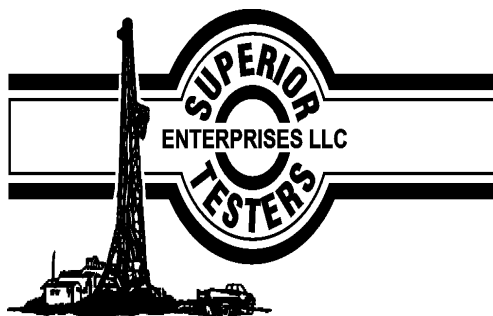




DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd Street North#700 Wichita
Kansas 67278+3188

ATTN: Mike Engelbrecht

Fravel-Fisher #1

16/28S/22W Ford Co.

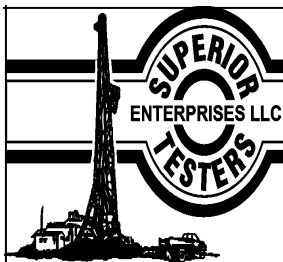
Start Date: 2011.11.07 @ 04:15:00

End Date: 2011.11.08 @ 13:39:30

Job Ticket #: 18692 DST #: 1

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

Printed: 2011.11.07 @ 02:00:19



DRILL STEM TEST REPORT

Ritchie Exploration Inc.

16/28S/22W Ford Co.

8100 East 22nd Street North#700 Wichita Kansas
67278+3188

Fravel-Fisher #1

Job Ticket: 18692

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2011.11.07 @ 04:15:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: 5095.00 ft (KB)

Time Tool Opened: 07:41:00

Time Test Ended: 13:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/170

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

Total Depth: 5095.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2420.00 ft (KB)

2409.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6666 Outside

Press@RunDepth: 111.90 psia @ 5091.26 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.11.07

End Date:

2011.11.08

Last Calib.:

2011.11.08

Start Time: 04:15:00

End Time:

13:39:30

Time On Btm:

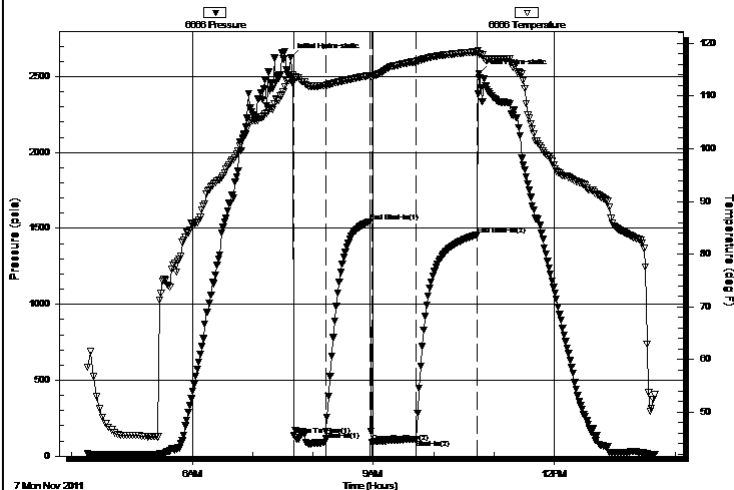
2011.11.07 @ 07:38:00

Time Off Btm:

2011.11.07 @ 10:45:00

TEST COMMENT: 1ST Opening 30 Minutes good steady blow /blow blew to bottom of bucket in 3 minutes
1ST Shut-In 45 Minutes no blow back
2ND Opening 45 Minutes very strong blow /blow blew bottom of bucket instantly
2ND Shut-In 60 Minutes yes blow back

Pressure vs. Time



PRESSURE SUMMARY

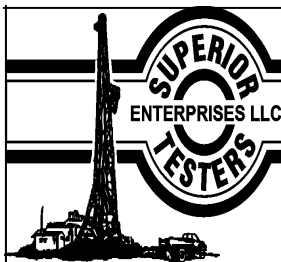
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2623.72	113.68	Initial Hydro-static
3	136.26	113.68	Open To Flow (1)
35	161.90	112.05	Shut-In(1)
79	1545.06	113.96	End Shut-In(1)
81	88.95	113.58	Open To Flow (2)
125	111.90	116.52	Shut-In(2)
185	1458.78	118.43	End Shut-In(2)
187	2520.34	118.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Drilling Mud 100%	1.75

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.40	0.52
Last Gas Rate	0.13	1.61	0.60
Max. Gas Rate	0.13	1.61	0.60



DRILL STEM TEST REPORT

Ritchie Exploration Inc.

16/28S/22W Ford Co.

8100 East 22nd Street North#700 Wichita Kansas
67278+3188

Fravel-Fisher #1

Job Ticket: 18692

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2011.11.07 @ 04:15:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: 5095.00 ft (KB)

Time Tool Opened: 07:41:00

Time Test Ended: 13:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/170

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

Total Depth: 5095.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2420.00 ft (KB)

2409.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6731

Inside

Press@RunDepth: 1457.87 psia @ 5090.26 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.11.07

End Date:

2011.11.08

Last Calib.:

2011.11.08

Start Time: 04:15:00

End Time:

13:39:30

Time On Btm:

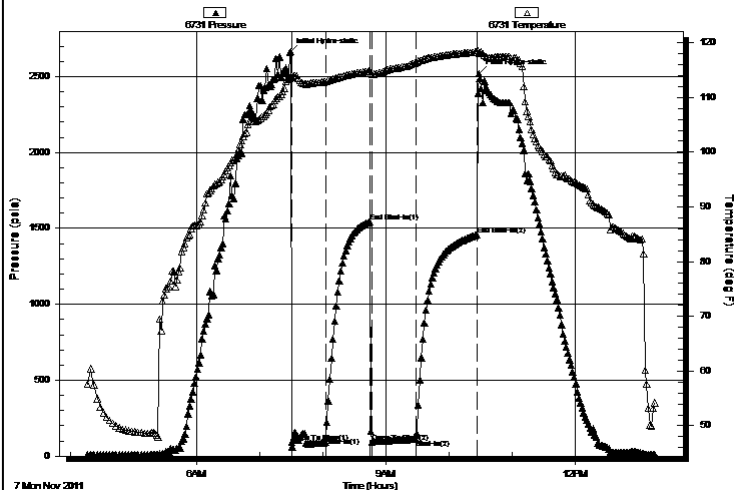
2011.11.07 @ 07:28:30

Time Off Btm:

2011.11.07 @ 10:28:30

TEST COMMENT: 1ST Opening 30 Minutes good steady blow /blow blew to bottom of bucket in 3 minutes
1ST Shut-In 45 Minutes no blow back
2ND Opening 45 Minutes very strong blow /blow blew bottom of bucket instantly
2ND Shut-In 60 Minutes yes blow back

Pressure vs. Time



PRESSURE SUMMARY

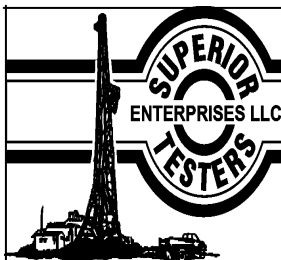
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2657.88	113.41	Initial Hydro-static
2	90.03	113.60	Open To Flow (1)
34	125.07	112.87	Shut-In(1)
76	1543.90	114.82	End Shut-In(1)
78	88.87	114.19	Open To Flow (2)
120	110.76	116.32	Shut-In(2)
178	1457.87	118.30	End Shut-In(2)
180	2518.89	118.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Drilling Mud 100%	1.75

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.40	0.52
Last Gas Rate	0.13	1.61	0.60
Max. Gas Rate	0.13	1.61	0.60



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

16/28S/22W Ford Co.

8100 East 22nd Street North#700 Wichita Kansas
67278+3188

Fravel-Fisher #1

Job Ticket: 18692

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2011.11.07 @ 04:15:00

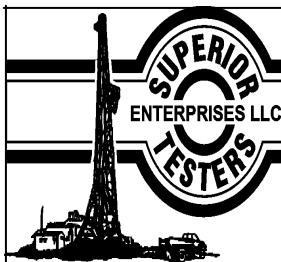
Tool Information

Drill Pipe:	Length:	5012.00 ft	Diameter:	3.80 inches	Volume:	70.31 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:	20000.00 lb
					Total Volume:	70.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft						String Weight: Initial	63000.00 lb
Depth to Top Packer:	5025.00 ft						Final	65000.00 lb
Depth to Bottom Packer:	ft							
Interval between Packers:	69.26 ft							
Tool Length:	98.26 ft							
Number of Packers:	2		Diameter:	6.75 inches				

Tool Comments: The first open was acting as if it was plugging. The blow was surging all through out the opening/ when we came off the the head joint/and the head was a little loose in it.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4997.00	
Shut-In Tool	5.00			5002.00	
Hydroic Tool	5.00			5007.00	
Jars	6.00			5013.00	
Safety Joint	2.00			5015.00	
Packer	5.00			5020.00	29.00 Bottom Of Top Packer
Packer	5.00			5025.00	
Perforations	6.00			5031.00	
Change Over Sub	0.75			5031.75	
Drill Pipe	31.76			5063.51	
Change Over Sub	0.75			5064.26	
Perforations	25.00			5089.26	
Recorder	1.00	6731	Inside	5090.26	
Recorder	1.00	6666	Outside	5091.26	
Bullnose	3.00			5094.26	69.26 Bottom Packers & Anchor

Total Tool Length: 98.26



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

16/28S/22W Ford Co.

8100 East 22nd Street North#700 Wichita Kansas
67278+3188

Fravel-Fisher #1

Job Ticket: 18692

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2011.11.07 @ 04:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 9.20 in³

Resistivity: ohm.m

Salinity: 9400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psia

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Drilling Mud 100%	1.753

Total Length: 125.00 ft Total Volume: 1.753 bbl

Num Fluid Samples: 0

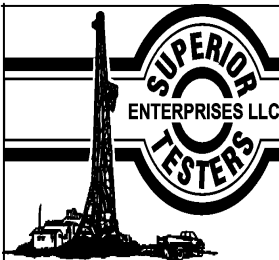
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Caught 2-Gas Samples, Burned the Gas at surface twice, Gauged the gas so look at the Gas Rates page. Thank You, and Thank You for the work.



DRILL STEM TEST REPORT

GAS RATES

Ritchie Exploration Inc.

16/28S/22W Ford Co.

8100 East 22nd Street North#700 Wichita Kansas
67278+3188

Fravel-Fisher #1

Job Ticket: 18692

DST#: 1

ATTN: Mike Engelbrecht

Test Start: 2011.11.07 @ 04:15:00

Gas Rates Information

Temperature: 59 (deg F)

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

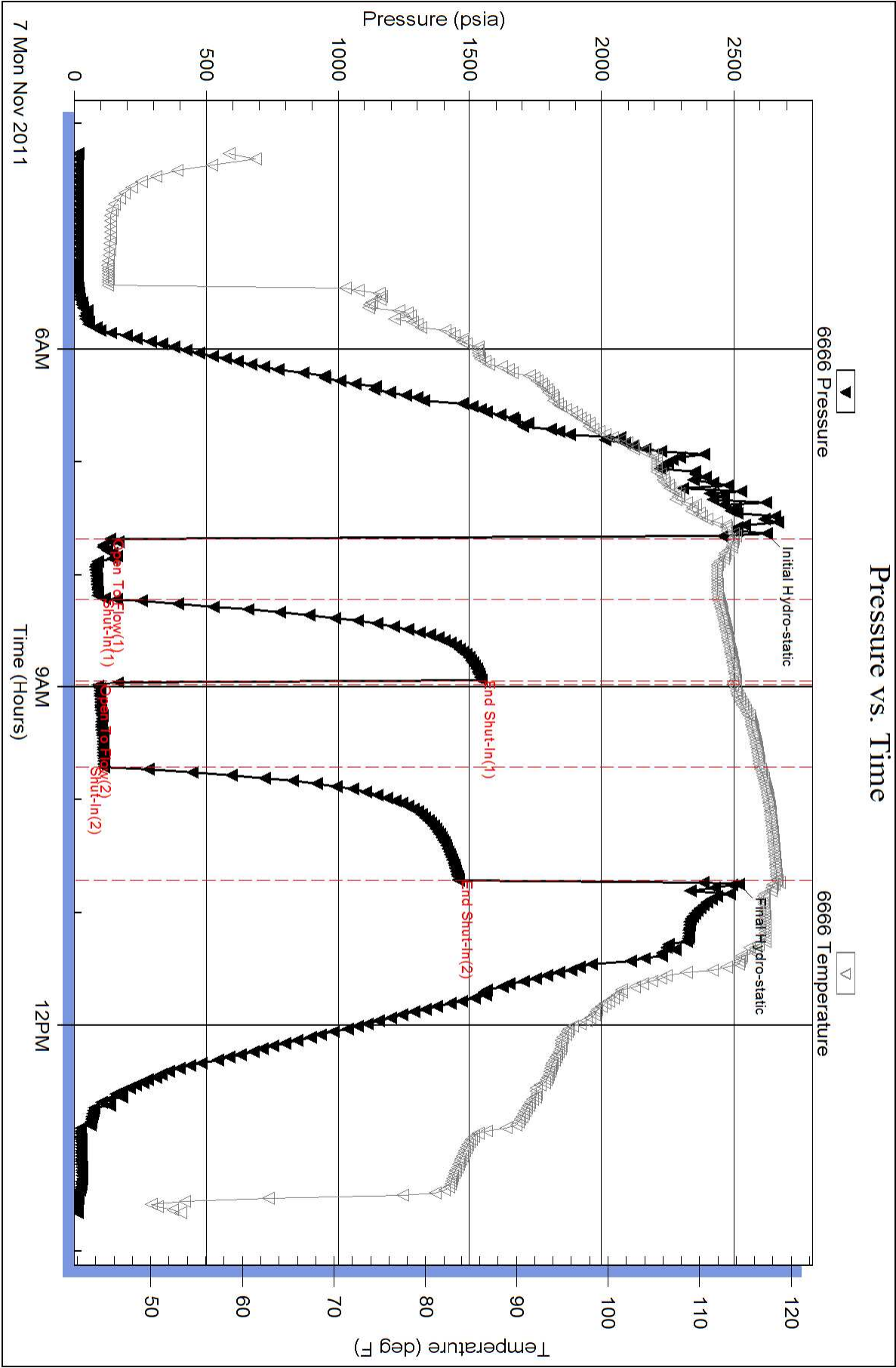
Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	0.13	1.40	0.52
2	15	0.13	1.40	0.52
2	20	0.13	1.50	0.56
2	25	0.13	1.50	0.56
2	30	0.13	1.50	0.56
2	35	0.13	1.60	0.60
2	40	0.13	1.61	0.60
2	45	0.13	1.61	0.60

Serial #: 6666

Outside Ritchie Exploration Inc.

Fravel-Fisher #1

DST Test Number: 1



Pressure vs. Time

