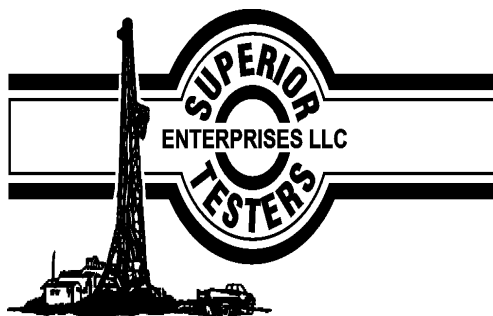




DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Incorporated**

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

ATTN: Adam Eldani

Potosi #2

13/27S/24W/Ford

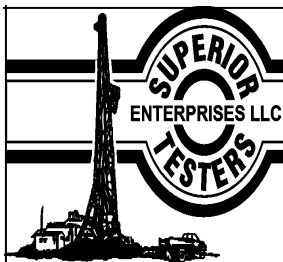
Start Date: 2012.11.15 @ 12:51:00

End Date: 2012.11.15 @ 20:35:30

Job Ticket #: 16914 DST #: 1

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

Printed: 2012.11.15 @ 21:07:01



DRILL STEM TEST REPORT

Ritchie Exploration Incorporated

13/27S/24W/Ford

8100 East 22nd Street North
#700
Wichita, Kansas 67278+3188
ATTN: Adam Eldani

Potosi #2

Job Ticket: 16914

DST#: 1

Test Start: 2012.11.15 @ 12:51:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:00:30

Time Test Ended: 20:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Pratt/144

Interval: **4777.00 ft (KB) To 4808.00 ft (KB) (TVD)**

Total Depth: 4808.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 2451.00 ft (KB)

2440.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6749** Inside

Press@RunDepth: 224.68 psia @ 4804.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.11.15

End Date:

2012.11.15

Last Calib.: 2012.11.15

Start Time: 12:51:00

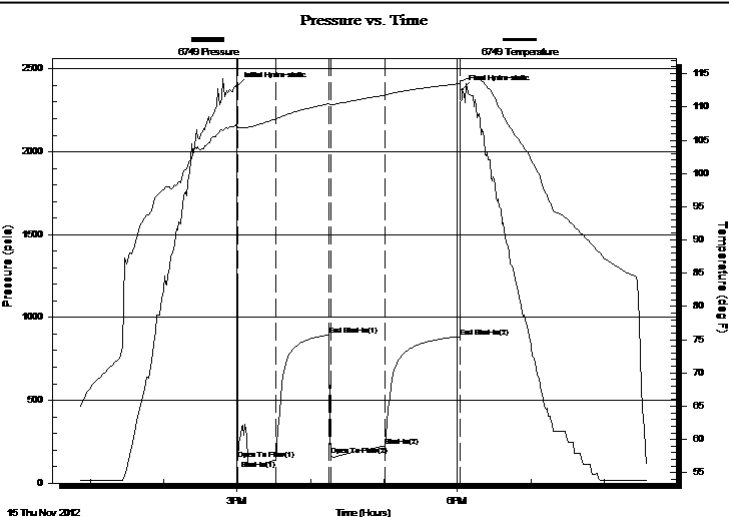
End Time:

20:35:30

Time On Btm: 2012.11.15 @ 15:00:00

Time Off Btm: 2012.11.15 @ 18:04:00

TEST COMMENT: 1ST Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 2 1/2 minutes
1ST Shut In 45 Minutes/Blow back built to bottom of bucket in 7 minutes
2ND Open 45 Minutes/Strong blow/Blow built to bottom of bucket in 1 3/4 minutes
2ND Shut In 60 Minutes/Blow back built to bottom of bucket in 2 minutes



PRESSURE SUMMARY

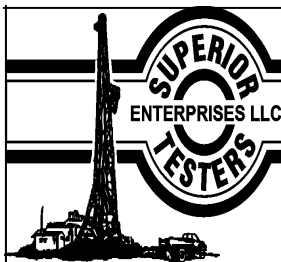
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2392.76	107.50	Initial Hydro-static
1	143.22	106.94	Open To Flow (1)
32	135.94	108.19	Shut-In(1)
75	895.18	110.48	End Shut-In(1)
77	168.81	110.35	Open To Flow (2)
121	224.68	111.76	Shut-In(2)
182	884.20	113.51	End Shut-In(2)
184	2374.07	113.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Clean Gassy Oil	4.21
0.00	Gas 25% Oil 75%	0.00
360.00	Gassy Muddy Oil	5.05
0.00	Gas 25% Mud 25% Oil 50%	0.00
90.00	Water and Oily Gas	1.26
0.00	Water 25% Oil 30% Gas 45%	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.25	6.69	10.61
Last Gas Rate	0.25	7.70	12.21
Max. Gas Rate	0.25	7.70	12.21



DRILL STEM TEST REPORT

Ritchie Exploration Incorporated

13/27S/24W/Ford

8100 East 22nd Street North
#700
Wichita, Kansas 67278+3188
ATTN: Adam Eldani

Potosi #2

Job Ticket: 16914

DST#: 1

Test Start: 2012.11.15 @ 12:51:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:00:30

Time Test Ended: 20:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Pratt/144

Interval: **4777.00 ft (KB) To 4808.00 ft (KB) (TVD)**

Reference Elevations: 2451.00 ft (KB)

Total Depth: 4808.00 ft (KB) (TVD)

2440.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: **6999** Outside

Press@RunDepth: 883.87 psia @ 4805.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.11.15

End Date:

2012.11.15

Last Calib.:

2012.11.15

Start Time: 12:51:00

End Time:

20:35:30

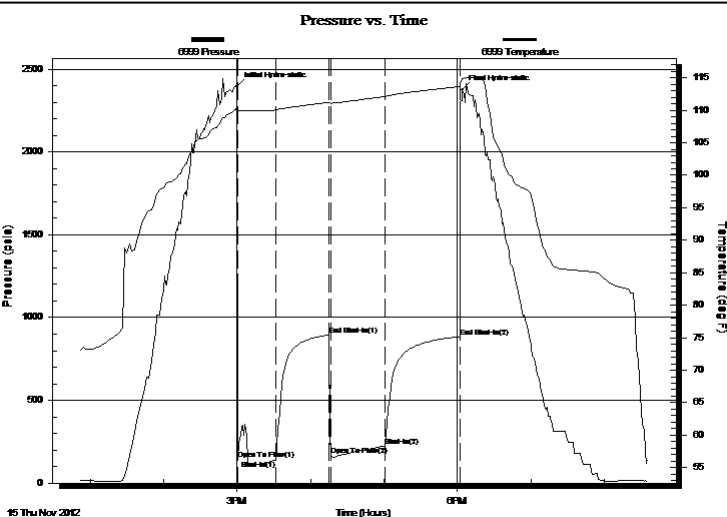
Time On Btm:

2012.11.15 @ 15:00:00

Time Off Btm:

2012.11.15 @ 18:04:00

TEST COMMENT: 1ST Open 30 Minutes/Strong blow/Blow built to bottom of bucket in 2 1/2 minutes
1ST Shut In 45 Minutes/Blow back built to bottom of bucket in 7 minutes
2ND Open 45 Minutes/Strong blow/Blow built to bottom of bucket in 1 3/4 minutes
2ND Shut In 60 Minutes/Blow back built to bottom of bucket in 2 minutes



PRESSURE SUMMARY

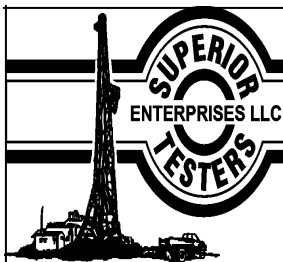
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2393.84	110.52	Initial Hydro-static
1	143.30	109.98	Open To Flow (1)
32	136.41	110.06	Shut-In(1)
75	895.10	111.22	End Shut-In(1)
77	169.14	111.09	Open To Flow (2)
121	225.12	112.11	Shut-In(2)
182	883.87	113.65	End Shut-In(2)
184	2374.50	114.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Clean Gassy Oil	4.21
0.00	Gas 25% Oil 75%	0.00
360.00	Gassy Muddy Oil	5.05
0.00	Gas 25% Mud 25% Oil 50%	0.00
90.00	Water and Oily Gas	1.26
0.00	Water 25% Oil 30% Gas 45%	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.25	6.69	10.61
Last Gas Rate	0.25	7.70	12.21
Max. Gas Rate	0.25	7.70	12.21



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Incorporated

13/27S/24W/Ford

8100 East 22nd Street North
#700
Wichita, Kansas 67278+3188
ATTN: Adam Eldani

Potosi #2

Job Ticket: 16914

DST#: 1

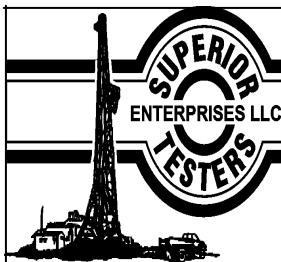
Test Start: 2012.11.15 @ 12:51:00

Tool Information

Drill Pipe:	Length:	4758.00 ft	Diameter:	3.80 inches	Volume:	66.74 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:	70000.00 lb
					Total Volume:	66.74 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		8.00 ft					String Weight: Initial	60000.00 lb
Depth to Top Packer:		4777.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		31.00 ft						
Tool Length:		58.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4755.00	
Hydrolic Tool	5.00			4760.00	
Jars	5.00			4765.00	
Safety Joint	2.00			4767.00	
Packer	5.00			4772.00	27.00 Bottom Of Top Packer
Packer	5.00			4777.00	
Anchor	26.00			4803.00	
Recorder	1.00	6749	Inside	4804.00	
Recorder	1.00	6999	Outside	4805.00	
Bullnose	3.00			4808.00	31.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Incorporated

13/27S/24W/Ford

8100 East 22nd Street North
#700
Wichita, Kansas 67278+3188
ATTN: Adam Eldani

Potosi #2

Job Ticket: 16914

DST#: 1

Test Start: 2012.11.15 @ 12:51:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 5700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psia

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	Clean Gassy Oil	4.208
0.00	Gas 25% Oil 75%	0.000
360.00	Gassy Muddy Oil	5.050
0.00	Gas 25% Mud 25% Oil 50%	0.000
90.00	Water and Oily Gas	1.262
0.00	Water 25% Oil 30% Gas 45%	0.000
0.00	Corrected Spec. Grav. Oil 35	0.000
0.00	Recov Chlorides 45000 ppm	0.000

Total Length: 750.00 ft

Total Volume: 10.520 bbl

Num Fluid Samples: 0

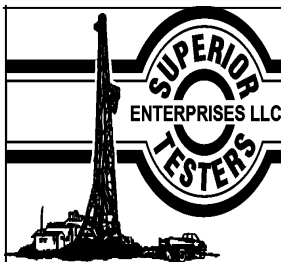
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

Ritchie Exploration Incorporated

13/27S/24W/Ford

8100 East 22nd Street North
#700
Wichita, Kansas 67278+3188
ATTN: Adam Eldani

Potosi #2

Job Ticket: 16914

DST#: 1

Test Start: 2012.11.15 @ 12:51:00

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)
1	30	0.25	6.69	10.61
2	5	0.25	5.29	8.39
2	15	0.25	6.75	10.71
2	25	0.25	6.90	10.95
2	35	0.25	7.00	11.11
2	45	0.25	7.70	12.21

Serial #: 6749

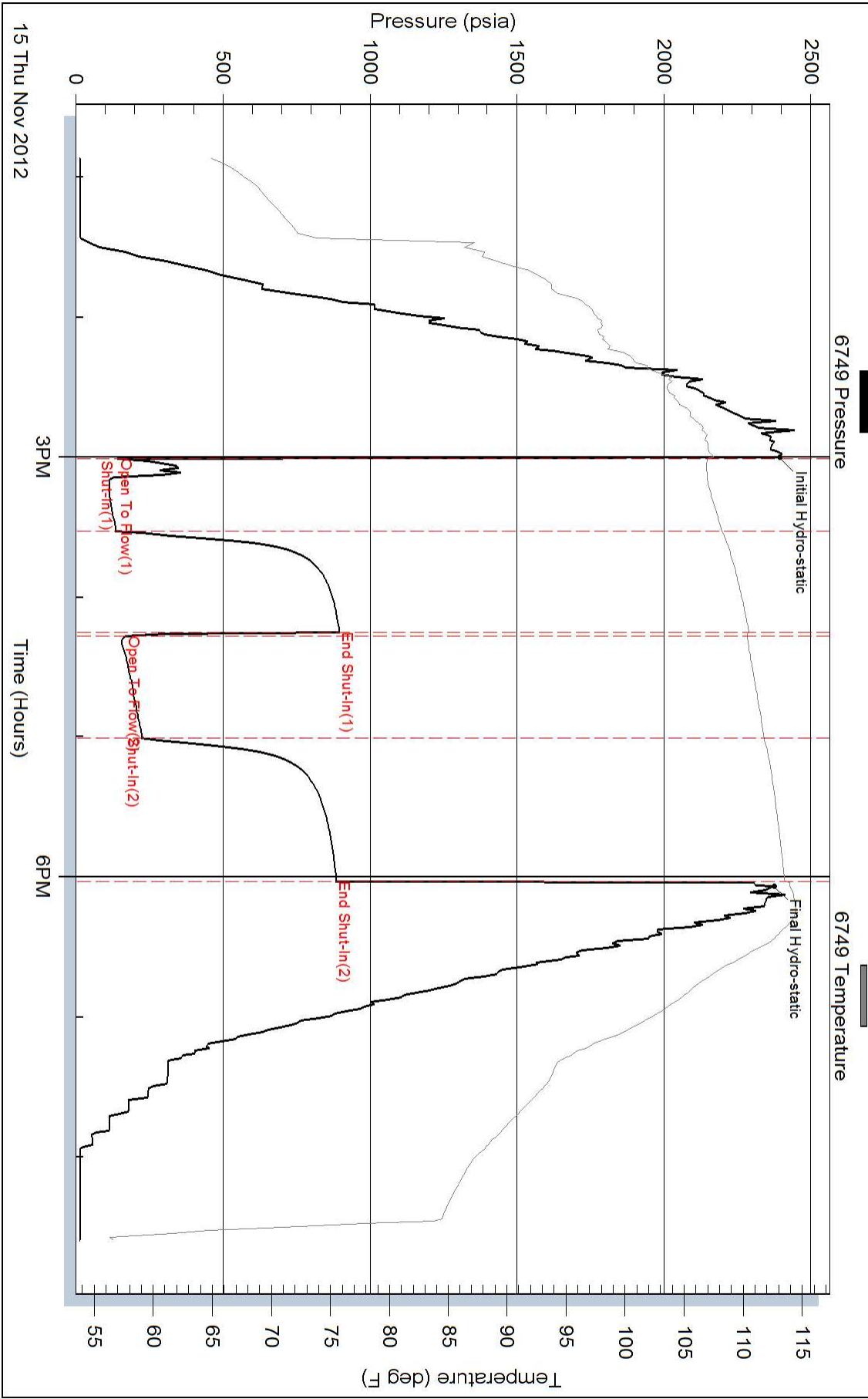
Inside

Ritchie Exploration Incorporated

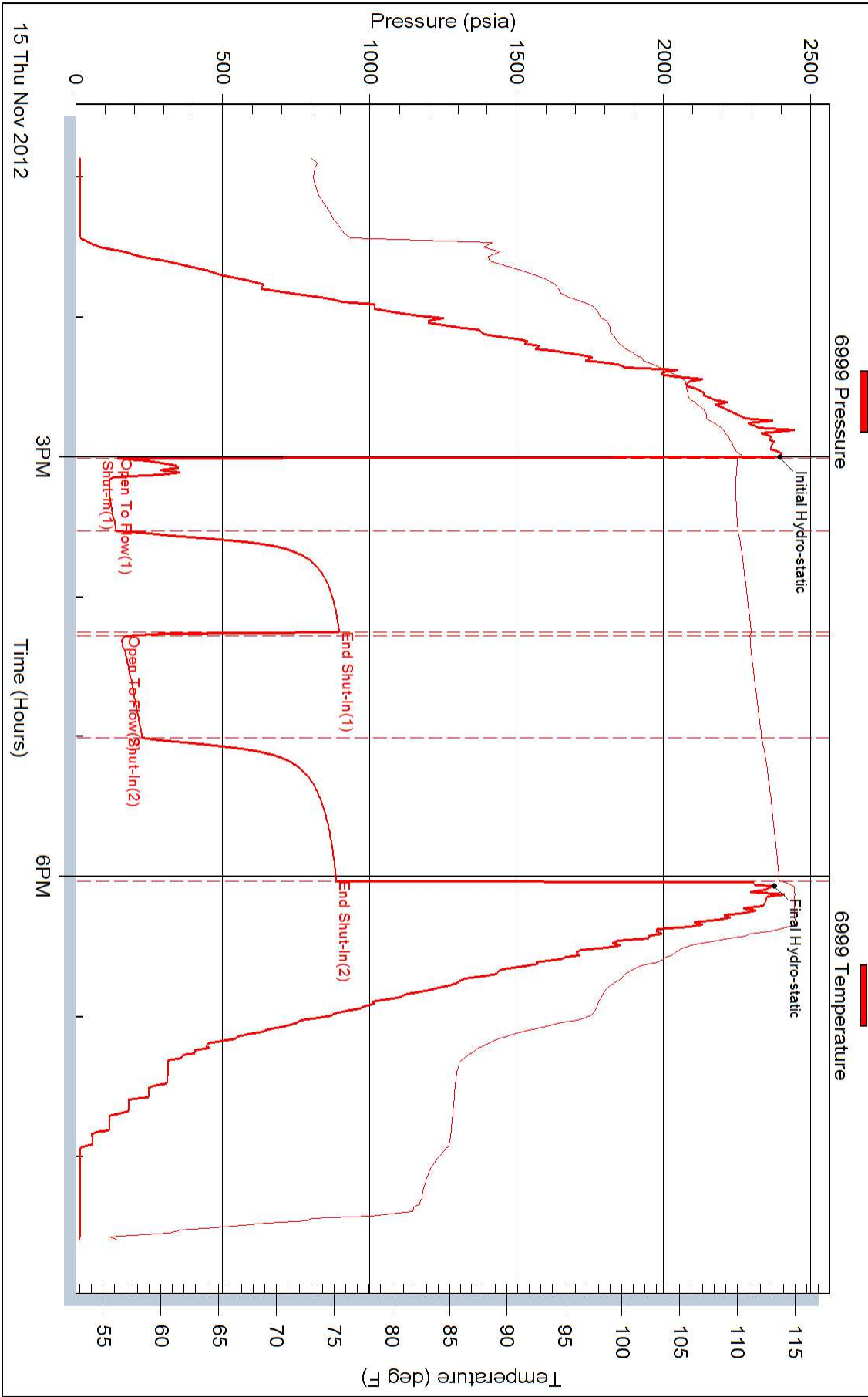
Potosi #2

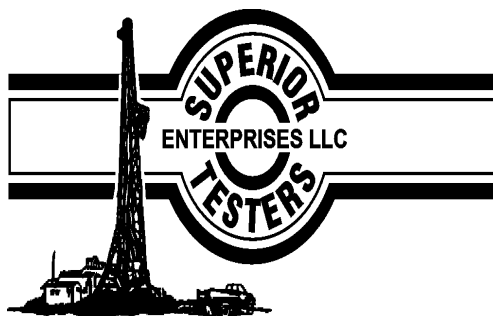
DST Test Number: 1

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Incorporated**

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

ATTN: Adam Eldani

Potosi #2

13/27S/24W/Ford

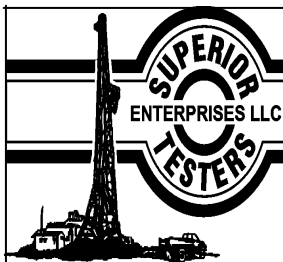
Start Date: 2012.11.16 @ 16:00:00

End Date: 2012.11.16 @ 22:44:00

Job Ticket #: 16915 DST #: 2

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

Printed: 2012.11.16 @ 22:55:53



DRILL STEM TEST REPORT

Ritchie Exploration Incorporated

13/27S/24W/Ford

8100 East 22nd Street North
#700
Wichita, Kansas 67278+3188
ATTN: Adam Eldani

Potosi #2

Job Ticket: 16915

DST#: 2

Test Start: 2012.11.16 @ 16:00:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:41:30

Time Test Ended: 22:44:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Pratt/144

Interval: 4829.00 ft (KB) To 4937.00 ft (KB) (TVD)

Reference Elevations: 2451.00 ft (KB)

Total Depth: 4937.00 ft (KB) (TVD)

2440.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6749 Inside

Press@RunDepth: 113.34 psia @ 4933.33 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.11.16

End Date: 2012.11.16

Last Calib.: 2012.11.16

Start Time: 16:00:00

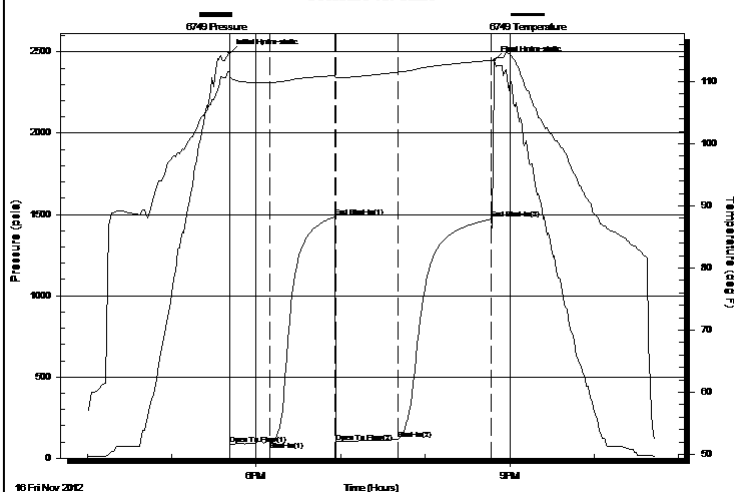
End Time: 22:44:00

Time On Btm: 2012.11.16 @ 17:41:00

Time Off Btm: 2012.11.16 @ 20:49:00

TEST COMMENT: 1ST Open 30 Minutes/Weak blow/Blow built to 4 inches in bucket of water
1ST Shut In 45 Minutes/No blow back
2ND Open 45 Minutes/Weak blow/Blow built to 4 inches in bucket of water
2ND Shut In 60 Minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

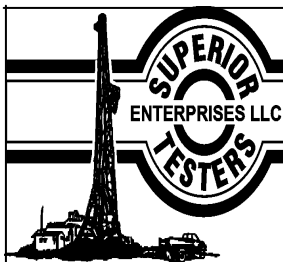
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2492.12	111.47	Initial Hydro-static
1	85.07	110.79	Open To Flow (1)
29	106.39	109.88	Shut-In(1)
75	1484.40	110.99	End Shut-In(1)
76	97.17	110.68	Open To Flow (2)
120	113.34	111.52	Shut-In(2)
186	1470.22	113.44	End Shut-In(2)
188	2445.72	113.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud 100%	0.98
0.00	110 feet of gas in pipe	0.00

Gas Rates

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

Ritchie Exploration Incorporated

13/27S/24W/Ford

8100 East 22nd Street North
#700
Wichita, Kansas 67278+3188
ATTN: Adam Eldani

Potosi #2

Job Ticket: 16915

DST#: 2

Test Start: 2012.11.16 @ 16:00:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:41:30

Time Test Ended: 22:44:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Pratt/144

Interval: **4829.00 ft (KB) To 4937.00 ft (KB) (TVD)**

Total Depth: 4937.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 2451.00 ft (KB)

2440.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6999** Outside

Press@RunDepth: 1470.20 psia @ 4934.33 ft (KB)

Start Date: 2012.11.16

End Date:

2012.11.16

Capacity: 5000.00 psia

Last Calib.: 1899.12.30

Start Time: 16:00:00

End Time:

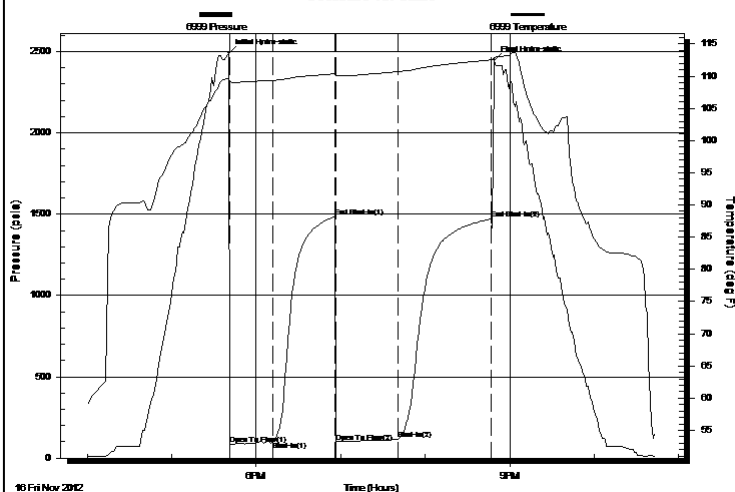
22:44:00

Time On Btm: 2012.11.16 @ 17:40:30

Time Off Btm: 2012.11.16 @ 20:49:00

TEST COMMENT: 1ST Open 30 Minutes/Weak blow/Blow built to 4 inches in bucket of water
1ST Shut In 45 Minutes/No blow back
2ND Open 45 Minutes/Weak blow/Blow built to 4 inches in bucket of water
2ND Shut In 60 Minutes/No blow back

Pressure vs. Time



PRESSURE SUMMARY

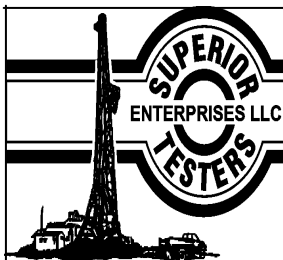
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2490.13	109.67	Initial Hydro-static
1	84.68	109.12	Open To Flow (1)
32	103.33	109.37	Shut-In(1)
75	1484.55	110.36	End Shut-In(1)
76	96.98	110.09	Open To Flow (2)
121	113.36	110.71	Shut-In(2)
187	1470.20	112.53	End Shut-In(2)
189	2447.03	112.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud 100%	0.98
0.00	110 feet of gas in pipe	0.00

Gas Rates

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

TOOL DIAGRAM

Ritchie Exploration Incorporated

13/27S/24W/Ford

8100 East 22nd Street North
#700
Wichita, Kansas 67278+3188
ATTN: Adam Eldani

Potosi #2

Job Ticket: 16915

DST#: 2

Test Start: 2012.11.16 @ 16:00:00

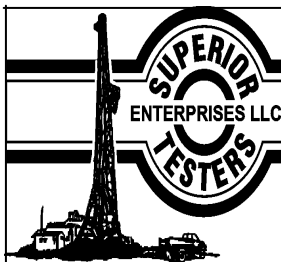
Tool Information

Drill Pipe:	Length:	4820.00 ft	Diameter:	3.80 inches	Volume:	67.61 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:	67000.00 lb
					Total Volume:	67.61 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		18.00 ft					String Weight: Initial	63000.00 lb
Depth to Top Packer:		4829.00 ft					Final	63000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		108.33 ft						
Tool Length:		135.33 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4807.00	
Hydrolic Tool	5.00			4812.00	
Jars	5.00			4817.00	
Safety Joint	2.00			4819.00	
Packer	5.00			4824.00	27.00 Bottom Of Top Packer
Packer	5.00			4829.00	
Perforations	5.00			4834.00	
Change Over Sub	0.75			4834.75	
Drill Pipe	62.83			4897.58	
Change Over Sub	0.75			4898.33	
Perforations	34.00			4932.33	
Recorder	1.00	6749	Inside	4933.33	
Recorder	1.00	6999	Outside	4934.33	
Bullnose	3.00			4937.33	108.33 Bottom Packers & Anchor

Total Tool Length: 135.33



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Incorporated

13/27S/24W/Ford

8100 East 22nd Street North
#700
Wichita, Kansas 67278+3188
ATTN: Adam Eldani

Potosi #2

Job Ticket: 16915

DST#: 2

Test Start: 2012.11.16 @ 16:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 7500.00 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
70.00	Mud 100%	0.982
0.00	110 feet of gas in pipe	0.000

Total Length: 70.00 ft

Total Volume: 0.982 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6749

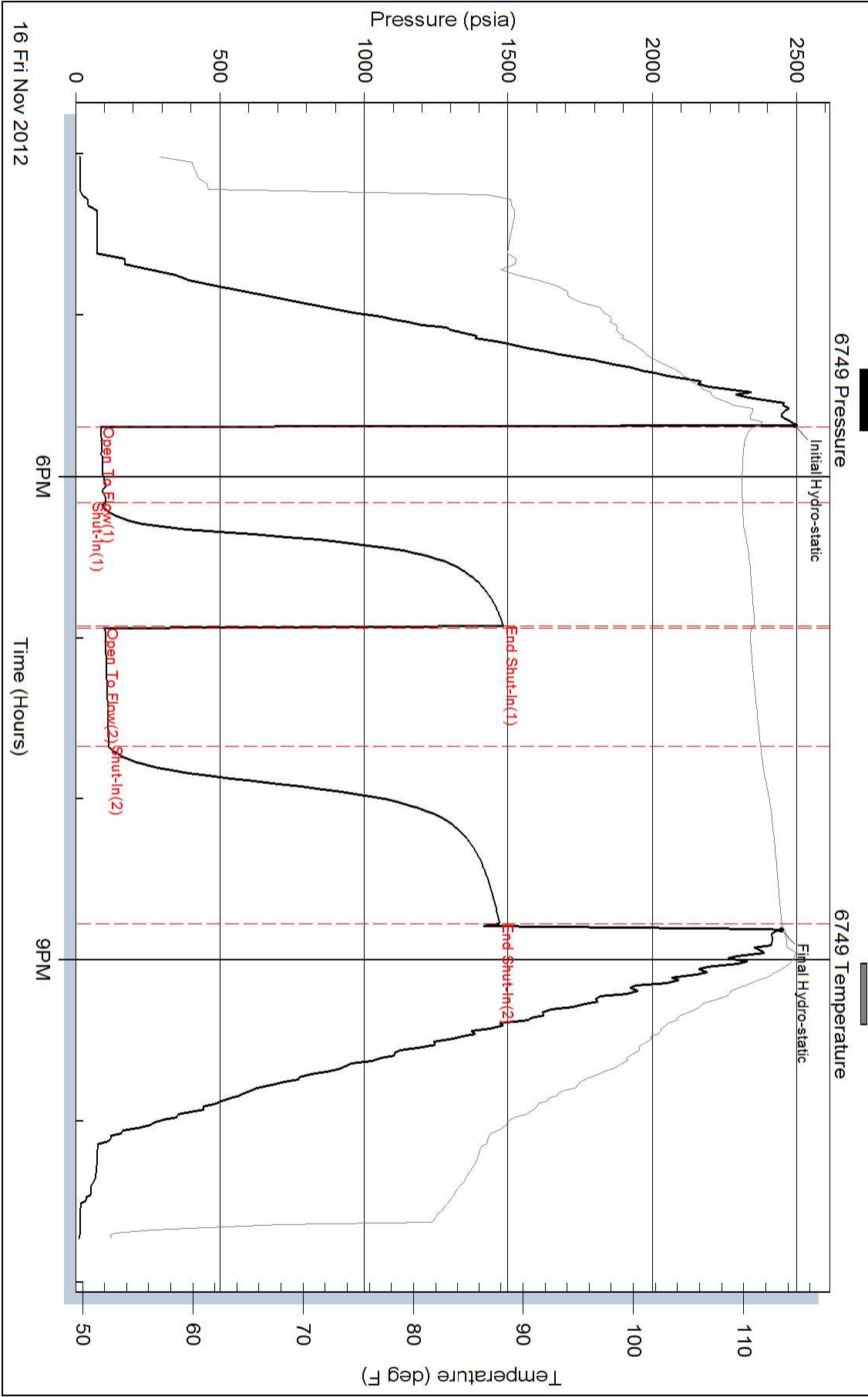
Inside

Ritchie Exploration Incorporated

Potosi #2

DST Test Number: 2

Pressure vs. Time



Serial #: 6999

Outside

Ritchie Exploration Incorporated

Potosi #2

DST Test Number: 2

Pressure vs. Time

