



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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

33-4s-29w Decatur, KS

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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:

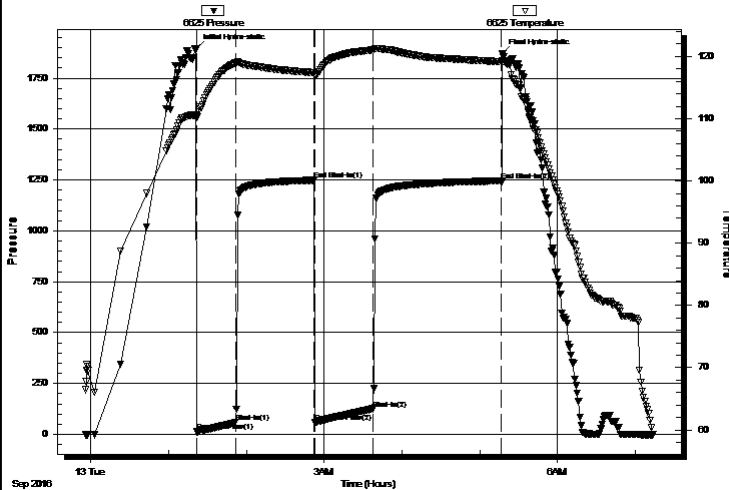
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Time On Btm: 2016.09.13 @ 01:21:15

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



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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

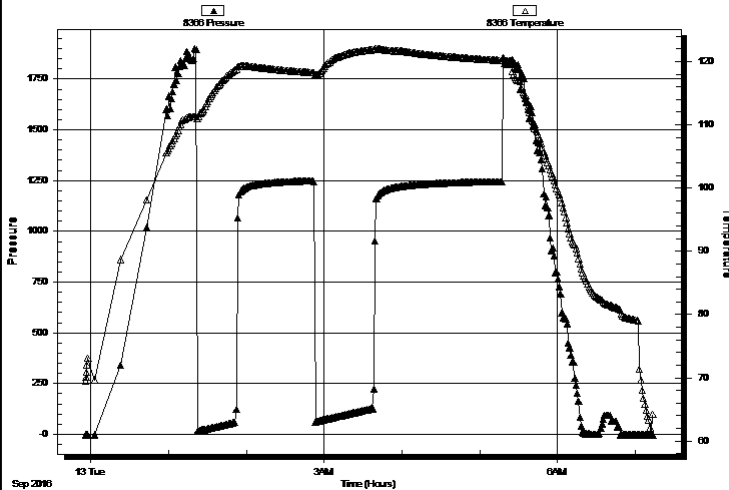
Last Calib.: 2016.09.13

Time On Btm:

Time Off Btm:

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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



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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
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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



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FLUID SUMMARY

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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:

deg API

36000 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

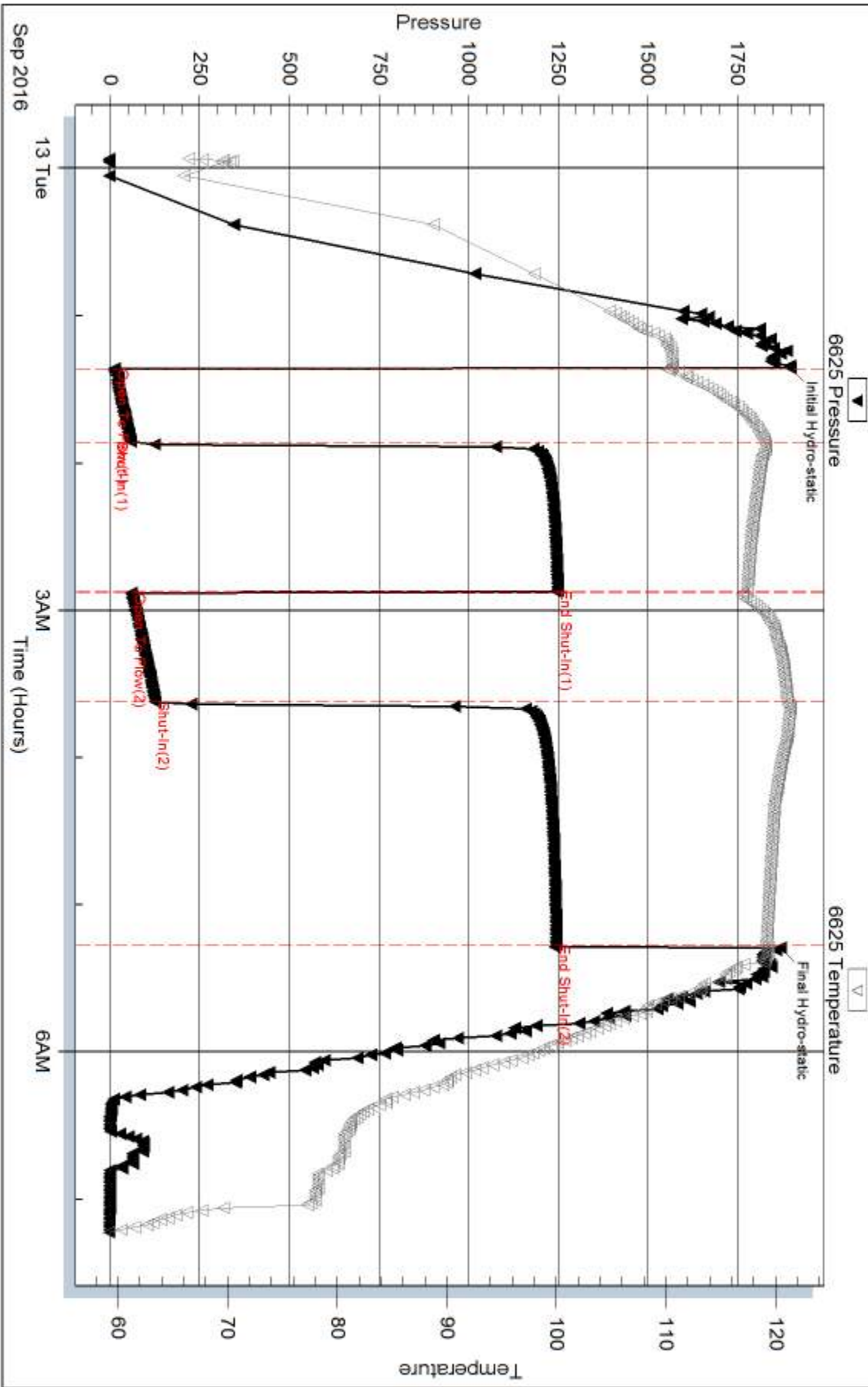
Inside

Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 3

Pressure vs. Time



Serial #: 8366

Outside Shakespeare Oil Co., Inc.

Anderson #1-33

DST Test Number: 3

