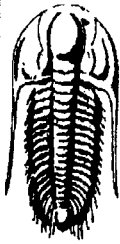
Drill Pipe:	Length: 3708.00 ft	Diameter: 3.80 inches	Volume: 52.01 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 568.00 ft	Diameter: 2.25 inches	Volume: 2.79 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 54.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4271.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	60.00 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			4248.00	
Shut In Tool	5.00			4253.00	
Hydraulic tool	5.00			4258.00	
Jars	5.00			4263.00	
Safety Joint	3.00			4266.00	
Packer	5.00		Fluid	4271.00	24.00 Bottom Of Top Packer
Packer - Shale	4.00			4275.00	
Stubb	1.00			4276.00	
Recorder	0.00	6772	Inside	4276.00	
Perforations	26.00			4302.00	
Recorder	0.00	7437	Inside	4302.00	
Bullnose	5.00			4307.00	36.00 Anchor Tool

Total Tool Length: 60.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21298

DST#: 3

ATTN: Rick Hall

Test Start: 2005.08.09 @ 04:55:15

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.68 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	ocm 10%o 90%m	0.197

Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

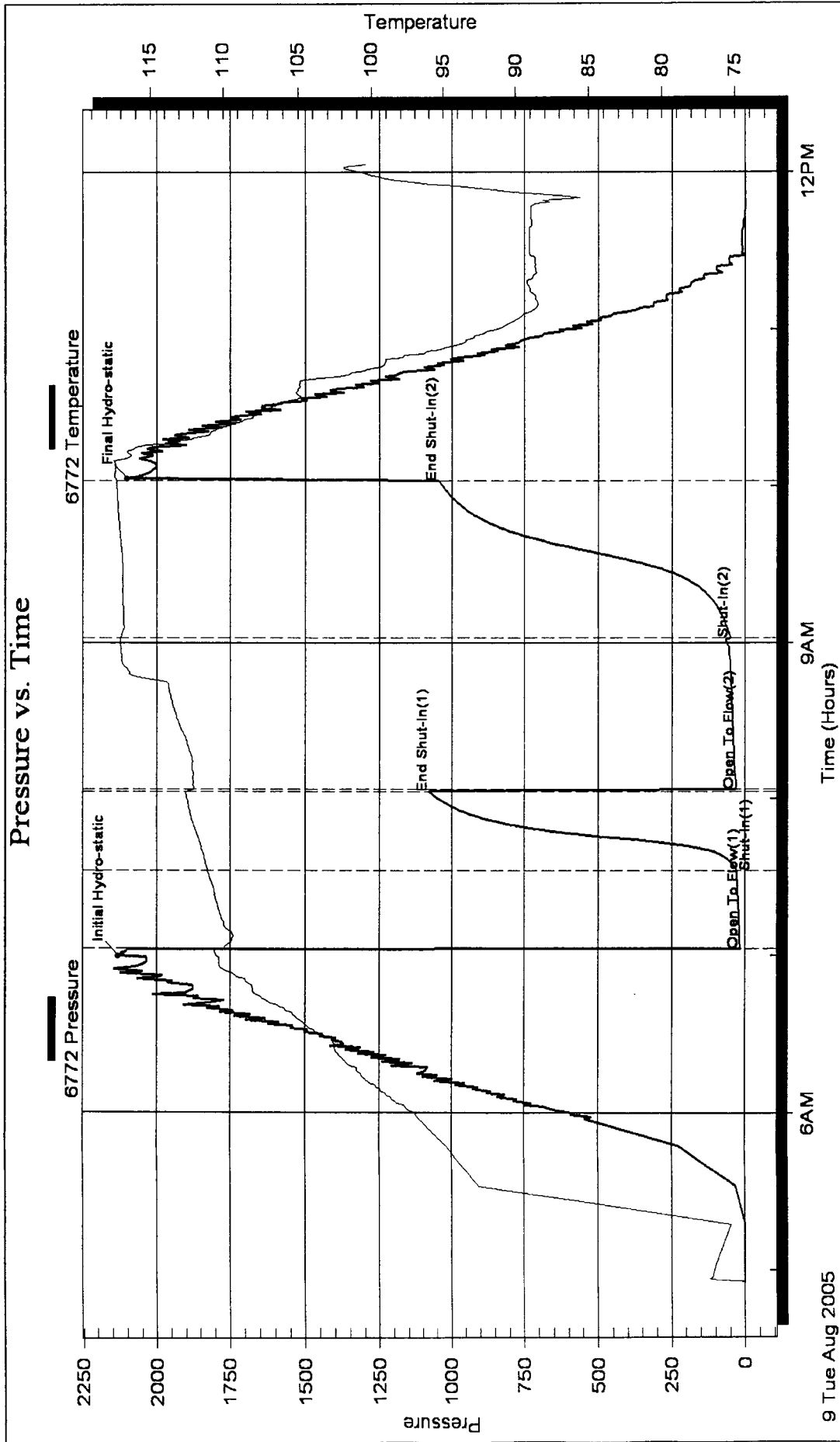
Serial #:

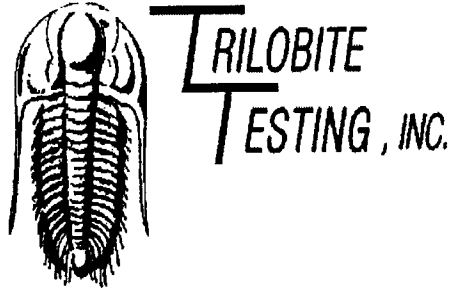
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company**

202 West Main St.
Salem, IL 62881

ATTN: Rick Hall

2-13s-32w

Irwin- Heirs 1-2

Start Date: 2005.08.10 @ 12:23:00

End Date: 2005.08.10 @ 21:52:25

Job Ticket #: 21299 DST #: 4

Shakespeare Oil Company

Irwin-Heirs 1-2

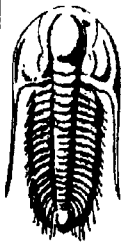
2-13s-32w

DST # 4

Cherokee-Johnson

2005.08.10

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

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21299

DST#: 4

ATTN: Rick Hall

Test Start: 2005.08.10 @ 12:23:00

GENERAL INFORMATION:

Formation: **Cherokee- Johnson**

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

Time Tool Opened: 14:42:10

Time Test Ended: 21:52:25

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **18**

Interval: **4556.00 ft (KB) To 4605.00 ft (KB) (TVD)**

Total Depth: **4605.00 ft (KB) (TVD)**

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

Reference Elevations: **3029.00 ft (KB)**

3020.00 ft (CF)

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

Serial #: 6772 Inside

Press@RunDepth: **538.46 psig @ 4561.00 ft (KB)**

Start Date: **2005.08.10**

End Date: **2005.08.10**

Start Time: **12:23:00**

End Time: **21:52:25**

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2005.08.10 @ 14:38:55**

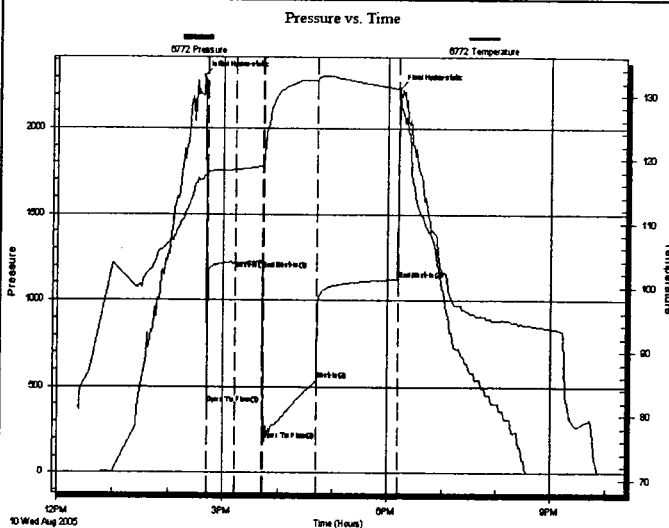
Time Off Btm: **2005.08.10 @ 18:12:24**

TEST COMMENT: **IF: 1/4 blow built to 1/2 died in 16 min.**

IS: No return.

FF: 1/4 blow BOB in 5 min.

FS: Surface blow BOB in 14 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.48	117.31	Initial Hydro-static
4	396.69	117.25	Open To Flow (1)
34	1177.76	118.38	Shut-In (1)
64	1226.95	118.96	End Shut-In (1)
64	189.09	118.80	Open To Flow (2)
123	538.46	132.36	Shut-In (2)
213	1123.64	131.12	End Shut-In (2)
214	2234.64	130.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
312.00	go 20%g 80%o	1.53
470.00	go 30%g 70%o	4.26
250.00	mcgo 20%g 70%o 10%m	3.51
536.00	mcgo 20%g 60%o 20%m	7.52

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21299

DST#: 4

ATTN: Rick Hall

Test Start: 2005.08.10 @ 12:23:00

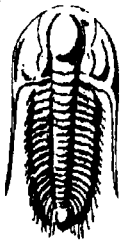
Tool Information

Drill Pipe:	Length: 3988.00 ft	Diameter: 3.80 inches	Volume: 55.94 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: 25000.00 lb
Drill Collar:	Length: 568.00 ft	Diameter: 2.25 inches	Volume: 2.79 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4556.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	77.00 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			4533.00	
Shut In Tool	5.00			4538.00	
Hydraulic tool	5.00			4543.00	
Jars	5.00			4548.00	
Safety Joint	3.00			4551.00	
Packer	5.00		Fluid	4556.00	24.00 Bottom Of Top Packer
Packer - Shale	4.00			4560.00	
Stubb	1.00			4561.00	
Recorder	0.00	6772	Inside	4561.00	
Perforations	10.00			4571.00	
Change Over Sub	1.00			4572.00	
Drill Pipe	31.00			4603.00	
Change Over Sub	1.00			4604.00	
Recorder	0.00	7437	Inside	4604.00	
Bullnose	5.00			4609.00	53.00 Anchor Tool

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company

Irwin- Heirs 1-2

202 West Main St.
Salem, IL 62881

2-13s-32w

Job Ticket: 21299

DST#: 4

ATTN: Rick Hall

Test Start: 2005.08.10 @ 12:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 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
312.00	go 20%g 80%o	1.534
470.00	go 30%g 70%o	4.261
250.00	mcgo 20%g 70%o 10%m	3.507
536.00	mcgo 20%g 60%o 20%m	7.519

Total Length: 1568.00 ft

Total Volume: 16.821 bbl

Num Fluid Samples: 0

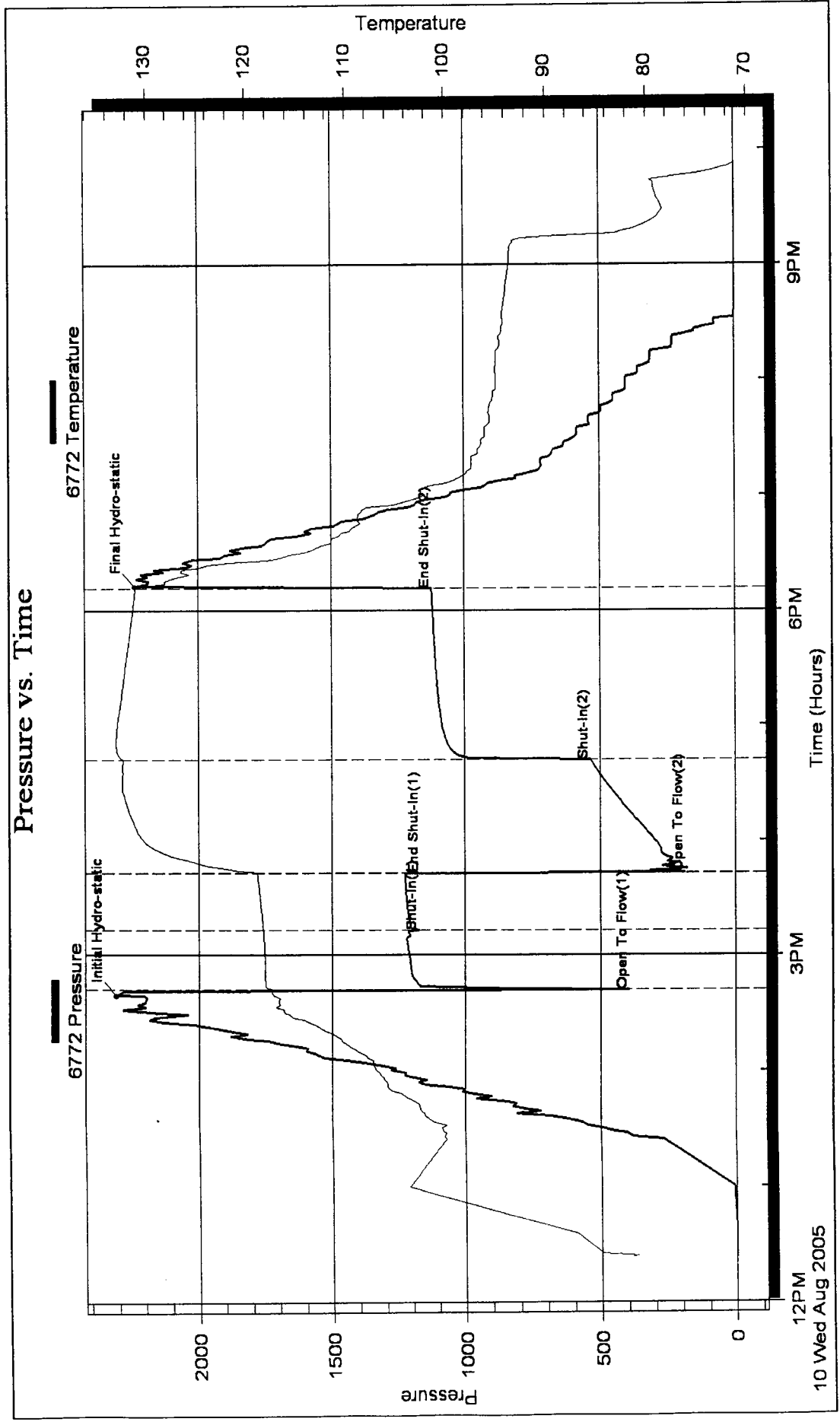
Num Gas Bombs: 0

Serial #:

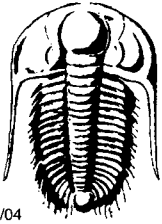
Laboratory Name:

Laboratory Location:

Recovery Comments:



7784



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21296

9/04

Test Ticket

Well Name & No. Irwin-Heirs 1-2 Test No. 1 Date 8-7-05
 Company Shakespeare Oil Company Zone Tested Lansing H-I
 Address 202 West Main Street Salem, IL 62881 Elevation 3029 KB 3020 GL
 Co. Rep / Geo. Rick Hall Cont. Murfin 14 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 13^s Rge. 32^w Co. L094N State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4195 4244 Initial Str Wt./Lbs. 70,000 Unseated Str Wt/Lbs. 70,000
 Anchor Length _____ 49 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 90,000
 Top Packer Depth _____ 4190 Tool Weight 1500
 Bottom Packer Depth _____ 4195 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4244 Wt. Pipe Run _____ Drill Collar Run 568
 Mud Wt. 9.0 LCM Ø Vis. 48 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3615
 Blow Description IF: Surface blow built to 1/4 in 30 min.
IS: No return.
FK: No blow.
FS: No return.

Recovery - Total Feet 20 GIP _____ Ft. in DC 20 Ft. in DP _____
 Rec. 20 Feet of 90cm 10%gas 10%oil %water 80%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 116 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2700 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2100</u>	PSI	<u>6772</u>	<u>x 1050.00</u>
(B) First Initial Flow Pressure	<u>19</u>	PSI	(depth) <u>4196</u>	Jars <u>x 200.00</u>
(C) First Final Flow Pressure	<u>46</u>	PSI	Recorder No. <u>7437</u>	Safety Jt. <u>x 50.00</u>
(D) Initial Shut-In Pressure	<u>516</u>	PSI	(depth) <u>4243</u>	Circ Sub <u>x N/C</u>
(E) Second Initial Flow Pressure	<u>48</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>52</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>464</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2051</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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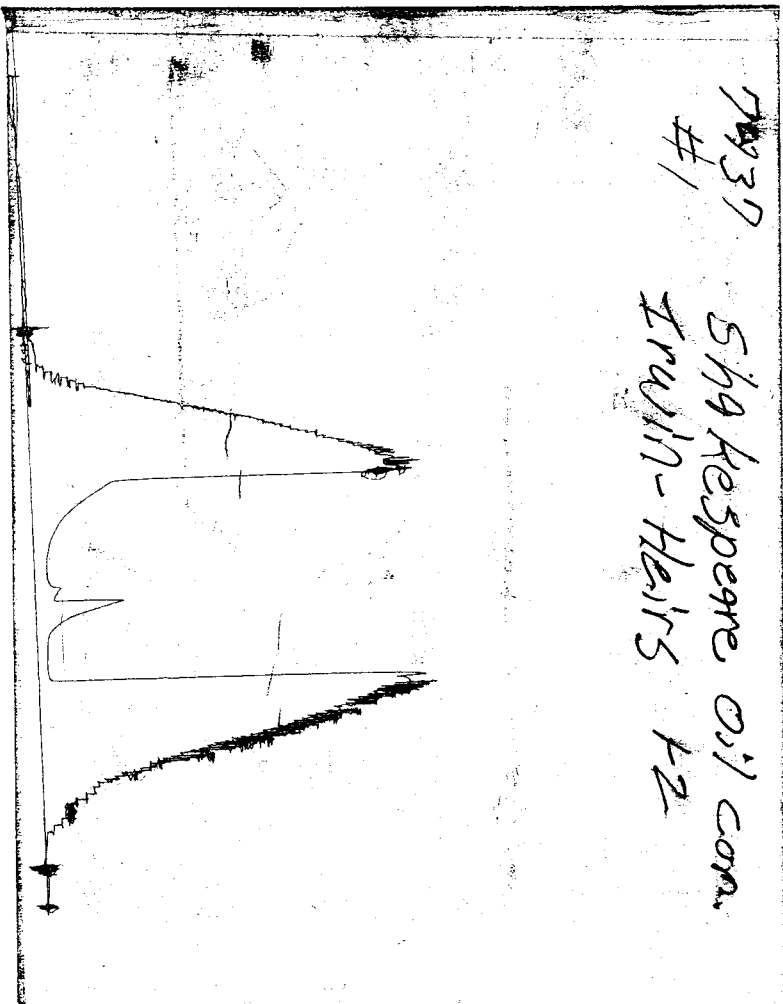
Approved By [Signature]
 Our Representative [Signature]

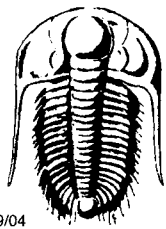
Final Flow 30
 Final Shut-In 90
 T-On Location 224:00
 T-Started 02:32
 T-Open 05:07
 T-Pulled 07:37
 T-Out 09:45
 Mileage 76.00
 Sub Total: 1376
 Std. By x 1 3/4 52.50
 Other _____
 Total: 1428.50

CHART PAGE

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

7/13/37
#1
Shakespeare Oil com.
Irwin - Heirs L2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21297

Test Ticket

Well Name & No. Irwin-Heirs 1-2 Test No. 2 Date 8-8-05
 Company Shakespeare oil Company Zone Tested LKC-J
 Address 202 West main St. Salem, IL 62881 Elevation 3029 KB 3020 GL
 Co. Rep / Geo. Rick Hall Cont. Martin 14 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 13^S Rge. 32^W Co. 4094N State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4244 4266 Initial Str Wt./Lbs. 70,000 Unseated Str Wt./Lbs. 70,000
 Anchor Length _____ 22 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 90,000
 Top Packer Depth _____ 4239 Tool Weight 1500
 Bottom Packer Depth _____ 4244 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ 4266 Wt. Pipe Run _____ Drill Collar Run 568
 Mud Wt. 9.2 LCM Ø Vis. 49 WL 7.7 Drill Pipe Size 4 1/2 XH Ft. Run 3676
 Blow Description IF: Break surface blow died in 30 min.
IS: No return.
FF: No blow.
FS: No return.

Recovery - Total Feet 1 GIP _____ Ft. in DC 1 Ft. in DP _____
 Rec. 1 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 112 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 3100 ppm System

	AK-1	Alpine	PSI	Recorder No.	Test X
(A) Initial Hydrostatic Mud		<u>2149</u>		<u>6972</u>	<u>1050.00</u>
(B) First Initial Flow Pressure		<u>15</u>		<u>4245</u>	Jars X <u>200.00</u>
(C) First Final Flow Pressure		<u>17</u>		<u>7437</u>	Safety Jt. X <u>50.00</u>
(D) Initial Shut-In Pressure		<u>542</u>		<u>4265</u>	Circ Sub X <u>N/C</u>
(E) Second Initial Flow Pressure		<u>16</u>			Sampler _____
(F) Second Final Flow Pressure		<u>18</u>			Straddle _____
(G) Final Shut-In Pressure		<u>375</u>		<u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>2081</u>		<u>30</u>	Shale Packer _____

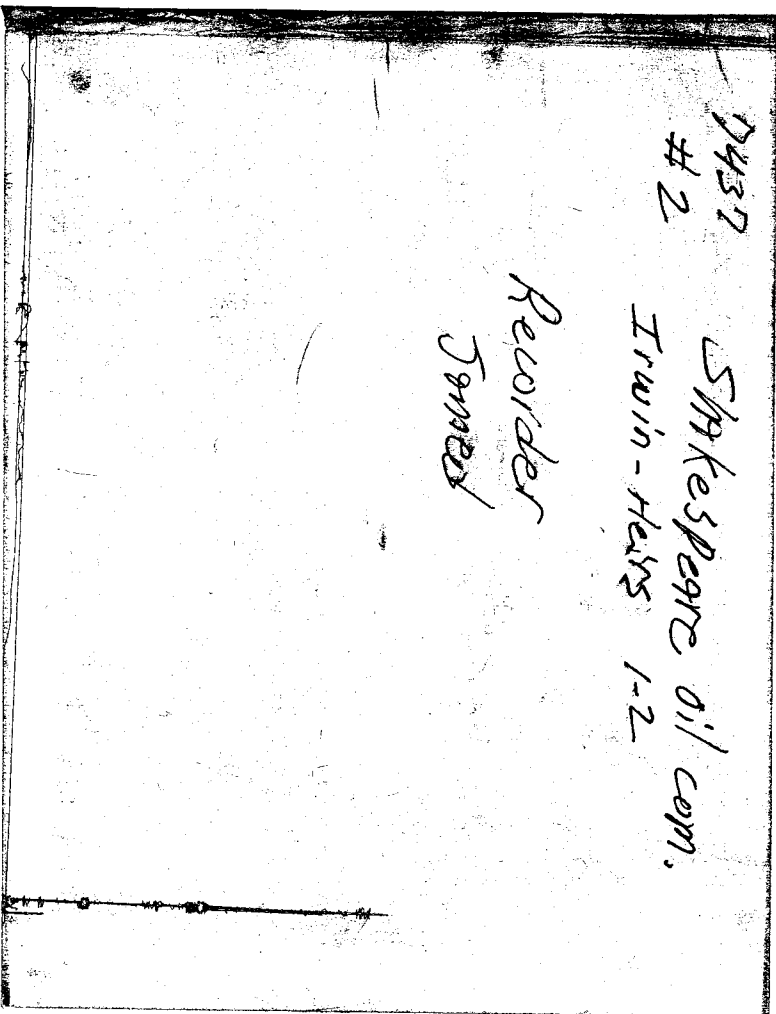
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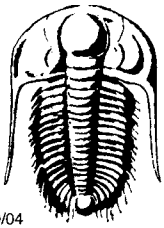
Final Flow 15 Ruined Packer _____
 Final Shut-In 30 Mileage 36.00
 T-On Location 16:10 Sub Total: 1376
 T-Started 16:28 Std. By _____
 T-Open 18:08 Other _____
 T-Pulled 19:38 Total: 1376
 T-Out 21:45

Approved By _____
 Our Representative [Signature]

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21298

9/04

Test Ticket

Well Name & No. Irwin-Heirs 1-2 Test No. 3 Date 8-9-05
 Company Shakespeare oil company Zone Tested LKC-K
 Address 202 West main St, Salem, IL 62881 Elevation 3029 KB 3020 GL
 Co. Rep / Geo. Rick Hall Cont. Murfin 14 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 13S Rge. 32W Co. Logan State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4271 4303 Initial Str Wt./Lbs. 70,000 Unseated Str Wt/Lbs. 70,000
 Anchor Length _____ 32 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 90,000
 Top Packer Depth _____ 4266 Tool Weight 1500
 Bottom Packer Depth _____ 4271 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4303 Wt. Pipe Run _____ Drill Collar Run 568
 Mud Wt. 9.2 LCM 0 Vis. 49 WL 7.7 Drill Pipe Size 4 1/2 X H Ft. Run 3788
 Blow Description IF: surface blow built to 1 1/2 in 30 min.
IS: No return.
FF: surface blow built to 3/4 in 60 min.
FS: No return.

Recovery - Total Feet 40 GIP _____ Ft. in DC 40 Ft. in DP _____
 Rec. 40 Feet of OCM %gas 10 %oil _____ %water 90 %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 117 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 3100 ppm System

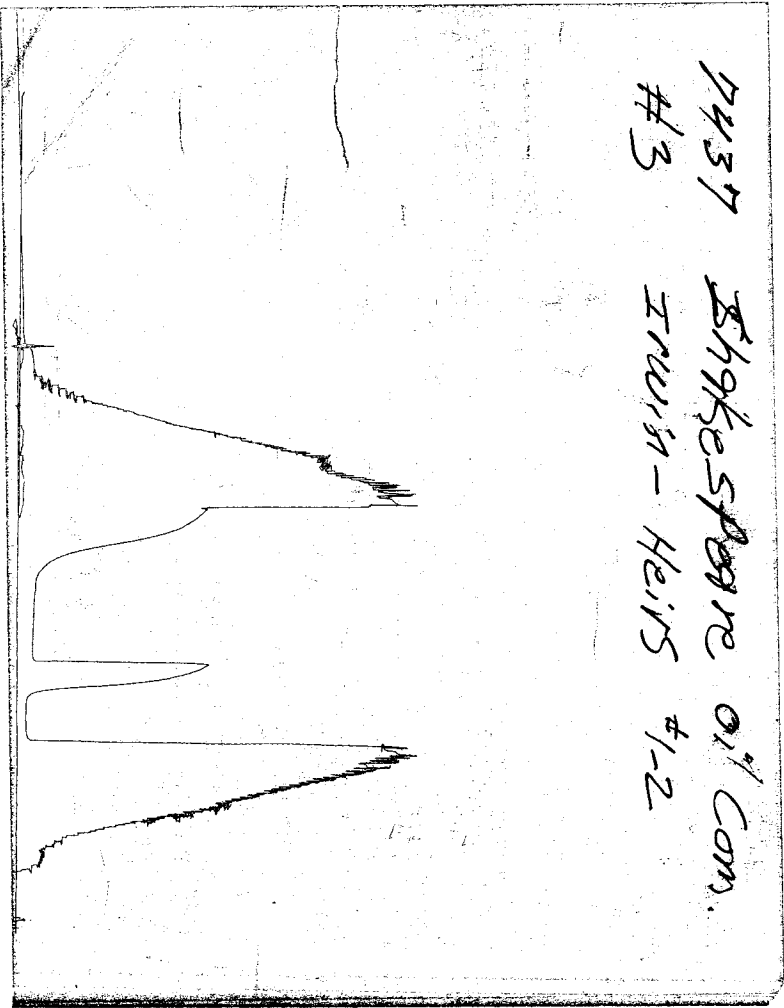
AK-1	Alpine	Recorder No.	Test x
(A) Initial Hydrostatic Mud	<u>2132</u> PSI	<u>6772</u>	<u>1050.00</u>
(B) First Initial Flow Pressure	<u>16</u> PSI	(depth) <u>4272</u>	Jars X <u>200.00</u>
(C) First Final Flow Pressure	<u>26</u> PSI	Recorder No. <u>7437</u>	Safety Jt. x <u>50.00</u>
(D) Initial Shut-In Pressure	<u>1079</u> PSI	(depth) <u>4302</u>	Circ Sub x <u>N/C</u>
(E) Second Initial Flow Pressure	<u>31</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>49</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1045</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2102</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
		Final Flow <u>60</u>	Ruined Packer _____
		Final Shut-In <u>60</u>	Mileage <u>76.00</u>
		T-On Location <u>04:10</u>	Sub Total: <u>1376</u>
		T-Started <u>04:55</u>	Std. By _____
		T-Open <u>07:02</u>	Other _____
		T-Pulled <u>10:02</u>	Total: <u>1376</u>
		T-Out <u>12:05</u>	

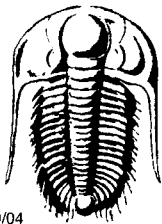
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Approved By [Signature]
 Our Representative [Signature]

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21299

9/04

Test Ticket

Well Name & No. Irwin - Heirs 1-2 Test No. 4 Date 8-10-05
 Company Shakespeare oil company Zone Tested Cherokee - Johnson
 Address 202 West main st. Salem, IL 62881 Elevation 3029 KB 3020 GL
 Co. Rep / Geo. Rick Hall Cont. Muffin 14 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 13 S Rge. 32 W Co. Logan State KS
 No. of Copies Norm. Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4556 4605 Initial Str Wt./Lbs. 78,000 Unseated Str Wt/Lbs. 79,000
 Anchor Length _____ 49 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 90,000
 Top Packer Depth _____ 4551 Tool Weight 1500
 Bottom Packer Depth _____ 4556 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth _____ 4605 Wt. Pipe Run _____ Drill Collar Run 536
 Mud Wt. 9.3 LCM 1 Vis. 53 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3988
 Blow Description IF: 1/4 blow built to 1/2 died in 16 min.

IS: No return.

EF: 1/4 blow BOB in 5 min.

FS: Surface blow BOB in 14 min.

Recovery - Total Feet 1568 GIP 1410 Ft. in DC 536 Ft. in DP 1032
 Rec. 312 Feet of 90 20 %gas 80 %oil %water %mud
 Rec. 470 Feet of 90 30 %gas 70 %oil %water %mud
 Rec. 250 Feet of MC90 20 %gas 70 %oil %water 10 %mud
 Rec. 536 Feet of MC90 20 %gas 60 %oil %water 20 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 131 °F Gravity 28 °API D @ 80 °F Corrected Gravity 26 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4100 ppm System

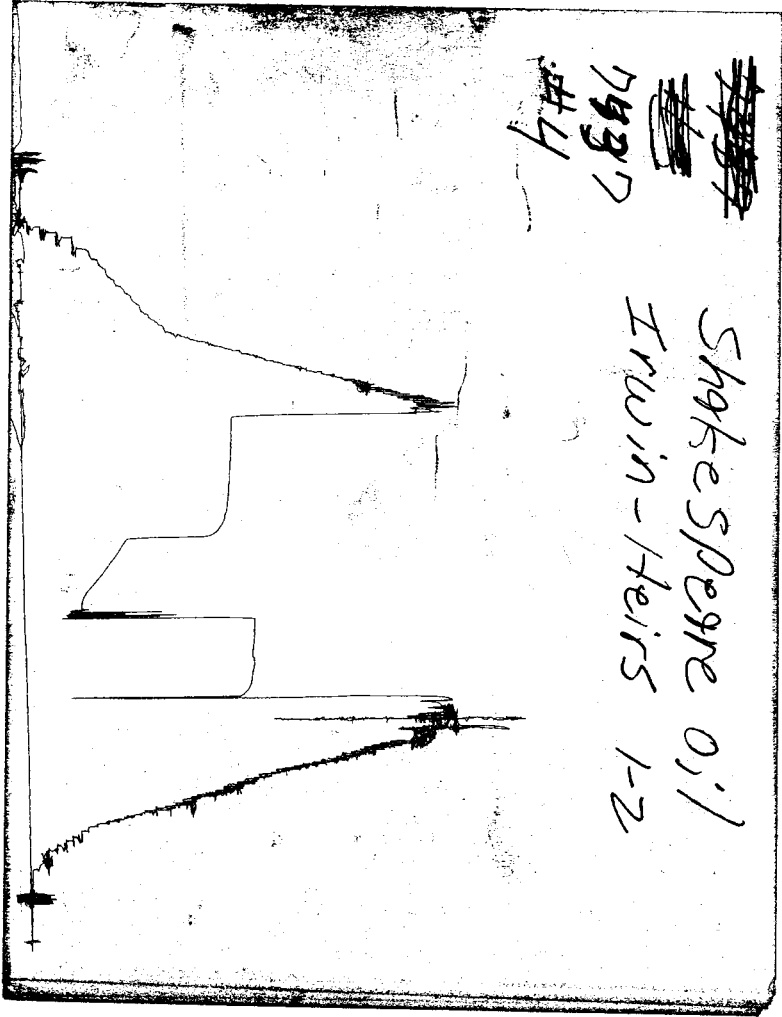
	AK-1	Alpine	Recorder No.	Test x
(A) Initial Hydrostatic Mud	<u>2306</u> PSI		<u>6772</u>	<u>1050.00</u>
(B) First Initial Flow Pressure	<u>396</u> PSI		(depth) <u>4557</u>	Jars x <u>200.00</u>
(C) First Final Flow Pressure	<u>1177</u> PSI		Recorder No. <u>7437</u>	Safety Jt. x <u>50.00</u>
(D) Initial Shut-In Pressure	<u>1226</u> PSI		(depth) <u>4604</u>	Circ Sub x <u>N/C</u>
(E) Second Initial Flow Pressure	<u>189</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>538</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1123</u> PSI	Initial Opening <u>30</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2234</u> PSI	Initial Shut-In <u>30</u>		Shale Packer _____
		Final Flow <u>60</u>		Ruined Packer _____
		Final Shut-In <u>90</u>		Mileage <u>76.00</u>
		T-On Location <u>11:00</u>		Sub Total: <u>1376</u>
		T-Started <u>12:22</u>		Std. By <u>2</u> <u>60</u>
		T-Open <u>14:41</u>		Other _____
		T-Pulled <u>18:11</u>		Total: <u>1436</u>
		T-Out <u>21:50</u>		

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Approved By Don Will
 Our Representative BL

CHART PAGE

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



**INTEREST OWNERS – IRWIN HEIRS #1-2
LOGAN COUNTY, KS**

1. Shakespeare Oil Company, Inc.
202 West Main Street
Salem, IL 62881
2. Lario Oil & Gas Company
301 South Market Street
Wichita, KS 67202
3. Continental Resources of Illinois, Inc.
P.O. Box 749
Mt. Vernon, IL 62864
4. American Hawaiian Petroleum Company
R.R. #1, Tree Top Ranch
Millarville, Alberta, Canada T0L 1K0
5. Mohican Petroleum, Inc.
21 S. Clark St., Suite 3980
Chicago, IL 60603-2299
6. Dean Hollensbe
P.O. Box 1257
Mt. Vernon, IL 62864
7. Chas. A. Neal & Company
P. O. Box 269
Miami, OK 74355
8. D. E. Jones Inc.
Route 4, Box 142B
Lawrenceville, IL 62439
9. Murfin Drilling Company, Inc.
250 N. Water, Suite 300
Wichita, KS 67202
10. Paul Simpson
P.O. Box 362
Hays, KS 67601
11. Jack W. Garhart
28630 Pine Dr.
Evergreen, CO 80439