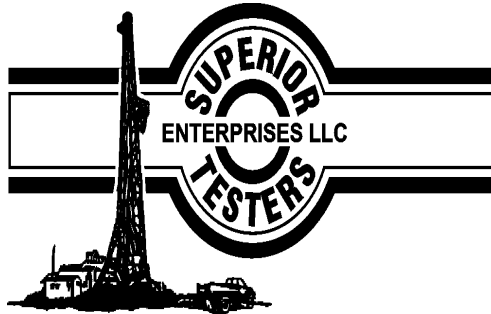




DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 East 22nd St. N. 700
Wichita Kansas 67278

ATTN: Dave Williams

L. Eichman #1

11-27s-24w-Ford

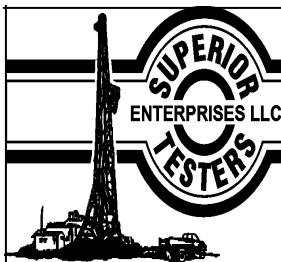
Start Date: 2013.11.15 @ 05:24:00

End Date: 2013.11.15 @ 11:09:00

Job Ticket #: 18543 DST #: 1

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

Printed: 2013.11.15 @ 21:22:46



DRILL STEM TEST REPORT

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18543

DST#: 1

ATTN: Dave Williams

Test Start: 2013.11.15 @ 05:24:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:19:00

Time Test Ended: 11:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-170

Interval: 4776.00 ft (KB) To 4812.00 ft (KB) (TVD)

Reference Elevations: 2446.00 ft (KB)

Total Depth: 4812.00 ft (KB) (TVD)

2435.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8524 Inside

Press@RunDepth: 70.68 psia @ 4808.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.15

End Date:

2013.11.15

Last Calib.: 2013.11.15

Start Time: 05:24:00

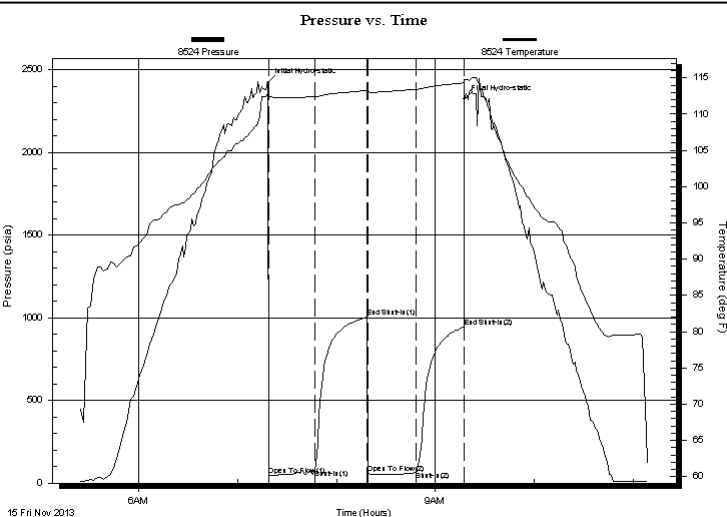
End Time:

11:09:00

Time On Btm: 2013.11.15 @ 07:18:30

Time Off Btm: 2013.11.15 @ 09:17:30

TEST COMMENT: 1st Open 30 minutes Weak surface blow though out.
1st Shut in 30 minutes No blow back.
2nd Open 30 minutes Weak surface blow though out.
2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

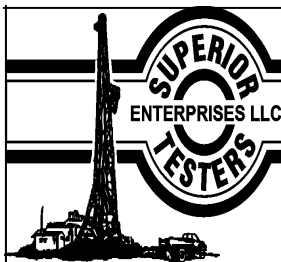
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2422.42	112.80	Initial Hydro-static
1	48.45	112.40	Open To Flow (1)
29	85.29	112.41	Shut-In (1)
60	1003.74	113.25	End Shut-In (1)
61	56.65	112.93	Open To Flow (2)
90	70.68	113.44	Shut-In (2)
119	944.17	114.28	End Shut-In (2)
119	2321.33	114.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
23.00	Very lightly oil spotted mud mud 100%	0.32

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18543

DST#: 1

ATTN: Dave Williams

Test Start: 2013.11.15 @ 05:24:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:19:00

Time Test Ended: 11:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-170

Interval: 4776.00 ft (KB) To 4812.00 ft (KB) (TVD)

Reference Elevations: 2446.00 ft (KB)

Total Depth: 4812.00 ft (KB) (TVD)

2435.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6839 Outside

Press@RunDepth: 942.28 psia @ 4809.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.15

End Date: 2013.11.15

Last Calib.: 2013.11.15

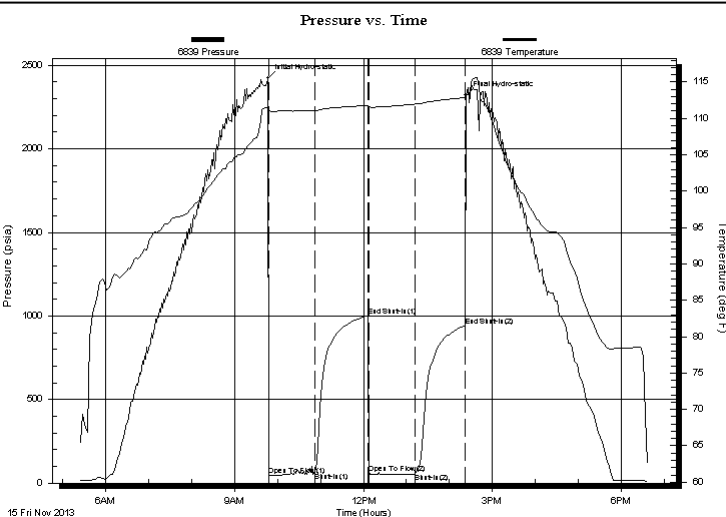
Start Time: 05:24:00

End Time: 18:38:00

Time On Btm: 2013.11.15 @ 09:47:00

Time Off Btm: 2013.11.15 @ 14:23:00

TEST COMMENT: 1st Open 30 minutes Weak surface blow though out.
1st Shut in 30 minutes No blow back.
2nd Open 30 minutes Weak surface blow though out.
2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

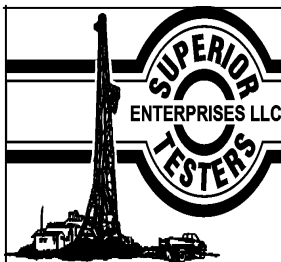
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2422.32	111.51	Initial Hydro-static
1	47.44	110.97	Open To Flow (1)
65	66.08	111.06	Shut-In(1)
139	1001.56	111.80	End Shut-In(1)
140	55.72	111.46	Open To Flow (2)
206	58.49	111.96	Shut-In(2)
275	942.28	112.85	End Shut-In(2)
276	2320.60	113.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
23.00	Very lightly oil spotted mud mud 100%	0.32

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18543

DST#: 1

ATTN: Dave Williams

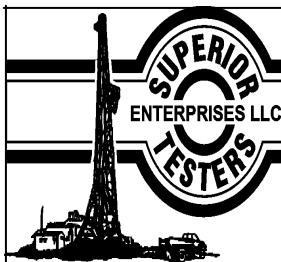
Test Start: 2013.11.15 @ 05:24:00

Tool Information

Drill Pipe:	Length: 4769.00 ft	Diameter: 3.80 inches	Volume: 66.90 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: 100000.0 lb
		Total Volume:	66.90 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4776.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4753.00	
Hydrolic Tool	5.00			4758.00	
Jars	6.00			4764.00	
Safety Joint	2.00			4766.00	
Packer	5.00			4771.00	28.00 Bottom Of Top Packer
Packer	5.00			4776.00	
Anchor	31.00			4807.00	
Recorder	1.00	8524	Inside	4808.00	
Recorder	1.00	6839	Outside	4809.00	
Bull Plug	3.00			4812.00	36.00 Bottom Packers & Anchor
Total Tool Length:	64.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18543

DST#: 1

ATTN: Dave Williams

Test Start: 2013.11.15 @ 05:24:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 8.00 in³

Resistivity: ohm.m

Salinity: 4000.00 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
23.00	Very lightly oil spotted mud mud 100%	0.323

Total Length: 23.00 ft

Total Volume: 0.323 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8524

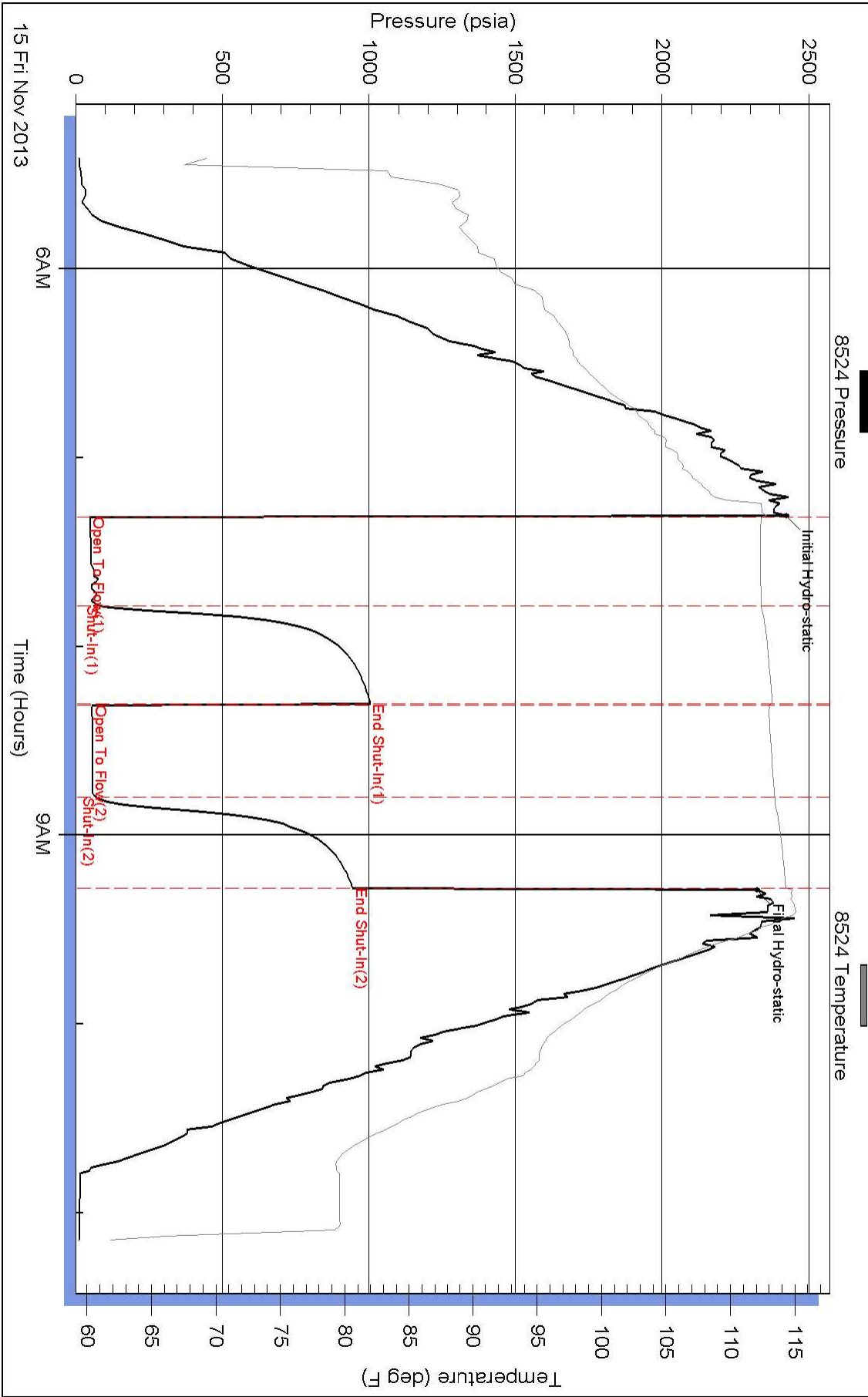
Inside

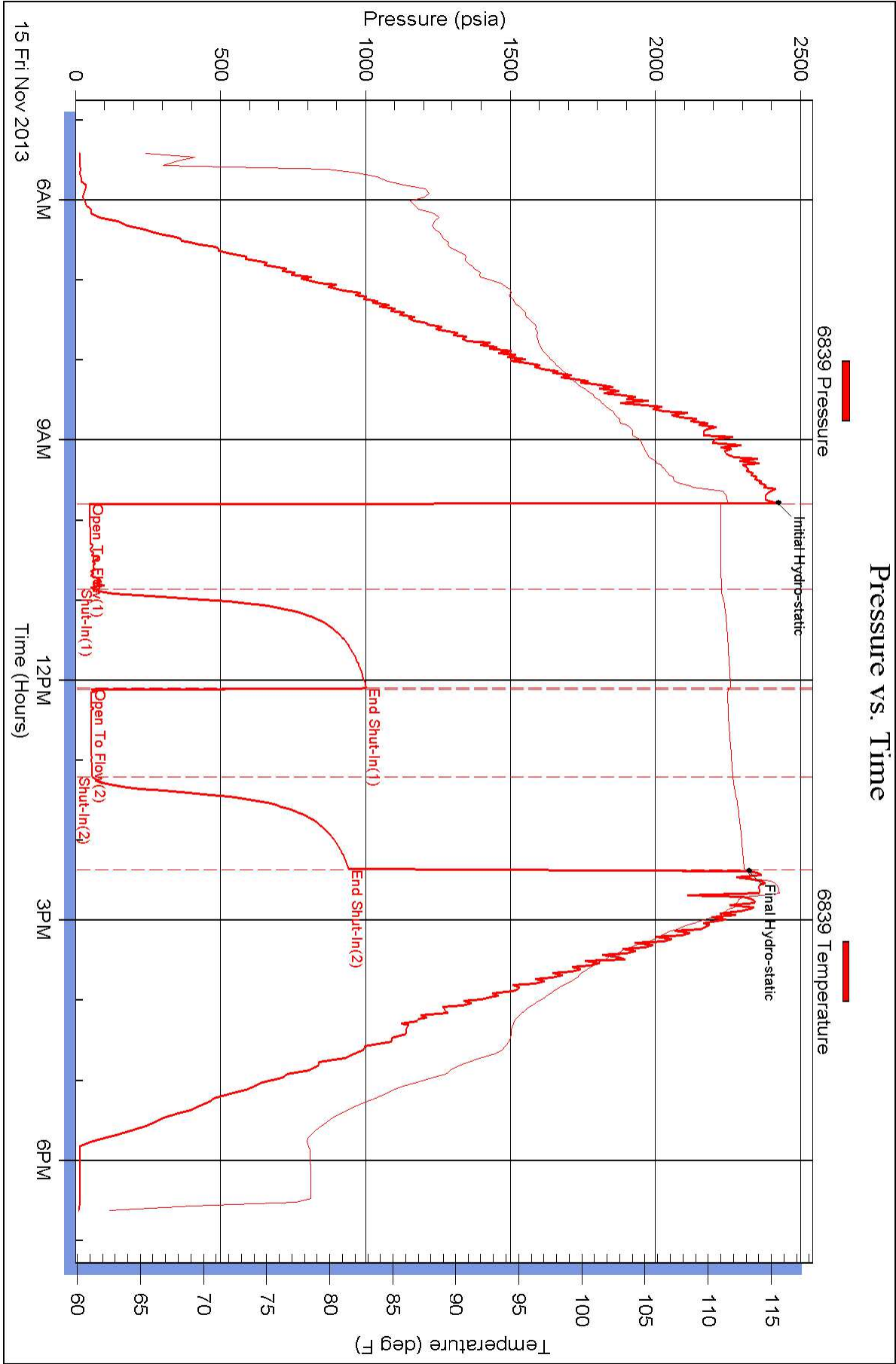
Ritchie Exploration

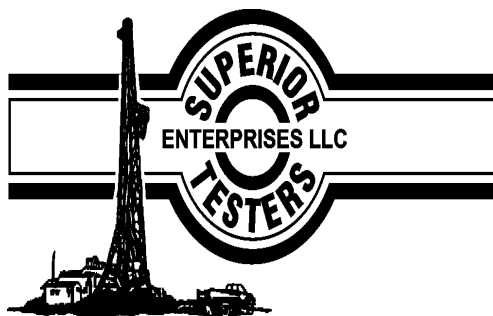
L. Echnan #1

DST Test Number: 1

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 East 22nd St. N. 700
Wichita Kansas 67278

ATTN: Dave Williams

L. Eichman #1

11-27s-24w-Ford

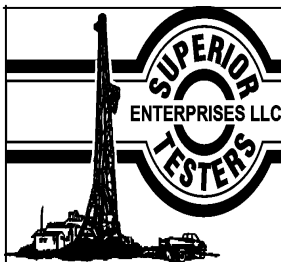
Start Date: 2013.11.16 @ 10:50:00

End Date: 2013.11.16 @ 18:15:00

Job Ticket #: 18544 DST #: 2

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

Printed: 2013.11.17 @ 04:30:18



DRILL STEM TEST REPORT

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18544

DST#: 2

ATTN: Dave Williams

Test Start: 2013.11.16 @ 10:50:00

GENERAL INFORMATION:

Formation: **Huck-Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:01:30

Time Test Ended: 18:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-170

Interval: 4840.00 ft (KB) To 4945.00 ft (KB) (TVD)

Reference Elevations: 2446.00 ft (KB)

Total Depth: 4945.00 ft (KB) (TVD)

2435.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8524 Inside

Press@RunDepth: 122.44 psia @ 4941.39 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.16

End Date:

2013.11.16

Last Calib.: 2013.11.17

Start Time: 10:50:00

End Time:

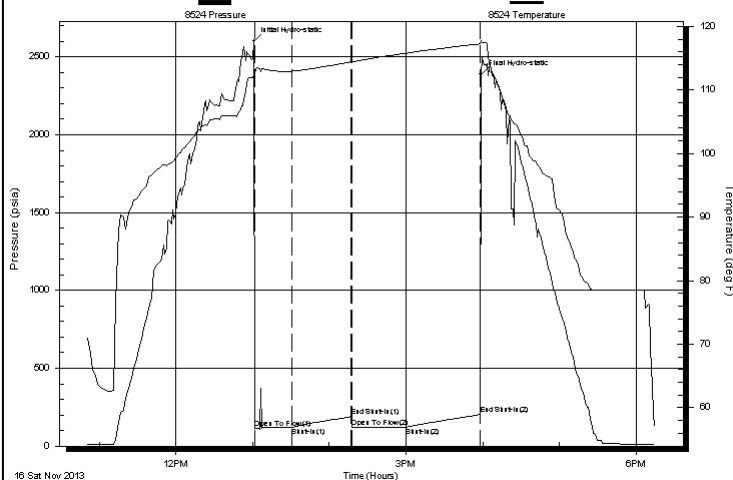
18:15:00

Time On Btm: 2013.11.16 @ 13:01:00

Time Off Btm: 2013.11.16 @ 15:58:30

TEST COMMENT: 1st Open 30 minutes Weak building blow built to 3 inches into a 5 gallon bucket of water.
1st Shut in 45 minutes No blow back
2nd Open 45 minutes Weak building blow built to 2.5 inches into a 5 gallon bucket of water.
2nd Shut in 60 minutes No blow back

Pressure vs. Time



PRESSURE SUMMARY

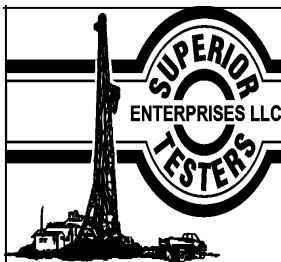
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2600.49	112.25	Initial Hydro-static
1	112.16	112.61	Open To Flow (1)
30	120.68	112.98	Shut-In (1)
77	188.90	114.44	End Shut-In (1)
77	120.11	114.45	Open To Flow (2)
119	122.44	115.81	Shut-In (2)
177	203.18	117.27	End Shut-In (2)
178	2388.06	117.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
52.00	Mud 100%	0.73

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18544

DST#: 2

ATTN: Dave Williams

Test Start: 2013.11.16 @ 10:50:00

GENERAL INFORMATION:

Formation: **Huck-Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:01:30

Time Test Ended: 18:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-170

Interval: 4840.00 ft (KB) To 4945.00 ft (KB) (TVD)

Reference Elevations: 2446.00 ft (KB)

Total Depth: 4945.00 ft (KB) (TVD)

2435.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6839 Outside

Press@RunDepth: 202.20 psia @ 4942.39 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.16

End Date:

2013.11.17

Last Calib.: 2013.11.17

Start Time: 10:50:00

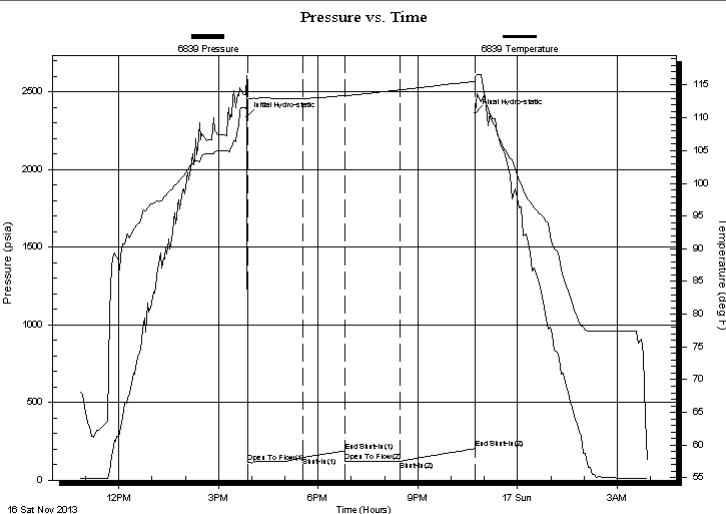
End Time:

03:57:00

Time On Btm: 2013.11.16 @ 15:51:30

Time Off Btm: 2013.11.16 @ 22:44:00

TEST COMMENT: 1st Open 30 minutes Weak building blow built to 3 inches into a 5 gallon bucket of water.
1st Shut in 45 minutes No blow back
2nd Open 45 minutes Weak building blow built to 2.5 inches into a 5 gallon bucket of water.
2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

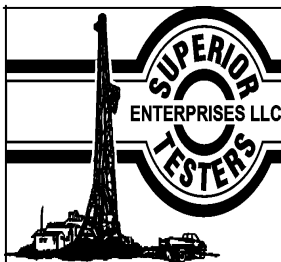
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2338.55	112.38	Initial Hydro-static
1	112.23	111.94	Open To Flow (1)
102	145.60	112.98	Shut-In(1)
176	188.53	113.40	End Shut-In(1)
177	118.92	113.38	Open To Flow (2)
276	121.93	114.28	Shut-In(2)
412	202.20	115.57	End Shut-In(2)
413	2363.29	116.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
52.00	Mud 100%	0.73

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18544

DST#: 2

ATTN: Dave Williams

Test Start: 2013.11.16 @ 10:50:00

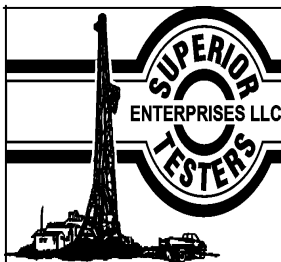
Tool Information

Drill Pipe:	Length:	4849.00 ft	Diameter:	3.80 inches	Volume:	68.02 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:	83000.00 lb
					Total Volume:	68.02 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		29.00 ft					String Weight: Initial	80000.00 lb
Depth to Top Packer:		4840.00 ft					Final	80000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		105.39 ft						
Tool Length:		125.39 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4825.00	
Hydraulic Tool	5.00			4830.00	
Packer	5.00			4835.00	20.00 Bottom Of Top Packer
Packer	5.00			4840.00	
Anchor	5.00			4845.00	
Change Over Sub	0.75			4845.75	
Drill Pipe	62.89			4908.64	
Change Over Sub	0.75			4909.39	
Anchor	31.00			4940.39	
Recorder	1.00	8524	Inside	4941.39	
Recorder	1.00	6839	Outside	4942.39	
Bull Plug	3.00			4945.39	105.39 Bottom Packers & Anchor

Total Tool Length: 125.39



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18544

DST#: 2

ATTN: Dave Williams

Test Start: 2013.11.16 @ 10:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 4000.00 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
52.00	Mud 100%	0.729

Total Length: 52.00 ft

Total Volume: 0.729 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8524

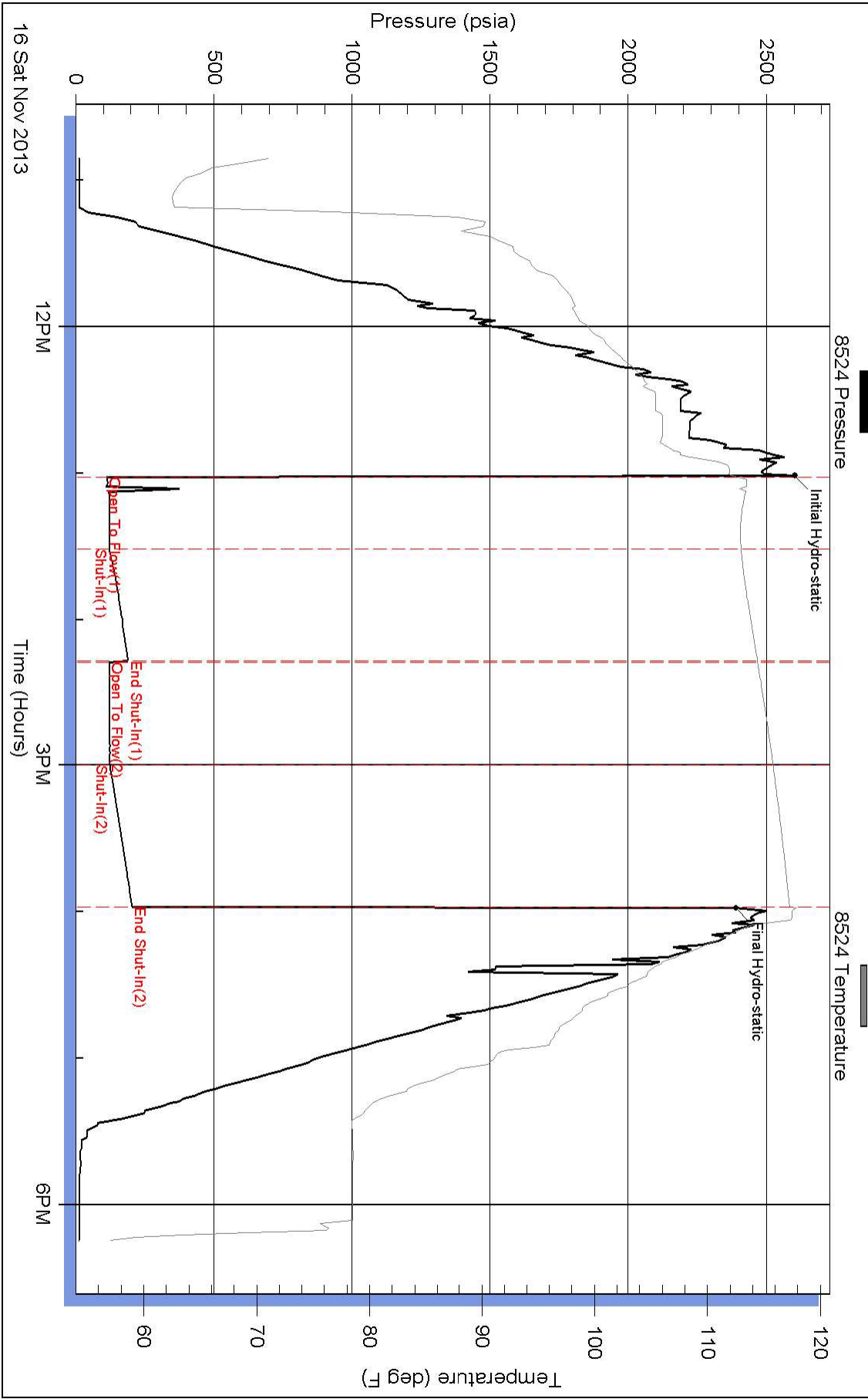
Inside

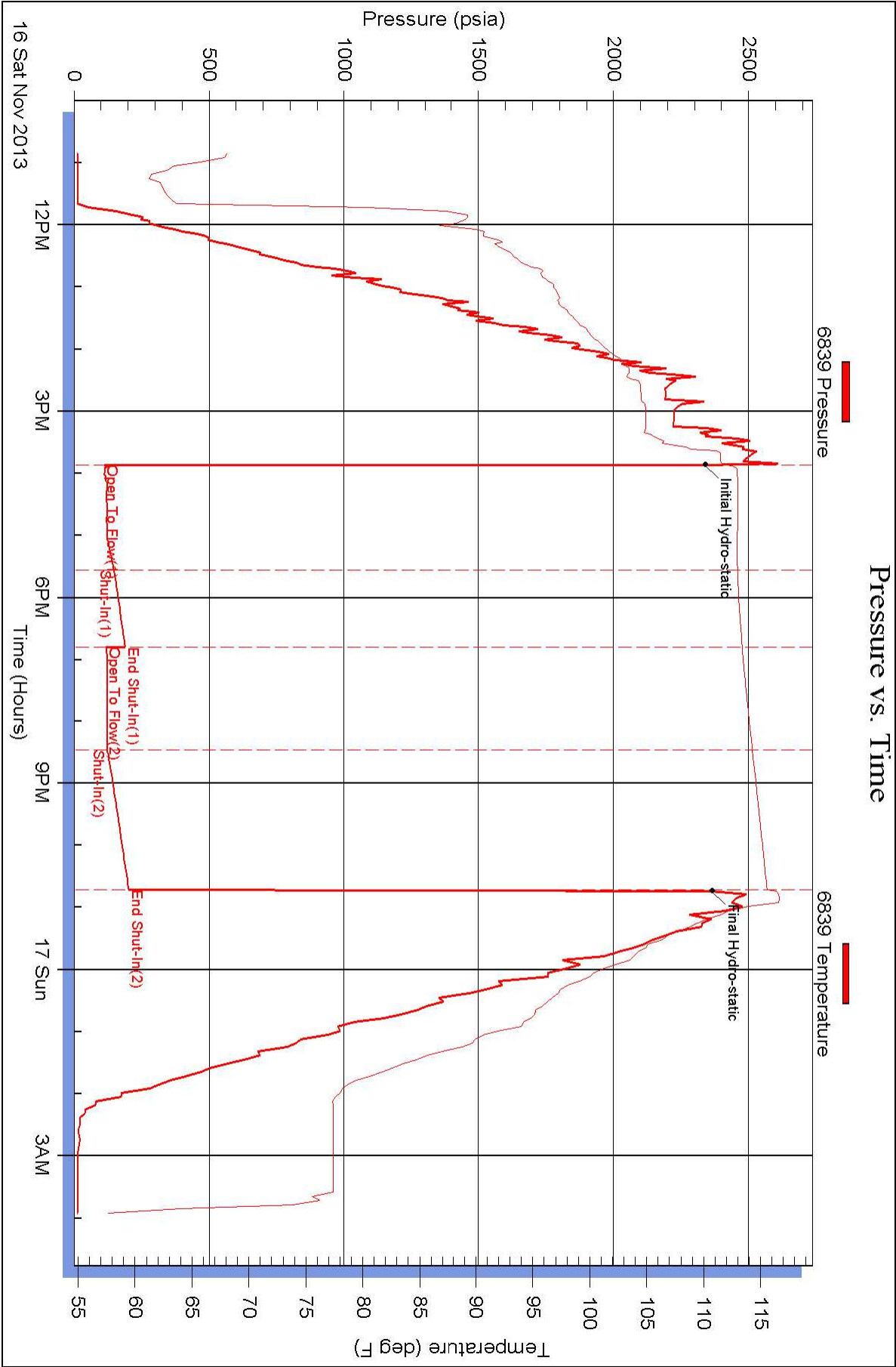
Ritchie Exploration

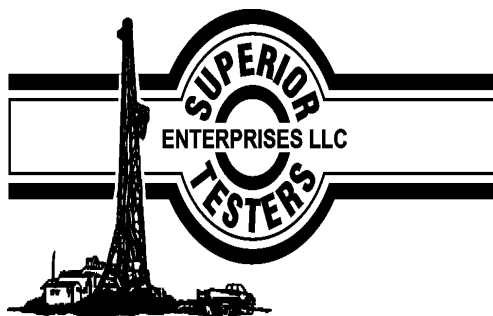
L. Echnan #1

DST Test Number: 2

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 East 22nd St. N. 700
Wichita Kansas 67278

ATTN: Dave Williams

L. Eichman #1

11-27s-24w-Ford

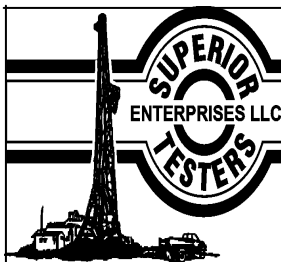
Start Date: 2013.11.17 @ 09:12:00

End Date: 2013.11.17 @ 16:14:30

Job Ticket #: 18545 DST #: 3

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

Printed: 2013.11.18 @ 02:30:03



DRILL STEM TEST REPORT

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18545

DST#: 3

ATTN: Dave Williams

Test Start: 2013.11.17 @ 09:12:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:20:30

Time Test Ended: 16:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-170

Interval: 4909.00 ft (KB) To 4990.00 ft (KB) (TVD)

Reference Elevations: 2446.00 ft (KB)

Total Depth: 4990.00 ft (KB) (TVD)

2435.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8524 Inside

Press@RunDepth: 90.98 psia @ 4986.82 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.17

End Date:

2013.11.17

Last Calib.:

2013.11.18

Start Time: 09:12:00

End Time:

16:14:30

Time On Btm:

2013.11.17 @ 11:20:00

Time Off Btm:

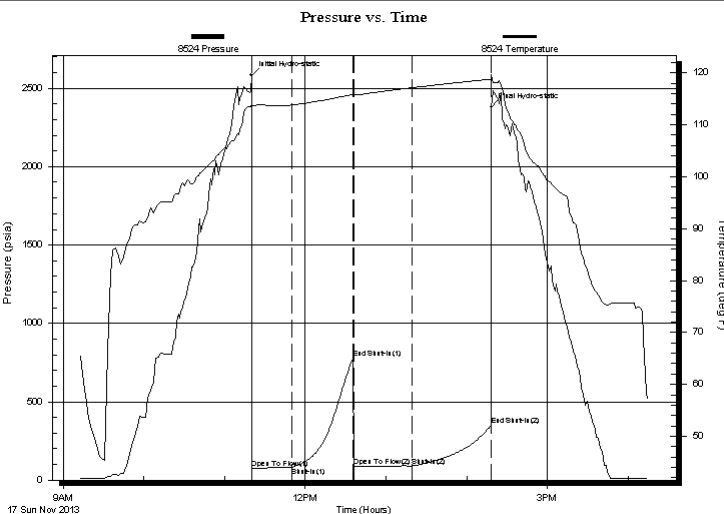
2013.11.17 @ 14:18:30

TEST COMMENT: 1st Open 30 minutes Weak blow built to 1.5 inches into a 5 gallon bucket of water.

1st Shut in 45 minutes No blow back

2nd Open 45 minutes Weak blow built to 1.5 inches stayed through out.

2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

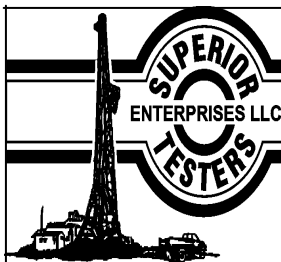
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2583.20	113.84	Initial Hydro-static
1	73.51	113.68	Open To Flow (1)
30	82.18	113.82	Shut-In (1)
76	781.51	115.86	End Shut-In (1)
77	85.46	115.75	Open To Flow (2)
119	90.98	117.14	Shut-In (2)
178	347.62	118.78	End Shut-In (2)
179	2379.70	119.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Very lightly oil spotted mud mud 100%	0.63

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18545

DST#: 3

ATTN: Dave Williams

Test Start: 2013.11.17 @ 09:12:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:20:30

Time Test Ended: 16:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-170

Interval: 4909.00 ft (KB) To 4990.00 ft (KB) (TVD)

Reference Elevations: 2446.00 ft (KB)

Total Depth: 4990.00 ft (KB) (TVD)

2435.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6839 Outside

Press@RunDepth: 348.83 psia @ 4987.82 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.17

End Date:

2013.11.18

Last Calib.: 2013.11.18

Start Time: 09:12:00

End Time:

01:24:00

Time On Btm: 2013.11.17 @ 14:04:30

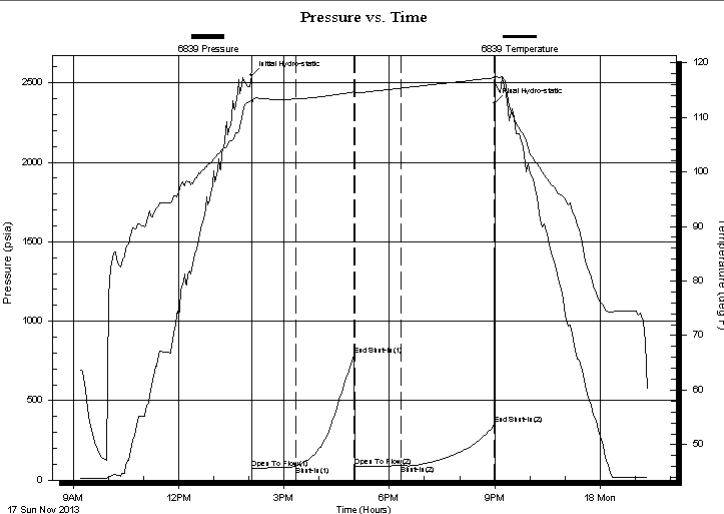
Time Off Btm: 2013.11.17 @ 21:00:00

TEST COMMENT: 1st Open 30 minutes Weak blow built to 1.5 inches into a 5 gallon bucket of water.

1st Shut in 45 minutes No blow back

2nd Open 45 minutes Weak blow built to 1.5 inches stayed through out.

2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

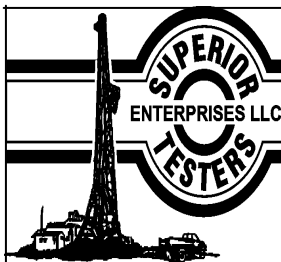
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2548.22	113.08	Initial Hydro-static
1	74.46	112.57	Open To Flow (1)
76	89.88	113.35	Shut-In(1)
176	785.70	114.63	End Shut-In(1)
177	86.87	114.46	Open To Flow (2)
255	90.58	115.33	Shut-In(2)
415	348.83	117.21	End Shut-In(2)
416	2374.29	117.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Very lightly oil spotted mud mud 100%	0.63

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18545

DST#: 3

ATTN: Dave Williams

Test Start: 2013.11.17 @ 09:12:00

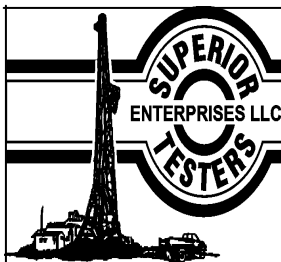
Tool Information

Drill Pipe:	Length:	4906.00 ft	Diameter:	3.80 inches	Volume:	68.82 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:	87000.00 lb
					Total Volume:	68.82 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft							
Depth to Top Packer:	4909.00 ft							
Depth to Bottom Packer:	ft							
Interval between Packers:	81.82 ft							
Tool Length:	101.82 ft							
Number of Packers:	2		Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4894.00	
Hydraulic Tool	5.00			4899.00	
Packer	5.00			4904.00	20.00 Bottom Of Top Packer
Packer	5.00			4909.00	
Anchor	5.00			4914.00	
Change Over Sub	0.75			4914.75	
Drill Pipe	31.32			4946.07	
Change Over Sub	0.75			4946.82	
Anchor	39.00			4985.82	
Recorder	1.00	8524	Inside	4986.82	
Recorder	1.00	6839	Outside	4987.82	
Bull Plug	3.00			4990.82	81.82 Bottom Packers & Anchor

Total Tool Length: 101.82



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

11-27s-24w-Ford

8100 East 22nd St. N. 700
Wichita Kansas 67278

L. Eichman #1

Job Ticket: 18545

DST#: 3

ATTN: Dave Williams

Test Start: 2013.11.17 @ 09:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.00 in³

Resistivity: ohm.m

Salinity: 4100.00 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
45.00	Very lightly oil spotted mud mud 100%	0.631

Total Length: 45.00 ft

Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8524

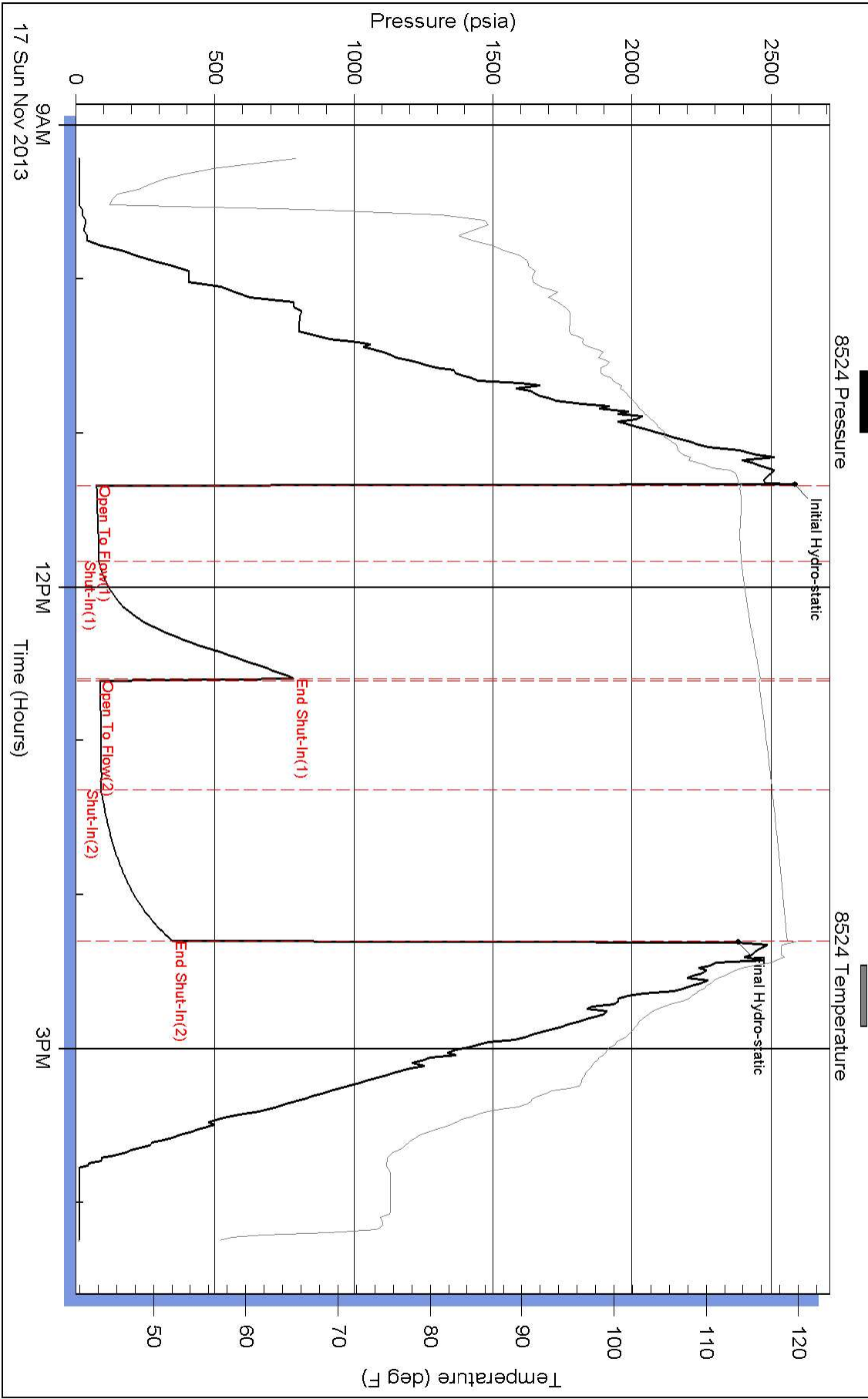
Inside

Ritchie Exploration

L. Echnan #1

DST Test Number: 3

Pressure vs. Time



Serial #: 6839

Outside Ritchie Exploration

L. Echnan #1

DST Test Number: 3

