

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	ANDERSON 1-33
Doc ID	1317570

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	ANDERSON 1-33
Doc ID	1317570

Tops

Name	Top	Datum
Base Anhydrite	2578	+206
Heebner	3844	-1060
Lansing	3893	-1109
Muncie Creek	3989	-1205
Stark Shale	4043	-1259
BKC	4091	-1307
Marmaton	4128	-1344
Cherokee Shale	4250	-1466
Mississippian	4410	-1626

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	ANDERSON 1-33
Doc ID	1317570

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	264	Class A	175	3% CaCl ₂ , 2% gel

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEARE OIL CO.**

LEASE **ANDERSON L-33**

FIELD **Wildcat**

LOCATION **1090' FSL, 1135' FWL**

SEC **33** TWP **4S** RGE **29W**

COUNTY **Decatur** STATE **Kansas**

CONTRACTOR **Duke Drilling Rig #4**

SPUD **9-6-16** COMP **9-16-16**

RTD **4500'** LTD **4504'**

MUD UP **3400'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3600'** to RTD

DRILLING TIME KEPT FROM **3600'** to RTD

SAMPLES EXAMINED FROM **3600'** to RTD

GEOLOGICAL SUPERVISION FROM **3700'** to RTD

GEOLOGIST ON WELL **Tim Priest**

By: **Micro, Sonic**

FORMATION TOPS

ANhydrite

Heebner Shale

Lansing

B/KC

Fort Scott

Cherokee Shale

Mississippian

ELEVATIONS

KB **2784'**

DF _____

GL **2775'**

Measurements Are All From **KB**

CASING

CONDUCTION **N/A**

SURFACE **8-5/8" @ 264'**

PRODUCTION **None**

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

Electrical

REMARKS Due to the negative drill stem results and lack of other shows, it was decided to plug and abandon the well.

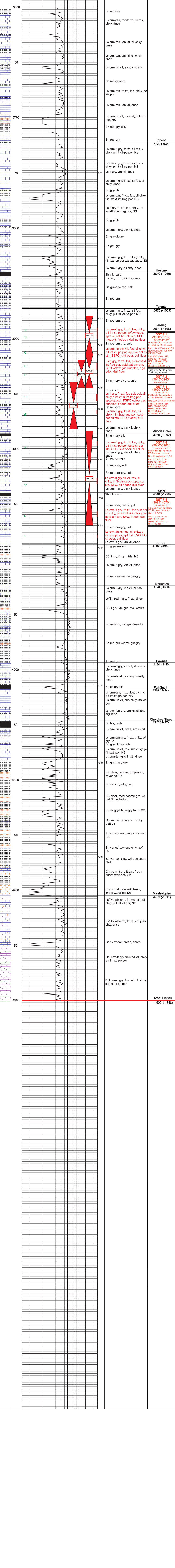
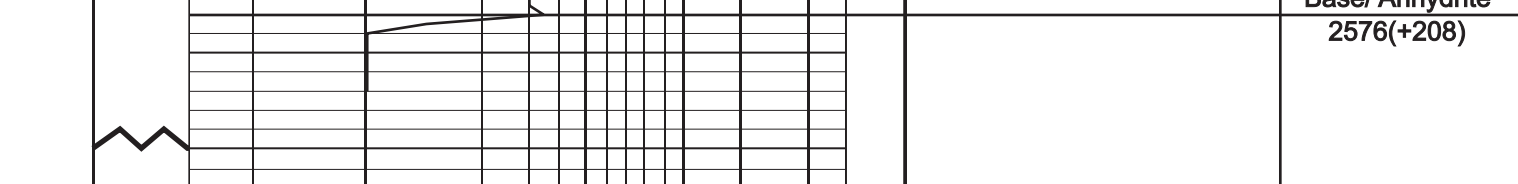
Respectfully Submitted,

Tim Priest

Petroleum Geologist

API #15-039-21233-0000

LEGEND





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

202 W Main St
Salem, IL 62881

ATTN: Tim Priest

33/4s/29w Decatur KS

Anderson #1-33

Job Ticket: 62685

DST#: 1

Test Start: 2016.09.12 @ 04:12:00

GENERAL INFORMATION:

Formation: **Lans. "A - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:11:00

Time Test Ended: 11:38:45

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 3880.00 ft (KB) To 3915.00 ft (KB) (TVD)

Reference Elevations: 2784.00 ft (KB)

Total Depth: 3915.00 ft (KB) (TVD)

2774.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press@RunDepth: 131.88 psig @ 3881.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.12

End Date:

2016.09.12

Last Calib.: 2016.09.12

Start Time: 04:12:05

End Time:

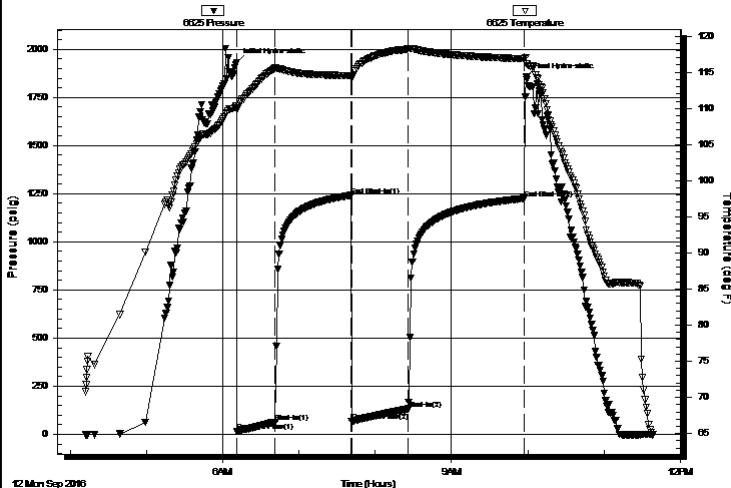
11:38:44

Time On Btm: 2016.09.12 @ 06:10:45

Time Off Btm: 2016.09.12 @ 09:59:00

TEST COMMENT: 30 - IF: 1/2" Blow at open, built to BOB (11") at 30 min.
60 - ISI: No blow back
45 - FF: Blow started at 2 min., built to BOB at 42 min.
90 - FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1930.26	110.32	Initial Hydro-static
1	14.58	109.98	Open To Flow (1)
31	62.88	115.57	Shut-In(1)
90	1240.95	114.54	End Shut-In(1)
91	66.08	114.29	Open To Flow (2)
136	131.88	118.25	Shut-In(2)
227	1225.49	116.87	End Shut-In(2)
229	1855.24	116.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	SMCW 92%w , 8%m	1.75
150.00	MCW w/trace oil 69%w , 31%m	2.10

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Shakespeare Oil Co., Inc.

ATTN: Tim Priest

Anderson #1-33

DST#: 1

Test Start: 2016.09.12 @ 04:12:00

KB to GR/CF: 10.00 ft



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

33/4s/29w Decatur KS

202 W Main St
Salem, IL 62881

Anderson #1-33

Job Ticket: 62685

DST#: 1

ATTN: Tim Priest

Test Start: 2016.09.12 @ 04:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 6.40 in³

Resistivity: ohm.m

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 38000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	SMCW 92%w , 8%m	1.753
150.00	MCW w /trace oil 69%w , 31%m	2.104

Total Length: 275.00 ft Total Volume: 3.857 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .205 ohms @ 66 deg F

Chlorides = 38,000 ppm

Serial #: 6625

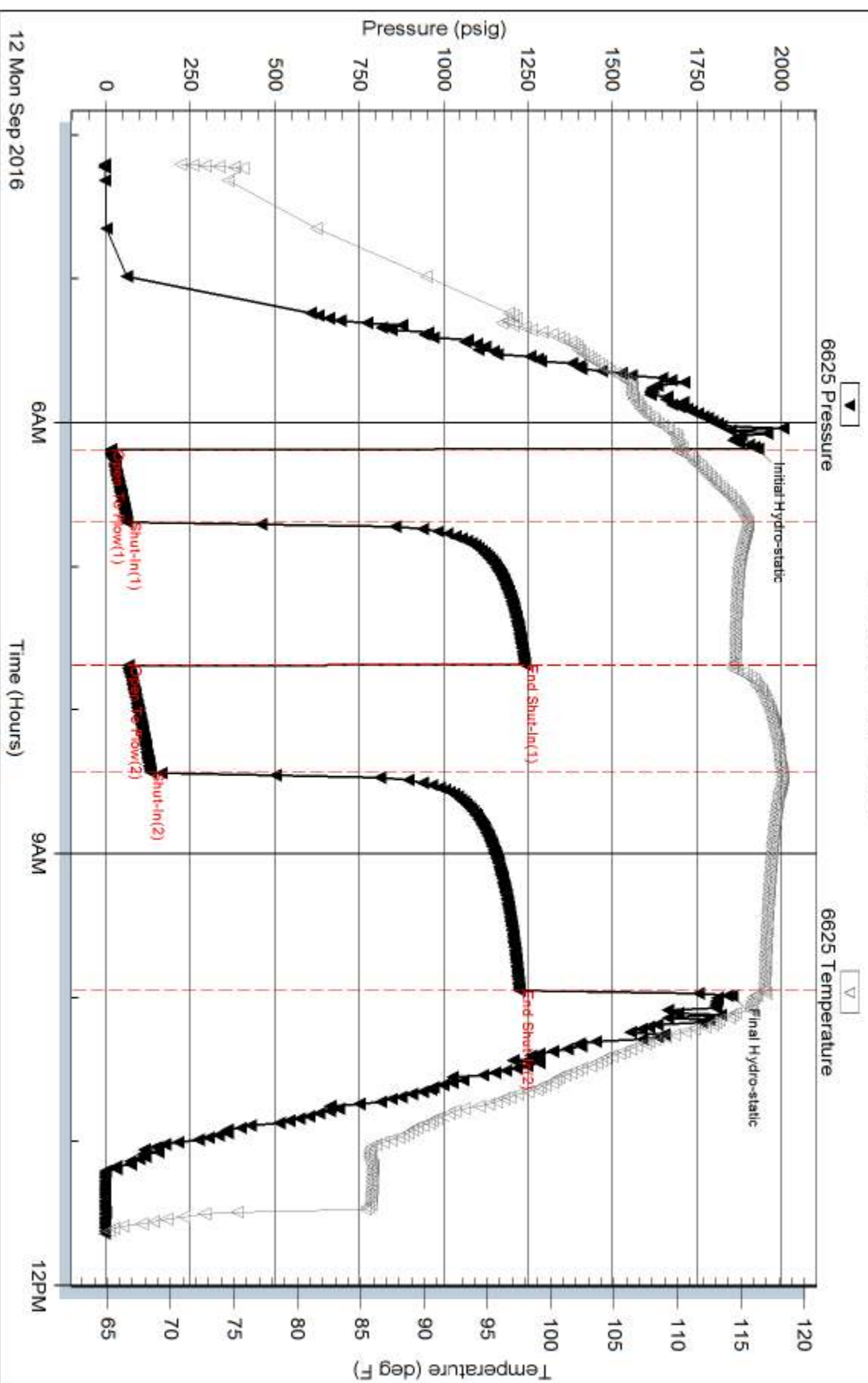
Inside

Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 1

Pressure vs. Time

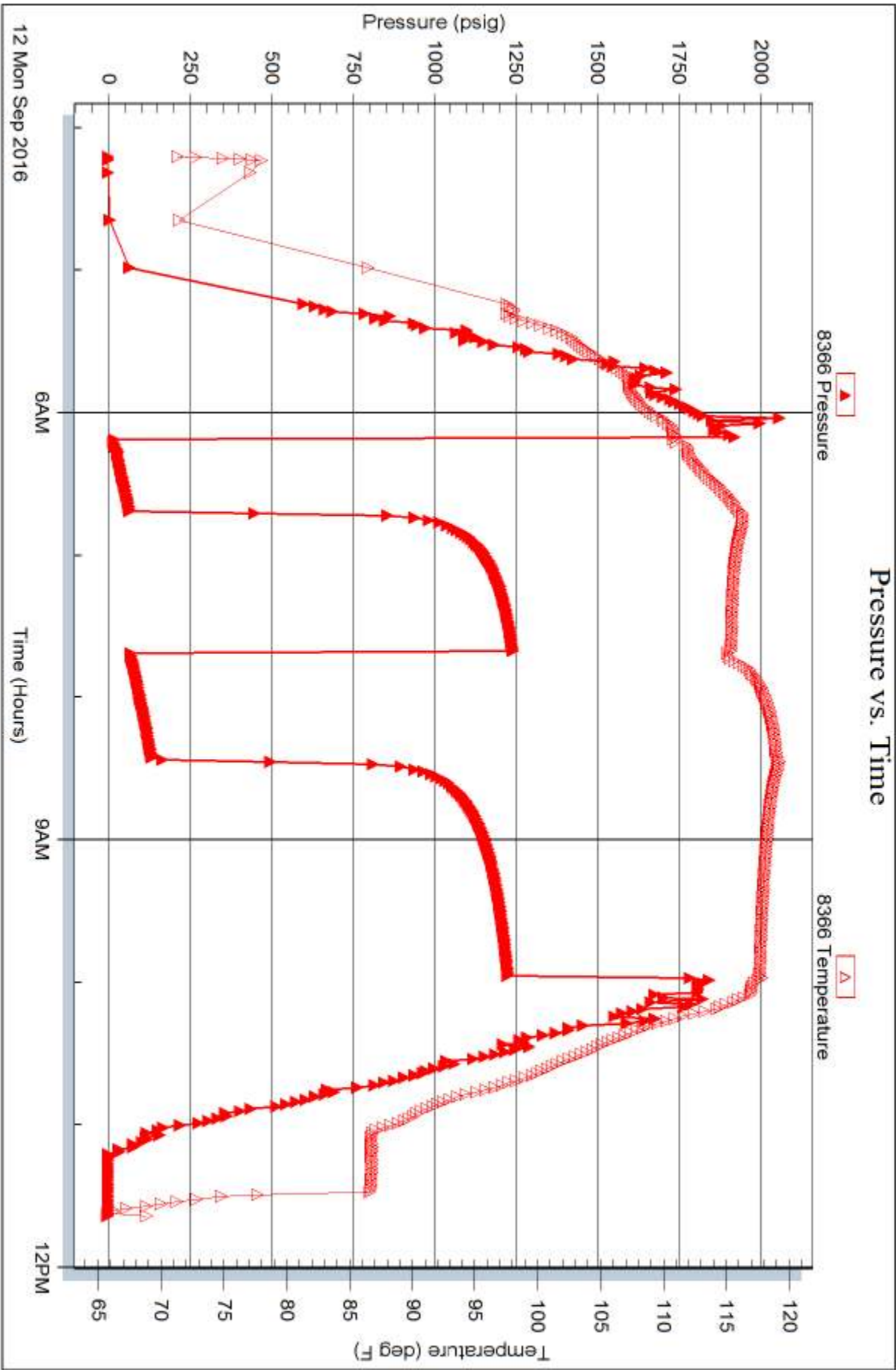


Serial #: 8366

Outside Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

202 W Main St
Salem, IL 62881

ATTN: Tim Priest

33/4s/29w Decatur KS

Anderson #1-33

Job Ticket: 62687

DST#: 3

Test Start: 2016.09.12 @ 23:56:00

GENERAL INFORMATION:

Formation: **Lans. "D - E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:21:30

Time Test Ended: 07:14:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3920.00 ft (KB) To 3945.00 ft (KB) (TVD)

Total Depth: 3945.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2784.00 ft (KB)

2774.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press@RunDepth: 125.50 psig @ 3921.00 ft (KB)

Start Date: 2016.09.12

End Date:

2016.09.13

Start Time: 23:56:05

End Time:

07:13:59

Capacity: 8000.00 psig

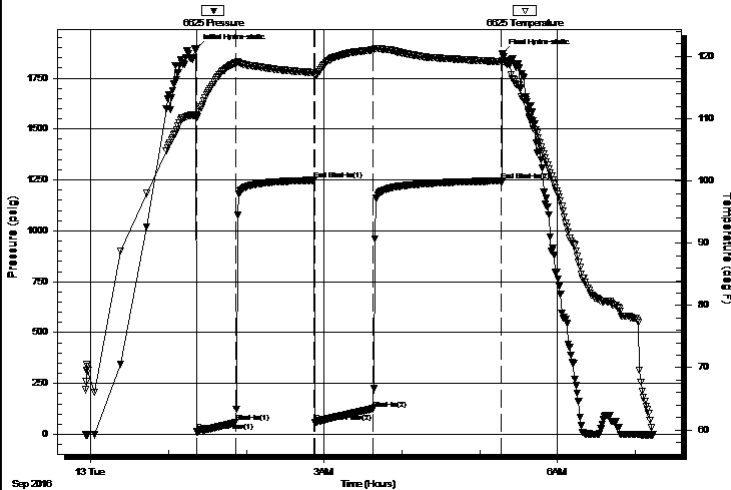
Last Calib.: 2016.09.13

Time On Btm: 2016.09.13 @ 01:21:15

Time Off Btm: 2016.09.13 @ 05:17:30

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 9 1/4"
60 - ISI: No blow back
45 - FF: Blow started at 2 min., built to BOB (11") at 44 min.
90 - FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.39	110.46	Initial Hydro-static
1	12.68	110.12	Open To Flow (1)
31	57.22	118.99	Shut-In(1)
91	1248.76	117.40	End Shut-In(1)
92	59.72	117.02	Open To Flow (2)
137	125.50	121.07	Shut-In(2)
236	1245.32	119.14	End Shut-In(2)
237	1870.38	119.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	MCW 82%w, 18%m	3.09

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

202 W Main St
Salem, IL 62881

ATTN: Tim Priest

33/4s/29w Decatur KS

Anderson #1-33

Job Ticket: 62687

DST#: 3

Test Start: 2016.09.12 @ 23:56:00

GENERAL INFORMATION:

Formation: **Lans. "D - E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:21:30

Time Test Ended: 07:14:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3920.00 ft (KB) To 3945.00 ft (KB) (TVD)

Total Depth: 3945.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2784.00 ft (KB)

2774.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8366 Outside

Press@RunDepth: psig @ 3921.00 ft (KB)

Start Date: 2016.09.12

End Date:

2016.09.13

Start Time: 23:56:05

End Time:

07:13:29

Capacity: 8000.00 psig

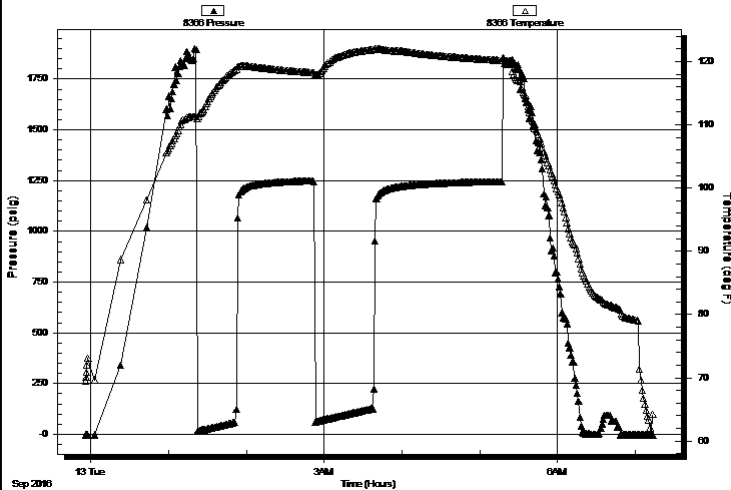
Last Calib.: 2016.09.13

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 9 1/4"
60 - IS: No blow back
45 - FF: Blow started at 2 min., built to BOB (11") at 44 min.
90 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
220.00	MCW 82%w, 18%m	3.09

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

33/4s/29w Decatur KS

202 W Main St
Salem, IL 62881

Anderson #1-33

Job Ticket: 62687

DST#: 3

ATTN: Tim Priest

Test Start: 2016.09.12 @ 23:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 6.38 in³

Resistivity: ohm.m

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	MCW 82%w, 18%m	3.086

Total Length: 220.00 ft Total Volume: 3.086 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .264 ohms @ 53.8 deg F

Chlorides = 36,000 ppm

Serial #: 6625

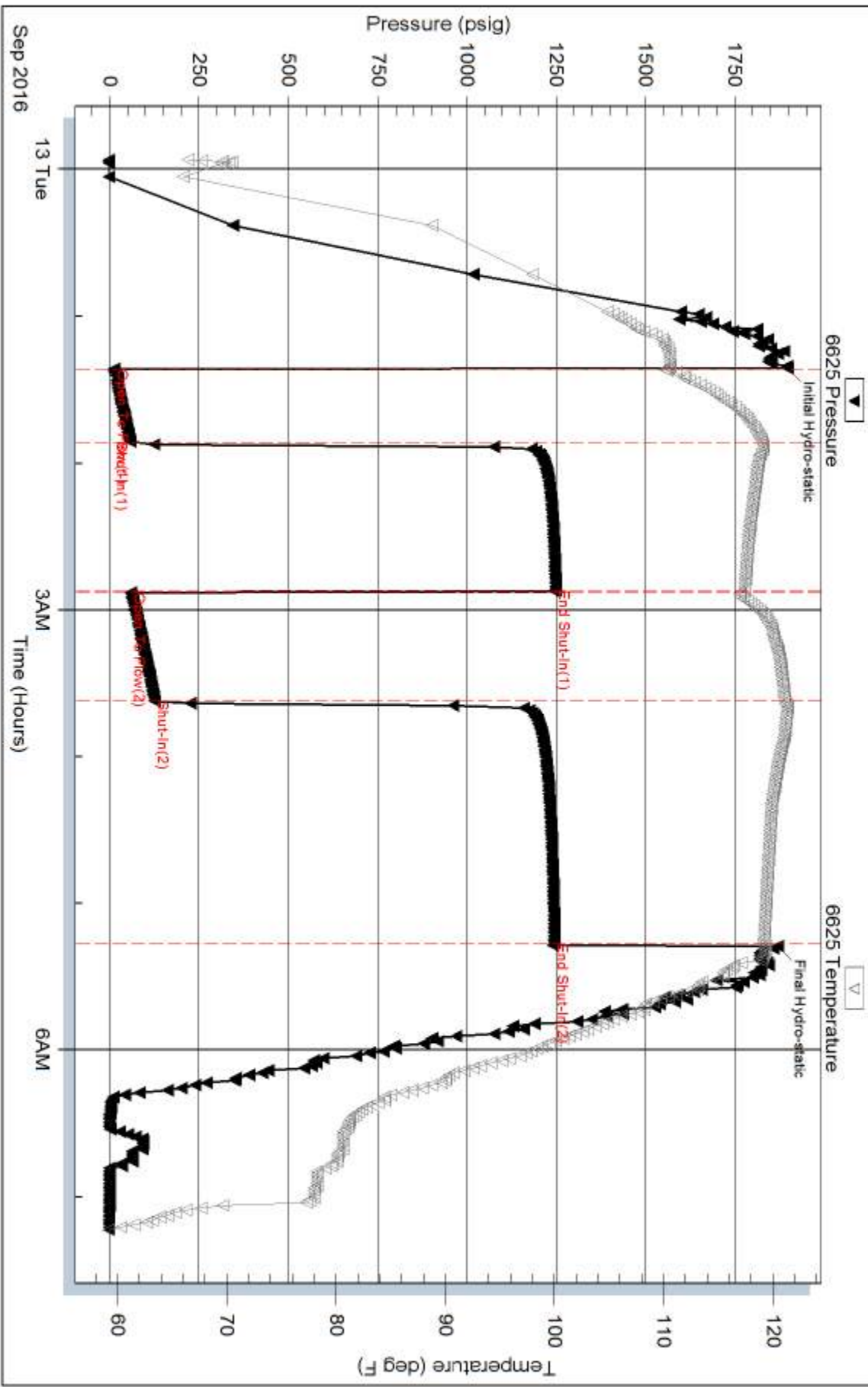
Inside

Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 62687

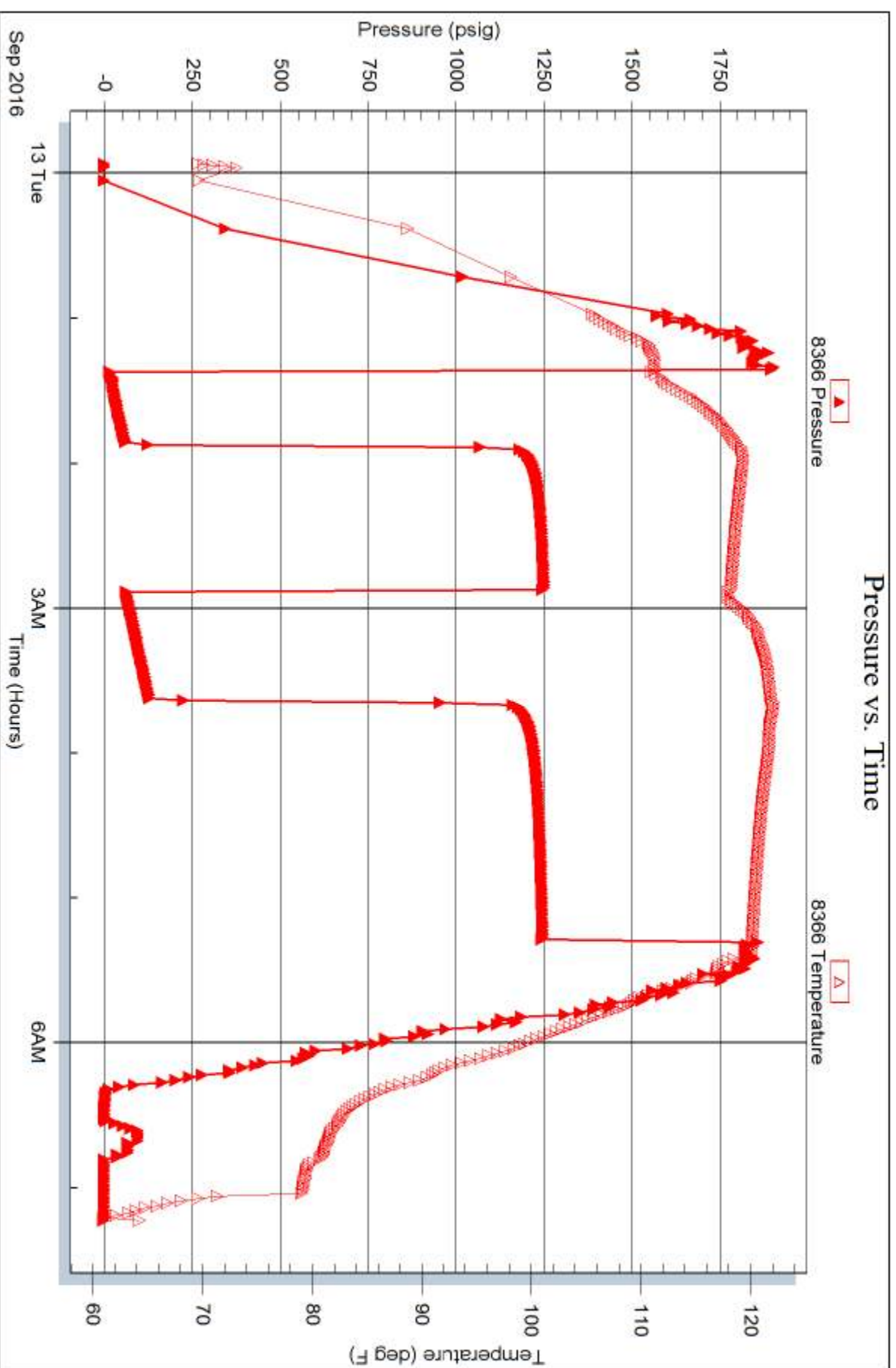
Printed: 2016.09.13 @ 08:10:52

Serial #: 8366

Outside Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 3





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

33/4s/29w Decatur KS

202 W Main St
Salem, IL 62881

Anderson #1-33

Job Ticket: 62688

DST#: 4

ATTN: Tim Priest

Test Start: 2016.09.13 @ 16:05:00

GENERAL INFORMATION:

Formation: **Lans. "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:30

Time Test Ended: 22:20:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3940.00 ft (KB) To 3982.00 ft (KB) (TVD)

Total Depth: 3982.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2784.00 ft (KB)

2774.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press@RunDepth: 18.11 psig @ 3941.00 ft (KB)

Start Date: 2016.09.13

End Date:

2016.09.13

Start Time: 16:05:05

End Time:

22:20:14

Capacity: 8000.00 psig

Last Calib.: 2016.09.13

Time On Btm: 2016.09.13 @ 17:34:00

Time Off Btm: 2016.09.13 @ 20:37:30

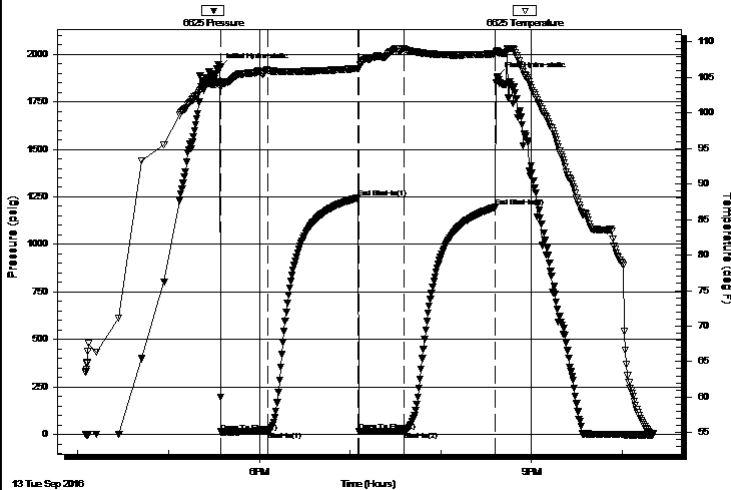
TEST COMMENT: 30 - IF: Blow built to 1/4" then died back, dead at 26 min.

60 - ISI: No blow

30 - FF: No blow

60 - FSI: No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1930.46	104.36	Initial Hydro-static
1	13.28	104.11	Open To Flow (1)
32	16.20	105.98	Shut-In(1)
92	1243.93	106.26	End Shut-In(1)
92	17.03	106.25	Open To Flow (2)
122	18.11	109.04	Shut-In(2)
182	1194.89	108.33	End Shut-In(2)
184	1880.02	108.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	Mud w /trace oil	0.11

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

202 W Main St
Salem, IL 62881

ATTN: Tim Priest

33/4s/29w Decatur KS

Anderson #1-33

Job Ticket: 62688

DST#: 4

Test Start: 2016.09.13 @ 16:05:00

GENERAL INFORMATION:

Formation: **Lans. "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:30

Time Test Ended: 22:20:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3940.00 ft (KB) To 3982.00 ft (KB) (TVD)

Total Depth: 3982.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2784.00 ft (KB)

2774.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8366 Outside

Press@RunDepth: psig @ 3941.00 ft (KB)

Start Date: 2016.09.13

End Date:

2016.09.13

Start Time: 16:05:05

End Time:

22:19:44

Capacity: 8000.00 psig

Last Calib.: 2016.09.13

Time On Btm:

Time Off Btm:

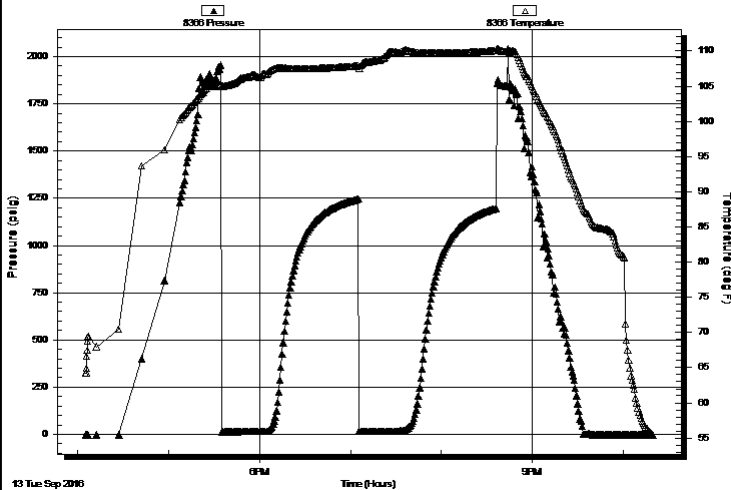
TEST COMMENT: 30 - IF: Blow built to 1/4" then died back, dead at 26 min.

60 - ISI: No blow

30 - FF: No blow

60 - FSI: No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
8.00	Mud w /trace oil	0.11

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

33/4s/29w Decatur KS

202 W Main St
Salem, IL 62881

Anderson #1-33

Job Ticket: 62688

DST#: 4

ATTN: Tim Priest

Test Start: 2016.09.13 @ 16:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 6.37 in³

Resistivity: ohm.m

Salinity: 1300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	Mud w /trace oil	0.112

Total Length: 8.00 ft Total Volume: 0.112 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6625

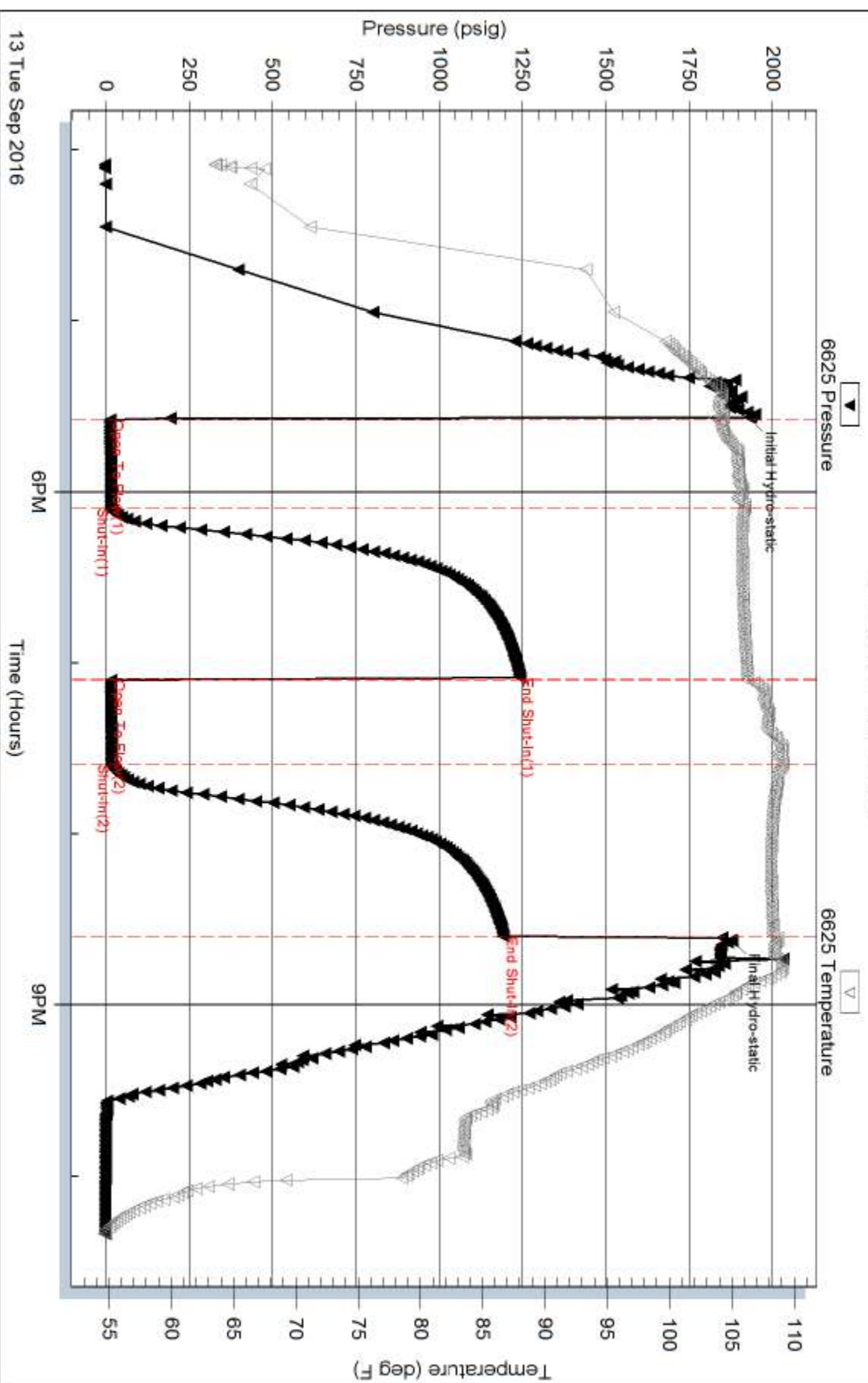
Inside

Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 4

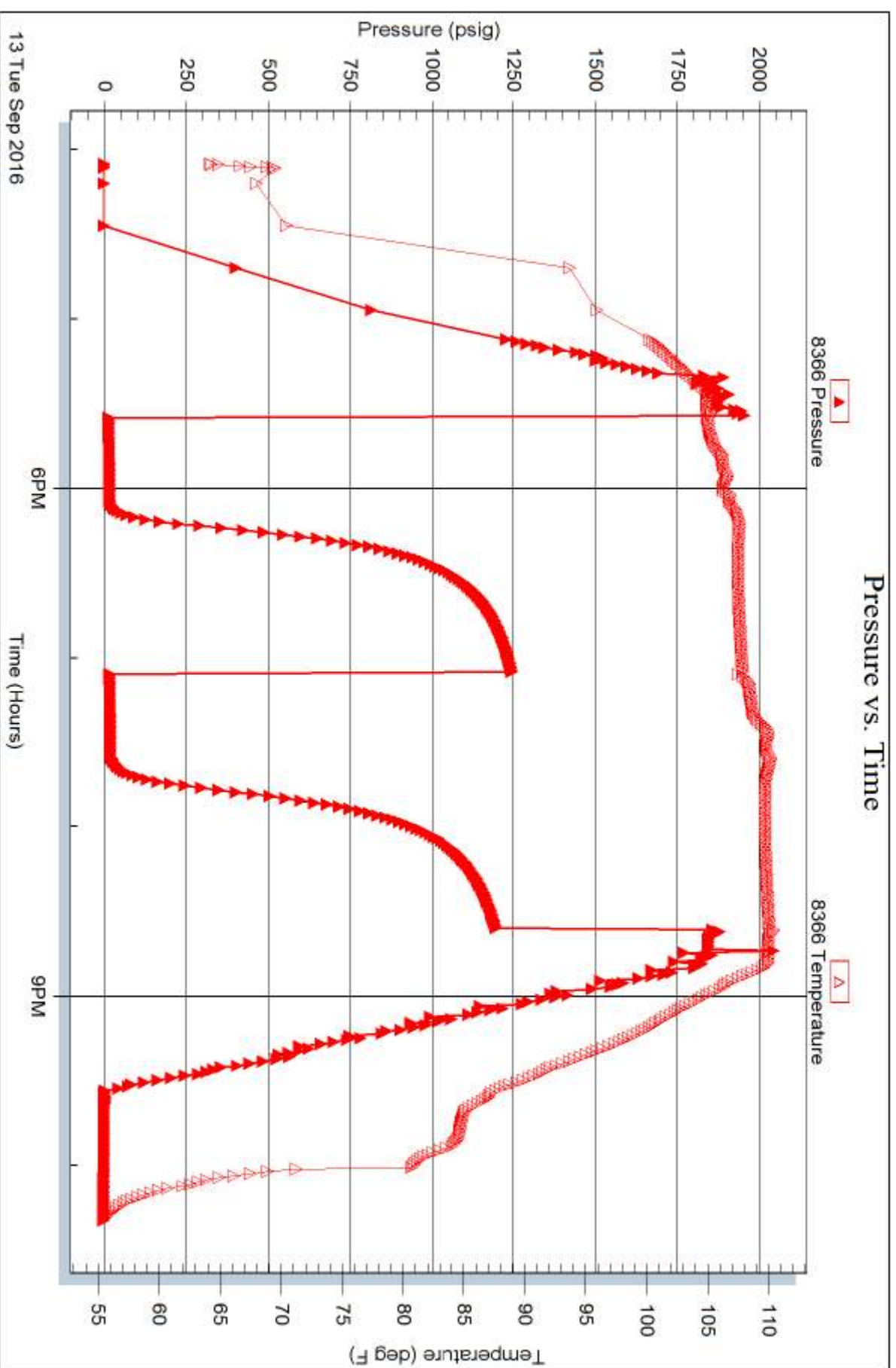
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 62688

Printed: 2016.09.13 @ 22:35:38





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

33/4s/29w Decatur KS

202 W Main St
Salem, IL 62881

Anderson #1-33

Job Ticket: 62689

DST#: 5

ATTN: Tim Priest

Test Start: 2016.09.14 @ 10:37:00

GENERAL INFORMATION:

Formation: **Lans. "H - J - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:26:15

Time Test Ended: 17:11:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3984.00 ft (KB) To 4070.00 ft (KB) (TVD)

Total Depth: 4070.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2784.00 ft (KB)

2774.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press@RunDepth: 16.68 psig @ 3985.00 ft (KB)

Start Date: 2016.09.14

End Date:

2016.09.14

Start Time: 10:37:05

End Time:

17:11:14

Capacity: 8000.00 psig

Last Calib.: 2016.09.14

Time On Btm: 2016.09.14 @ 12:26:00

Time Off Btm: 2016.09.14 @ 15:30:00

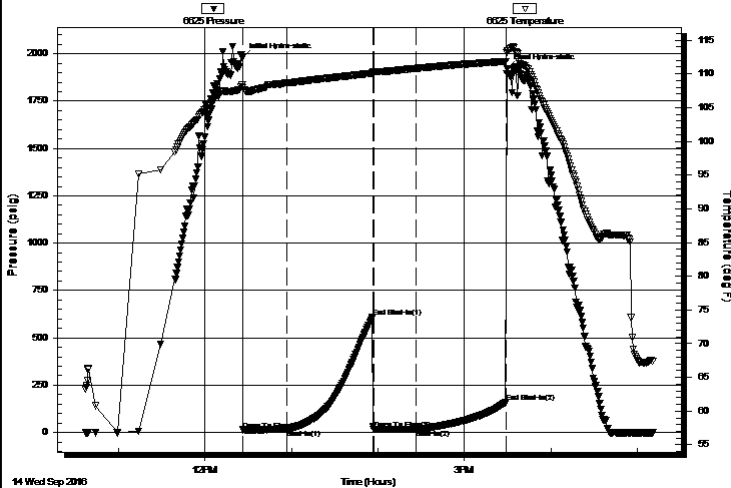
TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1/2", died back - dead at 22 min.

60 - ISI: No blow

30 - FF: Weak surface blow at end of open

60 - FSI: No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.03	108.40	Initial Hydro-static
1	13.31	107.97	Open To Flow (1)
31	15.67	108.65	Shut-In(1)
91	611.05	110.09	End Shut-In(1)
91	15.43	110.35	Open To Flow (2)
121	16.68	110.80	Shut-In(2)
183	159.58	111.86	End Shut-In(2)
184	1920.61	113.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 87% m, 8% o, 5% g	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

202 W Main St
Salem, IL 62881

ATTN: Tim Priest

33/4s/29w Decatur KS

Anderson #1-33

Job Ticket: 62689

DST#: 5

Test Start: 2016.09.14 @ 10:37:00

GENERAL INFORMATION:

Formation: **Lans. "H - J - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:26:15

Time Test Ended: 17:11:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3984.00 ft (KB) To 4070.00 ft (KB) (TVD)

Total Depth: 4070.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2784.00 ft (KB)

2774.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8366 Outside

Press@RunDepth: psig @ 3985.00 ft (KB)

Start Date: 2016.09.14

End Date:

2016.09.14

Start Time: 10:37:05

End Time:

17:10:44

Capacity: 8000.00 psig

Last Calib.:

2016.09.14

Time On Btm:

Time Off Btm:

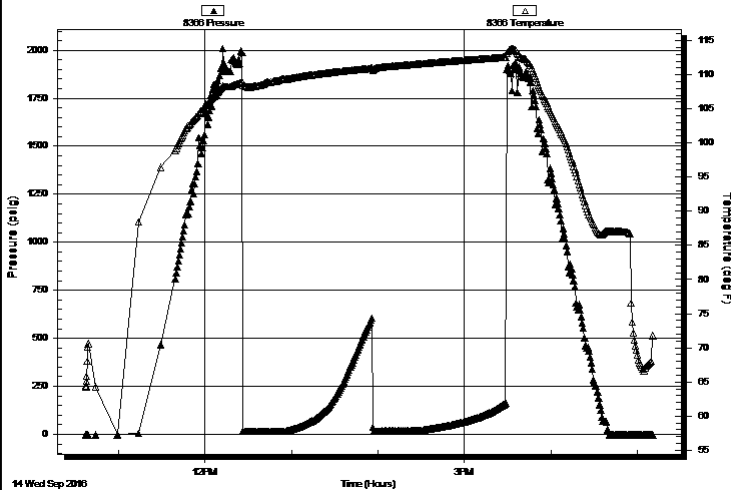
TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1/2", died back - dead at 22 min.

60 - IS: No blow

30 - FF: Weak surface blow at end of open

60 - FS: No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 87% m, 8% o, 5% g	0.21

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

33/4s/29w Decatur KS

202 W Main St
Salem, IL 62881

Anderson #1-33

Job Ticket: 62689

DST#: 5

ATTN: Tim Priest

Test Start: 2016.09.14 @ 10:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.37 in³

Resistivity: ohm.m

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 87% _m , 8% _o , 5% _g	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6625

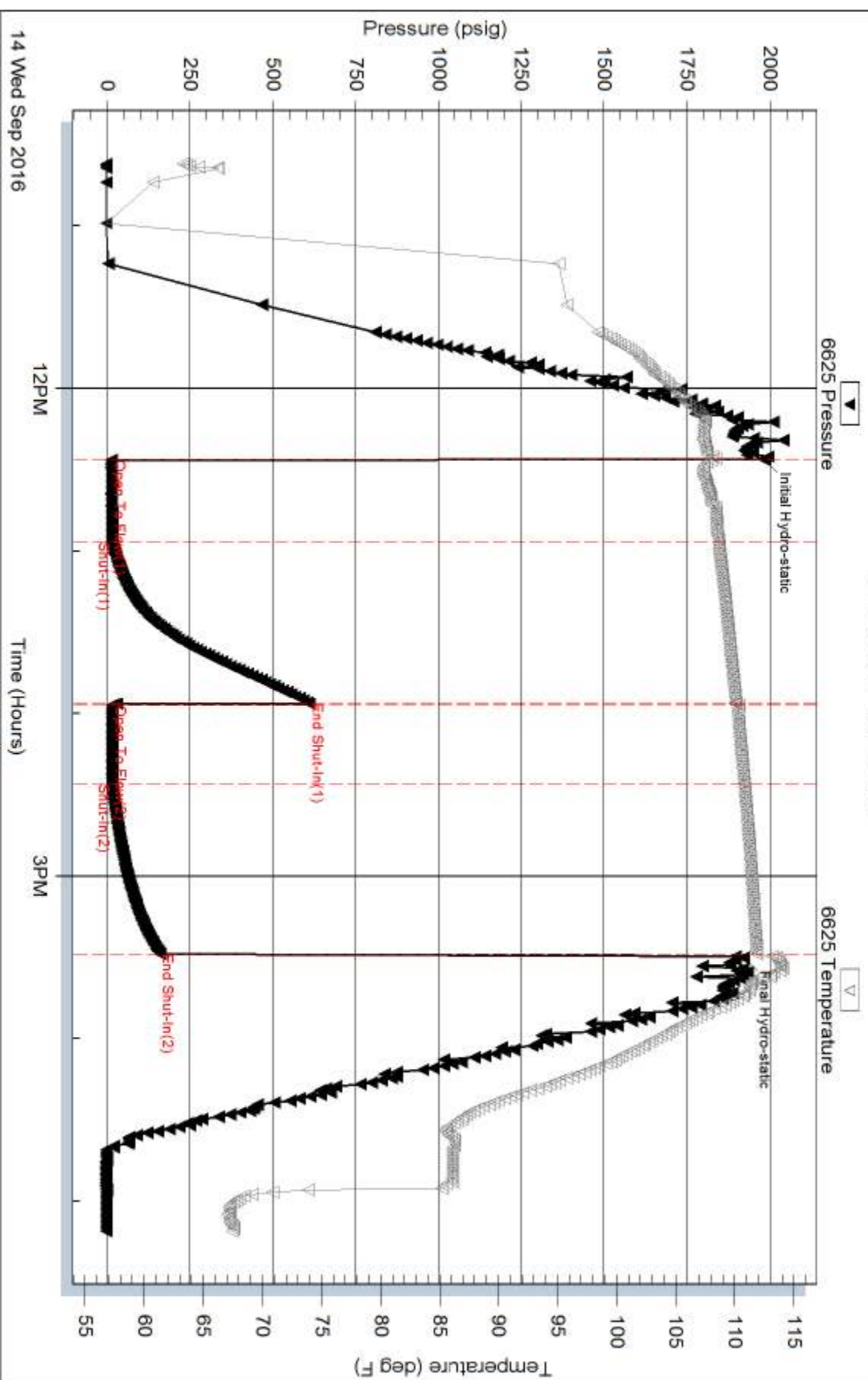
Inside

Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 5

Pressure vs. Time

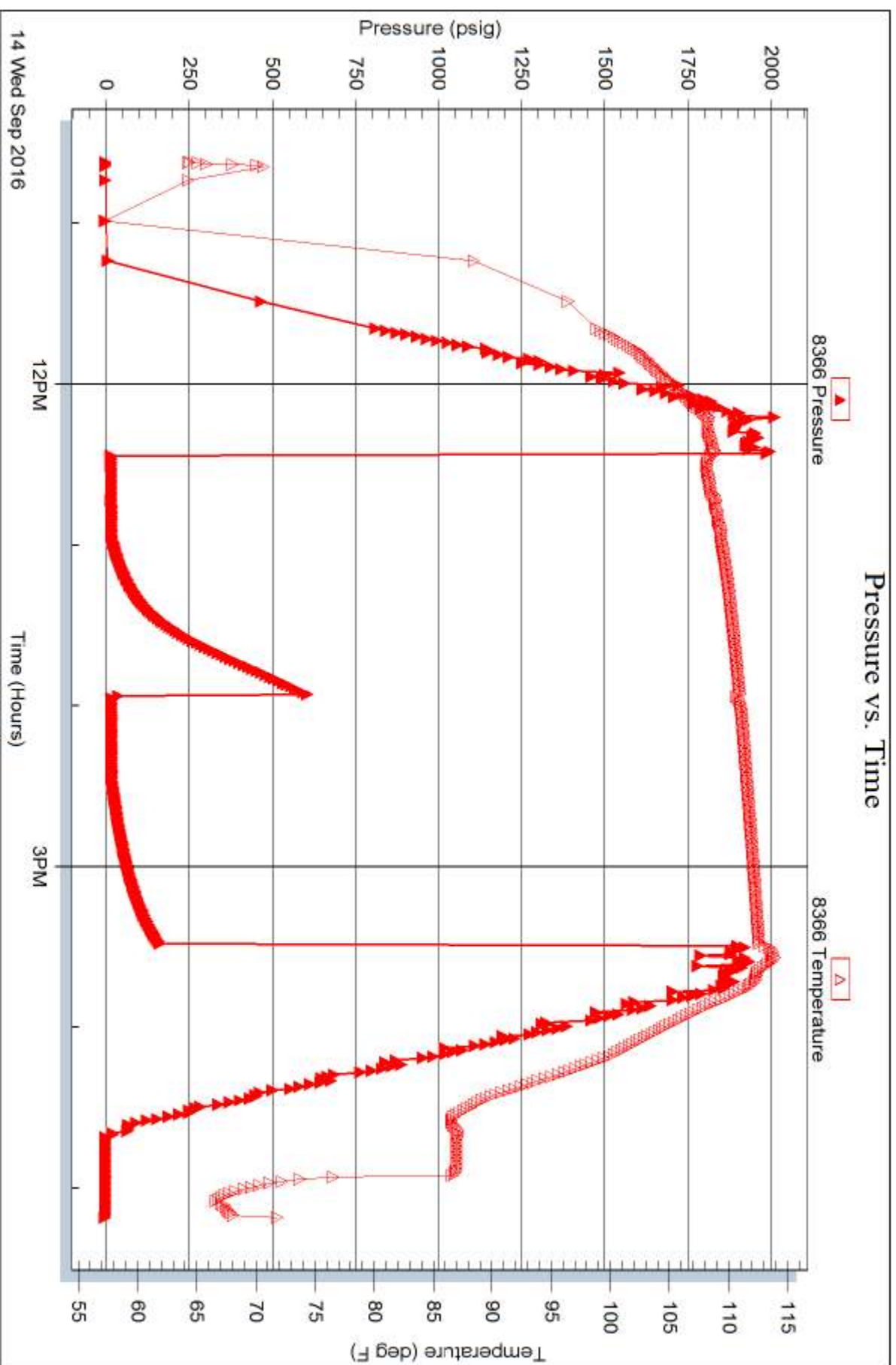


Serial #: 8366

Outside Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 5





DRILL STEM TEST REPORT

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

202 W Main St
Salem, IL 62881

ATTN: Tim Priest

Anderson #1-33

33-4s-29w Decatur,KS

Start Date: 2016.09.12 @ 23:56:00

End Date: 2016.09.13 @ 07:14:00

Job Ticket #: 62687 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.09.16 @ 08:52:20

Shakespeare Oil Co., Inc.

33-4s-29w Decatur,KS

Anderson #1-33

DST # 3

LKC "D - E"

2016.09.12



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

33-4s-29w Decatur, KS

202 W Main St
Salem, IL 62881

Anderson #1-33

Job Ticket: 62687

DST#: 3

ATTN: Tim Priest

Test Start: 2016.09.12 @ 23:56:00

GENERAL INFORMATION:

Formation: **LKC "D - E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:21:30

Time Test Ended: 07:14:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3920.00 ft (KB) To 3945.00 ft (KB) (TVD)

Reference Elevations: 2784.00 ft (KB)

Total Depth: 3945.00 ft (KB) (TVD)

2774.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press@RunDepth: 125.50 psig @ 3921.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.12

End Date:

2016.09.13

Last Calib.: 2016.09.13

Start Time: 23:56:05

End Time:

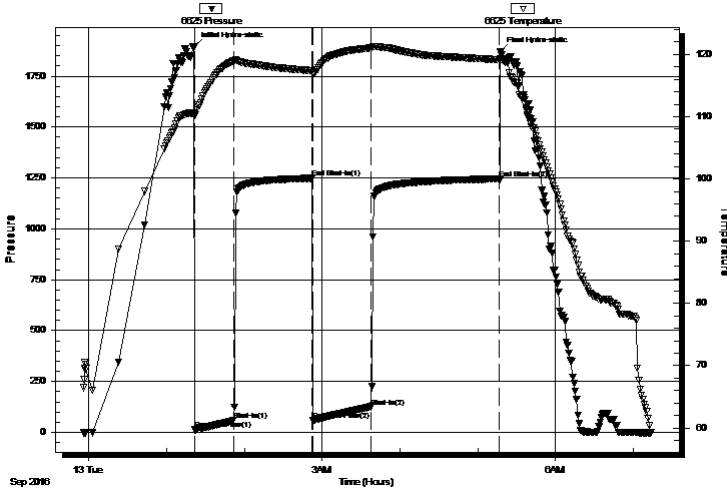
07:13:59

Time On Btm: 2016.09.13 @ 01:21:15

Time Off Btm: 2016.09.13 @ 05:17:30

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 9 1/4"
60 - ISI: No blow back
45 - FF: Blow started at 2 min., built to BOB (11") at 44 min.
90 - FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.39	110.46	Initial Hydro-static
1	12.68	110.12	Open To Flow (1)
31	57.22	118.99	Shut-In(1)
91	1248.76	117.40	End Shut-In(1)
92	59.72	117.02	Open To Flow (2)
137	125.50	121.07	Shut-In(2)
236	1245.32	119.14	End Shut-In(2)
237	1870.38	119.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	MCW 82%w, 18%m	3.09

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

33-4s-29w Decatur, KS

202 W Main St
Salem, IL 62881

Anderson #1-33

Job Ticket: 62687

DST#: 3

ATTN: Tim Priest

Test Start: 2016.09.12 @ 23:56:00

GENERAL INFORMATION:

Formation: **LKC "D - E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:21:30

Time Test Ended: 07:14:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 3920.00 ft (KB) To 3945.00 ft (KB) (TVD)

Total Depth: 3945.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2784.00 ft (KB)

2774.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8366 Outside

Press@RunDepth: psig @ 3921.00 ft (KB)

Start Date: 2016.09.12

End Date:

2016.09.13

Start Time: 23:56:05

End Time:

07:13:29

Capacity: 8000.00 psig

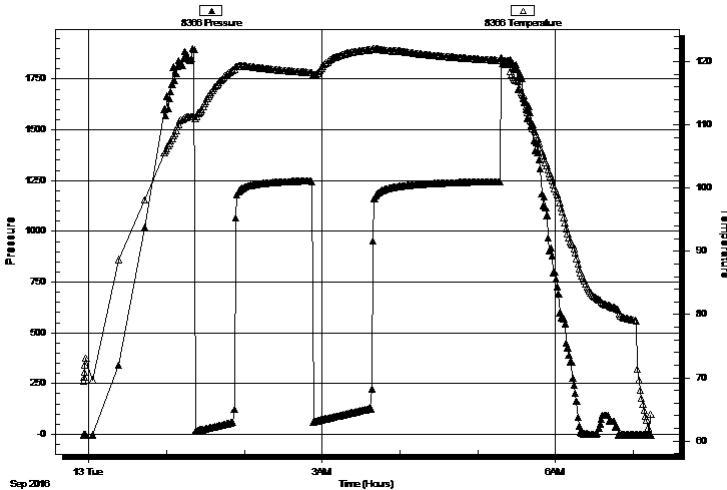
Last Calib.: 2016.09.13

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 9 1/4"
60 - IS: No blow back
45 - FF: Blow started at 2 min., built to BOB (11") at 44 min.
90 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

Recovery

Length (ft)	Description	Volume (bbl)
220.00	MCW 82%w, 18%m	3.09

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.

33-4s-29w Decatur,KS

202 W Main St
Salem, IL 62881

Anderson #1-33

Job Ticket: 62687

DST#: 3

ATTN: Tim Priest

Test Start: 2016.09.12 @ 23:56:00

Tool Information

Drill Pipe:	Length:	3931.00 ft	Diameter:	3.80 inches	Volume:	55.14 bbl	Tool Weight:	2000.00 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:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	55.14 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		32.00 ft					String Weight: Initial	48000.00 lb
Depth to Top Packer:		3920.00 ft					Final	49000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		25.00 ft						
Tool Length:		46.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3900.00	
Shut In Tool	5.00			3905.00	
Hydraulic tool	5.00			3910.00	
Packer	5.00			3915.00	21.00 Bottom Of Top Packer
Packer	5.00			3920.00	
Packer - Shale	0.00			3920.00	
Stubb	1.00			3921.00	
Recorder	0.00	6625	Inside	3921.00	
Recorder	0.00	8366	Outside	3921.00	
Perforations	21.00			3942.00	
Bullnose	3.00			3945.00	25.00 Bottom Packers & Anchor

Total Tool Length: 46.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

33-4s-29w Decatur,KS

202 W Main St
Salem, IL 62881

Anderson #1-33

Job Ticket: 62687

DST#: 3

ATTN: Tim Priest

Test Start: 2016.09.12 @ 23:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 6.36 in³

Resistivity: ohm.m

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 36000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	MCW 82%w , 18%m	3.086

Total Length: 220.00 ft Total Volume: 3.086 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .264 ohms @ 53.8 deg F

Chlorides = 36,000 ppm

Serial #: 6625

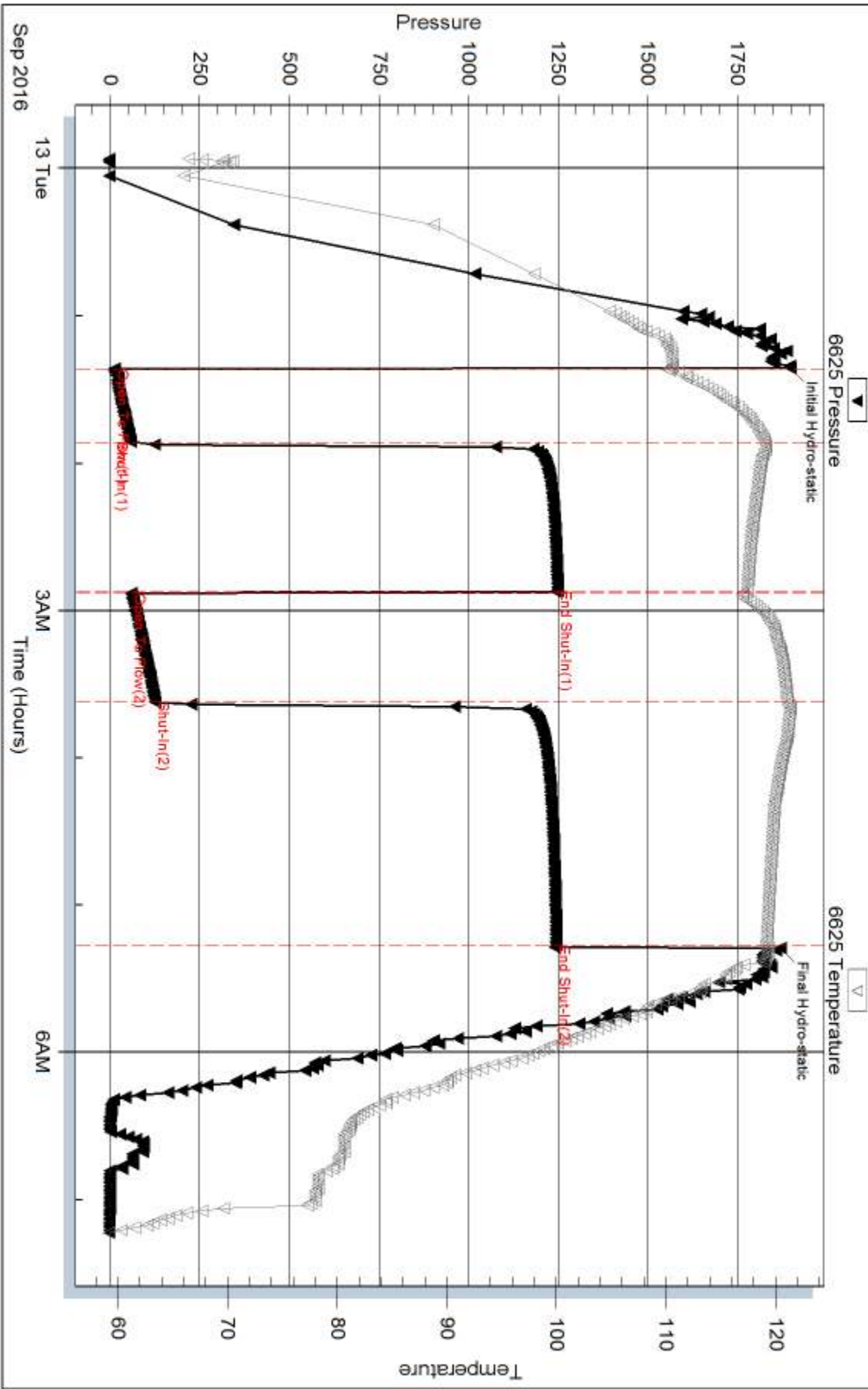
Inside

Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 3

Pressure vs. Time

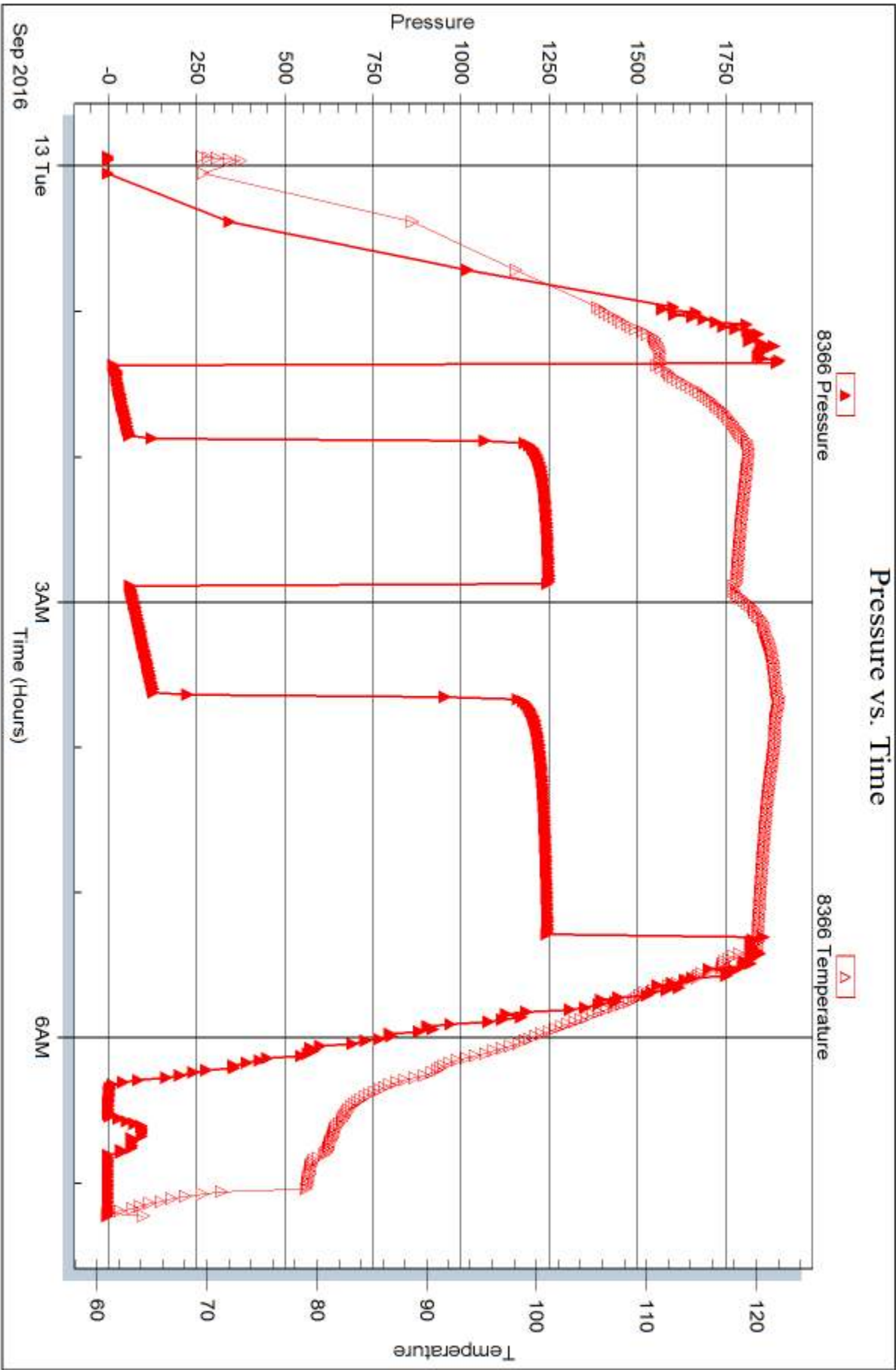


Serial #: 8366

Outside Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 3





P.O. Box 205803
Dallas, TX 75320-5803

Voice: (832) 482-3742
Fax: (832) 482-3738

INVOICE

Invoice Number: 152696

Invoice Date: Sep 7, 2016

Page: 1

Federal Tax I.D.#: 81-2169190

Bill To:

Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

Customer ID	Field Ticket #	Payment Terms	
Shak	68071	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 7, 2016	10/7/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Anderson 1-33		
175.00	CEMENT MATERIALS	Class A Common	17.90	3,132.50
329.00	CEMENT MATERIALS	GEL	1.05	345.45
494.00	CEMENT MATERIALS	Calcium Chloride	1.10	543.40
189.23	CEMENT SERVICE	PHDL	2.48	469.29
432.00	CEMENT SERVICE	DRYG	2.75	1,188.00
50.00	CEMENT SERVICE	MILV	4.40	220.00
50.00	CEMENT SERVICE	MIHV	7.70	385.00
1.00	CEMENT SERVICE	Surface Charge ✓	1,512.25	1,512.25
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	2,010.67	-2,010.67
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	1,887.27	-1,887.27
1.00	E-RYAN.ALAN	SERVICE SUPERVISOR		
1.00	E-RYAN.KEVIN	EQUIPMENT OPERATOR		
1.00	E-MITTEN.JADE	EQUIPMENT OPERATOR		



10502-5
W

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. ONLY IF PAID ON OR
BEFORE

Oct 7, 2016

1 1/2% CHARGED
THEREAFTER.

Subtotal	3,897.95
Sales Tax	150.80
Total Invoice Amount	4,048.75
Payment/Credit Applied	
TOTAL	4,048.75

DW



INVOICE

P.O. Box 205803
Dallas, TX 75320-5803

Invoice Number: 152782

Invoice Date: Sep 16, 2016

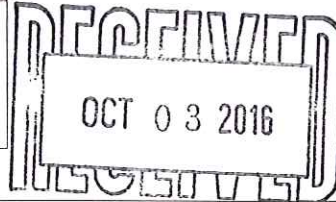
Page: 1

Voice: (832) 482-3742
Fax: (832) 482-3738

Federal Tax I.D.#: 81-2169190

Bill To:

Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881



Customer ID	Field Ticket #	Payment Terms	
Shak	68127	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Sep 16, 2016	10/16/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Anderson 1-33		
240.00	CEMENT MATERIALS	60-40-4%	18.92	4,540.80
60.00	CEMENT MATERIALS	FloSeal	2.97	178.20
257.76	CEMENT SERVICE	PHDL	2.48	639.24
538.15	CEMENT SERVICE	DRYG	2.75	1,479.91
50.00	CEMENT SERVICE	MILV	4.40	220.00
50.00	CEMENT SERVICE	MIHV	7.70	385.00
1.00	CEMENT SERVICE	Plug to Abandon ✓	2,483.59	2,483.59
1.00	EQUIPMENT SALES	8.625 Wooden Plug	110.00	110.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	2,359.50	-2,359.50
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	2,603.87	-2,603.87
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Equipment	55.00	-55.00
1.00	E-RYAN.ALAN	SERVICE SUPERVISOR		
1.00	E-RYAN.KEVIN	EQUIPMENT OPERATOR		
1.00	E-PHILLIPS.MONTY	EQUIPMENT OPERATOR		

10502-17
RW

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. ONLY IF PAID ON OR
BEFORE

Oct 16, 2016

1 1/2% CHARGED
THEREAFTER.

Subtotal	5,018.37
Sales Tax	376.38
Total Invoice Amount	5,394.75
Payment/Credit Applied	
TOTAL	5,394.75

DW



ALLIED OFS, LLC

Federal Tax I.D. #81-2169190

70810
826
68127 1376
21526

REMIT TO: Allied OFS, LLC
P.O. Box 205803
Dallas, TX 75320-5803

SERVICE POINT:

DATE <u>9/16/11</u>	SEC <u>33</u>	TWP <u>4</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00</u>	JOB FINISH <u>10:00</u>
LEASE <u>Anderson</u>	WELL # <u>1-33</u>	LOCATION <u>Oberton S to T lane, 3W</u>			COUNTY <u>De Witt</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Duke 4
TYPE OF JOB PTA
HOLE SIZE 7 7/8 T.D. 225
CASING SIZE 8 5/8 DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH 2550'
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Alan Ryan
566-281 HELPER Alan Ryan
BULK TRUCK
327 DRIVER Monty Phillips
BULK TRUCK
DRIVER

REMARKS:

50 SK @ 2550'
100 SK @ 1850'
50 SK @ 315'
10 SK @ 40'

30 SK @ Rat Hole

CHARGE TO: Shakespeare

STREET

CITY STATE ZIP

To: Allied OFS, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME

SIGNATURE Hector Tonia

TRILL PRINTING CO., INC. - GREAT BEND, KS.

OWNER Same

CEMENT
AMOUNT ORDERED 240 60/40 400 gal
714 Flo Seal

60/40 400 gal	COMMON	240 SK @ 18.72	4540.80
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
Flo Seal	60	@ 2.92	1752.00
	@		
	@		
	@		
	@		
	@		
	@		

TOTAL 4,719.00

DISCOUNT 50% 2,359.50

SERVICE

HANDLING	257.76	@ 2.48	639.24
MILEAGE	22.70/mile 10.76 ton		1479.31
DEPTH OF JOB			
PUMP TRUCK CHARGE			2483.59
EXTRA FOOTAGE	@ 7.20		
HV MILEAGE	50	@ 3.85	385.00
LV MILEAGE	50	@ 2.20	220.00
	@ 4.70		
	@		

TOTAL 5,007.74

DISCOUNT 50% 2,603.87

PLUG & FLOAT EQUIPMENT

8518 Wooden Plug	@	110.00
	@	
	@	
	@	
	@	

TOTAL 110.00

DISCOUNT 50% 55.00

SALES TAX (If Any)

TOTAL CHARGES 10,036.74

DISCOUNT 5,018.37 (50%) IF PAID IN 30 DAYS

NET TOTAL 5,018.37 IF PAID IN 30 DAYS