

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Taurus Oil Company**

P O Box 981
Hays Ks 67601

ATTN: Jeff Koron

27-13s-20w Ellis KS

Koron-Giebler #2

Start Date: 2009.10.12 @ 04:32:30

End Date: 2009.10.12 @ 11:13:24

Job Ticket #: 36678 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



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TESTING, INC.**

DRILL STEM TEST REPORT

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Hays Ks 67601

ATTN: Jeff Koron

Koron-Giebler #2

27-13s-20w Ellis KS

Job Ticket: 36678

DST#: 1

Test Start: 2009.10.12 @ 04:32:30

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:20:55

Time Test Ended: 11:13:24

Interval: **3213.00 ft (KB) To 3235.00 ft (KB) (TVD)**

Total Depth: 3235.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Reference Elevations: 2198.00 ft (KB)

2190.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365

Inside

Press@RunDepth: 80.96 psig @ 3214.01 ft (KB)

Start Date: 2009.10.12 End Date: 2009.10.12

Start Time: 04:32:30 End Time: 11:13:24

Capacity: 8000.00 psig

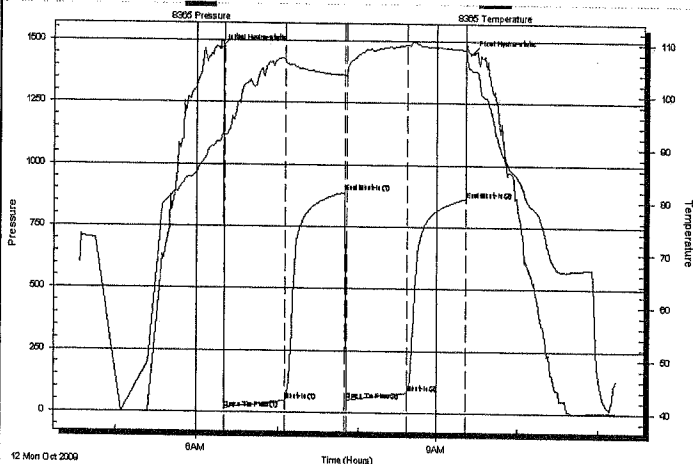
Last Calib.: 2009.10.12

Time On Btm: 2009.10.12 @ 06:17:25

Time Off Btm: 2009.10.12 @ 09:25:54

TEST COMMENT: IFP-wk to a gd bl 1/2" to 7 1/2" bl
FFP-wk to a fr bl 1/2" to 4 1/2" bl
Times 45-45-45-45
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

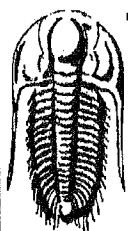
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1467.59	91.39	Initial Hydro-static
4	13.29	92.51	Open To Flow (1)
48	46.91	106.52	Shut-In (1)
93	889.20	103.94	End Shut-In (1)
94	49.73	103.83	Open To Flow (2)
140	80.96	109.75	Shut-In (2)
184	864.73	108.87	End Shut-In (2)
189	1449.66	104.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	155' GIP	0.00
10.00	CO	0.14
25.00	O&G CWM 5% G 10% O 25% W 60% M	0.35
45.00	SOC MW 3% O 10% M 87% W	0.63
60.00	Water	0.84

Gas Rates

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

TOOL DIAGRAM

Taurus Oil Company

Koron-Giebler #2

P O Box 981
Hays Ks 67601

27-13s-20w Ellis KS

Job Ticket: 36678

DST#: 1

ATTN: Jeff Koron

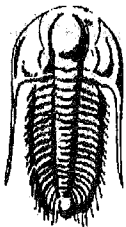
Test Start: 2009.10.12 @ 04:32:30

Tool Information

Drill Pipe:	Length: 3197.00 ft	Diameter: 3.80 inches	Volume: 44.85 bbl	Tool Weight:	2200.00-lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			Total Volume: 44.85 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3213.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.02 ft				
Tool Length:	43.02 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			3193.00	
Shut In Tool	5.00			3198.00	
Hydraulic tool	5.00			3203.00	
Packer	5.00			3208.00	21.00 Bottom Of Top Packer
Packer	5.00			3213.00	
Stubb	1.00			3214.00	
Recorder	0.01	8365	Inside	3214.01	
Recorder	0.01	6625	Outside	3214.02	
Perforations	18.00			3232.02	
Bullnose	3.00			3235.02	22.02 Bottom Packers & Anchor
Total Tool Length:		43.02			



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FLUID SUMMARY

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Koron-Giebler #2

P O Box 981
Hays Ks 67601

27-13s-20w Ellis KS

Job Ticket: 36678

DST#: 1

ATTN: Jeff Koron

Test Start: 2009.10.12 @ 04:32:30

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 8.74 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:

Oil API:

32 deg API

Water Salinity:

52000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	155'GIP	0.000
10.00	CO	0.140
25.00	O&GCWM 5%G10%O25%W60%M	0.351
45.00	SOCMW 3%O10%M87%W	0.631
60.00	Water	0.842

Total Length: 140.00 ft

Total Volume: 1.964 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

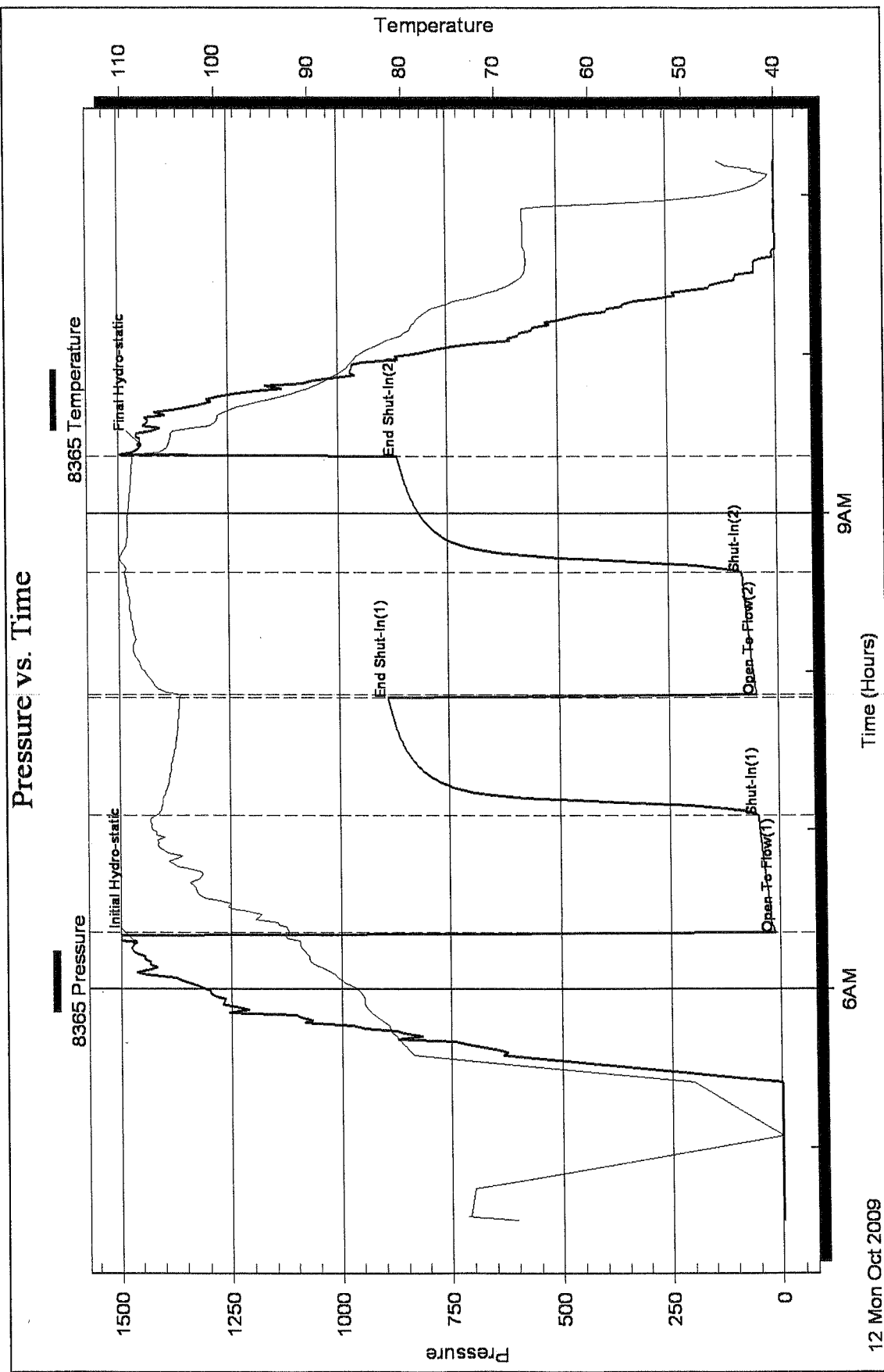
Serial #:

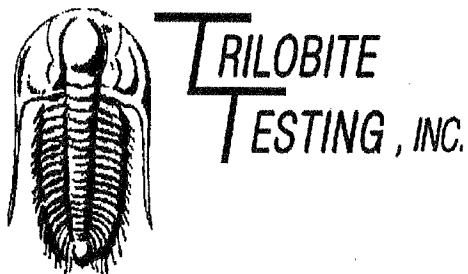
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .18@ 55F

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Taurus Oil Company**

P O Box 981
Hays Ks 67601

ATTN: Jeff Koron

27-13s-20w Ellis KS

Koron-Giebler #2

Start Date: 2009.10.14 @ 08:18:26

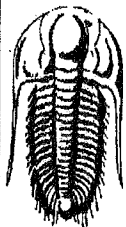
End Date: 2009.10.14 @ 15:02:20

Job Ticket #: 36679 DST #: 2

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Taurus Oil Company

P O Box 981
Hays Ks 67601

ATTN: Jeff Koron

Koron-Giebler #2

27-13s-20w Ellis KS

Job Ticket: 36679

DST#: 2

Test Start: 2009.10.14 @ 08:18:26

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:53:21

Time Test Ended: 15:02:20

Interval: **3810.00 ft (KB) To 3820.00 ft (KB) (TVD)**

Total Depth: 3898.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Straddle

Tester: Ray Schwager

Unit No: 42

Reference Elevations: 2198.00 ft (KB)

2190.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365

Inside

Press@RunDepth: 119.79 psig @ 3811.01 ft (KB)

Start Date: 2009.10.14

End Date:

2009.10.14

Start Time: 08:18:26

End Time:

15:02:20

Capacity: 8000.00 psig

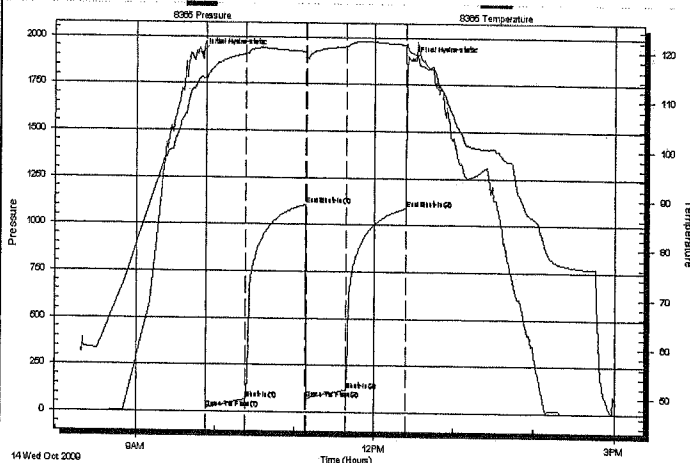
Last Calib.: 2009.10.14

Time On Btm: 2009.10.14 @ 09:49:51

Time Off Btm: 2009.10.14 @ 12:29:21

TEST COMMENT: IFP-wk to strg in 8 min
FFP-wk to strg in 10 min
Times 30-45-30-45
ISIP-1/4"bl bk, FSIP-1/4"bl bk

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.81	114.46	Initial Hydro-static
4	17.98	113.87	Open To Flow(1)
34	66.78	119.30	Shut-In(1)
78	1105.76	119.82	End Shut-In(1)
79	71.99	118.63	Open To Flow(2)
109	119.79	120.91	Shut-In(2)
155	1089.45	121.39	End Shut-In(2)
160	1881.42	119.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
590.00	GIP	8.28
250.00	CO	3.51
30.00	MGO 30%G6%M64%O	0.42

Gas Rates

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

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Job Ticket: 36679

DST#: 2

Test Start: 2009.10.14 @ 08:18:26

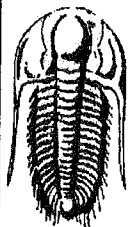
Tool Information

Drill Pipe:	Length: 3813.00 ft	Diameter: 3.80 inches	Volume: 53.49 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 53.49 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	3810.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	3820.01 ft				
Interval between Packers:	10.01 ft				
Tool Length:	112.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3790.00	
Shut In Tool	5.00			3795.00	
Hydraulic tool	5.00			3800.00	
Packer	5.00			3805.00	21.00 Bottom Of Top Packer
Packer	5.00			3810.00	
Stubb	1.00			3811.00	
Recorder	0.01	8365	Inside	3811.01	
Perforations	5.00			3816.01	
Blank Off Sub	1.00			3817.01	
Blank Spacing	3.00			3820.01	10.01 Tool Interval
Packer	5.00			3825.01	
Perforations	10.00			3835.01	
Recorder	0.01	6625	Outside	3835.02	
Blank Spacing	63.00			3898.02	
Bullnose	3.00			3901.02	81.01 Bottom Packers & Anchor

Total Tool Length: 112.02



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Job Ticket: 36679

DST#: 2

ATTN: Jeff Koron

Test Start: 2009.10.14 @ 08:18:26

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 65.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
590.00	GIP	8.276
250.00	CO	3.507
30.00	MGO 30%G6%M64%O	0.421

Total Length: 870.00 ft

Total Volume: 12.204 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

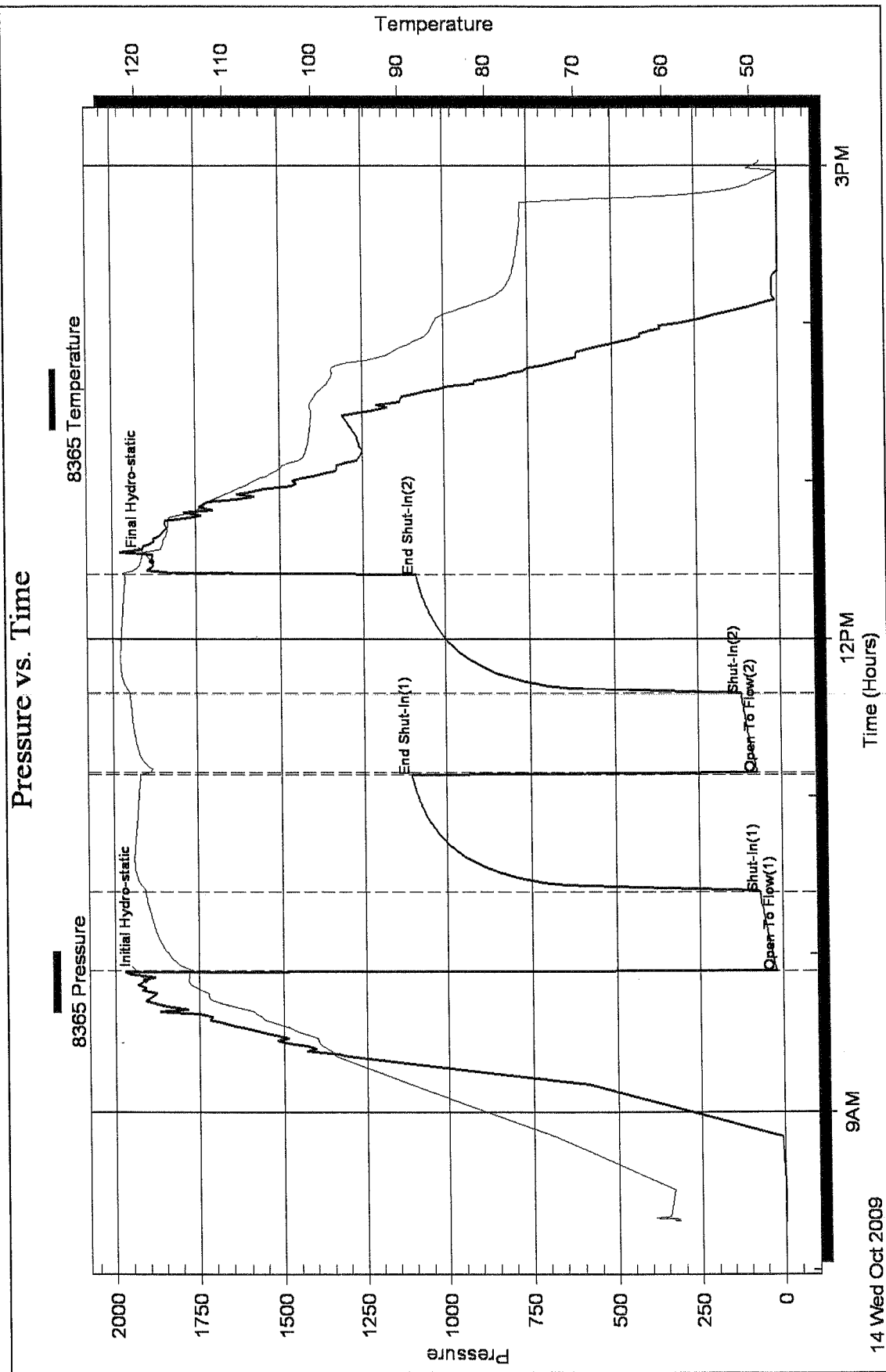
27-13s-20w Ellis KS

Taurus Oil Company

Inside

Serial #: 8365

Pressure vs. Time



Ref. No: 36679

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