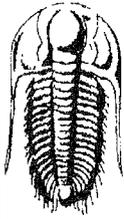


15-051-25953

32-12s-20w

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DRILL STEM TEST REPORT

CONFIDENTIAL

Weilert
886 230th Ave.
Hays, Ks
67601
ATTN: Roger Moses

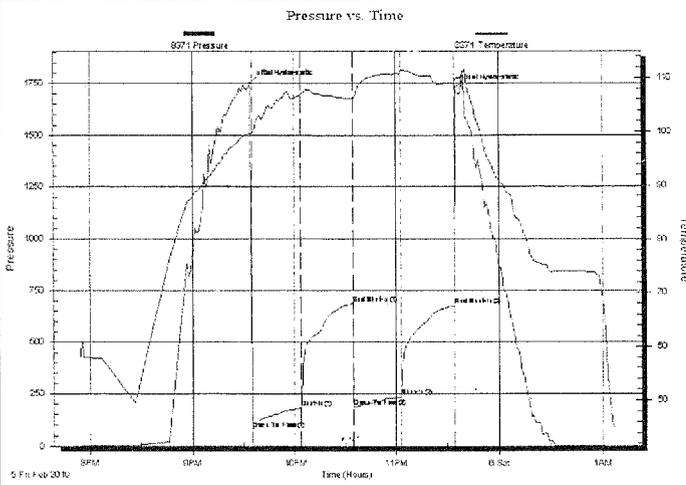
Weilert-Pfeifer #1
32-12s-20w/Ellis
Job Ticket: 36774 DST#: 1
Test Start: 2010.02.05 @ 19:54:34

GENERAL INFORMATION:

Formation: **Toronto - LKC "E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:34:59
Time Test Ended: 01:06:58
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41
Interval: **3464.00 ft (KB) To 3580.00 ft (KB) (TVD)**
Reference Elevations: 2203.00 ft (KB)
Total Depth: 3580.00 ft (KB) (TVD) 2198.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 5.00 ft

Serial #: 8371 Outside
Press@RunDepth: 235.37 psig @ 3471.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.02.05 End Date: 2010.02.06 Last Calib.: 2010.02.06
Start Time: 19:54:34 End Time: 01:06:58 Time On Btm: 2010.02.05 @ 21:33:59
Time Off Btm: 2010.02.05 @ 23:35:29

TEST COMMENT: IFF - BOB 8 1/2 min.
ISI - no blow back
FFP - BOB 15 min.
FSI - no blow back 7 min. - died 16 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp. (deg F)	Annotation
0	1750.66	99.65	Initial Hydro-static
1	78.72	99.42	Open To Flow (1)
30	182.25	106.84	Shut-In(1)
61	685.17	106.16	End Shut-In(1)
61	187.04	105.84	Open To Flow (2)
90	235.37	111.32	Shut-In(2)
121	675.23	109.10	End Shut-In(2)
122	1729.36	109.78	Final Hydro-static

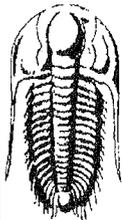
Recovery

Length (ft)	Description	Volume (bbl)
315.00	VSOCM 2%O, 98%M	3.30
45.00	VSGOCM 5%G, 2%O, 93%M	0.63
0.00	45' GIP	0.00

Gas Rates

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

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886 230th Ave.
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ATTN: Roger Moses

Weilert-Pfeifer #1
32-12s-20w/Ellis
Job Ticket: 36774 DST#: 1
Test Start: 2010.02.05 @ 19:54:34

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	VSOCM 2%O, 98%M	3.298
45.00	VSGOCM 5%G, 2%O, 93%M	0.631
0.00	45' GIP	0.000

Total Length: 360.00 ft Total Volume: 3.929 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

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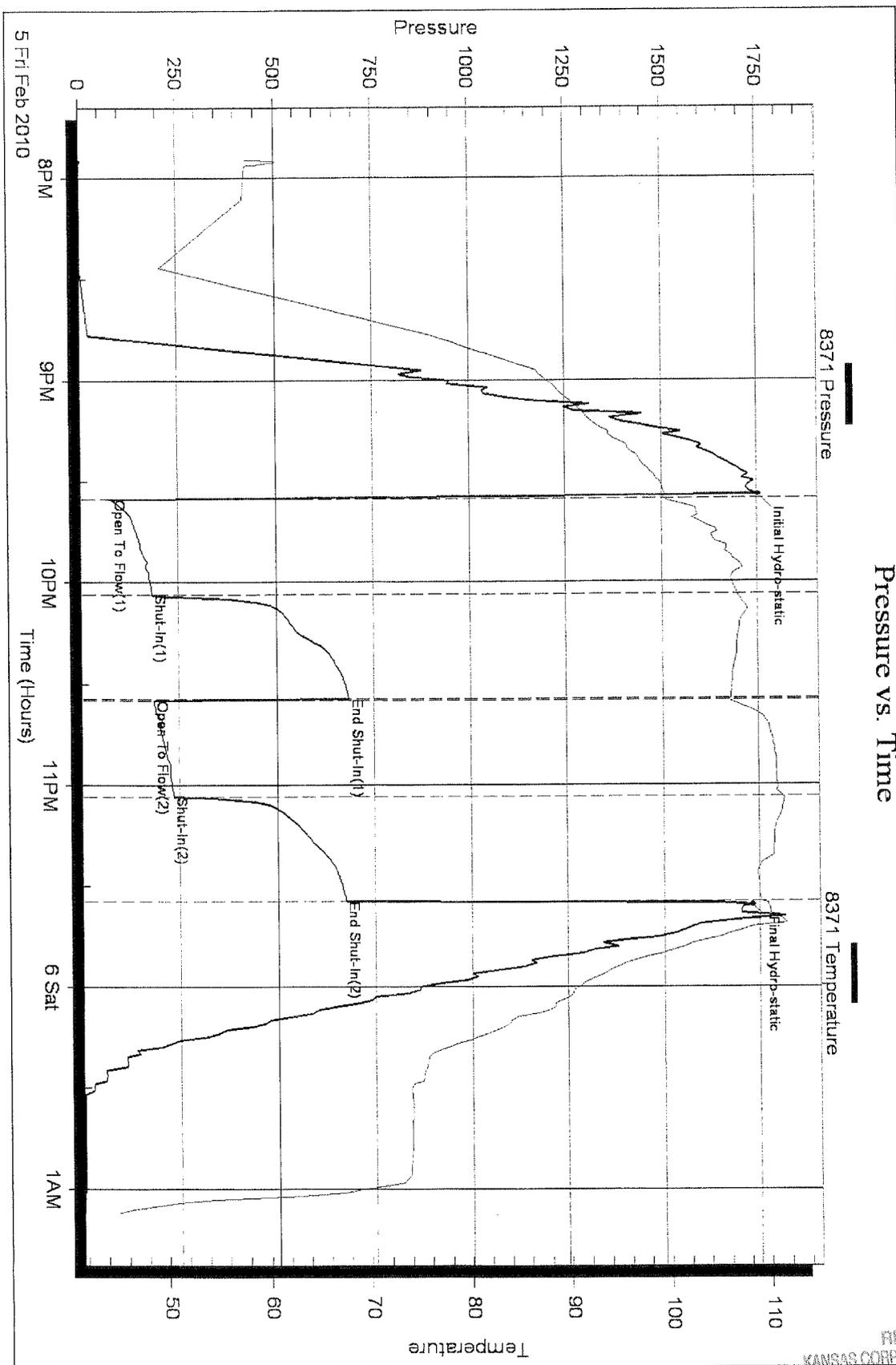
Serial #: 8371

Outside Wellert

32-12s-20w/Elis

DST Test Number: 1

Pressure vs. Time



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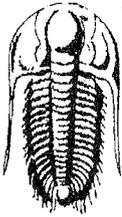
Ref. No: 36774

Printed: 2010.02.08 @ 08:57:31 Page 3

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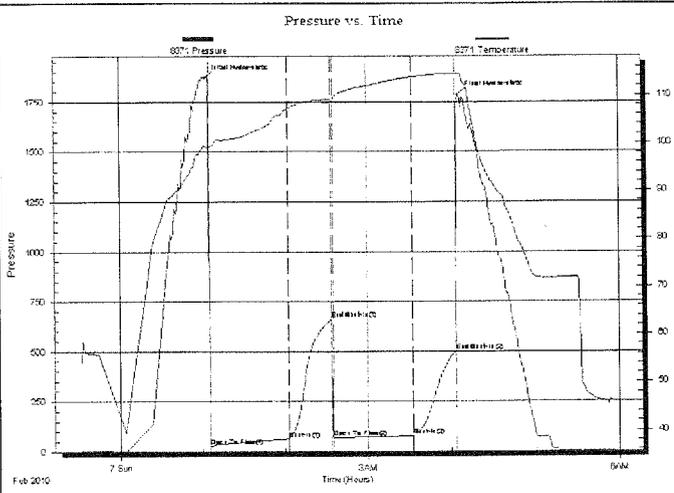
Weilert-Pfeifer #1
32-12s-20w/Ellis
Job Ticket: 36775 DST#: 2
Test Start: 2010.02.06 @ 23:32:07

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:05:02
Time Test Ended: 05:58:01
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41
Interval: **3845.00 ft (KB) To 3863.00 ft (KB) (TVD)**
Reference Elevations: 2203.00 ft (KB)
Total Depth: 3863.00 ft (KB) (TVD) 2198.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 5.00 ft

Serial #: 8371 Outside
Press@RunDepth: 76.79 psig @ 3850.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.02.06 End Date: 2010.02.07 Last Calib.: 2010.02.07
Start Time: 23:32:07 End Time: 05:58:01 Time On Btm: 2010.02.07 @ 01:03:02
Time Off Btm: 2010.02.07 @ 04:06:01

TEST COMMENT: IFP - weak to good blow 1/4" - 6"
ISI - no blow back
FFP - weak to fair blow 1/4" - 3 1/2"
FSI - no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.00	99.25	Initial Hydro-static
2	25.92	98.73	Open To Flow (1)
60	62.06	107.16	Shut-In(1)
91	663.05	109.18	End Shut-In(1)
92	68.60	109.02	Open To Flow (2)
150	76.79	113.78	Shut-In(2)
181	496.76	114.42	End Shut-In(2)
183	1786.41	114.32	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	VSOCM 2%O, 98%M	0.15
35.00	MCO 65%O, 35%M	0.17
65.00	FREE OIL 95%O, 5%M	0.38

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

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FLUID SUMMARY

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886 230th Ave.
Hays, Ks
67601
ATTN: Roger Moses

Weilert-Pfeifer #1
32-12s-20w/Ellis
Job Ticket: 36775 DST#: 2
Test Start: 2010.02.06 @ 23:32:07

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 61.00 sec/qt
Water Loss: 7.94 in³
Resistivity: ohm.m
Salinity: 3300.00 ppm
Filter Cake: inches

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

Oil API: 37 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	VSOCM 2%O, 98%M	0.148
35.00	MCO 65%O, 35%M	0.172
65.00	FREE OIL 95%O, 5%M	0.383

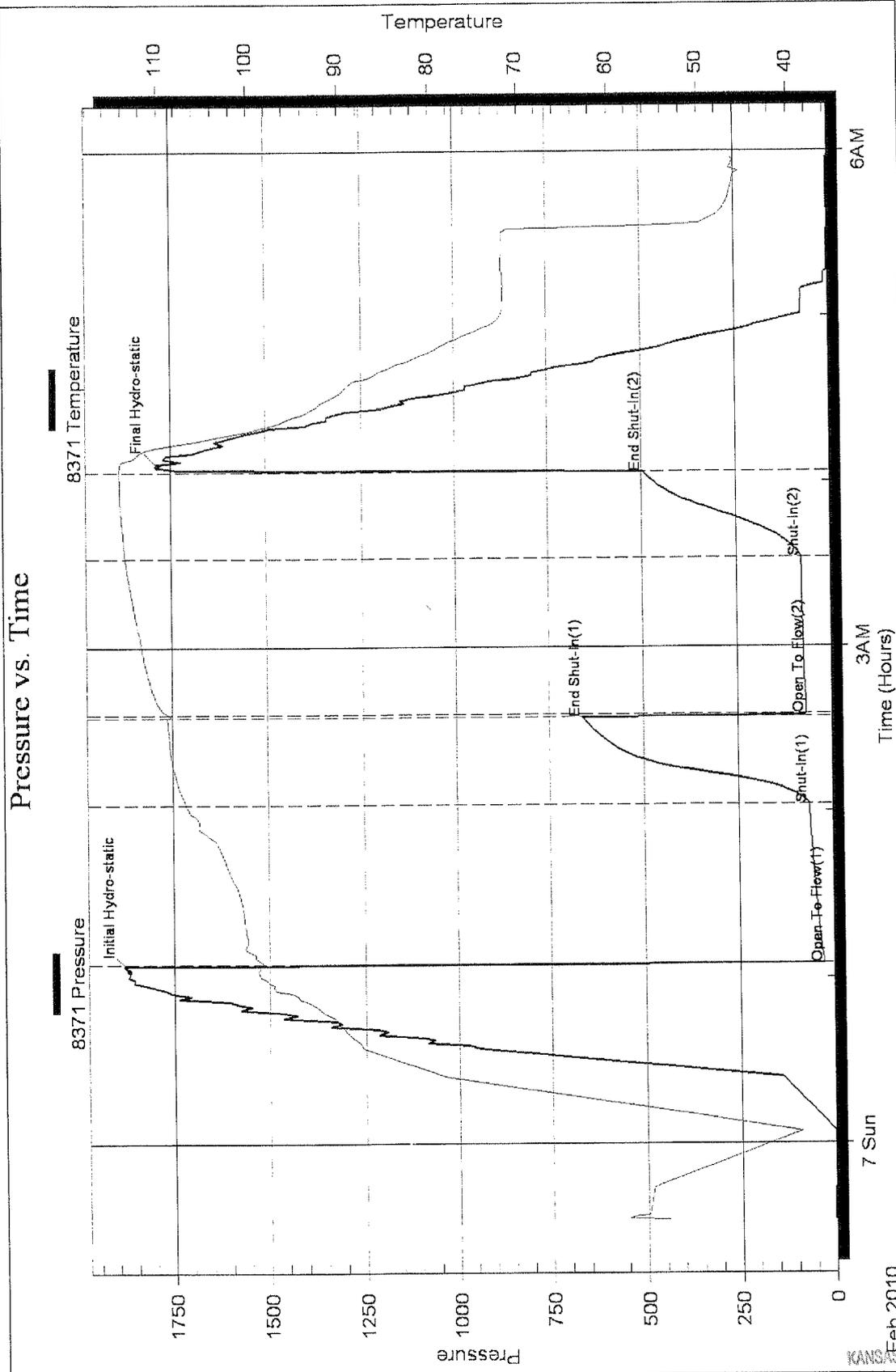
Total Length: 130.00 ft Total Volume: 0.703 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

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 886 230th Ave.
 Hays, Ks
 67601
 ATTN: Roger Moses

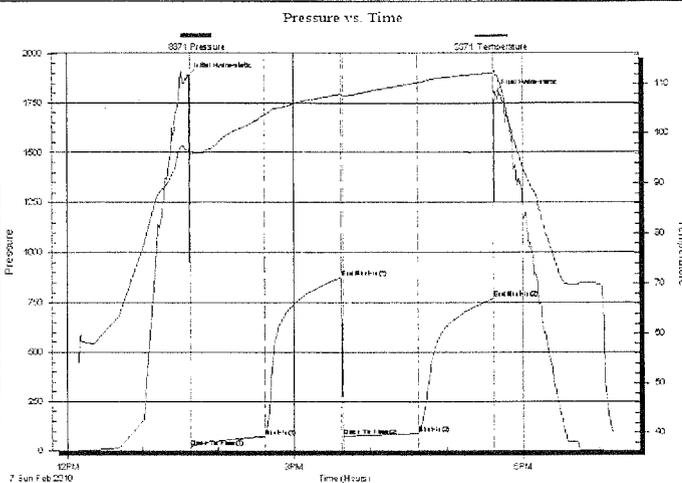
Weilert-Pfeifer #1
32-12s-20w/Ellis
 Job Ticket: 38101 **DST#: 3**
 Test Start: 2010.02.07 @ 12:09:14

GENERAL INFORMATION:

Formation: **Arbuckle (2)**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:38:09
 Time Test Ended: 19:11:08
 Test Type: Conventional Bottom Hole
 Tester: Brian Fairbank
 Unit No: 41
 Interval: **3845.00 ft (KB) To 3868.00 ft (KB) (TVD)**
 Total Depth: 3868.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 5.00 ft
 Reference Elevations: 2203.00 ft (KB)
 2198.00 ft (CF)

Serial #: 8371 Outside
 Press@RunDepth: 87.56 psig @ 3846.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.02.07 End Date: 2010.02.07 Last Calib.: 2010.02.07
 Start Time: 12:09:14 End Time: 19:11:08 Time On Btm: 2010.02.07 @ 13:37:09
 Time Off Btm: 2010.02.07 @ 17:37:08

TEST COMMENT: IFP - weak to good blow 1/2" - 3 1/2"
 ISI - no blow back
 FFP - weak to fair blow sur - 5"
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.36	96.37	Initial Hydro-static
1	19.71	95.69	Open To Flow (1)
60	70.53	103.66	Shut-In(1)
121	875.07	107.95	End Shut-In(1)
122	74.13	107.63	Open To Flow (2)
181	87.56	110.32	Shut-In(2)
239	767.91	112.23	End Shut-In(2)
240	1801.55	112.47	Final Hydro-static

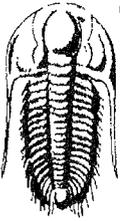
Recovery

Length (ft)	Description	Volume (bbl)
60.00	MUD 100%	0.30
75.00	VSO & WCM 2%O, 2%W, 96%M	0.48
30.00	FREE OIL 95%O, 5%M	0.42

Gas Rates

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

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Hays, Ks
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ATTN: Roger Moses

Weilert-Pfeifer #1
32-12s-20w/Ellis
Job Ticket: 38101 **DST#: 3**
Test Start: 2010.02.07 @ 12:09:14

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.40 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MUD 100%	0.295
75.00	VSO & WCM 2%O, 2%W, 96%M	0.478
30.00	FREE OIL 95%O, 5%M	0.421

Total Length: 165.00 ft Total Volume: 1.194 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

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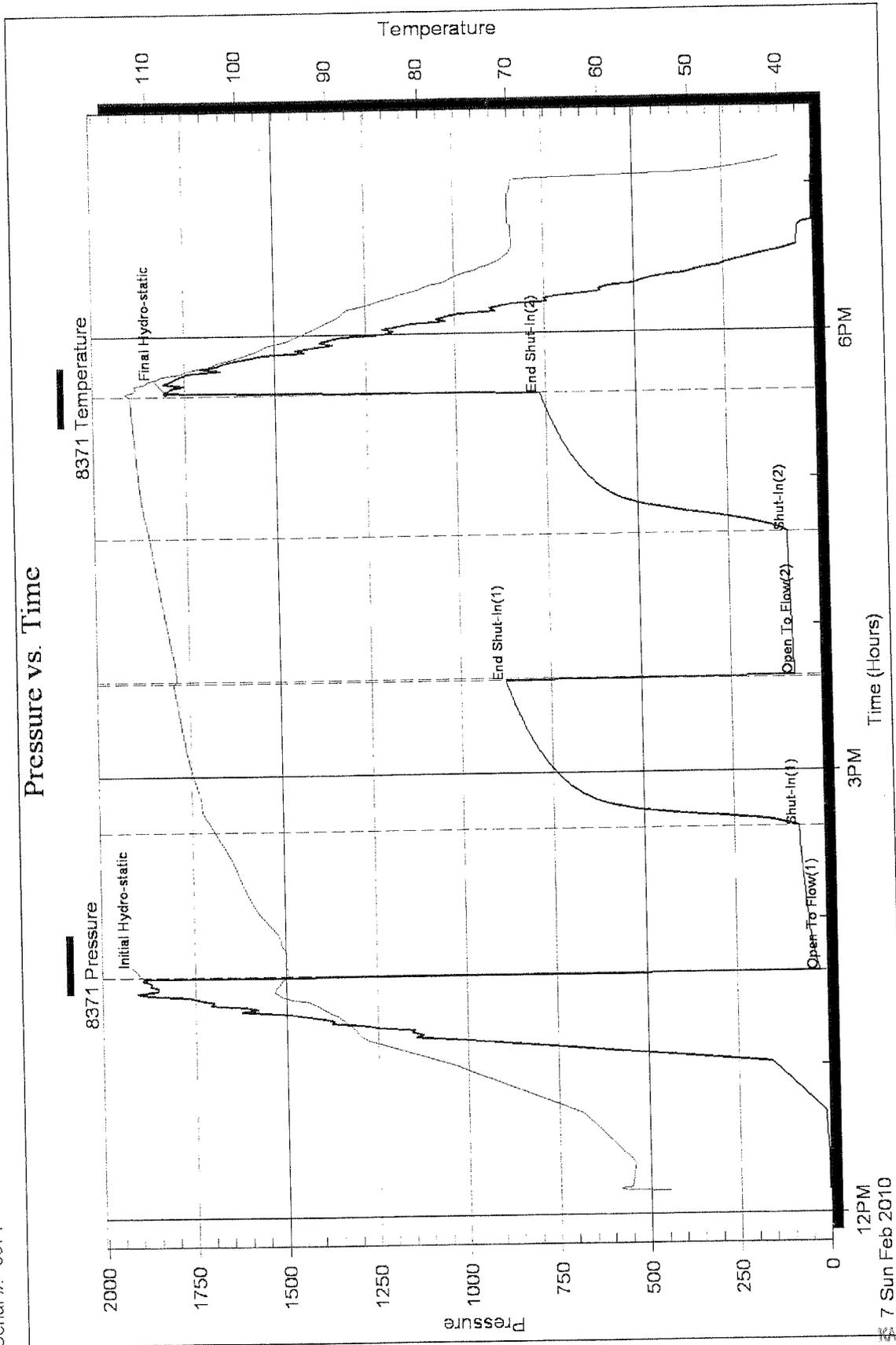
DST Test Number: 3

32-12s-20w/Ellis

Outside Wellert

Serial #: 8371

Pressure vs. Time



Ref. No: 38101

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