



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Incorporated**

8400 East 22ND Street North #700
PO Box 783188
Wichita, Kansas 67278+3188

ATTN: Terry Mcleod

Derstein 17A #1

17/28S/22W/Ford

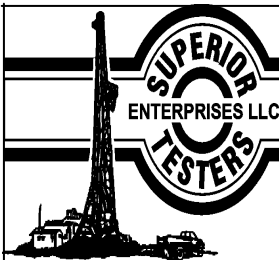
Start Date: 2012.05.21 @ 23:10:27

End Date: 2012.05.22 @ 08:22:57

Job Ticket #: 17641 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.05.21 @ 23:29:40



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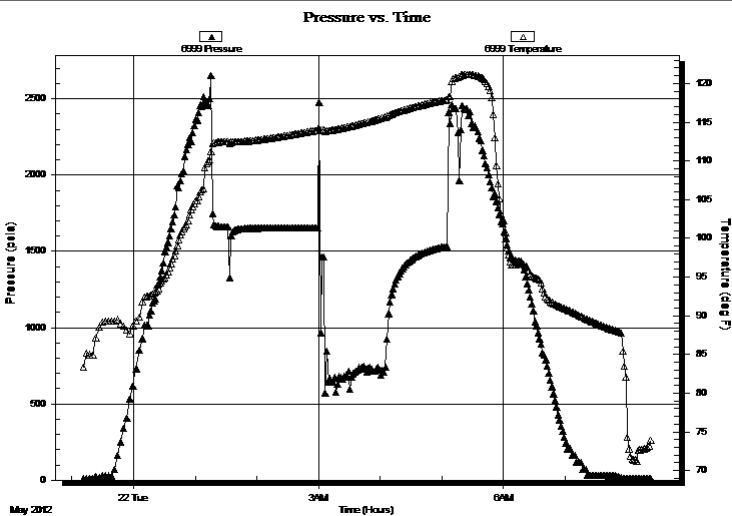
Test Start: 2012.05.21 @ 23:10:27

GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 08:22:57
Interval: **5138.00 ft (KB) To 5152.00 ft (KB) (TVD)**
Total Depth: 5152.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: DAVID NICHOLS
Unit No: 3325 RT GB 167
Reference Elevations: 2443.00 ft (KB)
2432.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6999 **Inside**
Press @ RunDepth: psia @ 5153.00 ft (KB) Capacity: 5000.00 psia
Start Date: 2012.05.21 End Date: 2012.05.22 Last Calib.: 2012.05.21
Start Time: 23:10:27 End Time: 08:22:57 Time On Btm:
Time Off Btm:

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 2 INCHES INTO WATER
45-INITIAL -SHUT IN NO BLOW BACK
90-FINAL OPENING VERY WEAK BLOW DIED AFTER 6 MINS FLUSHED TOOL AFTER 20 MINS NO BLOW 10 MINS LATER
BUILDING BLOW BUILT TO BOTTOM BUCKET IN 60 MINS



PRESSURE SUMMARY

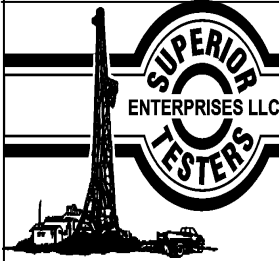
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
40.00	MUD WITH A TRACE OF WATER A GOOD 0.580W OF	
0.00	90%MUD 10% WATER	0.00
90.00	MUDDY WATER 40%MUD 60%WATER	1.32
90.00	WATER TRACE OF MUD 95%WATER 5%	1.32

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened:

Tester: DAVID NICHOLS

Time Test Ended: 08:22:57

Unit No: 3325 RT GB 167

Interval: **5138.00 ft (KB) To 5152.00 ft (KB) (TVD)**

Reference Elevations: 2443.00 ft (KB)

Total Depth: 5152.00 ft (KB) (TVD)

2432.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 6749 **Outside**

Press @ RunDepth: psia @ 5154.00 ft (KB)

Capacity: psia

Start Date: 2012.05.21

End Date:

2012.05.22

Last Calib.:

1899.12.30

Start Time: 23:08:56

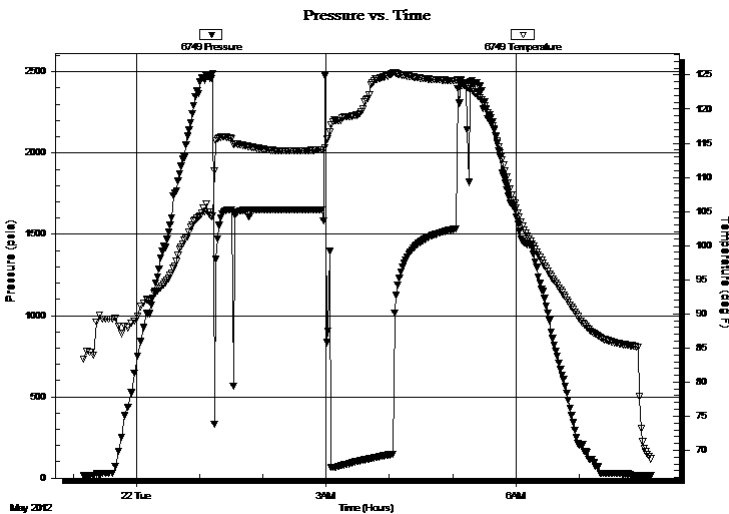
End Time:

08:08:56

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-INIAL OPENING WEAK BLOW BUILT TO 2 INCHES INTO WATER
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 BUILDING BLOW BUILT TO BOTTOM BUCKET IN 60 MINS



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
40.00	MUD WITH A TRACE OF WATER A GOOD	0.58
0.00	90%MUD 10% WATER	0.00
90.00	MUDDY WATER 40%MUD 60%WATER	1.32
90.00	WATER TRACE OF MUD 95%WATER 5%	1.32

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Incorporated

17/28S/22W/Ford

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DST#: 3

Test Start: 2012.05.21 @ 23:10:27

Tool Information

Drill Pipe:	Length: 5112.00 ft	Diameter: 3.88 inches	Volume: 74.76 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	110000.0 lb
			<u>Total Volume: 74.76 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial	77000.00 lb
Depth to Top Packer:	5138.00 ft			Final	79000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: SLID TOOL TO BOTTOM 10 FEET

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5116.00	
Hydraulic Tool	5.00			5121.00	
Jars	5.00			5126.00	
Safety Joint	2.00			5128.00	
Packer	5.00			5133.00	27.00 Bottom Of Top Packer
Packer	5.00			5138.00	
Anchor	14.00			5152.00	
Recorder	1.00	6999	Inside	5153.00	
Recorder	1.00	6749	Outside	5154.00	
Bullnose	3.00			5157.00	19.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 19.60 in³
Resistivity: ohm.m
Salinity: 11400.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	MUD WITH A TRACE OF WATER A GOOD SH	0.585
0.00	90%MUD 10% WATER	0.000
90.00	MUDDY WATER 40%MUD 60%WATER	1.316
90.00	WATER TRACE OF MUD 95%WATER 5%MUD	1.316

Total Length: 220.00 ft Total Volume: 3.217 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

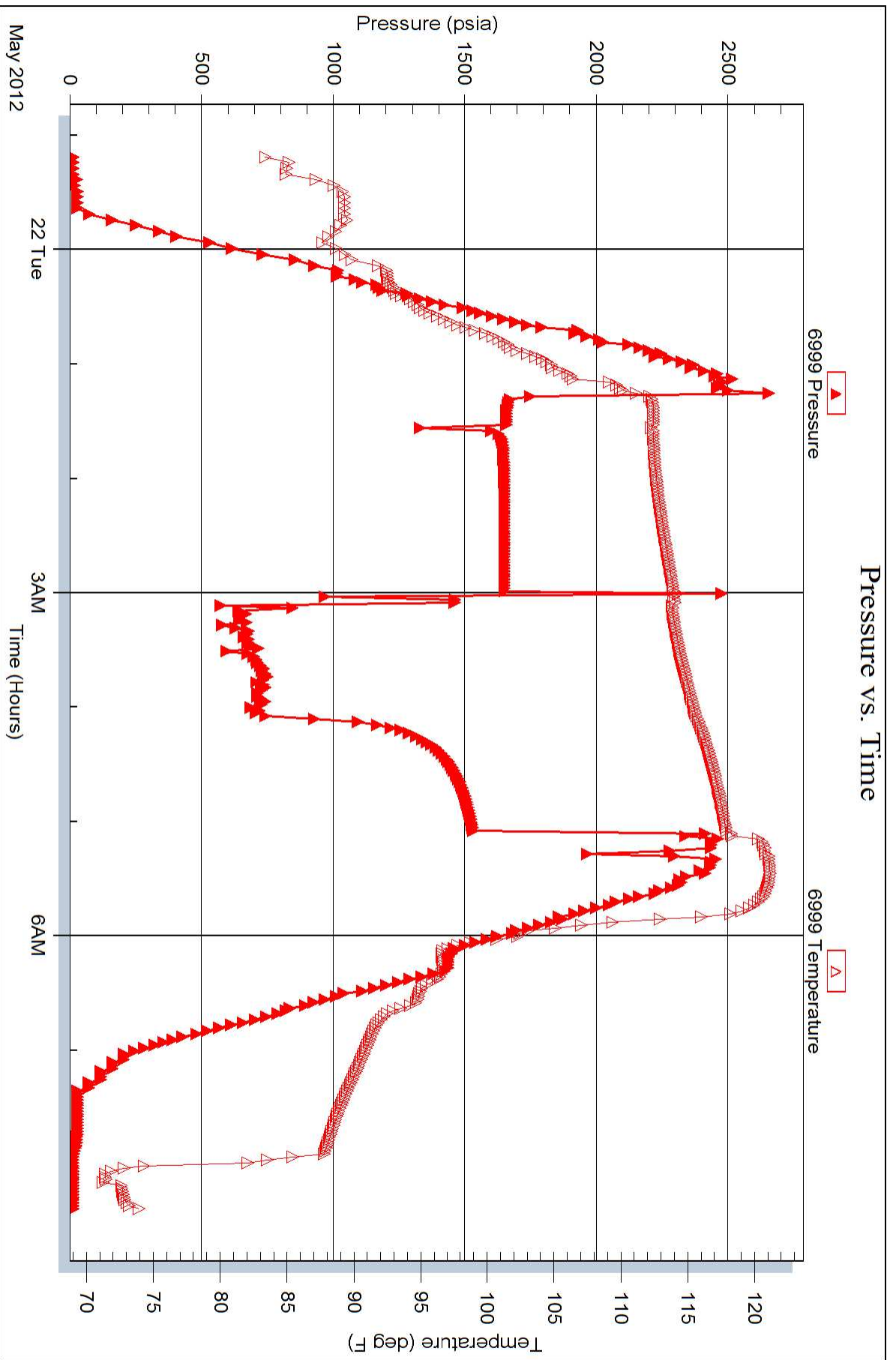
Serial #: 6999

Inside

Ritchie Exploration Incorporated

Dersten 17A #1

DST Test Number: 3



Serial #: 6749

Outside Ritchie Exploration Incorporated

Dersten 17A #1

DST Test Number: 3

