

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Aleo Oil Company**

5907 West Broadway
Great Bend, KS 67530

ATTN: Steve Murphy

Deines #4

36-15s-14w Russell,KS

Start Date: 2014.08.30 @ 11:51:00

End Date: 2014.08.30 @ 17:35:30

Job Ticket #: 60264 DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2014.09.02 @ 13:46:48

Aleo Oil Company

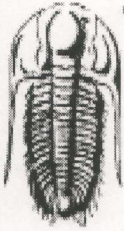
36-15s-14w Russell,KS

Deines #4

DST # 2

Arbuckle

2014.08.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Aleo Oil Company
 5907 West Broadway
 Great Bend, KS 67530
 ATTN: Steve Murphy

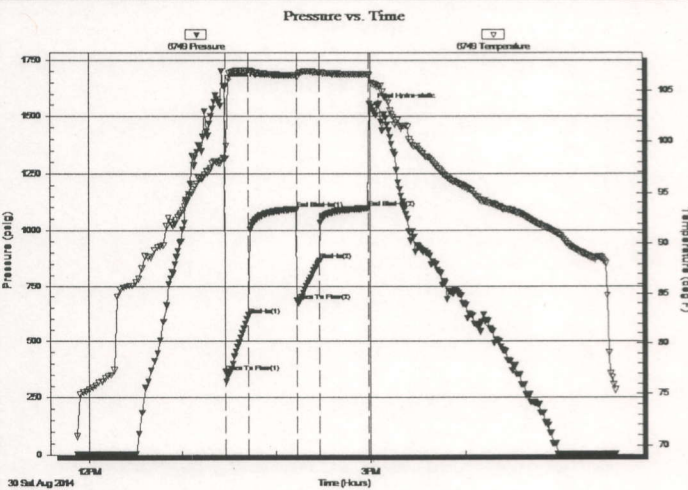
36-15s-14w Russell, KS
Deines #4
 Job Ticket: 60264 **DST#: 2**
 Test Start: 2014.08.30 @ 11:51:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:28:00
 Time Test Ended: 17:35:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: S1 Great Bend/58
 Interval: **3278.00 ft (KB) To 3294.00 ft (KB) (TVD)**
 Total Depth: 3290.00 ft (KB) (TVD)
 Reference Elevations: 1854.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Fair 1845.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6749 **Inside**
 Press@RunDepth: 865.02 psig @ 3290.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.30 End Date: 2014.08.30 Last Calib.: 2014.08.30
 Start Time: 11:52:00 End Time: 17:35:30 Time On Btm: 2014.08.30 @ 13:27:00
 Time Off Btm: 2014.08.30 @ 15:00:30

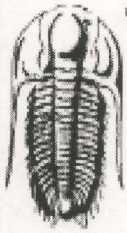
TEST COMMENT: IFP 15 Strong blow BOB in 45 seconds
 ISI 30 Slight surface blow back
 FFP 15 Strong blow BOB in 1 minute
 FSi 30 Blow back built to 2"



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1635.75	98.36	Initial Hydro-static
1	363.15	98.36	Open To Flow (1)
16	619.88	106.91	Shut-In(1)
46	1094.77	106.46	End Shut-In(1)
47	682.70	106.29	Open To Flow (2)
61	865.02	106.73	Shut-In(2)
92	1097.16	106.56	End Shut-In(2)
94	1542.45	105.72	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
186.00	Water with show of oil Water 100%	2.61
1049.00	SOCW Oil 3% Water 97%	14.71
620.00	OGW Oil 15% Gas 15% Water 70%	8.70
10.00	Clean oil Oil 100%	0.14

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



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Great Bend, KS 67530
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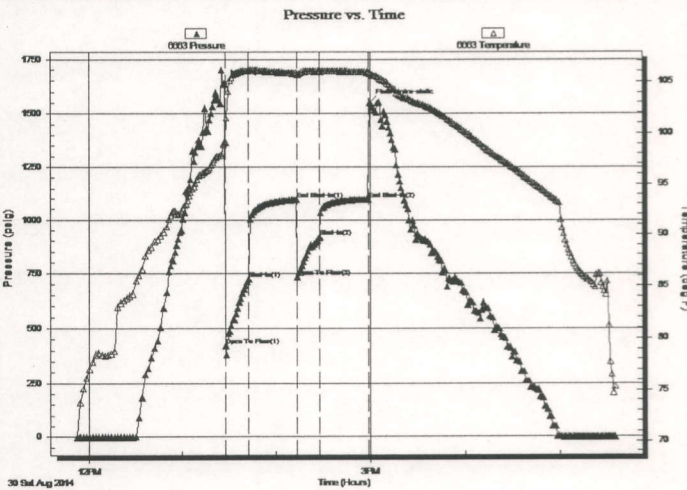
36-15s-14w Russell, KS
Deines #4
Job Ticket: 60264 **DST#: 2**
Test Start: 2014.08.30 @ 11:51:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:28:00
Time Test Ended: 17:35:30
Interval: **3278.00 ft (KB) To 3294.00 ft (KB) (TVD)**
Total Depth: 3290.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1854.00 ft (KB)
1845.00 ft (CF)
KB to GR/CF: 9.00 ft
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: S1 Great Bend/58

Serial #: 6663 Outside
Press@RunDepth: 1098.17 psig @ 3291.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.30 End Date: 2014.08.30 Last Calib.: 2014.08.30
Start Time: 11:52:00 End Time: 17:35:30 Time On Btm: 2014.08.30 @ 13:27:00
Time Off Btm: 2014.08.30 @ 14:59:30

TEST COMMENT: IFP 15 Strong blow BOB in 45 seconds
ISI 30 Slight surface blow back
FFP 15 Strong blow BOB in 1 minute
FSi 30 Blow back built to 2"



PRESSURE SUMMARY

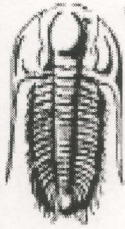
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.32	99.05	Initial Hydro-static
1	422.57	99.12	Open To Flow (1)
16	725.64	106.03	Shut-In(1)
46	1095.75	105.77	End Shut-In(1)
47	736.57	105.64	Open To Flow (2)
61	918.58	105.97	Shut-In(2)
92	1098.17	105.88	End Shut-In(2)
93	1549.00	105.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Water with show of oil Water 100%	2.61
1049.00	SOCW Oil 3% Water 97%	14.71
620.00	OGW Oil 15% Gas 15% Water 70%	8.70
10.00	Clean oil Oil 100%	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Aleo Oil Company

36-15s-14w Russell, KS

5907 West Broadway
Great Bend, KS 67530

Deines #4

Job Ticket: 60264

DST#: 2

ATTN: Steve Murphy

Test Start: 2014.08.30 @ 11:51:00

Tool Information

Drill Pipe:	Length: 3256.00 ft	Diameter: 3.80 inches	Volume: 45.67 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3278.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3256.00	
Hydraulic tool	5.00			3261.00	
Jars	5.00			3266.00	
Safety Joint	2.00			3268.00	
Top Packer	5.00			3273.00	
Packer	5.00			3278.00	27.00 Bottom Of Top Packer
Anchor	11.00			3289.00	
Recorder	1.00	6749	Inside	3290.00	
Recorder	1.00	6663	Outside	3291.00	
Bullnose	3.00			3294.00	16.00 Anchor Tool
Total Tool Length:	43.00				



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FLUID SUMMARY

Aleo Oil Company
5907 West Broadway
Great Bend, KS 67530

ATTN: Steve Murphy

36-15s-14w Russell,KS

Deines #4
Job Ticket: 60264 **DST#: 2**
Test Start: 2014.08.30 @ 11:51:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.97 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5600.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	Water with show of oil Water 100%	2.609
1049.00	SOCW Oil 3% Water 97%	14.715
620.00	OGW Oil 15% Gas 15% Water 70%	8.697
10.00	Clean oil Oil 100%	0.140

Total Length: 1865.00 ft Total Volume: 26.161 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 6749

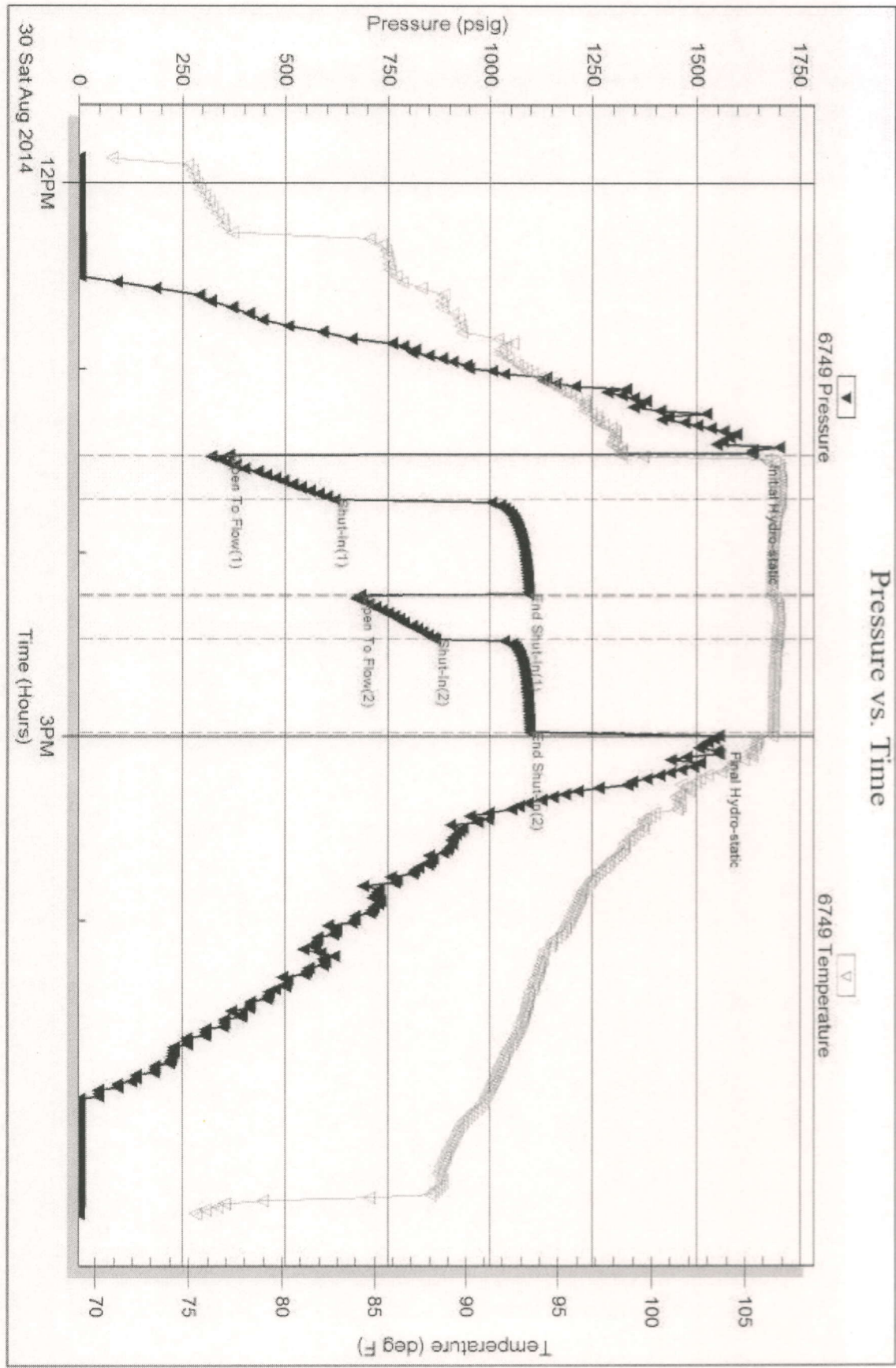
Inside

Also Oil Company

Denes #4

DST Test Number: 2

Pressure vs. Time



Tribble Testing, Inc

Ref. No: 60264

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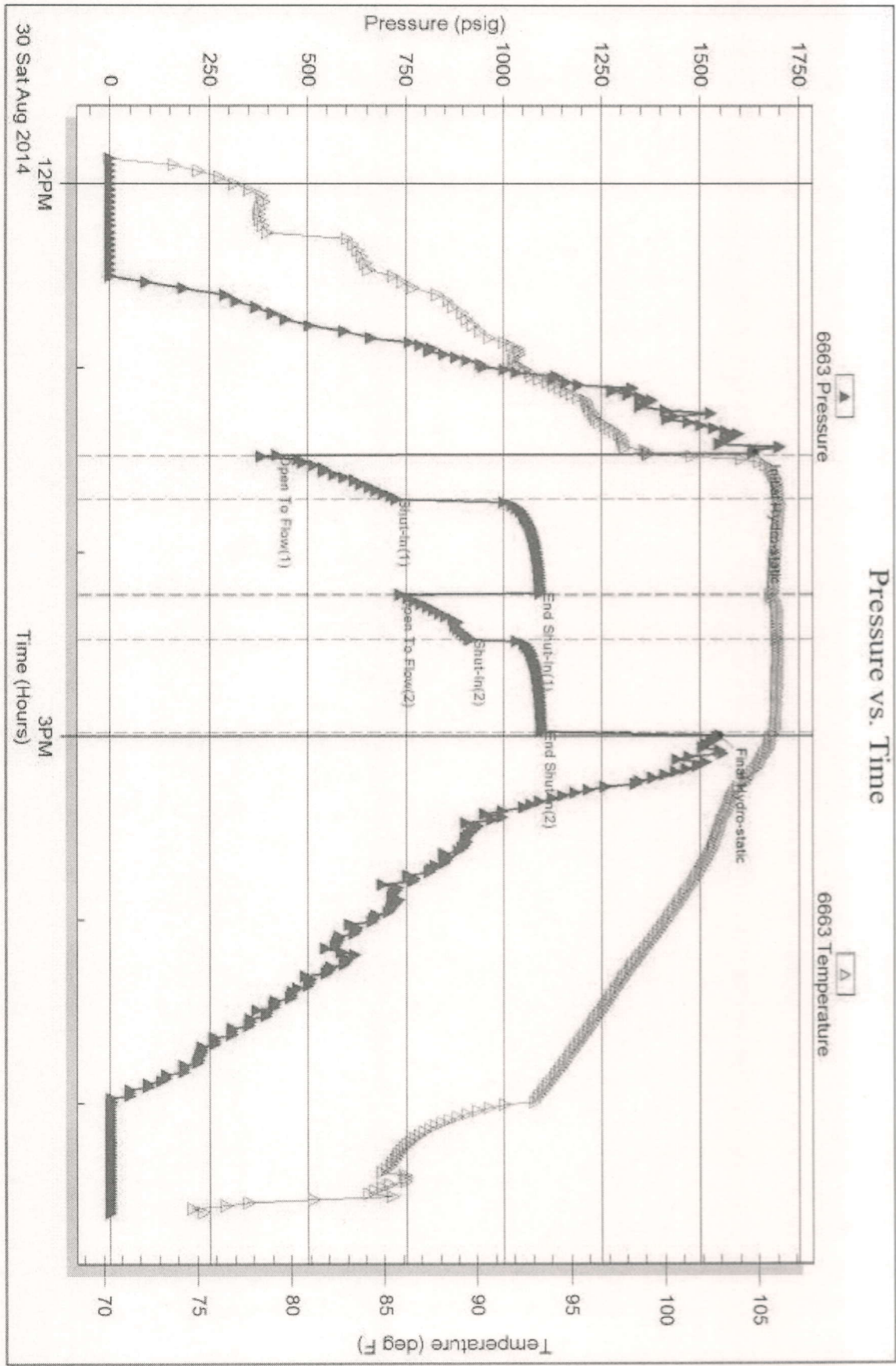
Serial #: 6663

Outside Also Oil Company

Dehes #4

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 60264

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