



**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: 2014.08.29 @ 22:03:00

End Date: 2014.08.30 @ 02:11:30

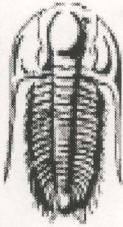
Job Ticket #: 60263 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

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DRILL STEM TEST REPORT

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

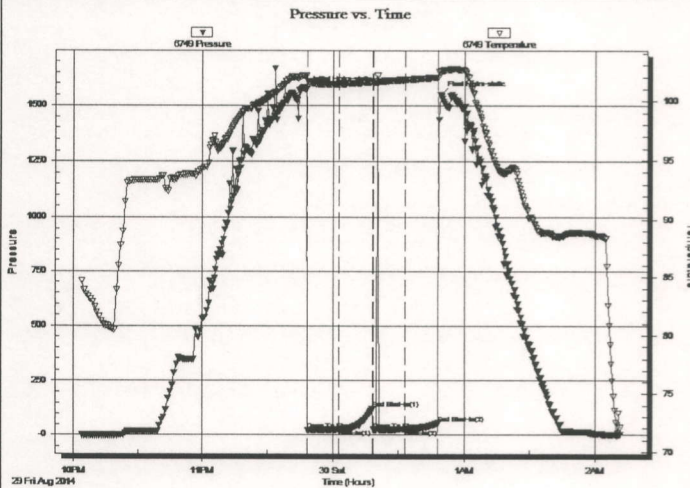
36-15s-14w Russell,KS
Deines #4
Job Ticket: 60263 DST#: 1
Test Start: 2014.08.29 @ 22:03:00

GENERAL INFORMATION:

Formation: **LKC J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:48:30
Time Test Ended: 02:11:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: S1
Interval: **3214.00 ft (KB) To 3236.00 ft (KB) (TVD)**
Reference Elevations: 1854.00 ft (KB)
Total Depth: 3236.00 ft (KB) (TVD) 1845.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 6749 Inside
Press@RunDepth: 26.20 psig @ 3232.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.29 End Date: 2014.08.30 Last Calib.: 2014.08.30
Start Time: 22:04:00 End Time: 02:11:30 Time On Btm: 2014.08.29 @ 23:48:00
Time Off Btm: 2014.08.30 @ 00:49:00

TEST COMMENT: IFP 15 Weak surface blow died in 3 minutes
ISI 15 No blow back
FFP 15 Dead no blow - Flush tool - no blow
FSI 15 No blow back



PRESSURE SUMMARY

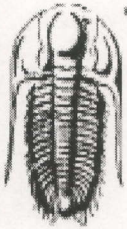
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.01	102.10	Initial Hydro-static
1	21.98	101.67	Open To Flow (1)
15	26.62	101.43	Shut-In(1)
30	120.72	101.62	End Shut-In(1)
31	25.12	101.61	Open To Flow (2)
45	26.20	101.80	Shut-In(2)
60	55.69	102.00	End Shut-In(2)
61	1547.23	102.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.01

Gas Rates

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



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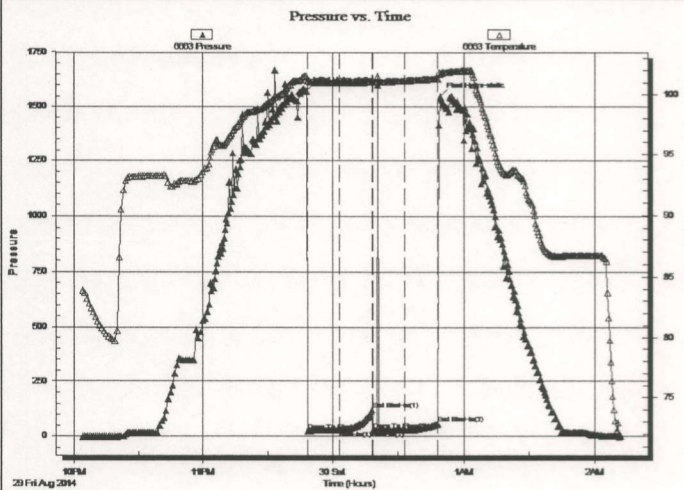
36-15s-14w Russell,KS
Deines #4
Job Ticket: 60263 **DST#: 1**
Test Start: 2014.08.29 @ 22:03:00

GENERAL INFORMATION:

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 Time Tool Opened: 23:48:30
 Tester: Ken Swinney
 Time Test Ended: 02:11:30
 Unit No: S1
 Interval: **3214.00 ft (KB) To 3236.00 ft (KB) (TVD)**
 Reference Elevations: 1854.00 ft (KB)
 Total Depth: 3236.00 ft (KB) (TVD) 1845.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 6663 Outside
 Press@RunDepth: 56.69 psig @ 3233.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.29 End Date: 2014.08.30 Last Calib.: 2014.08.30
 Start Time: 22:04:00 End Time: 02:12:00 Time On Btm: 2014.08.29 @ 23:48:00
 Time Off Btm: 2014.08.30 @ 00:49:00

TEST COMMENT: IFP 15 Weak surface blow died in 3 minutes
 ISI 15 No blow back
 FFP 15 Dead no blow - Flush tool - no blow
 FSI 15 No blow back



PRESSURE SUMMARY

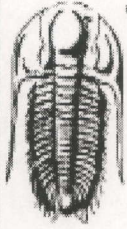
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.41	101.50	Initial Hydro-static
1	24.74	101.09	Open To Flow (1)
15	28.09	100.94	Shut-In(1)
30	121.58	101.05	End Shut-In(1)
31	28.52	101.02	Open To Flow (2)
45	28.74	101.14	Shut-In(2)
60	56.69	101.30	End Shut-In(2)
61	1547.81	101.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.01

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

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

36-15s-14w Russell,KS
Deines #4
Job Ticket: 60263 DST#: 1
Test Start: 2014.08.29 @ 22:03:00

Tool Information

Drill Pipe:	Length: 3193.00 ft	Diameter: 3.80 inches	Volume: 44.79 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: 45000.00 lb
			<u>Total Volume: 44.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3214.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 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			3192.00	
Hydraulic tool	5.00			3197.00	
Jars	5.00			3202.00	
Safety Joint	2.00			3204.00	
Top Packer	5.00			3209.00	
Packer	5.00			3214.00	27.00 Bottom Of Top Packer
Anchor	17.00			3231.00	
Recorder	1.00	6749	Inside	3232.00	
Recorder	1.00	6663	Outside	3233.00	
Bullnose	3.00			3236.00	22.00 Anchor Tool
Total Tool Length:	49.00				



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FLUID SUMMARY

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Deines #4
Job Ticket: 60263 **DST#: 1**
Test Start: 2014.08.29 @ 22:03:00

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 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
1.00	Mud 100%	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6749

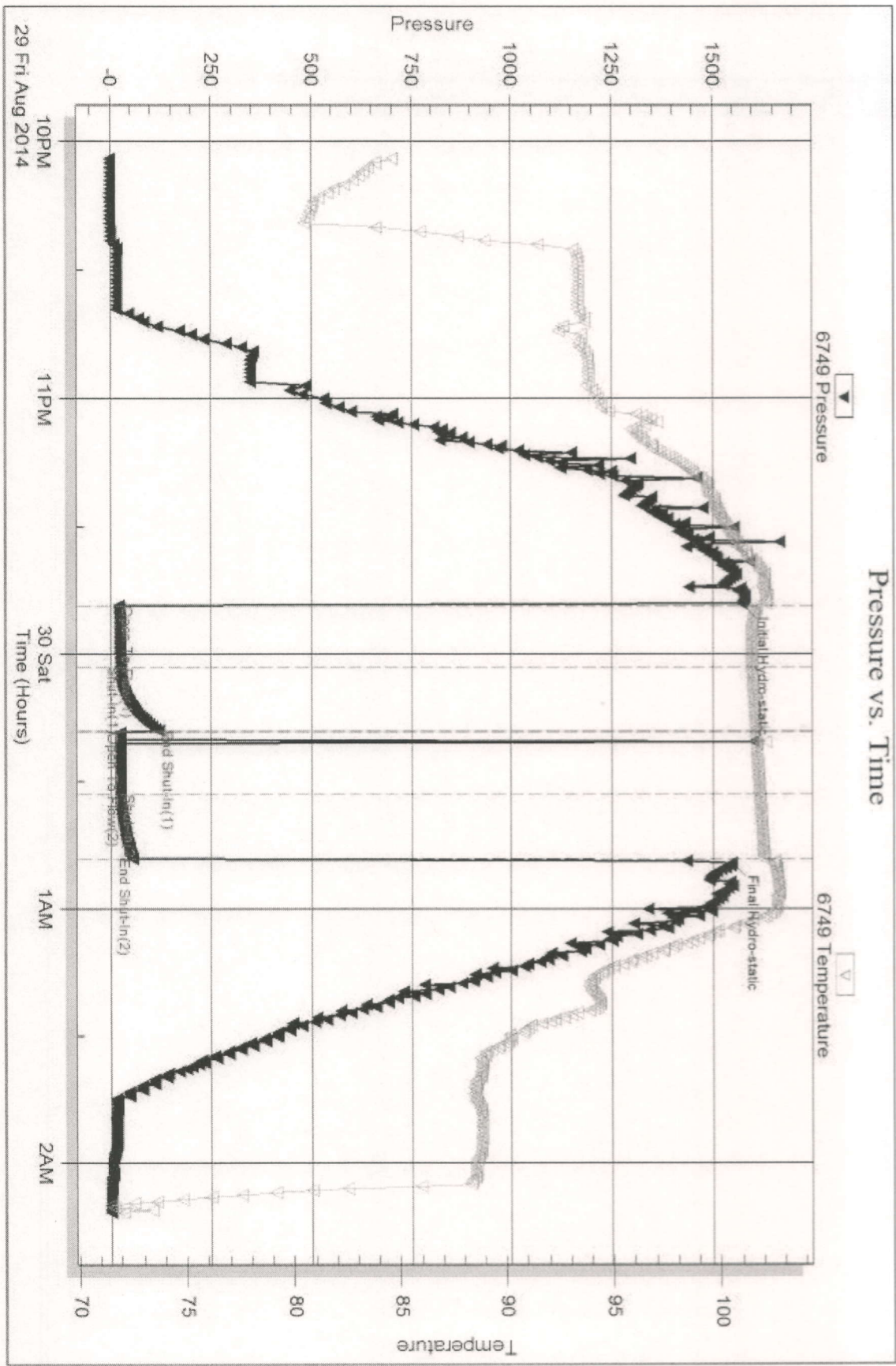
Inside

Also Oil Company

Dehes #4

DST Test Number: 1

Pressure vs. Time



Tribble Testing, Inc

Ref. No: 60263

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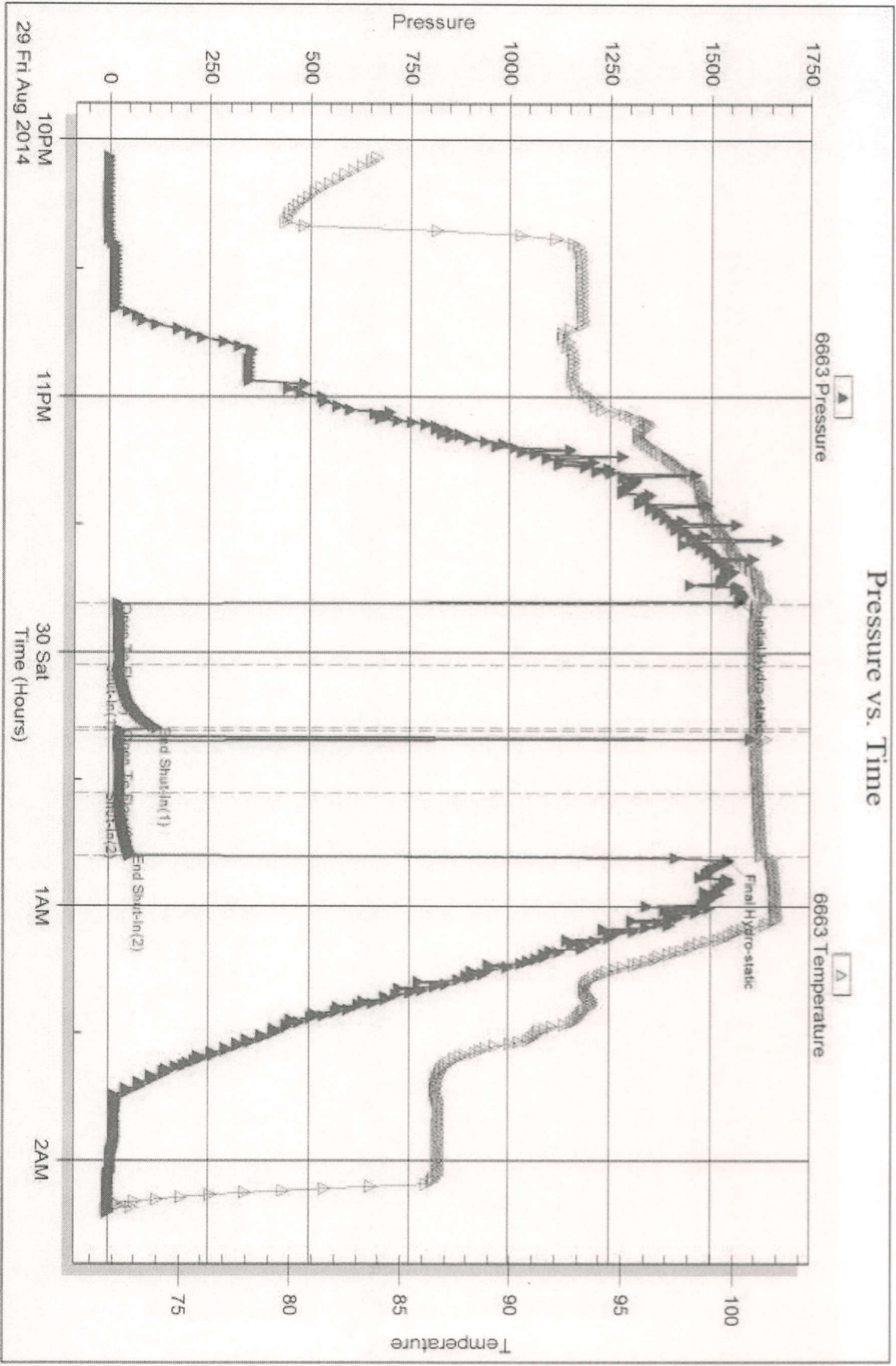
Serial #: 6663

Outside Also Oil Company

Deines #4

DST Test Number: 1

Pressure vs. Time



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