

IND

35-22s-12w

15-185 - 23530000



DRILL STEM TEST REPORT

Prepared For: **MUSGROVE ENERGY INC.**

P.O. BOX 2287
PONCA CITY OK. 74602-2287

ATTN: JOSH AUSTIN

35-22S-12W STAFFORD

McCUNE "A" #2

Start Date: 2009.02.01 @ 20:07:00

End Date: 2009.02.02 @ 01:42:00

Job Ticket #: 16759 DST #: 1

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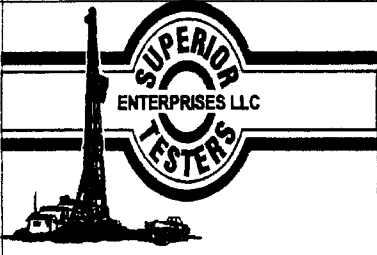
SEP 23 2009

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

Printed: 2009.02.03 @ 04:34:37

MUSGROVE ENERGY INC. McCUNE "A" #2 35-22S-12W STAFFORD DST # 1 LANSING "H-J" 2009.02.01



DRILL STEM TEST REPORT

MUSGROVE ENERGY INC.
 P.O. BOX 2287
 PONCA CITY OK. 74602-2287
 ATTN: JOSH AUSTIN

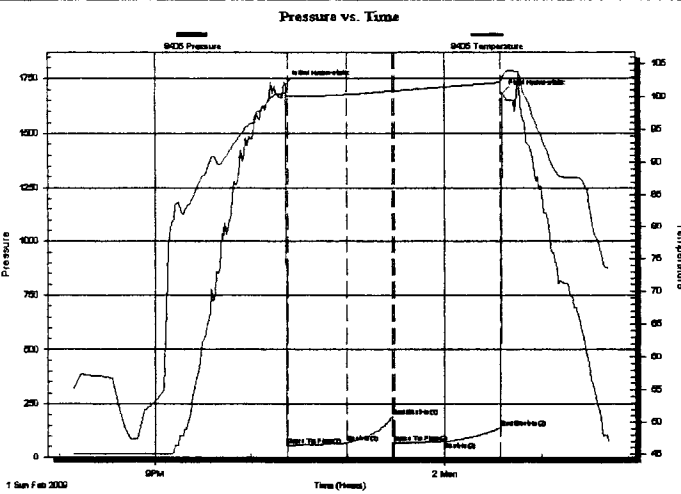
McCUNE "A" #2
35-22S-12W STAFFORD
 Job Ticket: 16759 **DST#: 1**
 Test Start: 2009.02.01 @ 20:07:00

GENERAL INFORMATION:

Formation: **LANSING "H-J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:22:30 Tester: FRANK ZAMARRIPA
 Time Test Ended: 01:42:00 Unit No: 3335 38M GB
 Interval: **3400.00 ft (KB) To 3460.00 ft (KB) (TVD)** Reference Elevations: 1837.00 ft (KB)
 Total Depth: 3460.00 ft (KB) (TVD) 1832.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8405 Outside
 Press@RunDepth: 72.91 psia @ 3454.00 ft (KB) Capacity: 2000.00 psia
 Start Date: 2009.02.01 End Date: 2009.02.02 Last Calib.: 2009.02.02
 Start Time: 20:09:00 End Time: 01:42:00 Time On Btm: 2009.02.01 @ 22:21:30
 Time Off Btm: 2009.02.02 @ 00:35:30

TEST COMMENT: 30-INITIAL OPEN:WEAK BUILDING BLOW BUILT TO 2 INCHES
 30-INITIAL SHUT-IN:NO BLOW BACK
 30-FINAL OPEN:WEAK SURFACE BLOW DIED OFF IN 10 MINUTES
 30-FINAL SHUT-IN:NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1724.75	100.64	Initial Hydro-static
1	55.73	100.11	Open To Flow (1)
38	69.74	100.39	Shut-in(1)
66	194.94	100.92	End Shut-in(1)
67	69.13	100.89	Open To Flow (2)
98	72.91	101.47	Shut-in(2)
133	141.72	102.20	End Shut-in(2)
134	1681.77	102.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MUD 100%	0.15

Gas Rates

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

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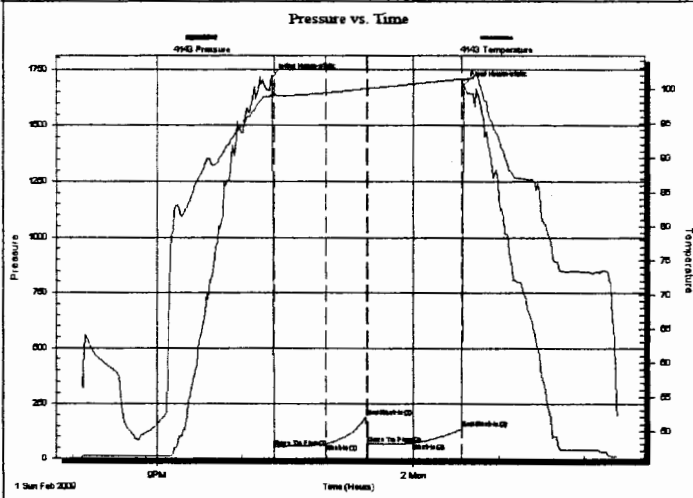
McCUNE "A" #2
35-22S-12W STAFFORD
 Job Ticket: 16759 **DST#: 1**
 Test Start: 2009.02.01 @ 20:07:00

GENERAL INFORMATION:

Formation: **LANSING "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:22:30
 Time Test Ended: 01:42:00
 Interval: **3400.00 ft (KB) To 3460.00 ft (KB) (TVD)**
 Total Depth: **3460.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **FRANK ZAMARRIPA**
 Unit No: **3335 38M GB**
 Reference Elevations: **1837.00 ft (KB)**
 1832.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 4143 **Inside**
 Press@RunDepth: **139.40 psia @ 3453.00 ft (KB)**
 Start Date: **2009.02.01** End Date: **2009.02.02**
 Start Time: **20:07:01** End Time: **02:23:16**
 Capacity: **2000.00 psia**
 Last Calib.: **2009.02.02**
 Time On Btm: **2009.02.01 @ 22:21:16**
 Time Off Btm: **2009.02.02 @ 00:35:15**

TEST COMMENT: 30-INITIAL OPEN:WEAK BUILDING BLOW BUILT TO 2 INCHES
 30-INITIAL SHUT-IN:NO BLOW BACK
 30-FINAL OPEN:WEAK SURFACE BLOW DIED OFF IN 10 MINUTES
 30-FINAL SHUT-IN:NO BLOW BACK

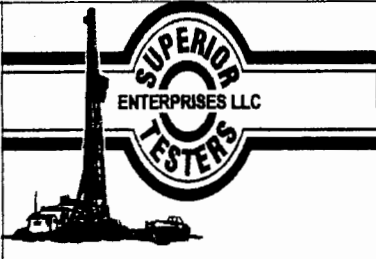


PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1717.51	99.17	Initial Hydro-static
1	52.24	99.19	Open To Flow (1)
38	66.86	99.42	Shut-In (1)
66	193.12	100.00	End Shut-In (1)
67	65.69	100.03	Open To Flow (2)
99	69.83	100.73	Shut-In (2)
133	139.40	101.42	End Shut-In (2)
134	1682.95	101.19	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	MUD 100%	0.15

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

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DRILL STEM TEST REPORT

TOOL DIAGRAM

MUSGROVE ENERGY INC.
 P.O. BOX 2287
 PONCA CITY OK. 74602-2287
 ATTN: JOSH AUSTIN

McCUNE "A" #2
 35-22S-12W STAFFORD
 Job Ticket: 16759 DST#: 1
 Test Start: 2009.02.01 @ 20:07:00

Tool Information

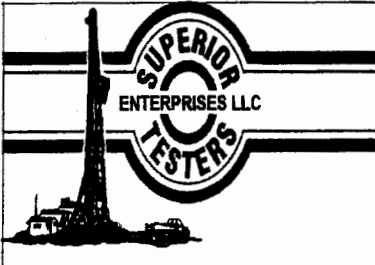
Drill Pipe:	Length: 3288.00 ft	Diameter: 3.80 inches	Volume: 46.12 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 46000.00 lb
		Total Volume: 46.71 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3400.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3380.00	
Shut-In Tool	5.00			3385.00	
Hydraulic Tool	5.00			3390.00	
Recorder	5.00			3395.00	
Packer	5.00			3400.00	21.00 Bottom Of Top Packer
Change Over Sub	1.00			3401.00	
Drill Pipe	32.00			3433.00	
Change Over Sub	1.00			3434.00	
Perforations	18.00			3452.00	
Recorder	1.00	4143	Inside	3453.00	
Recorder	1.00	8405	Outside	3454.00	
Bullnose	5.00			3459.00	59.00 Anchor Tool

Total Tool Length: 80.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

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 P.O. BOX 2287
 PONCA CITY OK. 74602-2287
 ATTN: JOSH AUSTIN

McCUNE "A" #2
 35-22S-12W STAFFORD
 Job Ticket: 16759 DST#: 1
 Test Start: 2009.02.01 @ 20:07:00

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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 11600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MJD 100%	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

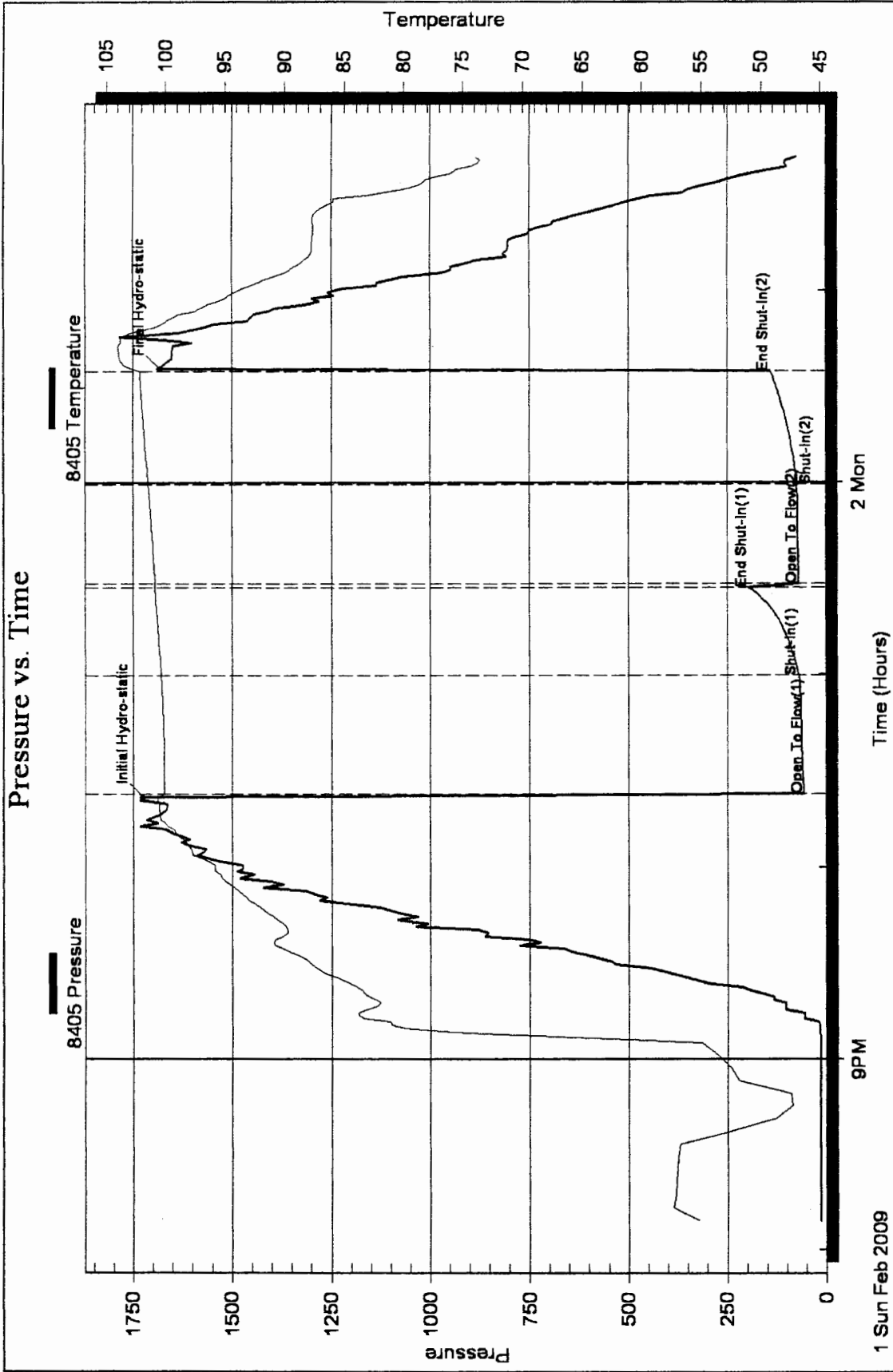
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Serial #: 8405

Outside MUSGROVE ENERGY INC.

35-22S-12W STAFFORD

DST Test Number: 1



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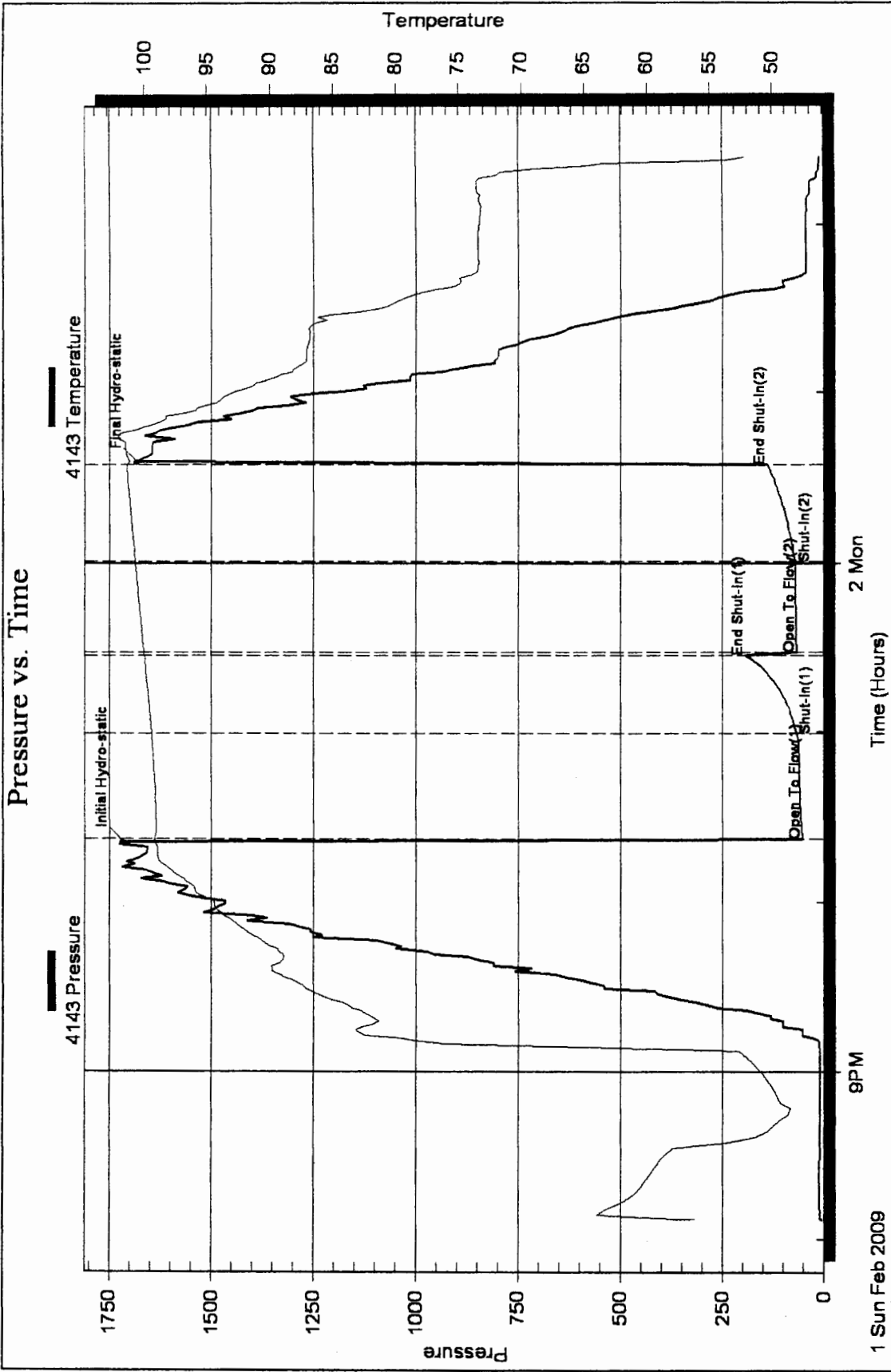
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Inside

MUSGROVE ENERGY INC.

35-22S-12W STAFFORD

DST Test Number: 1



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DRILL STEM TEST REPORT

Prepared For: **MUSGROVE ENERGY INC.**

P.O. BOX 2287
PONCA CITY OK. 74602-2287

ATTN: JOSH AUSTIN

35-22S-12W STAFFORD

McCUNE "A" #2

Start Date: 2009.02.02 @ 19:55:00

End Date: 2009.02.03 @ 01:39:30

Job Ticket #: 16760 DST #: 2

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

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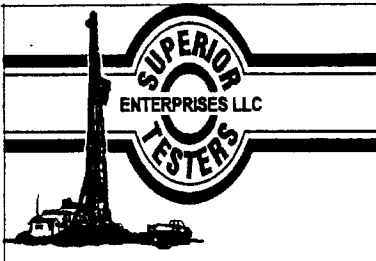
McCUNE "A" #2

35-22S-12W STAFFORD

DST # 2

SIMPSON-ARBUCKLE

2009.02.02



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MUSGROVE ENERGY INC.
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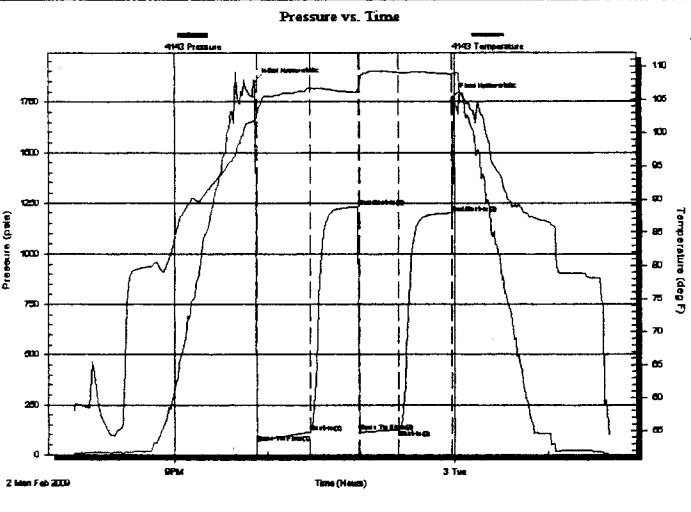
McCUNE "A" #2
35-22S-12W STAFFORD
 Job Ticket: 16760 **DST#: 2**
 Test Start: 2009.02.02 @ 19:55:00

GENERAL INFORMATION:

Formation: **SIMPSON-ARBUCKLE**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:53:30 Tester: FRANK ZAMARRIPA
 Time Test Ended: 01:39:30 Unit No: 3335 38M GB
 Interval: **3588.00 ft (KB) To 3664.00 ft (KB) (TVD)** Reference Elevations: 1837.00 ft (KB)
 Total Depth: 3664.00 ft (KB) (TVD) 1832.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 4143 Inside
 Press@RunDepth: 1194.92 psia @ 3657.00 ft (KB) Capacity: 2000.00 psia
 Start Date: 2009.02.02 End Date: 2009.02.03 Last Calib.: 2009.02.03
 Start Time: 19:55:01 End Time: 01:39:16 Time On Btm: 2009.02.02 @ 21:52:15
 Time Off Btm: 2009.02.02 @ 23:59:15

TEST COMMENT: 30-INITIAL OPEN:WEAK BUILDING BLOW BUILT TO BOTTOM OF 5 GALON BUCKET IN 29 MINUTES
 30-INITIAL SHUT-IN:WEAK BLOW BACK
 30-FINAL OPEN:NO BLOW
 30-FINAL SHUT-IN:NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1849.93	102.01	Initial Hydro-static
2	61.53	102.45	Open To Flow (1)
36	110.65	106.57	Shut-In(1)
66	1231.64	106.07	End Shut-In(1)
68	114.54	107.78	Open To Flow (2)
93	125.60	109.02	Shut-In(2)
126	1194.92	108.68	End Shut-In(2)
128	1773.92	108.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OIL CUT MUD 5% OIL 95% MUD	0.59
30.00	MUD CUT OIL 10% MUD 90% OIL	0.42

Gas Rates

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

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TOOL DIAGRAM

MUSGROVE ENERGY INC.
 P.O. BOX 2287
 PONCA CITY OK. 74602-2287
 ATTN: JOSH AUSTIN

McCUNE "A" #2
35-22S-12W STAFFORD
 Job Ticket: 16760 **DST#: 2**
 Test Start: 2009.02.02 @ 19:55:00

Tool Information

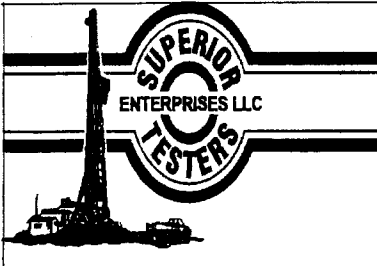
Drill Pipe:	Length: 3467.00 ft	Diameter: 3.81 inches	Volume: 48.89 bbl	Tool Weight:	20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 49.48 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3588.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	75.00 ft				
Tool Length:	96.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: SHALE PACKER

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3568.00	
Shut-In Tool	5.00			3573.00	
Hydraulic Tool	5.00			3578.00	
Recorder	5.00			3583.00	
Packer	5.00			3588.00	21.00 Bottom Of Top Packer
Change Over Sub	1.00			3589.00	
Drill Pipe	63.00			3652.00	
Change Over Sub	1.00			3653.00	
Perforations	3.00			3656.00	
Recorder	1.00	4143	Inside	3657.00	
Recorder	1.00	8405	Outside	3658.00	
Bullnose	5.00			3663.00	75.00 Anchor Tool

Total Tool Length: 96.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

MUSGROVE ENERGY INC.

McCUNE "A" #2

P.O. BOX 2287
PONCA CITY OK. 74602-2287

35-22S-12W STAFFORD

Job Ticket: 16760 DST#: 2

ATTN: JOSH AUSTIN

Test Start: 2009.02.02 @ 19:55:00

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 12200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OIL CUT MUD 5% OIL 95% MUD	0.590
30.00	MUD CUT OIL 10% MUD 90% OIL	0.423

Total Length: 150.00 ft Total Volume: 1.013 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

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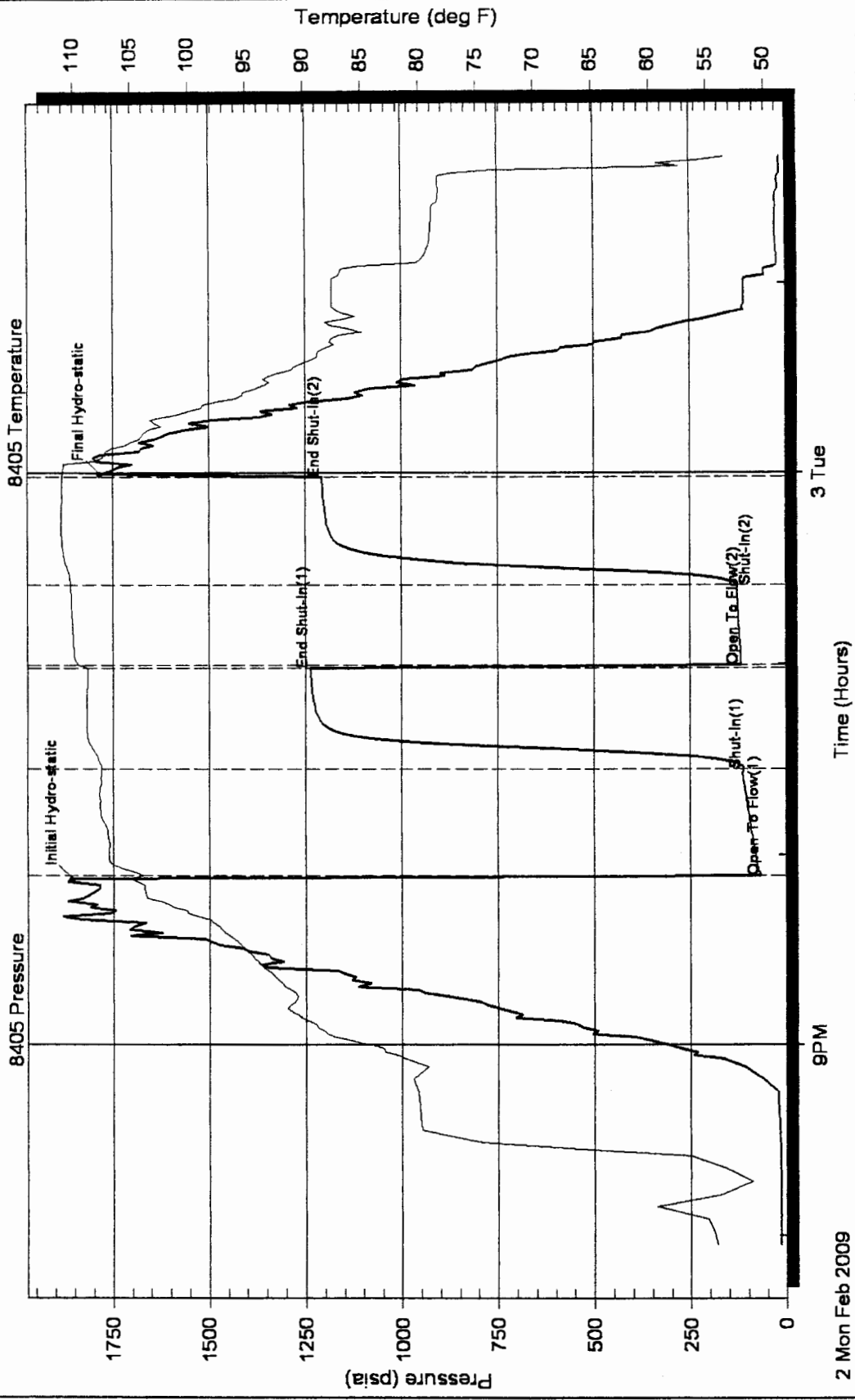
Serial #: 8405

Outside MUSGROVE ENERGY INC.

35-22S-12W STAFFORD

DST Test Number: 2

Pressure vs. Time



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Serial #: 4143

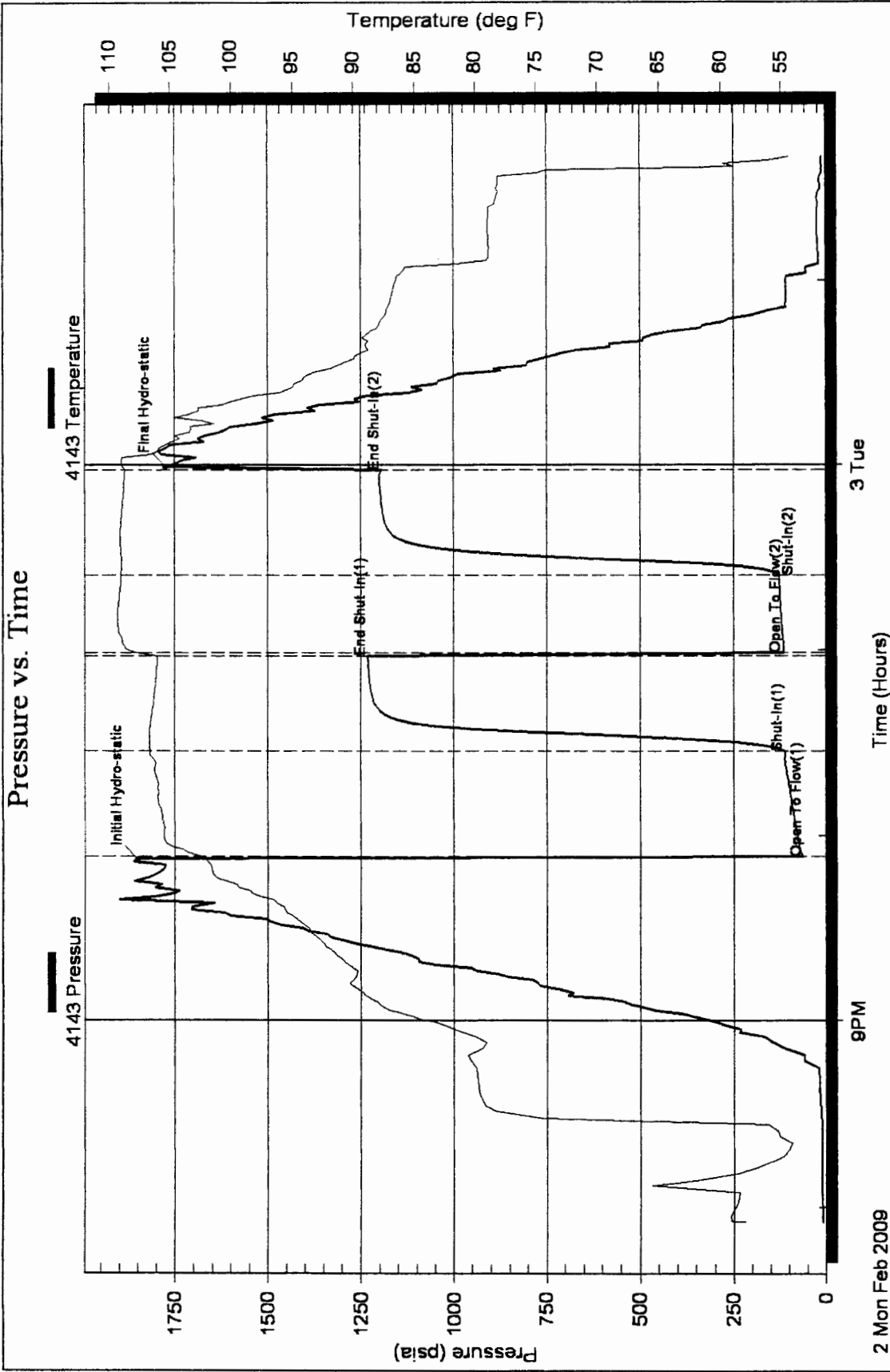
Inside

MUSGROVE ENERGY INC.

35-22S-12W STAFFORD

DST Test Number: 2

Pressure vs. Time



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