



DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.07 @ 08:50:00

End Date: 2013.04.07 @ 16:04:54

Job Ticket #: 49228 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.22 @ 14:12:58



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

GENERAL INFORMATION:

Formation: **LKC "B - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:54:40

Time Test Ended: 16:04:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

Interval: 4014.00 ft (KB) To 4055.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4055.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ RunDepth: 807.98 psig @ 4015.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.07

End Date:

2013.04.07

Last Calib.:

2013.04.07

Start Time:

08:50:00

End Time:

16:04:54

Time On Btm:

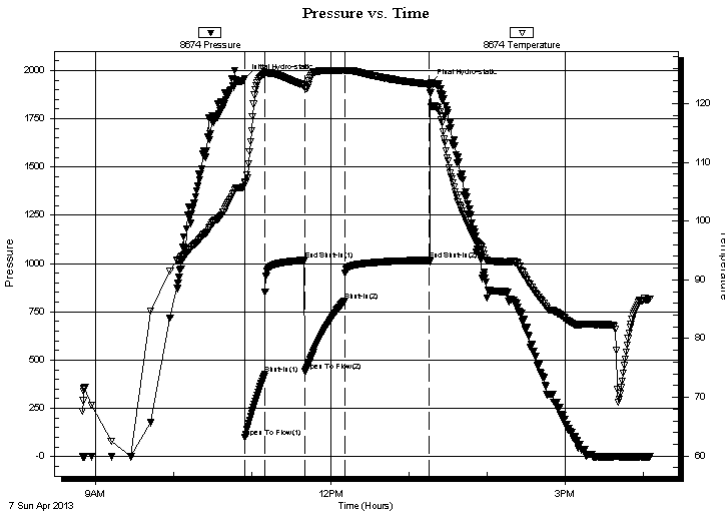
2013.04.07 @ 10:54:10

Time Off Btm:

2013.04.07 @ 13:16:24

TEST COMMENT: IF- Surface Blow Built to BOB in 2 1/4 min
IS- No Blow
FF- Surface Blow Built to BOB in 2 3/4 min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.38	106.73	Initial Hydro-static
1	101.54	106.43	Open To Flow (1)
16	426.99	125.06	Shut-In(1)
46	1016.61	123.07	End Shut-In(1)
47	440.51	122.70	Open To Flow (2)
77	807.98	125.60	Shut-In(2)
142	1018.01	123.28	End Shut-In(2)
143	1929.50	123.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1049.00	MCW 3%m 97%w	13.63
186.00	MCW 5%m 95%w	2.61
248.00	MCW 21%m 79%w	3.48
315.00	MCW 49%m 51%w	4.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

Tool Information

Drill Pipe:	Length: 3895.00 ft	Diameter: 3.80 inches	Volume: 54.64 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: 26000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 55.23 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4014.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3995.00	
Shut In Tool	5.00			4000.00	
Hydraulic tool	5.00			4005.00	
Packer	5.00			4010.00	20.00 Bottom Of Top Packer
Packer	4.00			4014.00	
Stubb	1.00			4015.00	
Recorder	0.00	8355	Outside	4015.00	
Recorder	0.00	8674	Inside	4015.00	
Perforations	5.00			4020.00	
Change Over Sub	1.00			4021.00	
Drill Pipe	30.00			4051.00	
Change Over Sub	1.00			4052.00	
Bullnose	3.00			4055.00	41.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

44000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.73 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1049.00	MCW 3% <i>m</i> 97% <i>w</i>	13.631
186.00	MCW 5% <i>m</i> 95% <i>w</i>	2.609
248.00	MCW 21% <i>m</i> 79% <i>w</i>	3.479
315.00	MCW 49% <i>m</i> 51% <i>w</i>	4.419

Total Length: 1798.00 ft Total Volume: 24.138 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .165 @ 68f = 44000

Serial #: 8674

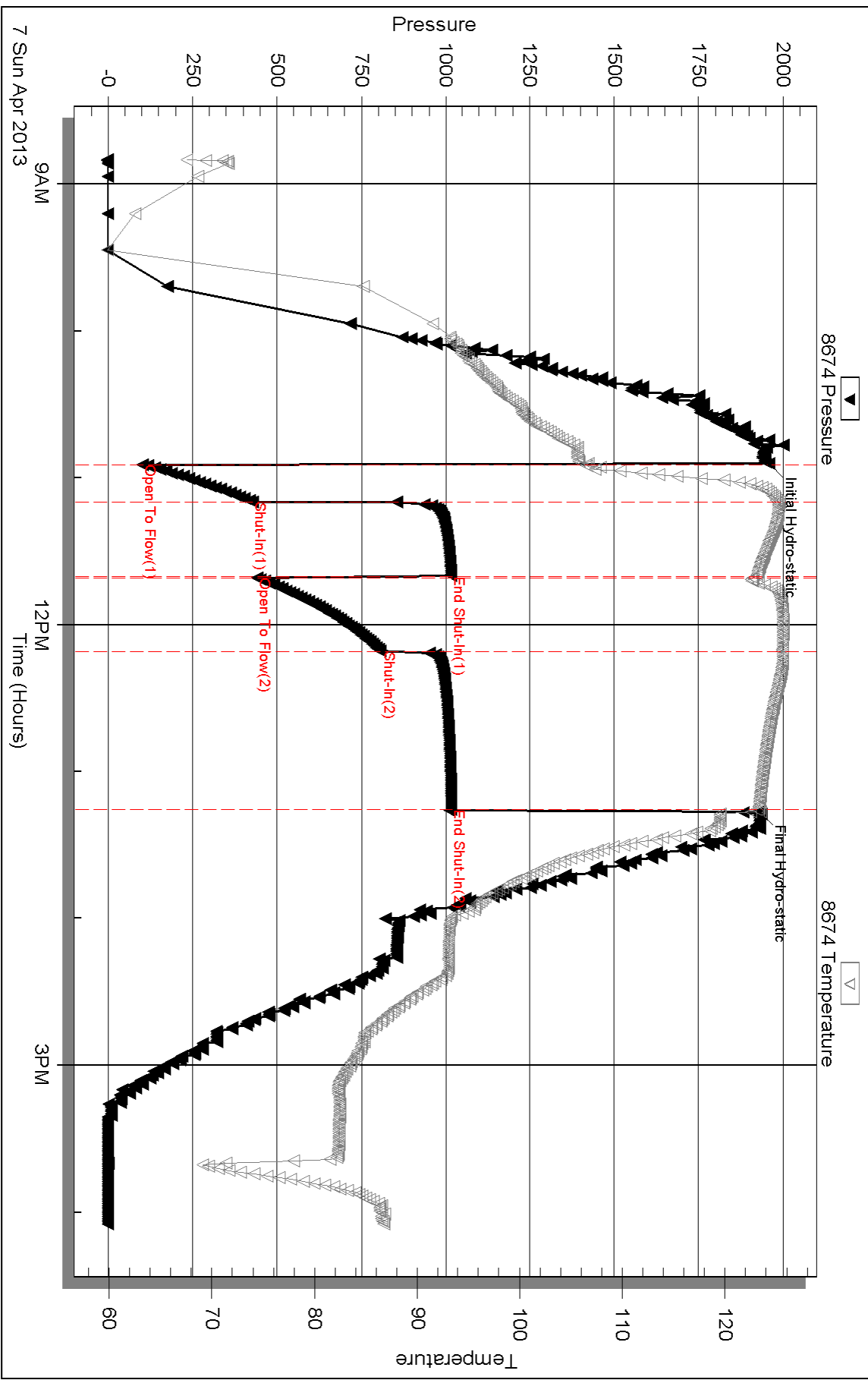
Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 1

Pressure vs. Time

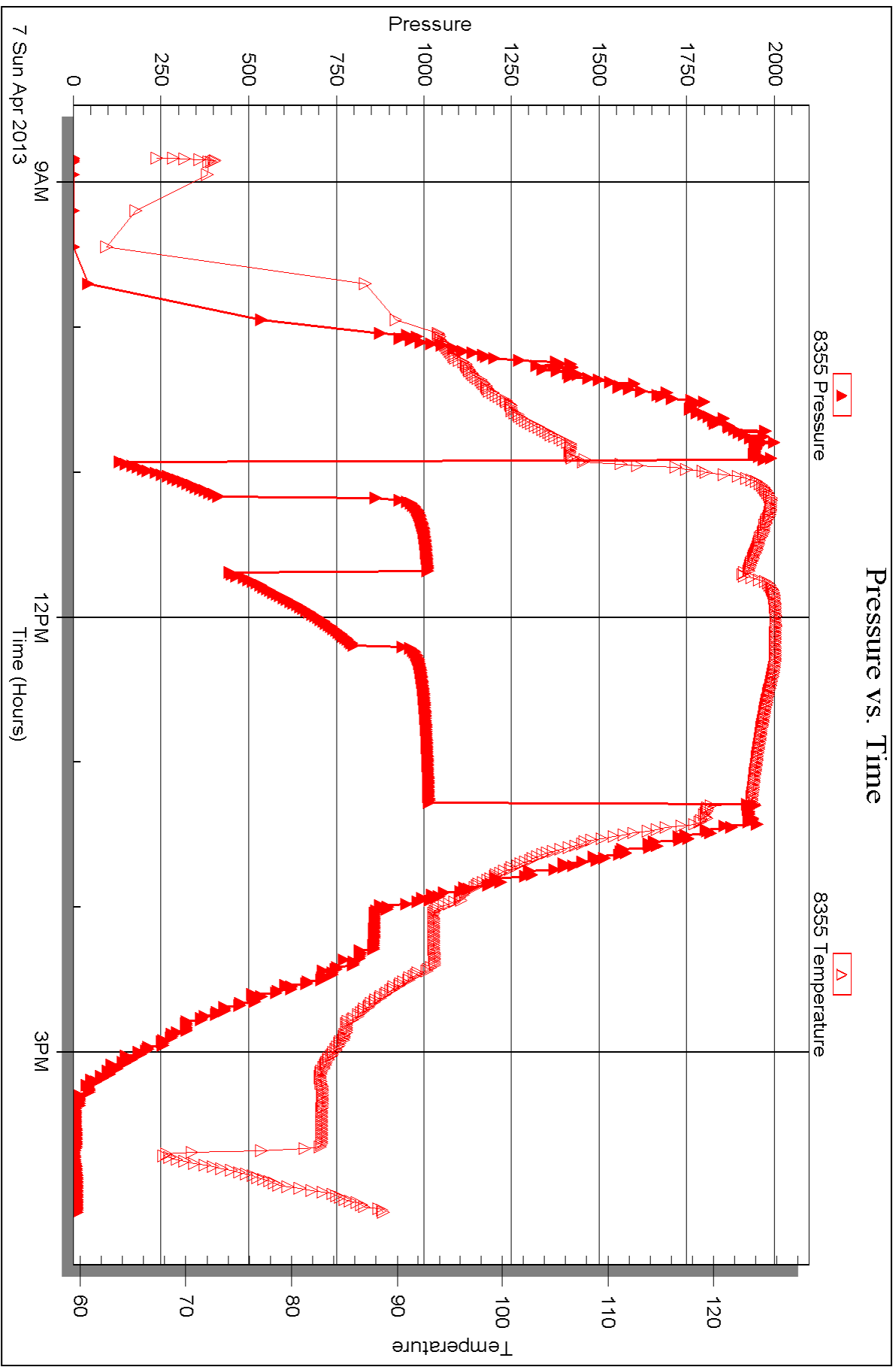


Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.08 @ 10:04:00

End Date: 2013.04.08 @ 17:49:54

Job Ticket #: 49229 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.22 @ 14:11:57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49229

DST#: 2

ATTN: Tim Priest

Test Start: 2013.04.08 @ 10:04:00

GENERAL INFORMATION:

Formation: **LKC " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:09:10

Time Test Ended: 17:49:54

Test Type: Conventional Straddle (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4068.00 ft (KB) To 4092.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4100.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ RunDepth: 134.92 psig @ 4069.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.08

End Date:

2013.04.08

Last Calib.:

2013.04.08

Start Time:

10:04:00

End Time:

17:49:54

Time On Btm:

2013.04.08 @ 12:08:40

Time Off Btm:

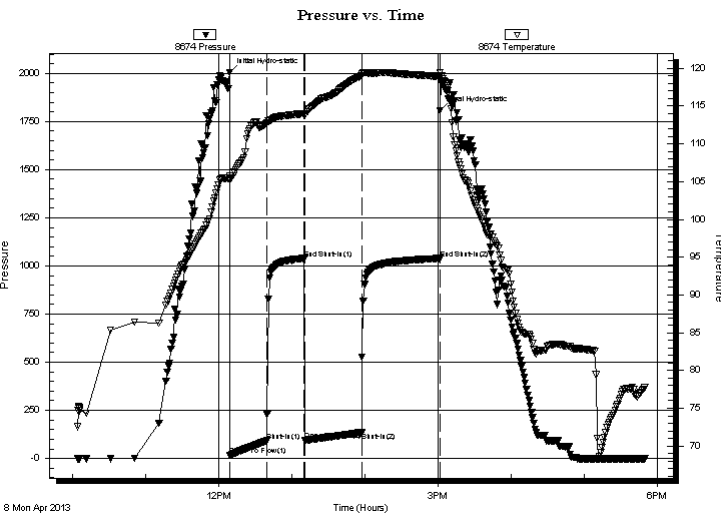
2013.04.08 @ 15:01:39

TEST COMMENT: IF- Weak Surface Blow Built to 4"

IS- No Blow

FF- Weak Surface Blow Built to 1 1/4"

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.68	105.71	Initial Hydro-static
1	15.55	105.25	Open To Flow (1)
31	91.79	112.68	Shut-In(1)
62	1038.96	114.00	End Shut-In(1)
62	93.76	113.76	Open To Flow (2)
109	134.92	119.05	Shut-In(2)
173	1038.50	118.94	End Shut-In(2)
173	1807.00	119.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.59
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.31
60.00	OWCM 8%oil 34%w 58%m	0.84
82.00	OWCM 12%oil 20%w 68%m	1.15
40.00	Oil 100%	0.56

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49229

DST#: 2

ATTN: Tim Priest

Test Start: 2013.04.08 @ 10:04:00

Tool Information

Drill Pipe:	Length: 3894.00 ft	Diameter: 3.80 inches	Volume: 54.62 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:	28000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	10000.00 lb
			<u>Total Volume: 55.50 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4068.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	4092.00 ft				
Interval between Packers:	24.00 ft				
Tool Length:	52.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4049.00	
Shut In Tool	5.00			4054.00	
Hydraulic tool	5.00			4059.00	
Packer	5.00			4064.00	20.00 Bottom Of Top Packer
Packer	4.00			4068.00	
Stubb	1.00			4069.00	
Recorder	0.00	8355	Outside	4069.00	
Recorder	0.00	8674	Inside	4069.00	
Perforations	19.00			4088.00	
Blank Off Sub	1.00			4089.00	
Top of S Packer	3.00			4092.00	24.00 Tool Interval
Packer	0.00			4092.00	
Stubb	1.00			4093.00	
Perforations	4.00			4097.00	
Recorder	0.00	8672	Below	4097.00	
Bullnose	3.00			4100.00	8.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49229

DST#: 2

ATTN: Tim Priest

Test Start: 2013.04.08 @ 10:04:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.590
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.313
60.00	OWCM 8%oil 34%w 58%m	0.842
82.00	OWCM 12%oil 20%w 68%m	1.150
40.00	Oil 100%	0.561

Total Length: 362.00 ft Total Volume: 3.456 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .207 @ 73f = 34000

API is 22 @ 70f = 21

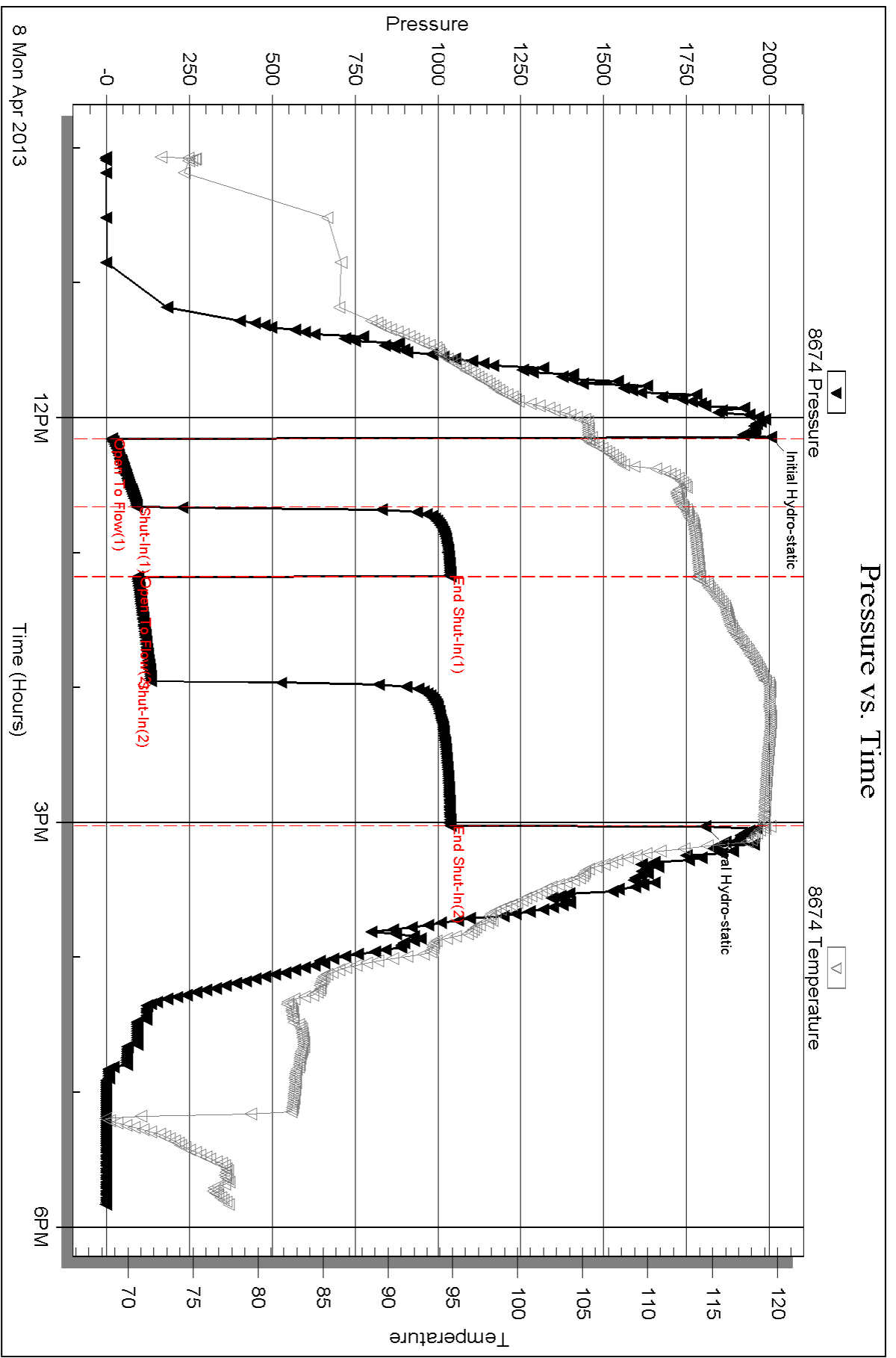
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 49229

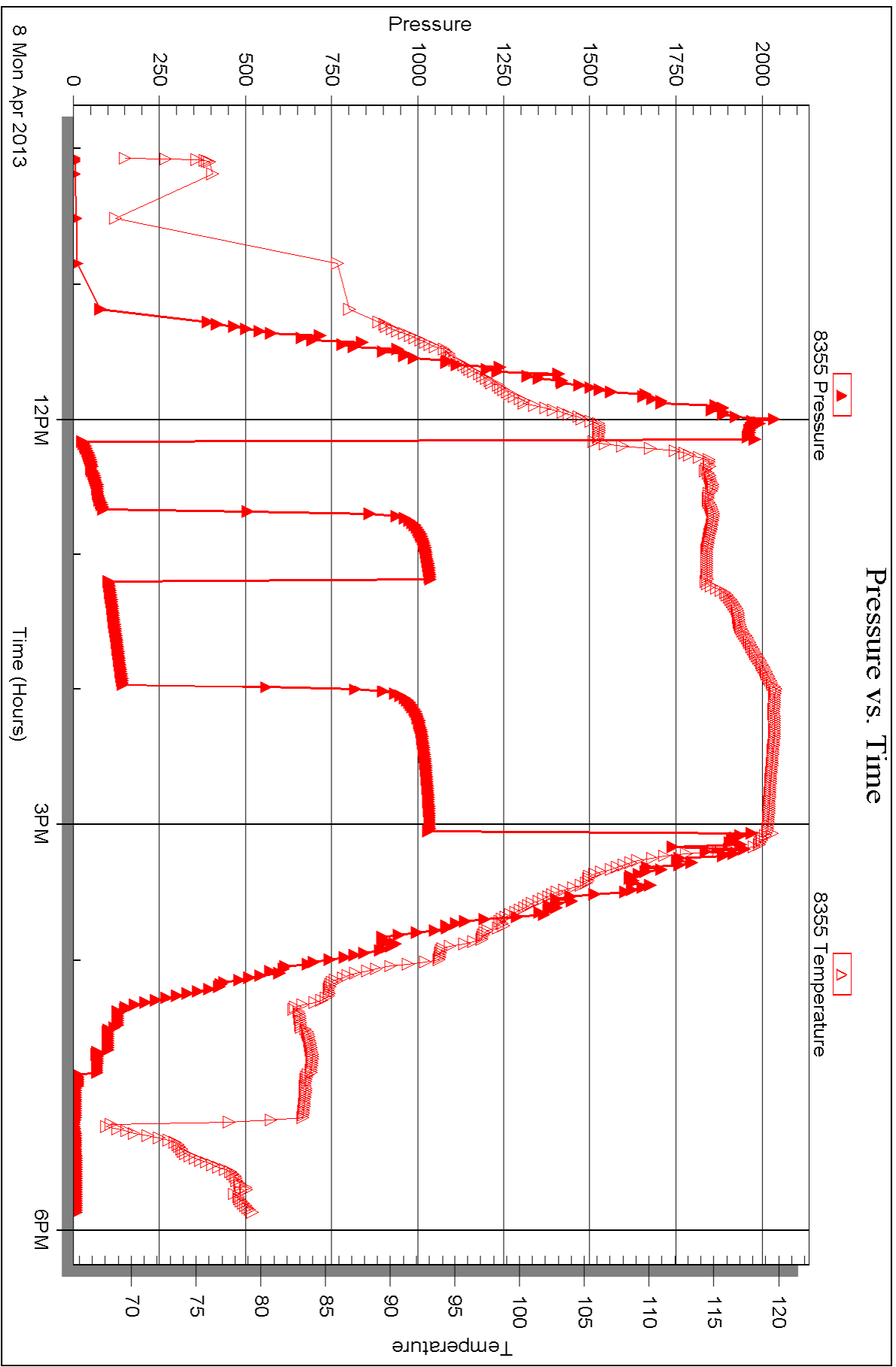
Printed: 2013.04.22 @ 14:12:00

Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 2

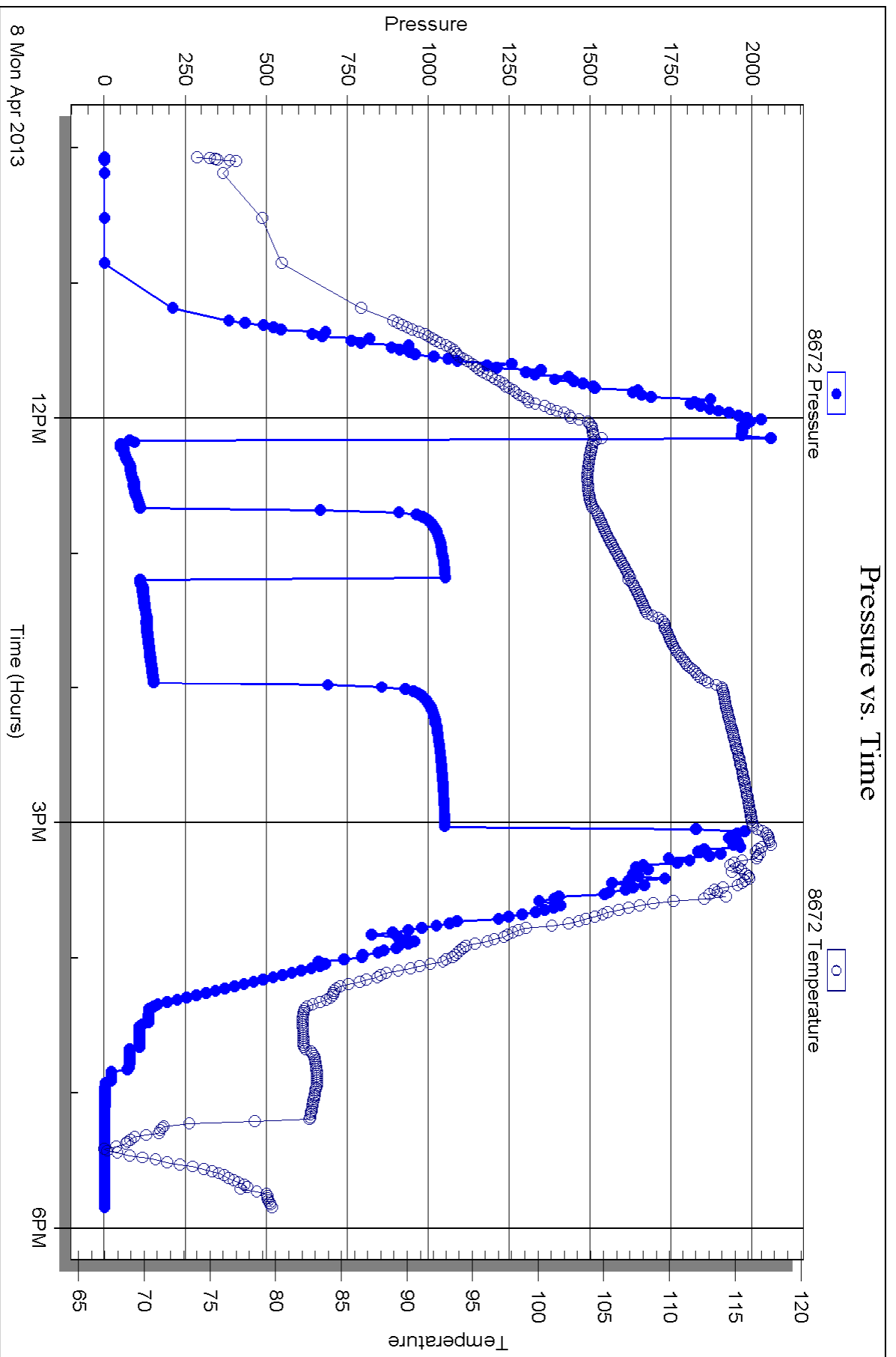


Serial #: 8672

Below (Strat)Halespear Oil Co. Inc

Rudolph #1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 49229

Printed: 2013.04.22 @ 14:12:01



DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.10 @ 06:46:00

End Date: 2013.04.10 @ 15:47:25

Job Ticket #: 49230 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.22 @ 14:10:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49230

DST#: 3

ATTN: Tim Priest

Test Start: 2013.04.10 @ 06:46:00

GENERAL INFORMATION:

Formation: **LKC " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:21:40

Time Test Ended: 15:47:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4305.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 787.46 psig @ 4308.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.10

End Date:

2013.04.10

Last Calib.:

2013.04.10

Start Time: 06:46:00

End Time:

15:47:25

Time On Btm:

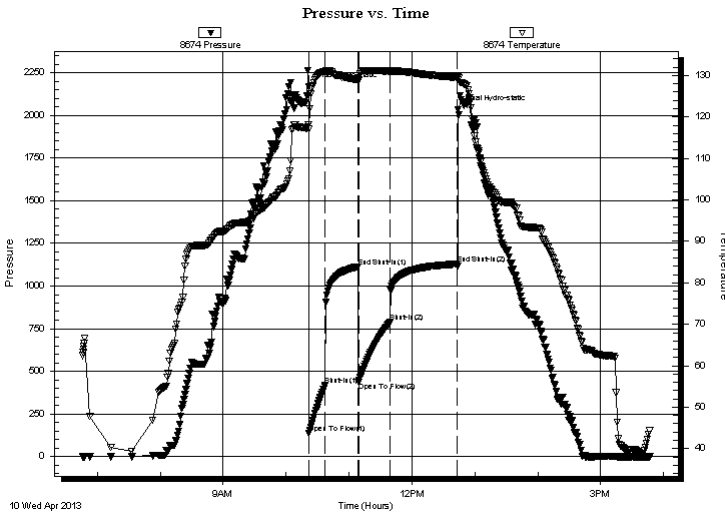
2013.04.10 @ 10:21:25

Time Off Btm:

2013.04.10 @ 12:43:54

TEST COMMENT: IF- Surface Blow Built to BOB in 2 min
IS- No Blow
FF- Surface Blow Built to BOB in 2 3/4 min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.24	118.20	Initial Hydro-static
1	135.83	117.09	Open To Flow (1)
16	420.07	130.93	Shut-In(1)
47	1113.21	128.90	End Shut-In(1)
48	437.04	128.68	Open To Flow (2)
78	787.46	131.06	Shut-In(2)
142	1128.86	129.53	End Shut-In(2)
143	2035.21	129.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
863.00	MCW 5%w 95%w	11.02
496.00	MCW 14%w 86%w	6.96
248.00	WCM 45%w 55%w	3.48
206.00	WCM 27%w 73%w with a Few Oil Sp	2.89

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49230

DST#: 3

ATTN: Tim Priest

Test Start: 2013.04.10 @ 06:46:00

Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 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:	28000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	14000.00 lb
			<u>Total Volume: 59.11 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4305.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4286.00	
Shut In Tool	5.00			4291.00	
Hydraulic tool	5.00			4296.00	
Packer	5.00			4301.00	20.00 Bottom Of Top Packer
Packer	4.00			4305.00	
Stubb	1.00			4306.00	
Perforations	2.00			4308.00	
Recorder	0.00	8355	Outside	4308.00	
Recorder	0.00	8674	Inside	4308.00	
Perforations	29.00			4337.00	
Bullnose	3.00			4340.00	35.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49230

DST#: 3

ATTN: Tim Priest

Test Start: 2013.04.10 @ 06:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

55000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
863.00	MCW 5%m 95%w	11.022
496.00	MCW 14%m 86%w	6.958
248.00	WCM 45%w 55%m	3.479
206.00	WCM 27%w 73%m with a Few Oil Spots	2.890

Total Length: 1813.00 ft Total Volume: 24.349 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .218 @ 43f = 55000

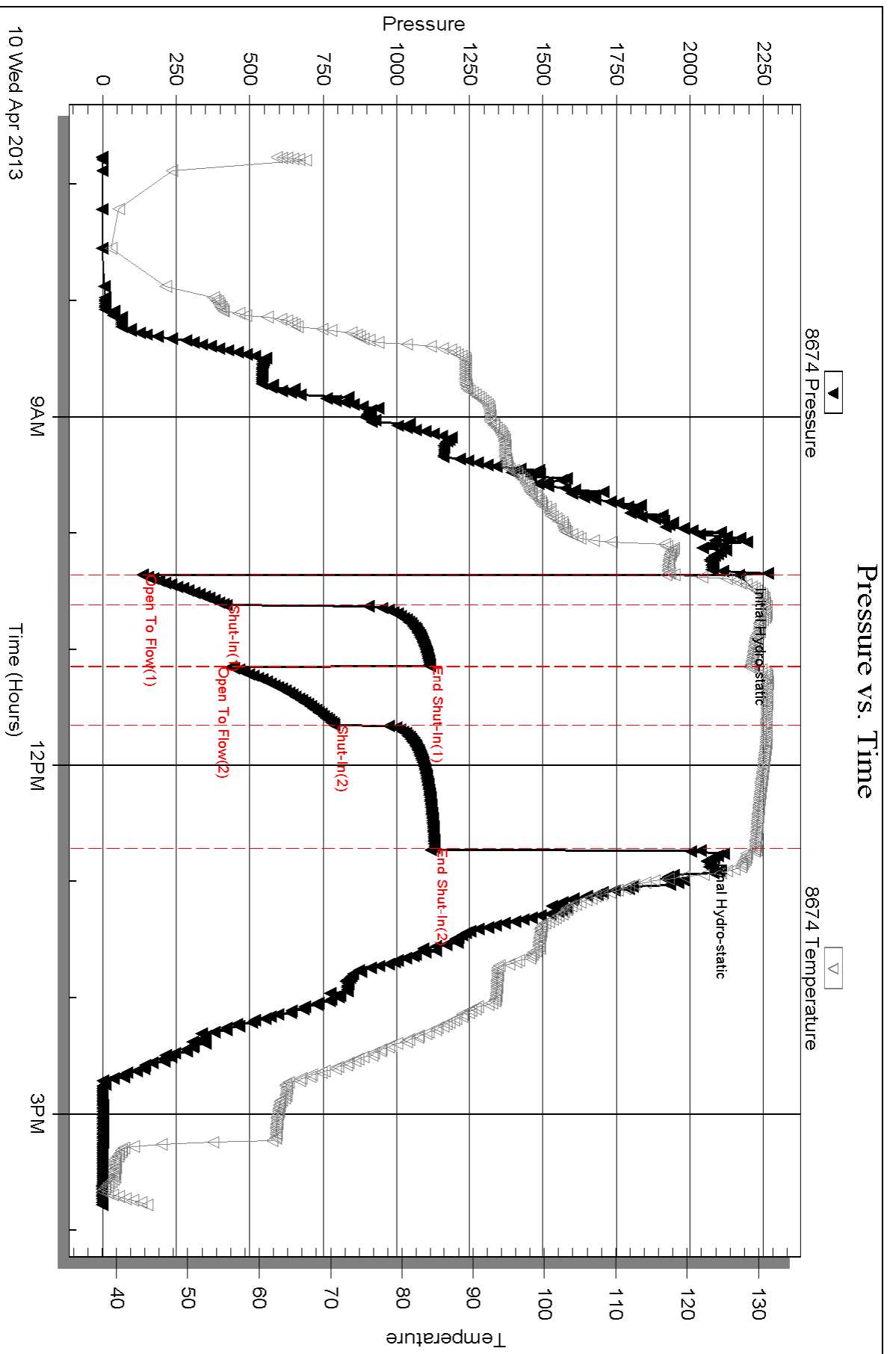
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 49230

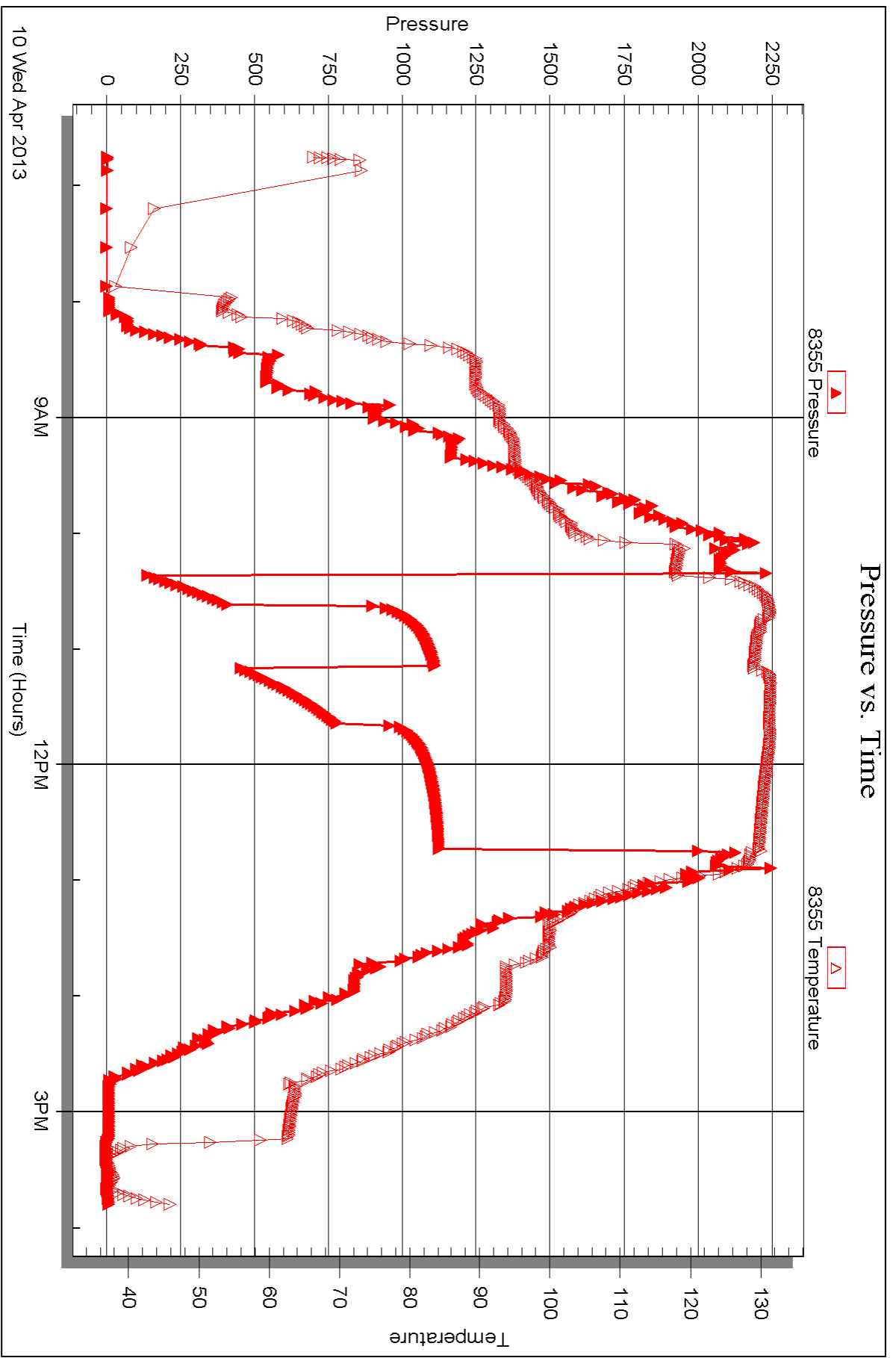
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Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 49230

Printed: 2013.04.22 @ 14:10:37



DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.11 @ 07:28:00

End Date: 2013.04.11 @ 15:04:39

Job Ticket #: 49231 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.22 @ 14:09:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49231

DST#: 4

ATTN: Tim Priest

Test Start: 2013.04.11 @ 07:28:00

GENERAL INFORMATION:

Formation: **Marmanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:40

Time Test Ended: 15:04:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4378.00 ft (KB) To 4427.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4427.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 28.98 psig @ 4382.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.11

End Date:

2013.04.11

Last Calib.:

2013.04.11

Start Time: 07:28:00

End Time:

15:04:39

Time On Btm:

2013.04.11 @ 10:08:10

Time Off Btm:

2013.04.11 @ 12:45:54

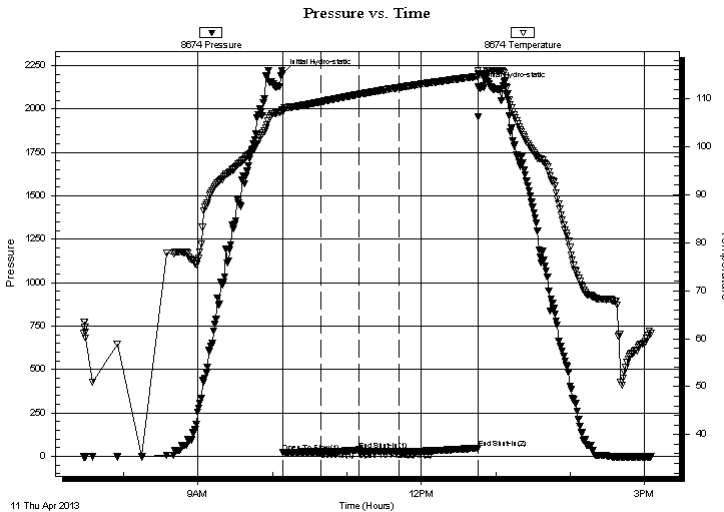
TEST COMMENT: IF- Weak Surface Blow Died in 9 min

IS- No Blow

FF- No Blow

FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.48	107.61	Initial Hydro-static
1	24.50	107.39	Open To Flow (1)
31	27.20	109.40	Shut-In(1)
62	37.59	110.93	End Shut-In(1)
62	26.92	110.93	Open To Flow (2)
94	28.98	112.33	Shut-In(2)
158	48.52	114.68	End Shut-In(2)
158	2127.77	115.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% mud Few Oil Spots in Tool	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49231

DST#: 4

ATTN: Tim Priest

Test Start: 2013.04.11 @ 07:28:00

Tool Information

Drill Pipe:	Length: 4261.00 ft	Diameter: 3.80 inches	Volume: 59.77 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: 24000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 30000.00 lb
			<u>Total Volume: 60.36 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4378.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4359.00	
Shut In Tool	5.00			4364.00	
Hydraulic tool	5.00			4369.00	
Packer	5.00			4374.00	20.00 Bottom Of Top Packer
Packer	4.00			4378.00	
Stubb	1.00			4379.00	
Perforations	3.00			4382.00	
Recorder	0.00	8355	Outside	4382.00	
Recorder	0.00	8674	Inside	4382.00	
Perforations	10.00			4392.00	
Change Over Sub	1.00			4393.00	
Drill Pipe	30.00			4423.00	
Change Over Sub	1.00			4424.00	
Bullnose	3.00			4427.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49231

DST#: 4

ATTN: Tim Priest

Test Start: 2013.04.11 @ 07:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100% mud Few Oil Spots in Tool	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:

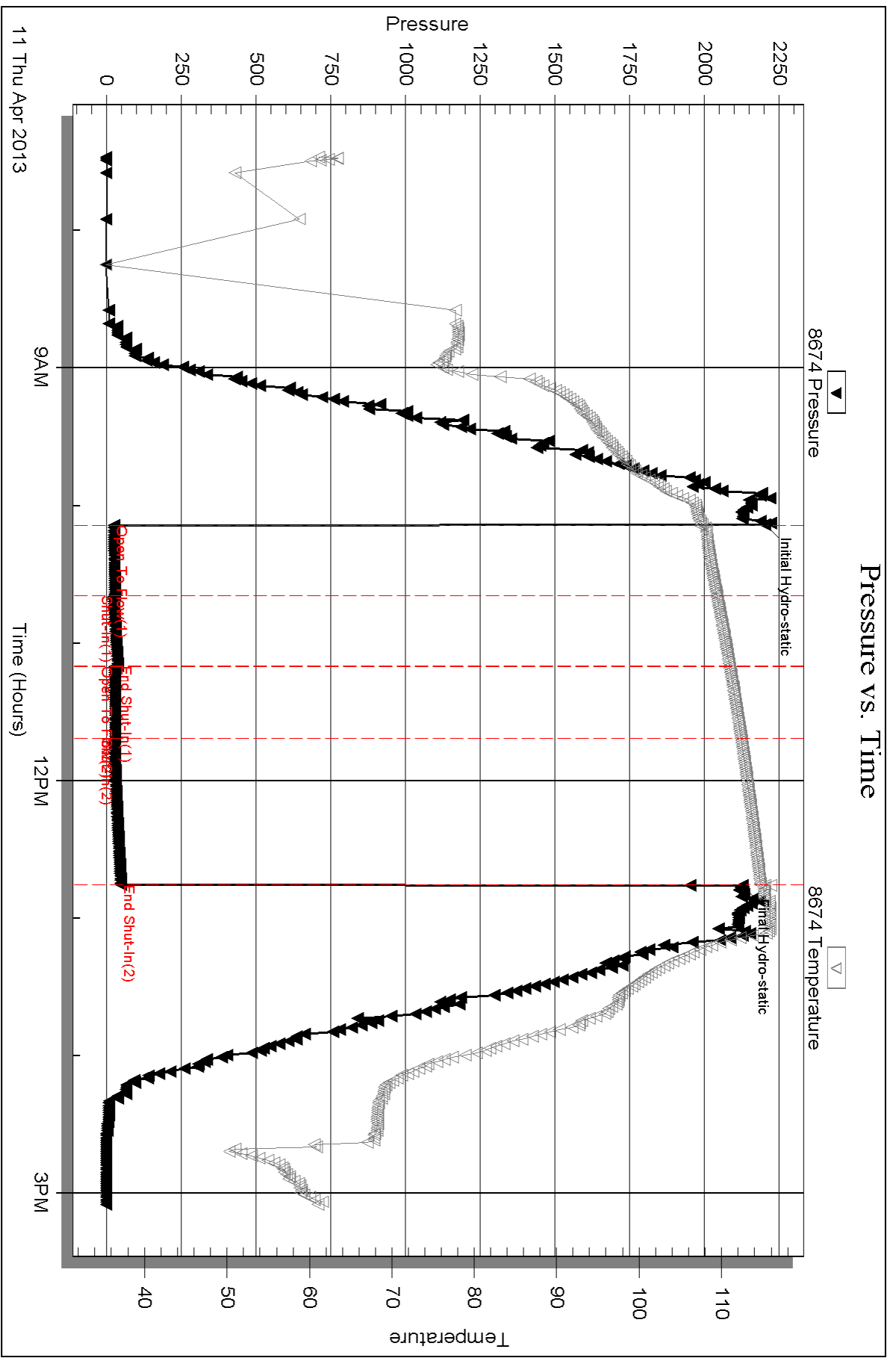
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 4

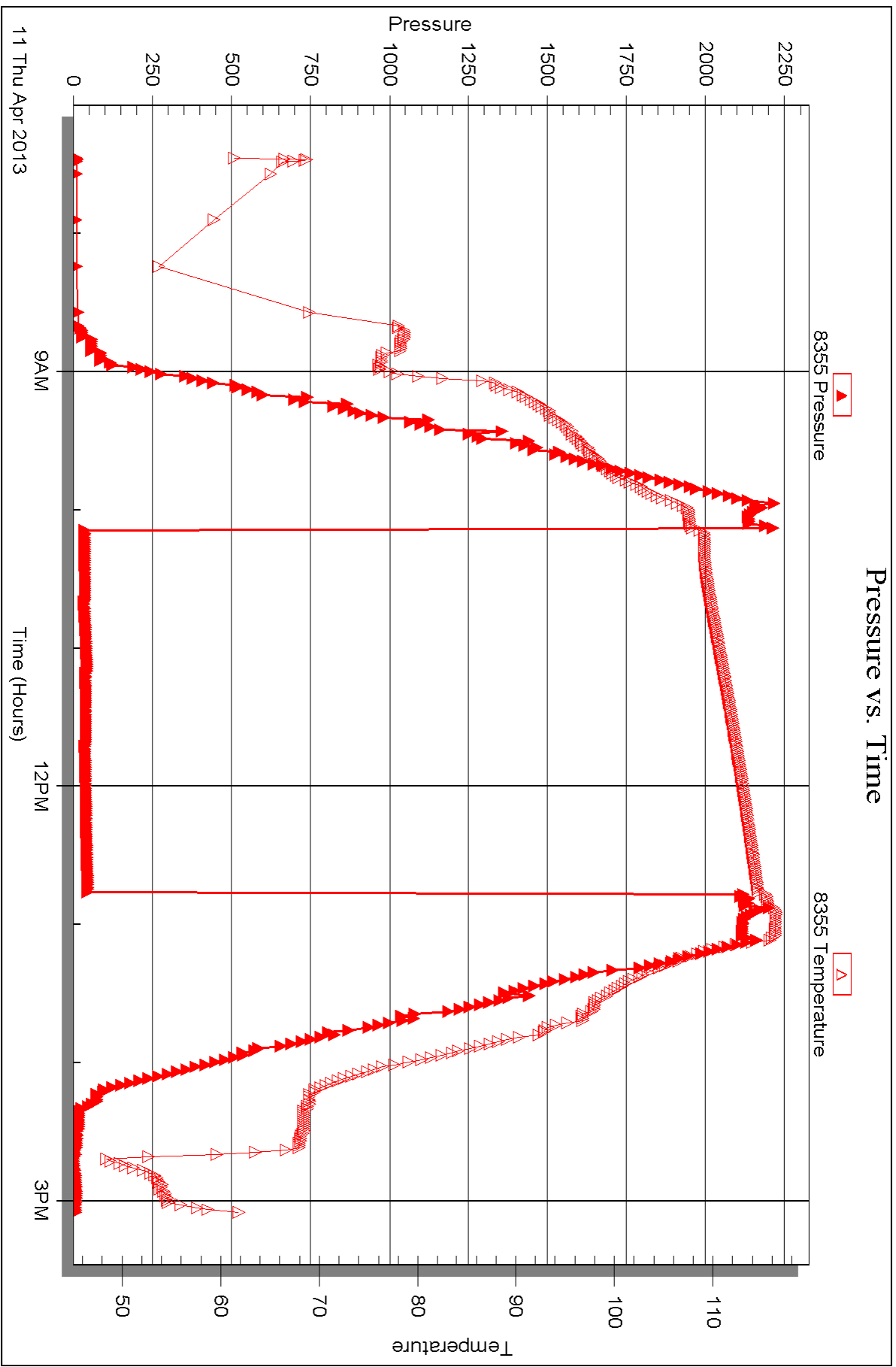


Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.12 @ 06:51:36

End Date: 2013.04.12 @ 15:14:51

Job Ticket #: 49122 DST #: 5

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

Printed: 2013.04.22 @ 14:08:43



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49122

DST#: 5

ATTN: Tim Priest

Test Start: 2013.04.12 @ 06:51:36

GENERAL INFORMATION:

Formation: **Marmaton "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:37:21

Time Test Ended: 15:14:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 58

Interval: 4430.00 ft (KB) To 4425.00 ft (KB) (TVD)

Total Depth: 4455.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3033.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 363.45 psig @ 4431.00 ft (KB)

Start Date: 2013.04.12

End Date:

2013.04.12

Start Time: 06:51:41

End Time:

15:14:50

Capacity: 8000.00 psig

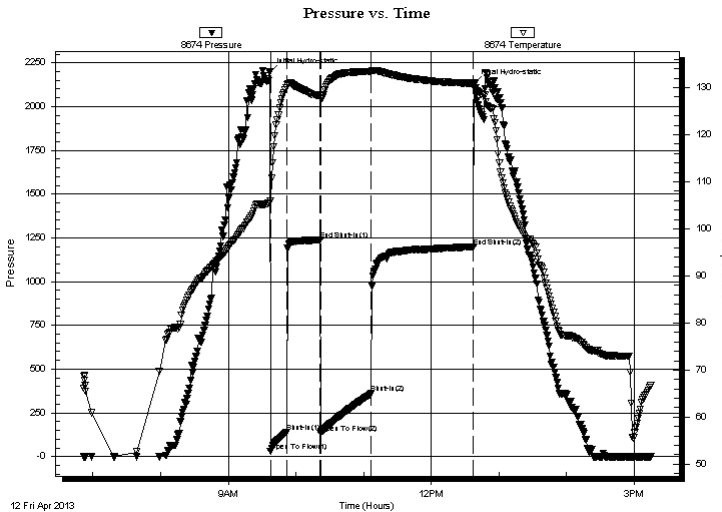
Last Calib.: 2013.04.12

Time On Btm: 2013.04.12 @ 09:36:51

Time Off Btm: 2013.04.12 @ 12:37:51

TEST COMMENT: BOB In 10 mins.
Dead no blow back.
BOB in 10 mins.
Dead no blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.72	105.58	Initial Hydro-static
1	30.54	105.88	Open To Flow (1)
15	138.15	130.07	Shut-In(1)
45	1236.78	128.33	End Shut-In(1)
45	134.82	127.62	Open To Flow (2)
90	363.45	133.40	Shut-In(2)
181	1199.40	130.86	End Shut-In(2)
181	2132.21	131.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	2%M 98%W	4.81
180.00	15%M 85%W	2.52
60.00	30%M 70%W	0.84
160.00	40%W 60%M	2.24

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49122

DST#: 5

ATTN: Tim Priest

Test Start: 2013.04.12 @ 06:51:36

Tool Information

Drill Pipe:	Length: 4322.00 ft	Diameter: 3.80 inches	Volume: 60.63 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:	20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 61.22 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4430.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4411.00	
Shut In Tool	5.00			4416.00	
Hydraulic tool	5.00			4421.00	
Packer	5.00			4426.00	20.00 Bottom Of Top Packer
Packer	4.00			4430.00	
Stubb	1.00			4431.00	
Recorder	0.00	8355	Outside	4431.00	
Recorder	0.00	8674	Inside	4431.00	
Perforations	21.00			4452.00	
Bullnose	3.00			4455.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49122

DST#: 5

ATTN: Tim Priest

Test Start: 2013.04.12 @ 06:51:36

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

47000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
420.00	2%M 98%W	4.807
180.00	15%M 85%W	2.525
60.00	30%M 70%W	0.842
160.00	40%W 60%M	2.244

Total Length: 820.00 ft Total Volume: 10.418 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .152 @ 68F = 47000

Serial #: 8674

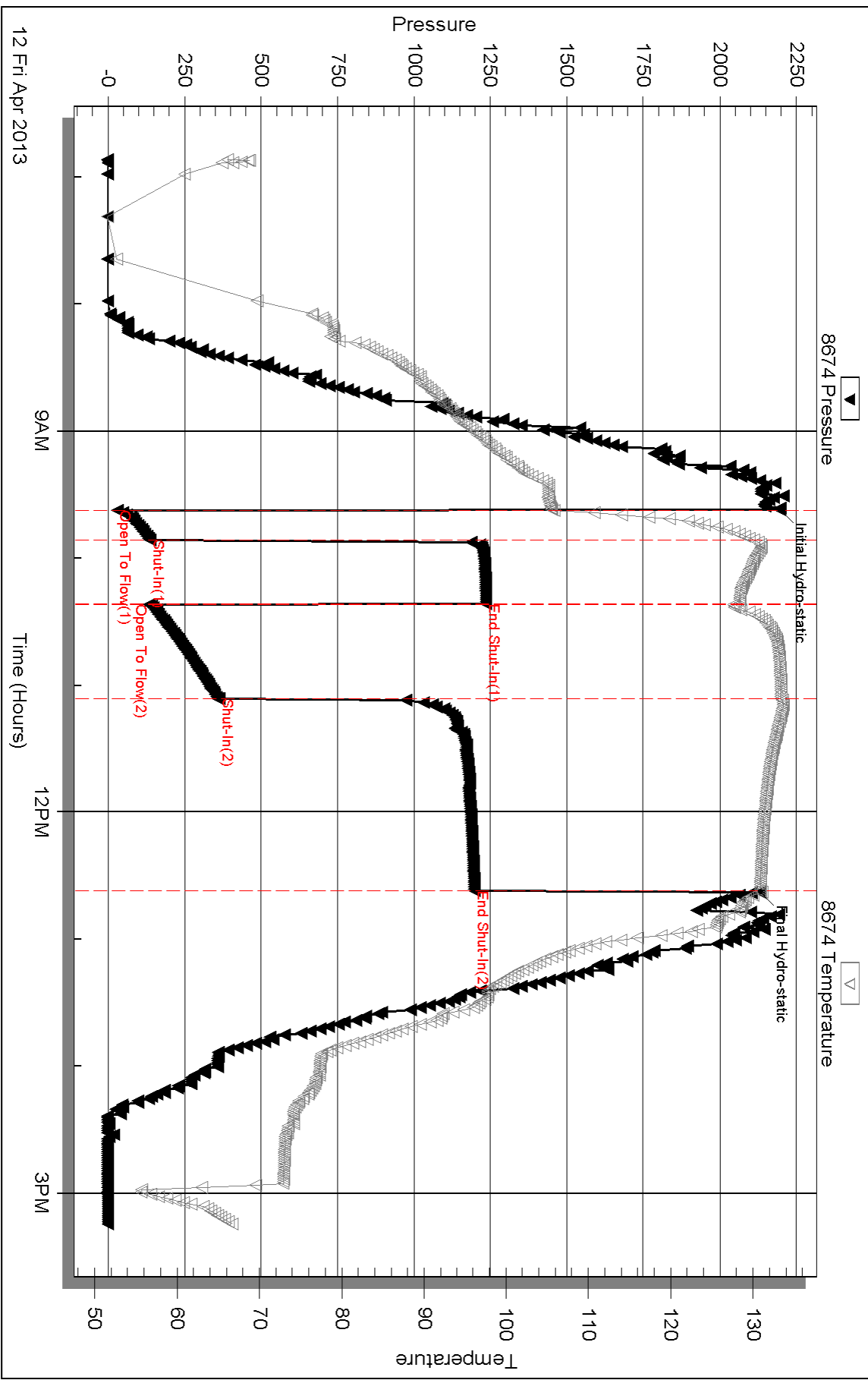
Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49122

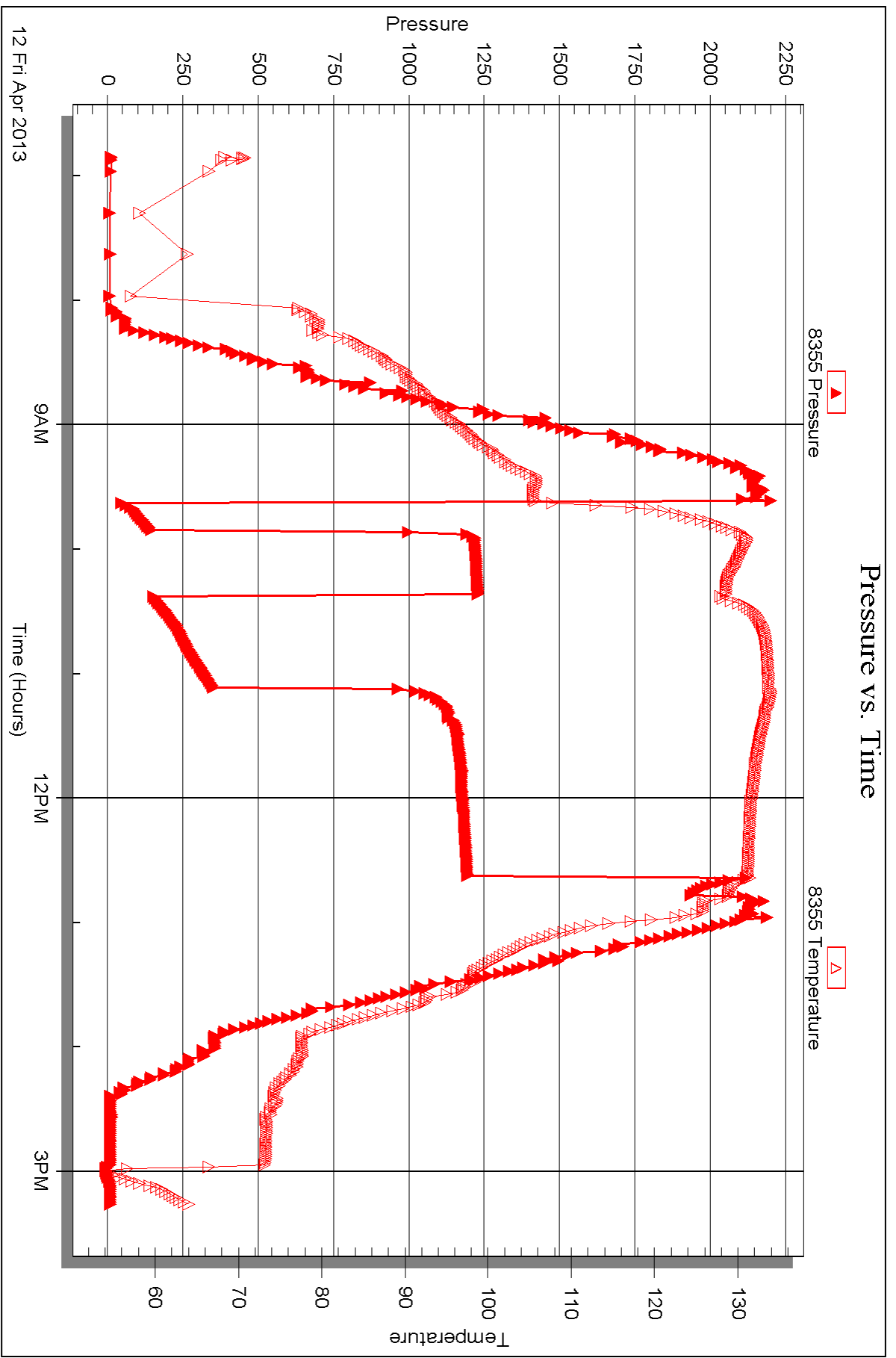
Printed: 2013.04.22 @ 14:08:45

Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 49122

Printed: 2013.04.22 @ 14:08:46



DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.13 @ 09:36:59

End Date: 2013.04.13 @ 17:29:14

Job Ticket #: 49123 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.22 @ 14:06:53



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49123

DST#: 6

ATTN: Tim Priest

Test Start: 2013.04.13 @ 09:36:59

GENERAL INFORMATION:

Formation: **Paw/MS/FS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:16:44

Time Test Ended: 17:29:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 58

Interval: 4475.00 ft (KB) To 4560.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 19.49 psig @ 4476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.13

End Date:

2013.04.13

Last Calib.: 2013.04.13

Start Time: 09:37:04

End Time:

17:29:13

Time On Btm: 2013.04.13 @ 12:16:29

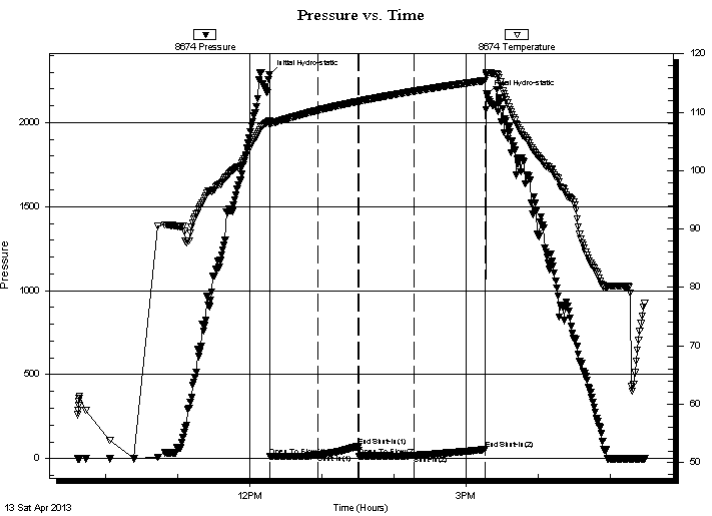
Time Off Btm: 2013.04.13 @ 15:17:14

TEST COMMENT: Weak surface blow built to 1/2"

Dead no blow

Dead no blow

Dead no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.07	108.44	Initial Hydro-static
1	14.26	107.80	Open To Flow (1)
41	22.40	110.32	Shut-In(1)
74	74.49	111.87	End Shut-In(1)
75	15.31	111.87	Open To Flow (2)
121	19.49	113.60	Shut-In(2)
180	54.57	115.43	End Shut-In(2)
181	2168.33	116.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49123

DST#: 6

ATTN: Tim Priest

Test Start: 2013.04.13 @ 09:36:59

Tool Information

Drill Pipe:	Length: 4351.00 ft	Diameter: 3.80 inches	Volume: 61.03 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: 20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4475.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4456.00	
Shut In Tool	5.00			4461.00	
Hydraulic tool	5.00			4466.00	
Packer	5.00			4471.00	20.00 Bottom Of Top Packer
Packer	4.00			4475.00	
Stubb	1.00			4476.00	
Recorder	0.00	8355	Outside	4476.00	
Recorder	0.00	8674	Inside	4476.00	
Perforations	19.00			4495.00	
Change Over Sub	1.00			4496.00	
Drill Pipe	60.00			4556.00	
Change Over Sub	1.00			4557.00	
Bullnose	3.00			4560.00	85.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49123

DST#: 6

ATTN: Tim Priest

Test Start: 2013.04.13 @ 09:36:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	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:

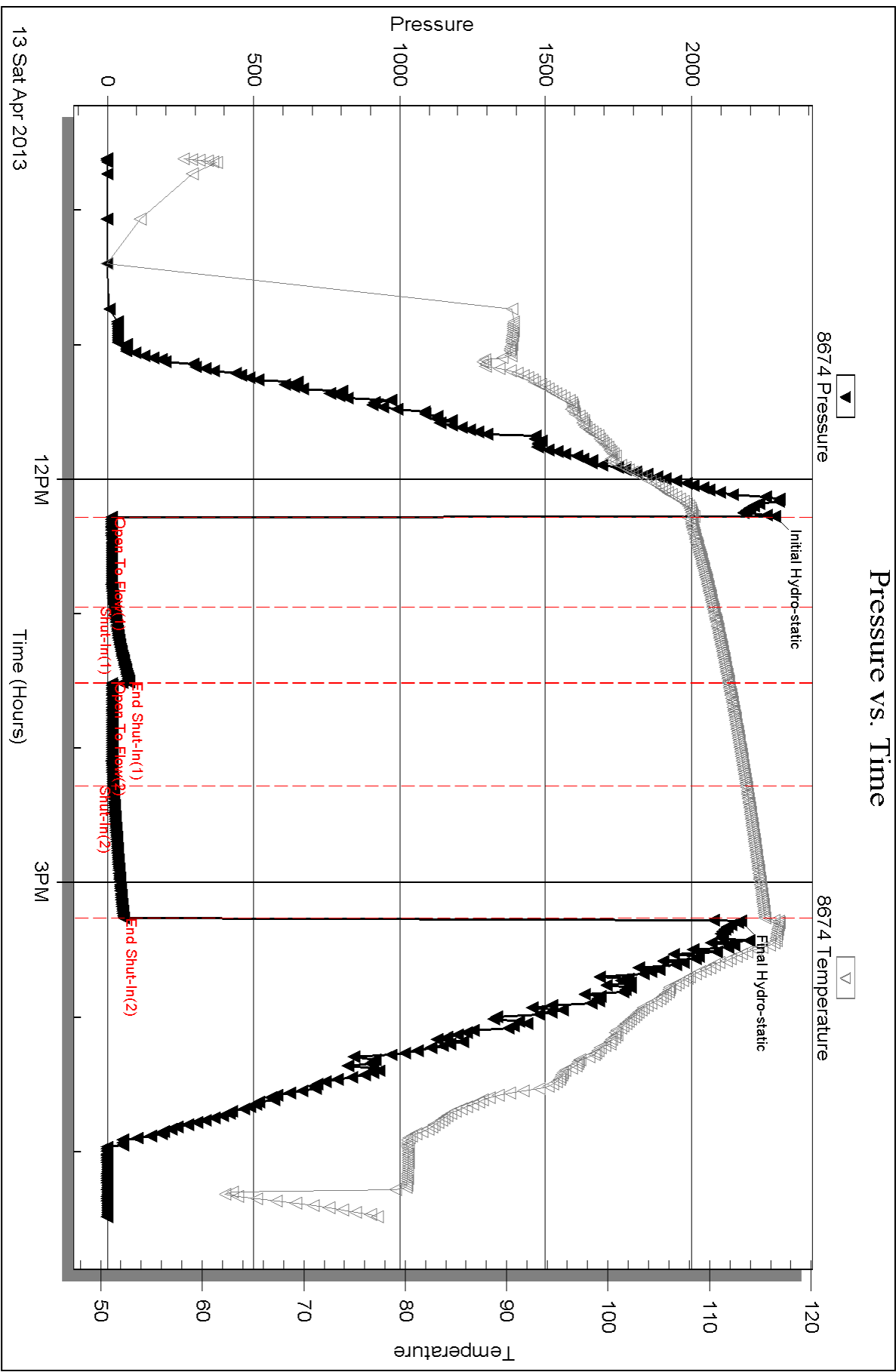
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 6

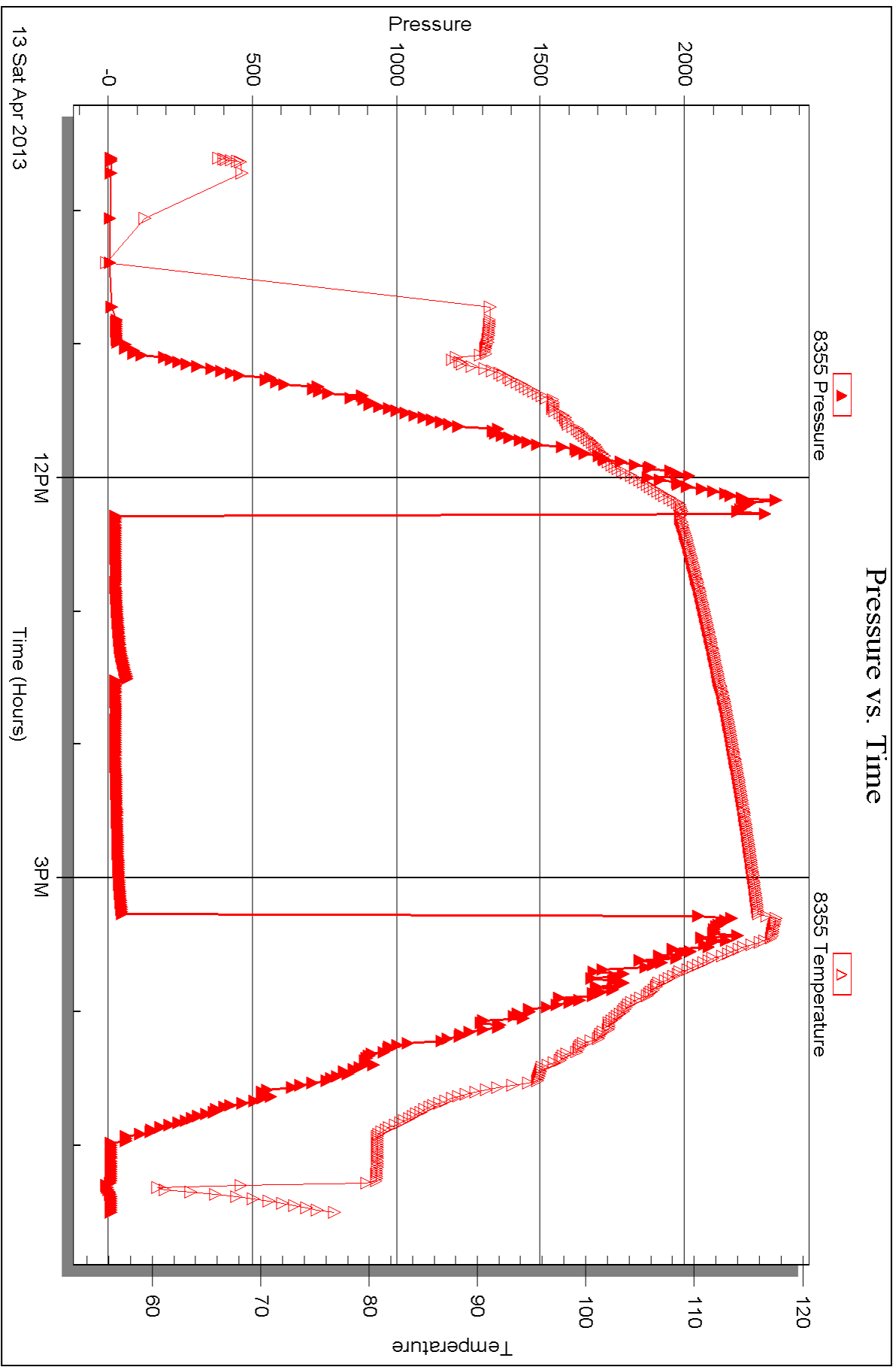


Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.14 @ 17:42:03

End Date: 2013.04.15 @ 01:58:03

Job Ticket #: 49124 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.22 @ 14:06:12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49124

DST#: 7

ATTN: Tim Priest

Test Start: 2013.04.14 @ 17:42:03

GENERAL INFORMATION:

Formation: **Marrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:12:48

Time Test Ended: 01:58:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 58

Interval: 4635.00 ft (KB) To 4703.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4703.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 86.52 psig @ 4636.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.14

End Date:

2013.04.15

Last Calib.: 2013.04.15

Start Time: 17:42:08

End Time:

01:58:02

Time On Btm: 2013.04.14 @ 20:12:33

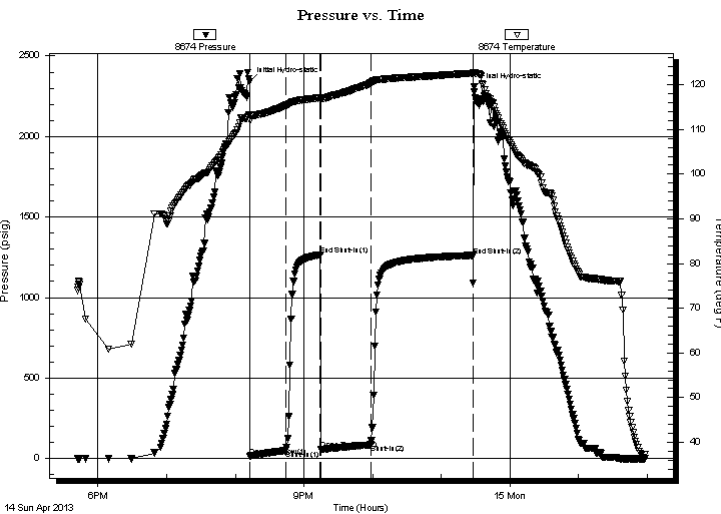
Time Off Btm: 2013.04.14 @ 23:28:33

TEST COMMENT: Weak surface blow built to 1 1/2"

Dead no blow back

Fair surface blow built to 6"

Weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2343.47	113.30	Initial Hydro-static
1	15.26	112.09	Open To Flow (1)
32	50.00	115.36	Shut-In(1)
62	1265.91	117.14	End Shut-In(1)
63	56.74	116.80	Open To Flow (2)
106	86.52	120.38	Shut-In(2)
195	1261.81	122.61	End Shut-In(2)
196	2306.53	122.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	5%G 20%O 75%M	0.30
60.00	5%G 20%M 75%O	0.30
65.00	25%G 75%O	0.91
0.00	175 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49124

DST#: 7

ATTN: Tim Priest

Test Start: 2013.04.14 @ 17:42:03

Tool Information

Drill Pipe:	Length: 4500.00 ft	Diameter: 3.80 inches	Volume: 63.12 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: 20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 63.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4635.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4616.00	
Shut In Tool	5.00			4621.00	
Hydraulic tool	5.00			4626.00	
Packer	5.00			4631.00	20.00 Bottom Of Top Packer
Packer	4.00			4635.00	
Stubb	1.00			4636.00	
Recorder	0.00	8355	Outside	4636.00	
Recorder	0.00	8674	Inside	4636.00	
Perforations	32.00			4668.00	
Change Over Sub	1.00			4669.00	
Drill Pipe	30.00			4699.00	
Change Over Sub	1.00			4700.00	
Bullnose	3.00			4703.00	68.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49124

DST#: 7

ATTN: Tim Priest

Test Start: 2013.04.14 @ 17:42:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	5%G 20%O 75%M	0.295
60.00	5%G 20%M 75%O	0.304
65.00	25%G 75%O	0.912
0.00	175 GIP	0.000

Total Length: 185.00 ft Total Volume: 1.511 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: AIP 26 @ 50 F = 27

Serial #: 8674

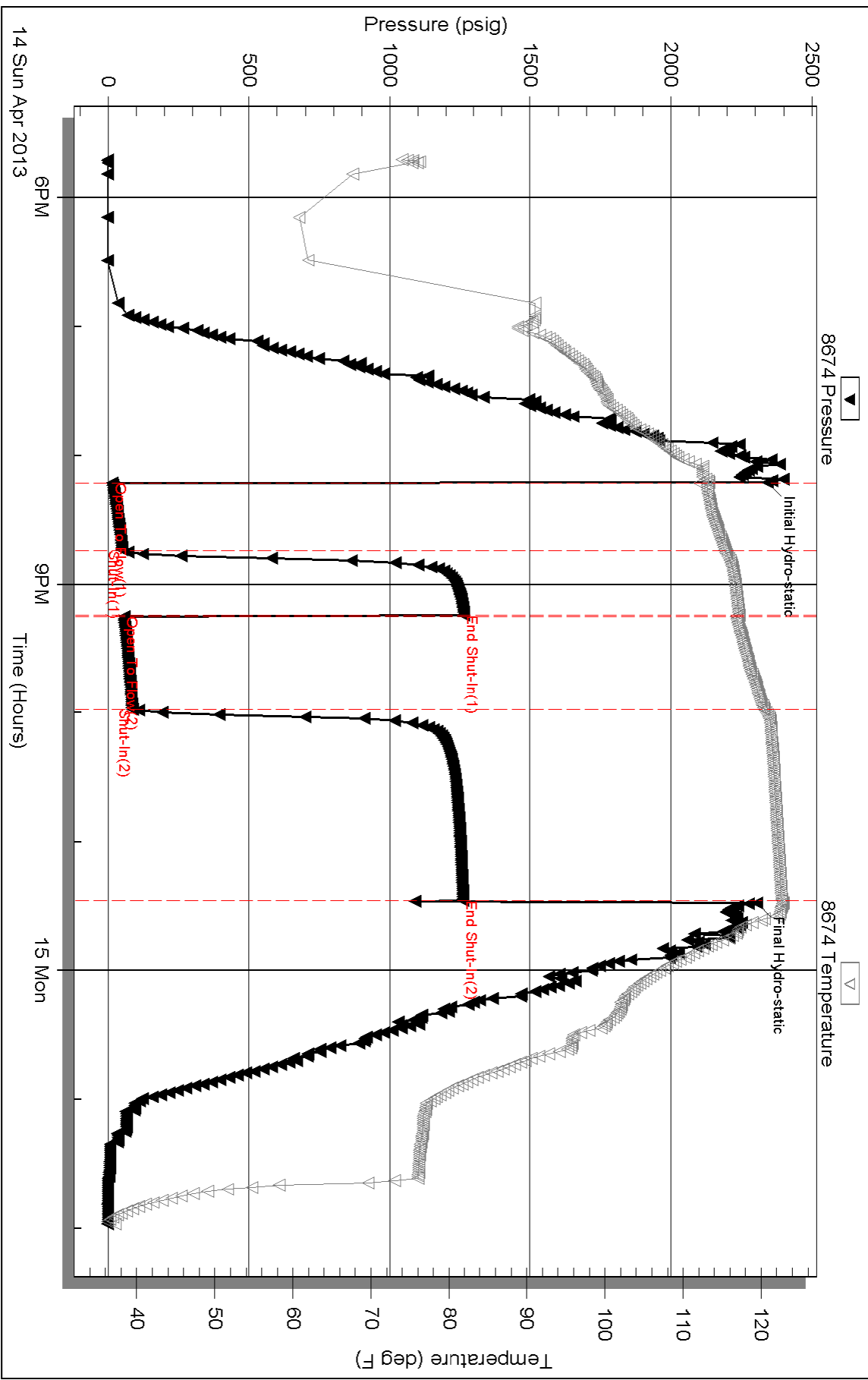
Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 7

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49124

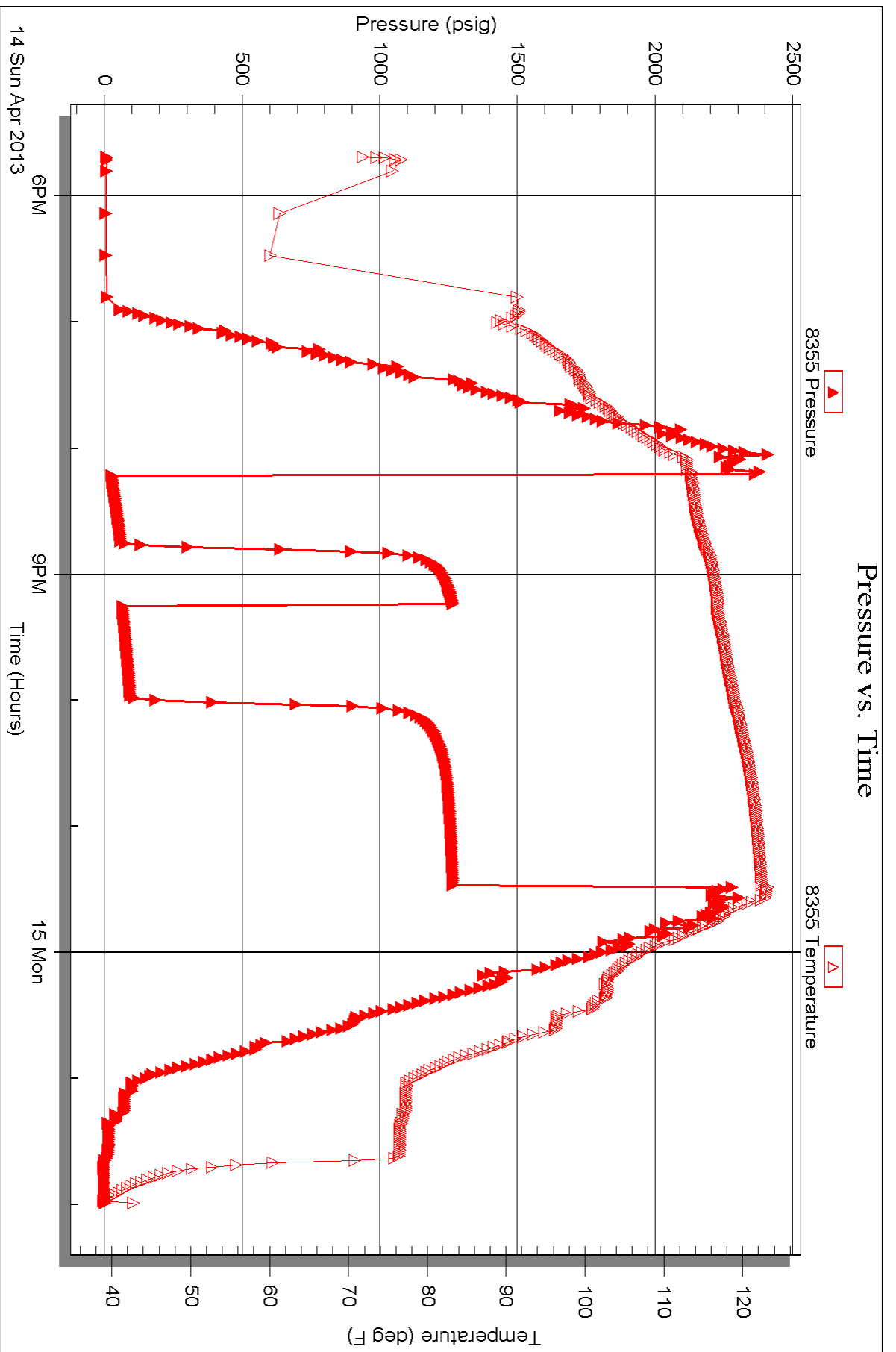
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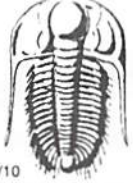
Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 7





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49228

Well Name & No. Rudolph #1-22 Test No. DST #1 Date 4-7-13
 Company Shakespeare Oil Co. Inc Elevation 3033 KB 3025 GL
 Address 202 W. Main St. Salem IL 62881
 Co. Rep / Geo. Tim Priest Rig H-D Rig #2
 Location: Sec. 22 Twp. 17s Rge. 33W Co. Scott State KS

Interval Tested 4014-4055 Zone Tested LKC "B-C"
 Anchor Length 41' Drill Pipe Run 3895 Mud Wt. 8.9
 Top Packer Depth 4010 Drill Collars Run 119 Vis 51
 Bottom Packer Depth 4014 Wt. Pipe Run 0 WL 6.8
 Total Depth 4055 Chlorides 3000 ppm System LCM 21b
 Blow Description IF - Surface Blow Built to BOB in 219 min
ISI - No Blow
FF - Surface Blow Built to BOB in 234 min
FST - No Blow

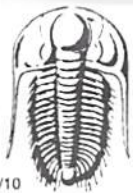
Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>MCW</u>		<u>51</u>	<u>49</u>	
<u>248</u>	<u>MCW</u>		<u>71</u>	<u>21</u>	
<u>186</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
<u>1049</u>	<u>MCW</u>		<u>97</u>	<u>3</u>	

Rec Total 1798 BHT 124 Gravity ✓ API RW 1 @ 78 ° F Chlorides 5300 ppm

(A) Initial Hydrostatic 1959 Test 1250 T-On Location 8:22
 (B) First Initial Flow 101 Jars _____ T-Started 8:50
 (C) First Final Flow 426 Safety Joint _____ T-Open 10:54
 (D) Initial Shut-In 1016 Circ Sub NIC T-Pulled 13:16
 (E) Second Initial Flow 440 Hourly Standby _____ T-Out 16:04
 (F) Second Final Flow 807 Mileage 20 RIT 31 Comments RW is 1165 @ 68F = 44000
 (G) Final Shut-In 1018 Sampler _____
 (H) Final Hydrostatic 1929 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1531
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1531

Approved By _____ Our Representative Tim Masten

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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49229

Well Name & No. Rudolph #1-22 Test No. DST #2 Date 4-8-13
 Company Shakespeare Oil Co. Inc Elevation 3033 KB 3025 GL
 Address 202 W. Main St Salem IL 62881
 Co. Rep / Geo. Tim Prrest Rig H-D Rig #2
 Location: Sec. 22 Twp. 17s Rge. 33w Co. Scott State KS

Interval Tested 4068-4092 Zone Tested LRC "D"
 Anchor Length 24 Drill Pipe Run 3894 Mud Wt. 9.2
 Top Packer Depth 4068 Drill Collars Run 178 Vis 57
 Bottom Packer Depth 4092 Wt. Pipe Run 0 WL 6.4
 Total Depth 4100 Chlorides 4000 ppm System LCM 216
 Blow Description IF - Weak Surface Blow Built to 4"
ISI - No Blow
FF - Weak Surface Blow Built to 1 1/4"
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
40	Oil		100		
82	OWCM		12	20	68
60	OWCM		8	34	58
60	G-OMCW	4	7	61	28
120	G-OMCW	4	2	72	22

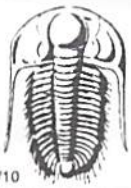
Rec Total 362 BHT 114 Gravity API RW-207 @ 73 °F Chlorides 34000 ppm

(A) Initial Hydrostatic 2004 Test 1050 T-On Location 9:28
 (B) First Initial Flow 15 Jars _____ T-Started 10:04
 (C) First Final Flow 91 Safety Joint _____ T-Open 12:09
 (D) Initial Shut-In 1038 Circ Sub N/C T-Pulled 15:01
 (E) Second Initial Flow 93 Hourly Standby _____ T-Out 17:49
 (F) Second Final Flow 134 Mileage 31 Comments API is 22 @ 70f = 21
 (G) Final Shut-In 1038 Sampler _____
 (H) Final Hydrostatic 1807 Straddle 600 Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1931
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1931

Approved By _____

Our Representative Will Mar

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49230

Well Name & No. Rudolph #1-22 Test No. DST #3 Date 4-10-13
 Company Shakespeare Oil Co. Inc Elevation 3033 KB 3025 GL
 Address 202 W. Main St Salem IL 62881
 Co. Rep / Geo. Tim Priest Rig H-D Rigs #2
 Location: Sec. 22 Twp. 17s Rge. 33W Co. Scott State KS

Interval Tested 4305-4340 Zone Tested LKC "L"
 Anchor Length 35 Drill Pipe Run 4172 Mud Wt. 9.3
 Top Packer Depth 4301 Drill Collars Run 119 Vis 50
 Bottom Packer Depth 4305 Wt. Pipe Run 0 WL 7.4
 Total Depth 4340 Chlorides 5800 ppm System LCM 216
 Blow Description IF- Surface Blow Built to BOB in 2min
ISI- No Blow
FF- Surface Blow Built to BOB in 2 3/4 min
FSI- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>206</u>	<u>Feet of WCM with a few oil spots</u>			<u>27</u>	<u>73</u>
<u>248</u>	<u>Feet of WCM</u>			<u>45</u>	<u>55</u>
<u>496</u>	<u>Feet of MCW</u>			<u>86</u>	<u>14</u>
<u>863</u>	<u>Feet of MCW</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 122 Gravity _____ API RW 218 @ 43 ° F Chlorides 55000 ppm

(A) Initial Hydrostatic 216.7 Test 1250 T-On Location 5:08
 (B) First Initial Flow 135 Jars T-Started 6:46
 (C) First Final Flow 420 Safety Joint T-Open 10:21
 (D) Initial Shut-In 1113 Circ Sub NIC T-Pulled _____
 (E) Second Initial Flow 437 Hourly Standby T-Out 15:47
 (F) Second Final Flow 787 Mileage 20 R/T x 2 ⁶² Comments _____
 (G) Final Shut-In 1128 Sampler _____ sent home while rig made repairs
 (H) Final Hydrostatic 2035 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1562
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1562

Approved By _____ Our Representative Will Marshall

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49231

Well Name & No. _____ Test No. DST #4 Date 4-11-13
 Company Shakespeare Oil Co. Inc Elevation 3033 KB 3025 GL _____
 Address 202 W Main St Salem IL 62881
 Co. Rep / Geo. Tim Priest Rig H-D Ris # 2
 Location: Sec. 22 Twp. 17s Rge. 33w Co. Scott State KS

Interval Tested 4378 - 4427 Zone Tested Marmanton
 Anchor Length 49 Drill Pipe Run 4261 Mud Wt. 9.4
 Top Packer Depth 4374 Drill Collars Run 119 Vis 58
 Bottom Packer Depth 4378 Wt. Pipe Run 0 WL 7.6
 Total Depth 4427 Chlorides 6800 ppm System LCM 216
 Blow Description IF - Weak Surface Blow Died in 9min
ISI - No Blow
FF - No Blow
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud / Few Oil spots in Tool</u>			<u>100</u>	
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

Rec Total 20 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2202 Test 1250 T-On Location 7:02
 (B) First Initial Flow 24 Jars _____ T-Started 7:28
 (C) First Final Flow 27 Safety Joint _____ T-Open 10:08
 (D) Initial Shut-In 37 Circ Sub NIC T-Pulled 12:45
 (E) Second Initial Flow 26 Hourly Standby _____ T-Out 15:04
 (F) Second Final Flow 28 Mileage 20 RIT 31 Comments _____
 (G) Final Shut-In 48 Sampler _____
 (H) Final Hydrostatic 2127 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1531
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1531

Approved By _____ Our Representative Will Martin

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49122

Well Name & No. Rudolph #1-22 Test No. 5 Date 4-12-13
 Company Shakespeare Oil Co. Inc. Elevation 3033 KB 3025 GL
 Address 202 W Main St. Salem IL 62881
 Co. Rep / Geo. Tim Priest Rig HD Rig #2
 Location: Sec. 22 Twp. 17 S Rge. 33 W Co. Scott State KS

Interval Tested 4430 4455 Zone Tested Marioneton "B"
 Anchor Length 25 Drill Pipe Run 4322 Mud Wt. 9.4
 Top Packer Depth 4426 Drill Collars Run 119 Vis 58
 Bottom Packer Depth 4430 Wt. Pipe Run 0 WL 7.6
 Total Depth 4455 Chlorides 6800 ppm System LCM 27

Blow Description B.O.B. In 10 mins
Dead no blow back
B.O.O. In 10 mins
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>420</u>	<u>15mCW</u>		<u>98</u>	<u>2</u>	
<u>180</u>	<u>MCW</u>		<u>85</u>	<u>15</u>	
<u>160</u>	<u>WCM</u>		<u>40</u>	<u>60</u>	
<u>60</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>30</u>					

Rec Total 820 BHT 131 Gravity ≠ API RW 152 @ 68 °F Chlorides 547000 ppm

(A) Initial Hydrostatic 2196 Test 1250 T-On Location 6:18
 (B) First Initial Flow 31 Jars T-Started 6:51
 (C) First Final Flow 138 Safety Joint 1 T-Open 9:37
 (D) Initial Shut-In 1237 Circ Sub N/C T-Pulled 12:37
 (E) Second Initial Flow 135 Hourly Standby T-Out 15:15
 (F) Second Final Flow 363 Mileage 20 R/T 31 Comments _____
 (G) Final Shut-In 1199 Sampler _____
 (H) Final Hydrostatic 2132 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1531
 Sub Total 1531 MP/DST Disc't _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 90

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49123

Well Name & No. Rudolph #1-22 Test No. 6 Date 4-13-13
 Company Shakespeare Oil Co. Inc. Elevation 3033 KB 3025 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig HD Rig #2
 Location: Sec. 22 Twp. 17S Rge. 33W Co. Scott State KS

Interval Tested 4475 4560 Zone Tested Pawnee Ft Scott Myrick Station
 Anchor Length _____ 85' Drill Pipe Run 4351 Mud Wt. 9.2
 Top Packer Depth _____ 4471 Drill Collars Run 119 Vis 56
 Bottom Packer Depth _____ 4475 Wt. Pipe Run 0 WL 8.0
 Total Depth _____ 4560 Chlorides 7000 ppm System LCM 1/2"
 Blow Description Weak surface blow built to 1/2 in.
Dead no blow back
Dead no blow
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>Mud</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 116 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2284</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>8:57</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>N/C</u>	T-Started <u>9:36</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>12:17</u>
(D) Initial Shut-In <u>74</u>	<input checked="" type="checkbox"/> Circ Sub <u>W/C</u>	T-Pulled <u>15:17</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:30</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>20 R/T</u> 31	Comments _____
(G) Final Shut-In <u>55</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2168</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1531</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1531</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49124

Well Name & No. Rudolph #1-25 Test No. 7 Date 4-14-13
 Company Shakespeare Oil Co. Inc. Elevation 3033 KB 3025 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig HD Rig # 2
 Location: Sec. 22 Twp. 17S Rge. 33W Co. Scott State KS

Interval Tested 4635 4703 Zone Tested Marrow
 Anchor Length _____ 68' Drill Pipe Run 4500 Mud Wt. 9.1
 Top Packer Depth _____ 4631 Drill Collars Run 2119 Vis 56
 Bottom Packer Depth _____ 4635 Wt. Pipe Run 0 WL 8.0
 Total Depth _____ Chlorides 7000 ppm System LCM 1

Blow Description Weak surface blow built to 1 1/2 in
Dead no blow back
Fair blow built to 6 in.
Weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>MCGO</u>	<u>5</u>	<u>20</u>	<u>75</u>	
<u>60</u>	<u>MCGO</u>	<u>5</u>	<u>75</u>	<u>20</u>	
<u>65</u>	<u>60</u>	<u>25</u>	<u>75</u>		
____	____	____	____	____	____
<u>0</u>	<u>175' GIP</u>	<u>100</u>	____	____	____
Rec Total <u>185</u>	BHT <u>123</u>	Gravity <u>27</u>	API RW <u>26</u>	@ <u>50</u> °F	Chlorides _____ ppm

(A) Initial Hydrostatic 2343 Test 1250 T-On Location 16:40
 (B) First Initial Flow 15 Jars _____ T-Started 17:42
 (C) First Final Flow 50 Safety Joint _____ T-Open 20:15
 (D) Initial Shut-In 1266 Circ Sub NIC T-Pulled 23:30
 (E) Second Initial Flow 57 Hourly Standby _____ T-Out 2:00 (4-15)
 (F) Second Final Flow 87 Mileage 20 R/T 62 Comments _____
 (G) Final Shut-In 1262 Sampler _____ loaded tools @ 11:30 on 4/15
 (H) Final Hydrostatic 2307 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1562
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1562

Approved By _____ Our Representative [Signature]

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