

15-08321021



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Daystar
126 E. Main
PO Box 360
Valley Center, Ks 67147
ATTN: Josh Austin

Lingo #1-30
30-22s-22w/Hodgeman
Job Ticket: 36762 **DST#: 1**
Test Start: 2010.01.18 @ 22:39:09

GENERAL INFORMATION:

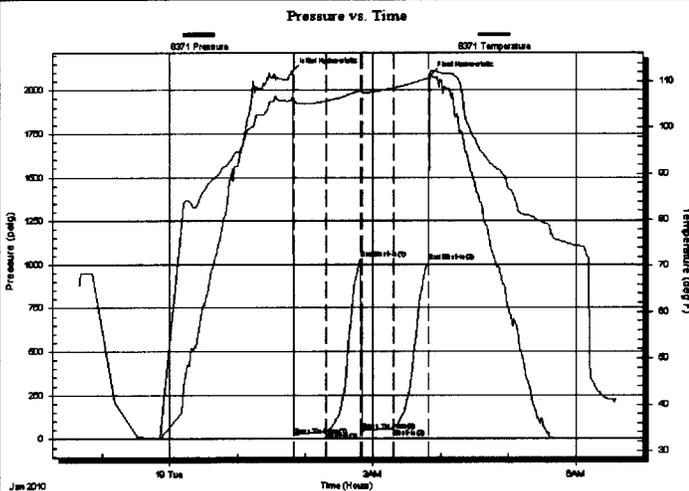
Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:50:04
Time Test Ended: 06:35:33
Interval: **4328.00 ft (KB) To 4375.00 ft (KB) (TVD)**
Total Depth: 4375.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 2335.00 ft (KB)
2328.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8371 Outside
Press@RunDepth: 60.01 psig @ 4335.00 ft (KB)
Start Date: 2010.01.18 End Date: 2010.01.19
Start Time: 22:39:09 End Time: 06:35:33
Capacity: 8000.00 psig
Last Calib.: 2010.01.19
Time On Btm: 2010.01.19 @ 01:48:34
Time Off Btm: 2010.01.19 @ 03:51:03

TEST COMMENT: FFP - weak to fair blow 1/2" - 4"
ISI - no blow back
FFP - weak to fair blow 1/2" - 5 1/2"
FSI - weak sur blow back

30-22-22w

30-22-22w



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2105.00	106.36	Initial Hydro-static
2	21.69	105.53	Open To Flow (1)
30	38.94	105.71	Shut-In (1)
61	1034.15	107.87	End Shut-In (1)
62	46.65	107.43	Open To Flow (2)
90	60.01	108.52	Shut-In (2)
121	1013.77	110.55	End Shut-In (2)
123	2084.13	112.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 15%O, 85%M	0.44
0.00	105' GP	0.00

Gas Rates

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

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
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FLUID SUMMARY

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PO Box 360
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ATTN: Josh Austin

30-22s-22w/Hodgeman
Job Ticket: 36762 **DST#: 1**
Test Start: 2010.01.18 @ 22:39:09

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: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	OCM 15%O, 85%M	0.443
0.00	105' GP	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

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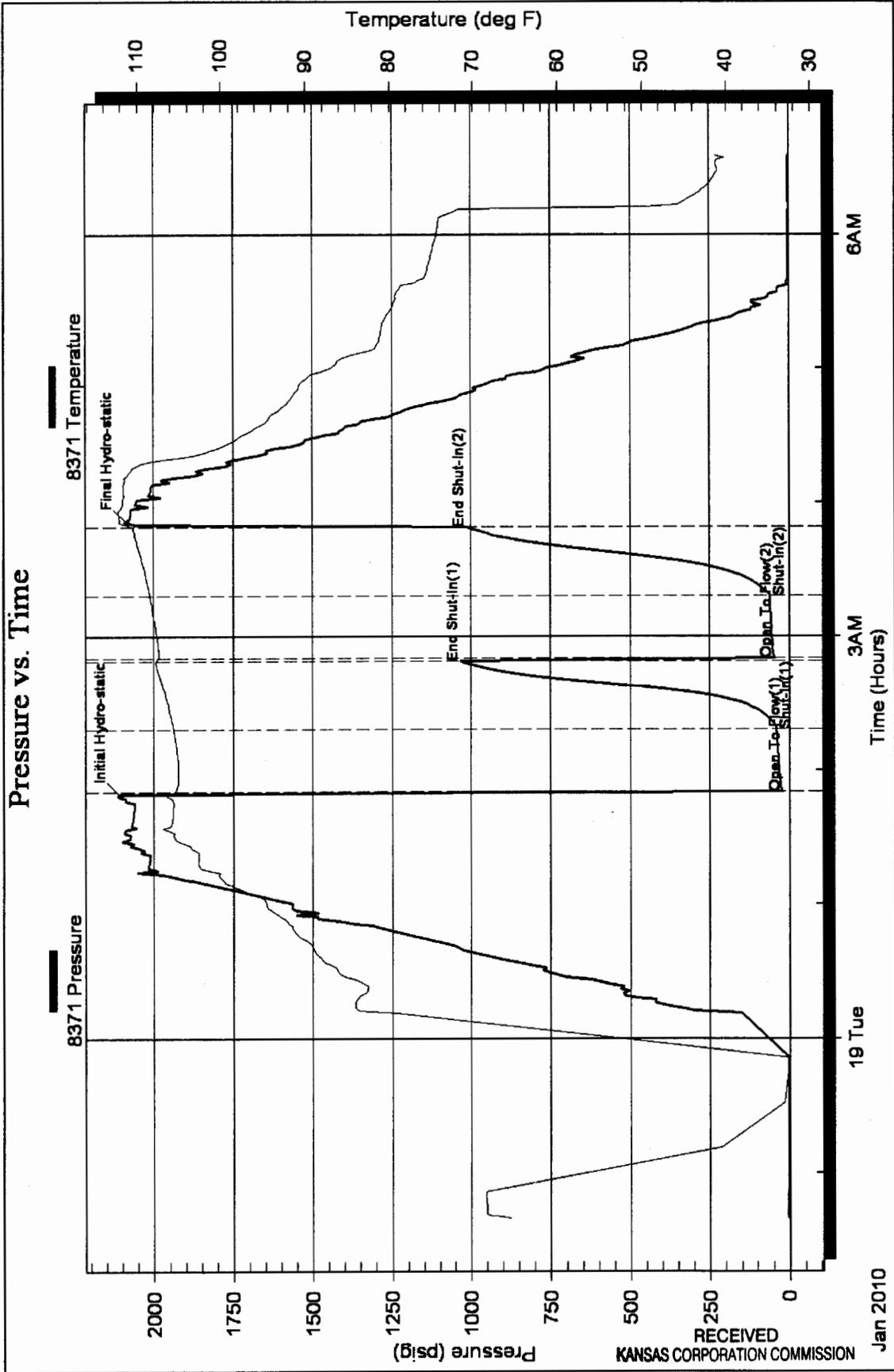
Serial #: 8371

Outside Daystar

30-22s-22w /Hodgeman

DST Test Number: 1

Pressure vs. Time



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Trilobite Testing, Inc

Ref. No: 36762

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**TRILOBITE
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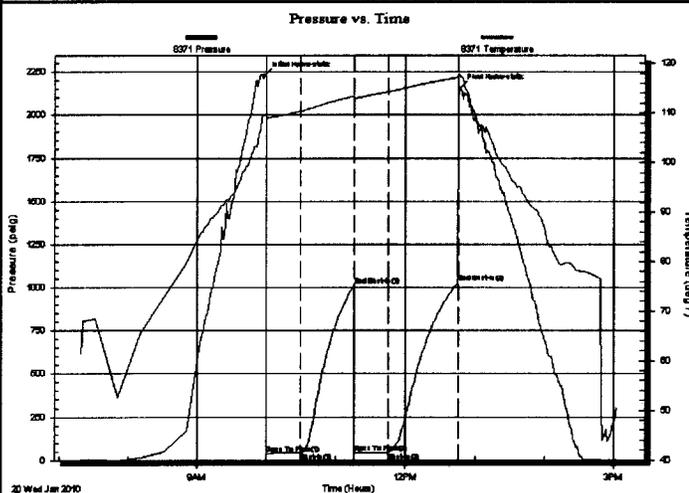
Lingo #1-30
30-22s-22w/Hodgeman
Job Ticket: 36763 **DST#: 2**
Test Start: 2010.01.20 @ 07:19:16

GENERAL INFORMATION:

Formation: **Miss - Osage**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:00:11
Time Test Ended: 15:03:40
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41
Interval: **4518.00 ft (KB) To 4580.00 ft (KB) (TVD)**
Reference Elevations: 2335.00 ft (KB)
Total Depth: 4580.00 ft (KB) (TVD) 2328.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

Serial #: 8371 Outside
Press@RunDepth: 45.62 psig @ 4530.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.01.20 End Date: 2010.01.20 Last Calib.: 2010.01.20
Start Time: 07:19:16 End Time: 15:03:40 Time On Btm: 2010.01.20 @ 09:58:41
Time Off Btm: 2010.01.20 @ 12:47:10

TEST COMMENT: IFP - weak blow throughout 1/2" - 3/4"
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.71	109.56	Initial Hydro-static
2	38.90	108.60	Open To Flow (1)
31	41.70	110.41	Shut-In(1)
77	1012.90	113.37	End Shut-In(1)
77	43.39	112.58	Open To Flow (2)
107	45.62	114.28	Shut-In(2)
167	1028.56	117.14	End Shut-In(2)
169	2154.54	117.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	VSOCM 2%O, 98%M	0.10

Gas Rates

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

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ATTN: Josh Austin

30-22s-22w/Hodgeman
Job Ticket: 36763 **DST#: 2**
Test Start: 2010.01.20 @ 07:19:16

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: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	VSOCM 2%O, 98%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

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WICHITA, KS

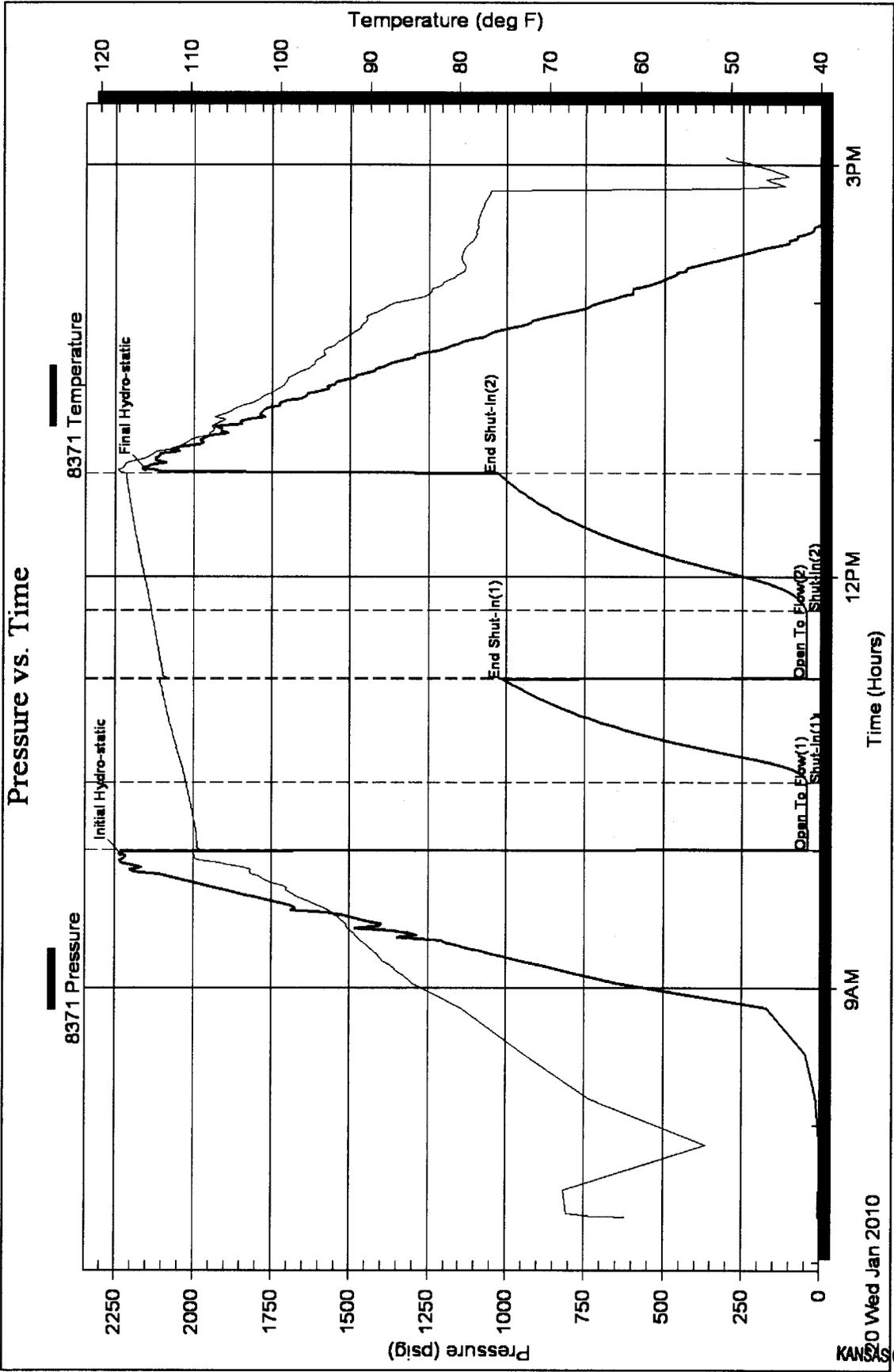
Serial #: 8371

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30-22s-22w /Hodgeman

DST Test Number: 2

Pressure vs. Time



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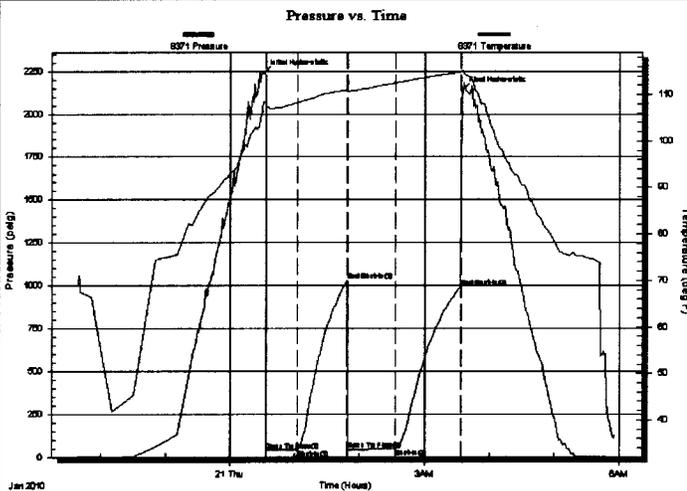
Lingo #1-30
30-22s-22w/Hodgeman
Job Ticket: 36764 **DST#: 3**
Test Start: 2010.01.20 @ 21:38:47

GENERAL INFORMATION:

Formation: **Miss Osage (2)**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:33:42
Time Test Ended: 05:56:11
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41
Interval: **4518.00 ft (KB) To 4585.00 ft (KB) (TVD)**
Reference Elevations: 2335.00 ft (KB)
Total Depth: 4585.00 ft (KB) (TVD)
328.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

Serial #: 8371 Outside
Press@RunDepth: 47.33 psig @ 4530.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.01.20 End Date: 2010.01.21 Last Calib.: 2010.01.21
Start Time: 21:38:47 End Time: 05:56:11 Time On Btrm: 2010.01.21 @ 00:31:12
Time Off Btrm: 2010.01.21 @ 03:34:41

TEST COMMENT: FFP - weak blow throughout 1/2" - 1" - died 3/4"
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.39	108.27	Initial Hydro-static
3	40.36	107.46	Open To Flow (1)
31	42.37	108.21	Shut-In(1)
77	1028.37	110.98	End Shut-In(1)
78	45.21	110.60	Open To Flow (2)
122	47.33	112.44	Shut-In(2)
182	991.90	114.83	End Shut-In(2)
184	2138.53	115.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	VSOCM 2%O, 98%M	0.10

Gas Rates

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

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Job Ticket: 36764 **DST#: 3**
Test Start: 2010.01.20 @ 21:38:47

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: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	VSOCM 2%O, 98%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

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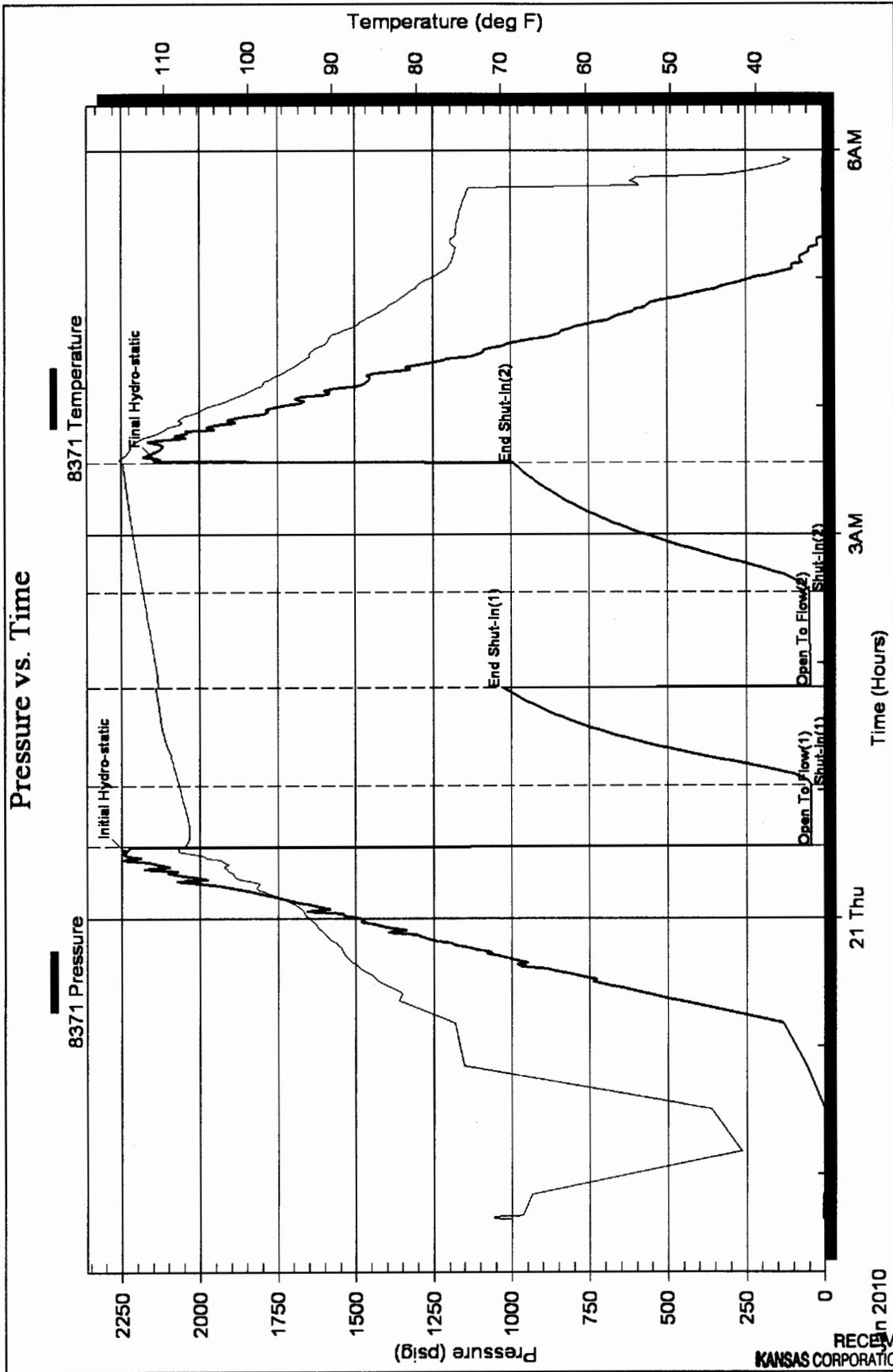
DST Test Number: 3

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Outside Daystar

Serial #: 8371

Pressure vs. Time



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COMMUNITY WATER DIVISION
PLUMBING & SEWER

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FLUID SUMMARY

Daystar

Lingo #1-30

126 E. Main
PO Box 360
Valley Center, Ks 67147
ATTN: Josh Austin

30-22s-22w/Hodgeman
Job Ticket: 36765 **DST#: 4**
Test Start: 2010.01.21 @ 16:00:56

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 59.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 5200.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	mud 100%	1.229

Total Length: 250.00 ft Total Volume: 1.229 bbl

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

Laboratory Name: Laboratory Location:

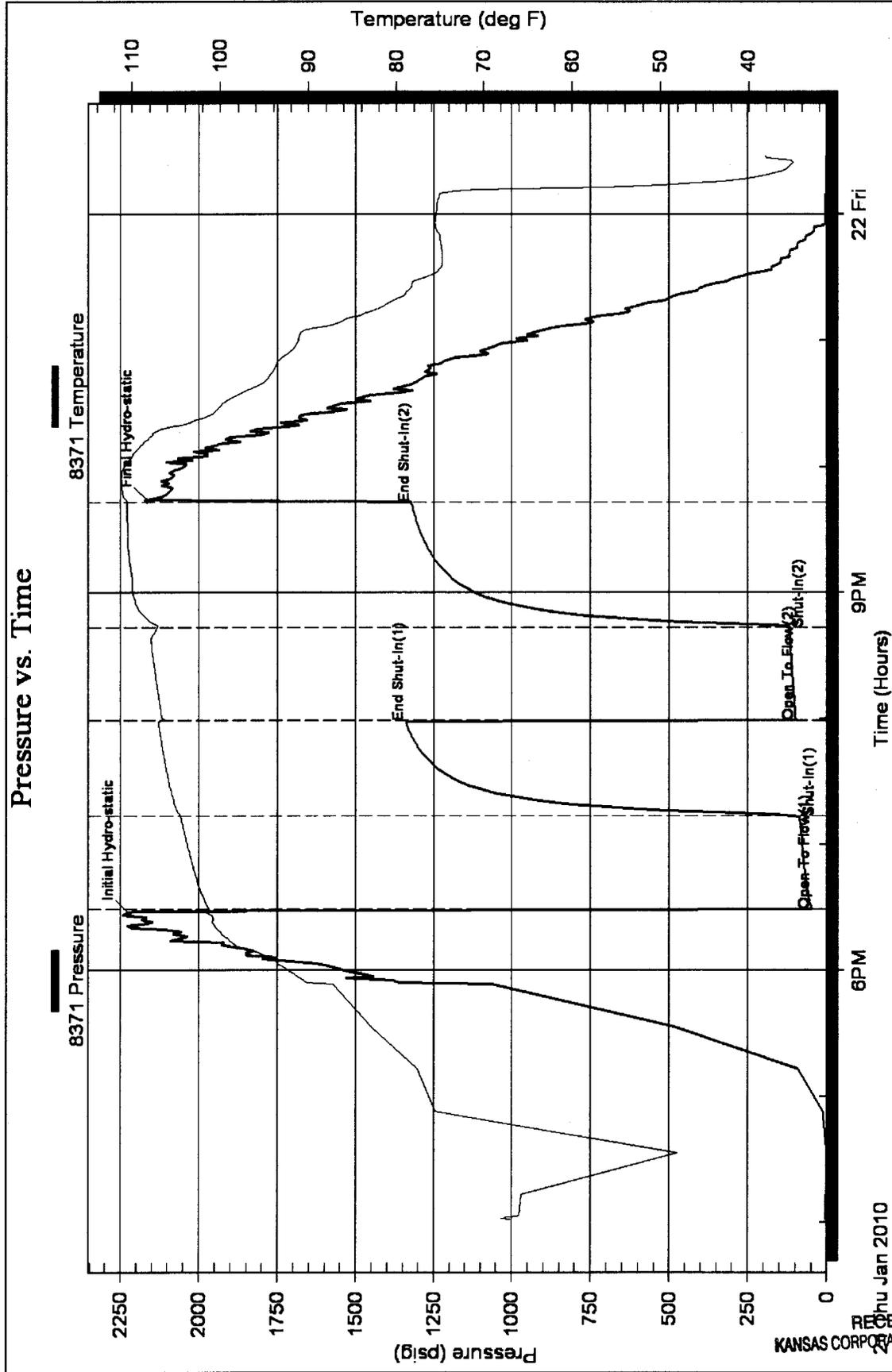
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Pressure vs. Time



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