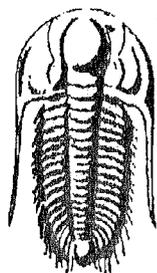


31-14s-32w

15-109-20875-00-00

IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: Landmark Resources Inc.

1616 S. Voss Rd
Suite 150
Houston TX 77057

ATTN: Terry Mcleod

31 ~~36~~-14s-32w-Logan KS

Ottley 1-31

Start Date: 2009.12.31 @ 05:45:01

End Date: 2009.12.31 @ 13:19:24

Job Ticket #: 37917 DST #: 1

Landmark Resources Inc.

Ottley 1-31

~~36~~-14s-32w-Logan KS

DST # 1

Lansing "C"

2009.12.31

Section is 31, not 36 as printed.

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CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc.

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

Ottley 1-31

36-14s-32w-Logan KS

Job Ticket: 37917

DST#: 1

Test Start: 2009.12.31 @ 05:45:01

GENERAL INFORMATION:

Formation: **Lansing "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:35:00
Time Test Ended: 13:19:24

Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 37

Interval: **3823.00 ft (KB) To 3850.00 ft (KB) (TVD)**
Total Depth: 3850.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2828.00 ft (KB)
2824.00 ft (CF)
KB to GR/CF: 4.00 ft

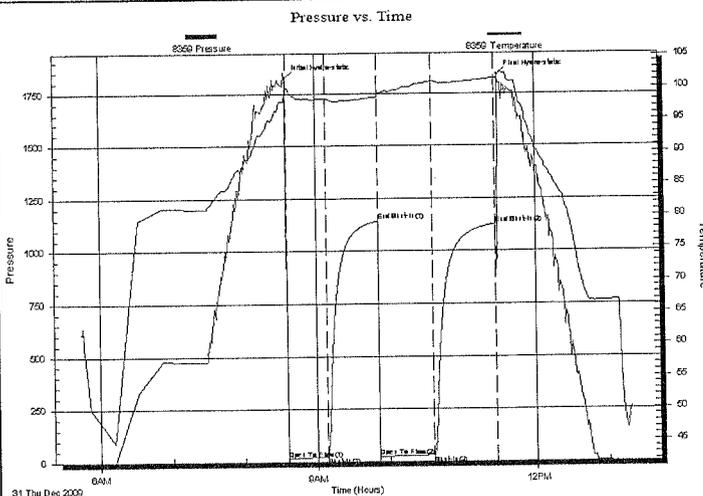
Serial #: 8359

Inside

Press@RunDepth: 28.63 psig @ 3824.00 ft (KB)
Start Date: 2009.12.31 End Date: 2009.12.31
Start Time: 05:45:01 End Time: 13:19:24

Capacity: 8000.00 psig
Last Calib.: 2009.12.31
Time On Btm: 2009.12.31 @ 08:34:36
Time Off Btm: 2009.12.31 @ 11:29:11

TEST COMMENT: IF: Built to 1/2" blow
IS: no return
FF: Surface blow
FS: no return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.95	99.20	Initial Hydro-static
1	15.24	99.58	Open To Flow (1)
33	21.17	98.22	Shut-In(1)
77	1142.34	98.45	End Shut-In(1)
77	21.39	98.98	Open To Flow (2)
122	28.63	100.90	Shut-In(2)
173	1127.90	101.38	End Shut-In(2)
175	1836.97	101.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbi)
10.00	100 % m	0.05
0.00	API=0	0.00

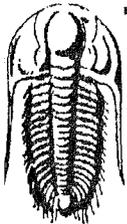
Gas Rates

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

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WICHITA, KS



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

Ottley 1-31

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

36-14s-32w-Logan KS

Job Ticket: 37917 DST#: 1

Test Start: 2009.12.31 @ 05:45:01

Tool Information

Drill Pipe:	Length: 3710.00 ft	Diameter: 3.80 inches	Volume: 52.04 bbl	Tool Weight: 1500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
		<u>Total Volume: 52.64 bbl</u>		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.50 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3823.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	49.50 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

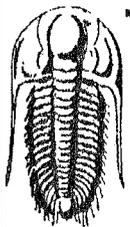
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3801.50	
Shut In Tool	5.00			3806.50	
Hydraulic tool	5.00			3811.50	
Safety Joint	2.50			3814.00	
Packer	5.00			3819.00	22.50 Bottom Of Top Packer
Packer	4.00			3823.00	
Stubb	1.00			3824.00	
Recorder	0.00	8351	Inside	3824.00	
Recorder	0.00	8359	Inside	3824.00	
Perforations	21.00			3845.00	
Bullnose	5.00			3850.00	27.00 Bottom Packers & Anchor

Total Tool Length: 49.50

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WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

Ottley 1-31

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

36-14s-32w-Logan KS

Job Ticket: 37917

DST#: 1

Test Start: 2009.12.31 @ 05:45:01

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: 7.13 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100 % m	0.049
0.00	API=0	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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CONSERVATION DIVISION
WICHITA, KS

Serial #: 8359

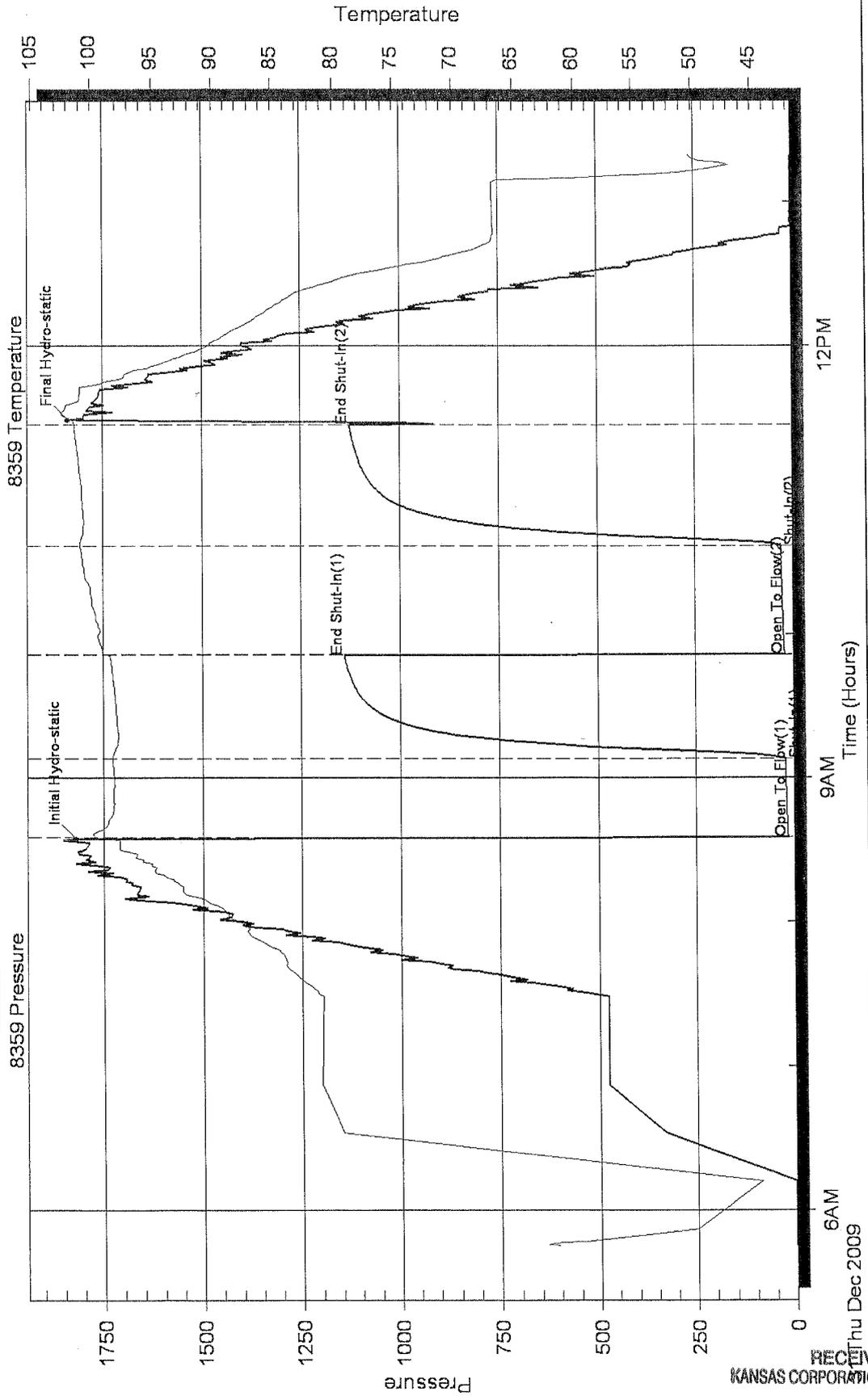
Inside

Landmark Resources Inc.

36-14s-32w-Logan KS

DST Test Number: 1

Pressure vs. Time



APR 22 2010

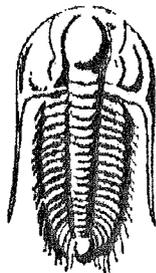
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WICHITA, KS

Tripbrite Testing, Inc

Ref. No: 37917

Printed: 2010.01.07 @ 20:42:52 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd
Suite 150
Houston TX 77057

ATTN: Terry Mcleod

36-14s-32w-Logan KS

Ottley 1-31

Start Date: 2010.01.01 @ 03:05:01

End Date: 2010.01.01 @ 09:59:36

Job Ticket #: 37918 DST #: 2

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WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc.

Ottley 1-31

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

36-14s-32w-Logan KS

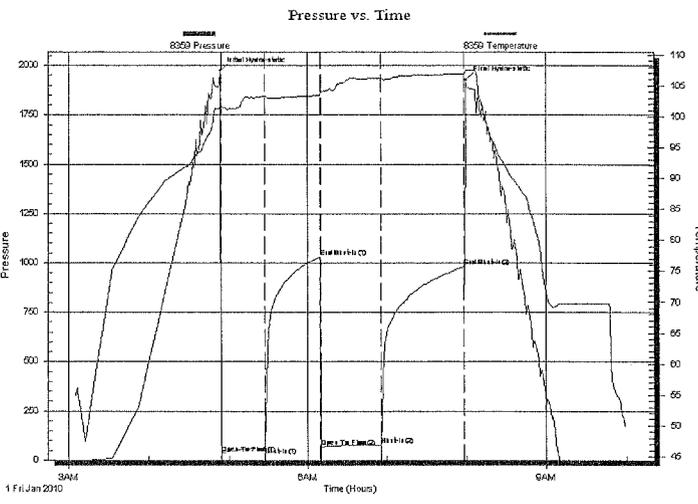
Job Ticket: 37918 DST#: 2
Test Start: 2010.01.01 @ 03:05:01

GENERAL INFORMATION:

Formation: **Lansing**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:53:36
 Time Test Ended: 09:59:36
 Interval: **3954.00 ft (KB) To 3990.00 ft (KB) (TVD)**
 Total Depth: 3850.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Mike Roberts
 Unit No: 37
 Reference Elevations: 2828.00 ft (KB)
 2824.00 ft (CF)
 KB to GR/CF: 4.00 ft

Serial #: 8359 **Inside**
 Press@RunDepth: 79.17 psig @ 3955.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.01.01 End Date: 2010.01.01 Last Calib.: 2010.01.01
 Start Time: 03:05:01 End Time: 09:59:36 Time On Btm: 2010.01.01 @ 04:53:24
 Time Off Btm: 2010.01.01 @ 07:59:24

TEST COMMENT: IF: Built to 1 1/2" blow
 IS: no return
 FF: Built to 1" blow
 FS: no return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1973.32	101.71	Initial Hydro-static
1	32.74	101.74	Open To Flow (1)
34	65.56	103.30	Shut-In(1)
77	1030.71	103.43	End Shut-In(1)
77	67.70	104.01	Open To Flow (2)
122	79.17	106.32	Shut-In(2)
184	980.28	106.93	End Shut-In(2)
186	1928.04	107.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	100 % m	0.65
0.00	API=)	0.00

Gas Rates

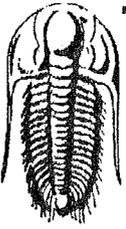
Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

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WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.
1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

Ottley 1-31
36-14s-32w-Logan KS
Job Ticket: 37918 DST#: 2
Test Start: 2010.01.01 @ 03:05:01

Tool Information

Drill Pipe:	Length: 3837.00 ft	Diameter: 3.80 inches	Volume: 53.82 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 54.42 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	26.50 ft			String Weight: Initial	lb
Depth to Top Packer:	3954.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	58.50 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

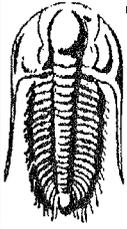
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3932.50	
Shut In Tool	5.00			3937.50	
Hydraulic tool	5.00			3942.50	
Safety Joint	2.50			3945.00	
Packer	5.00			3950.00	22.50 Bottom Of Top Packer
Packer	4.00			3954.00	
Stubb	1.00			3955.00	
Recorder	0.00	8351	Inside	3955.00	
Recorder	0.00	8359	Inside	3955.00	
Perforations	30.00			3985.00	
Bullnose	5.00			3990.00	36.00 Bottom Packers & Anchor

Total Tool Length: 58.50

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

Ottley 1-31

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

36-14s-32w-Logan KS

Job Ticket: 37918 **DST#: 2**

Test Start: 2010.01.01 @ 03:05:01

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: 7.15 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	100 % m	0.651
0.00	API=)	0.000

Total Length: 125.00 ft Total Volume: 0.651 bbl

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

Laboratory Name: Laboratory Location:

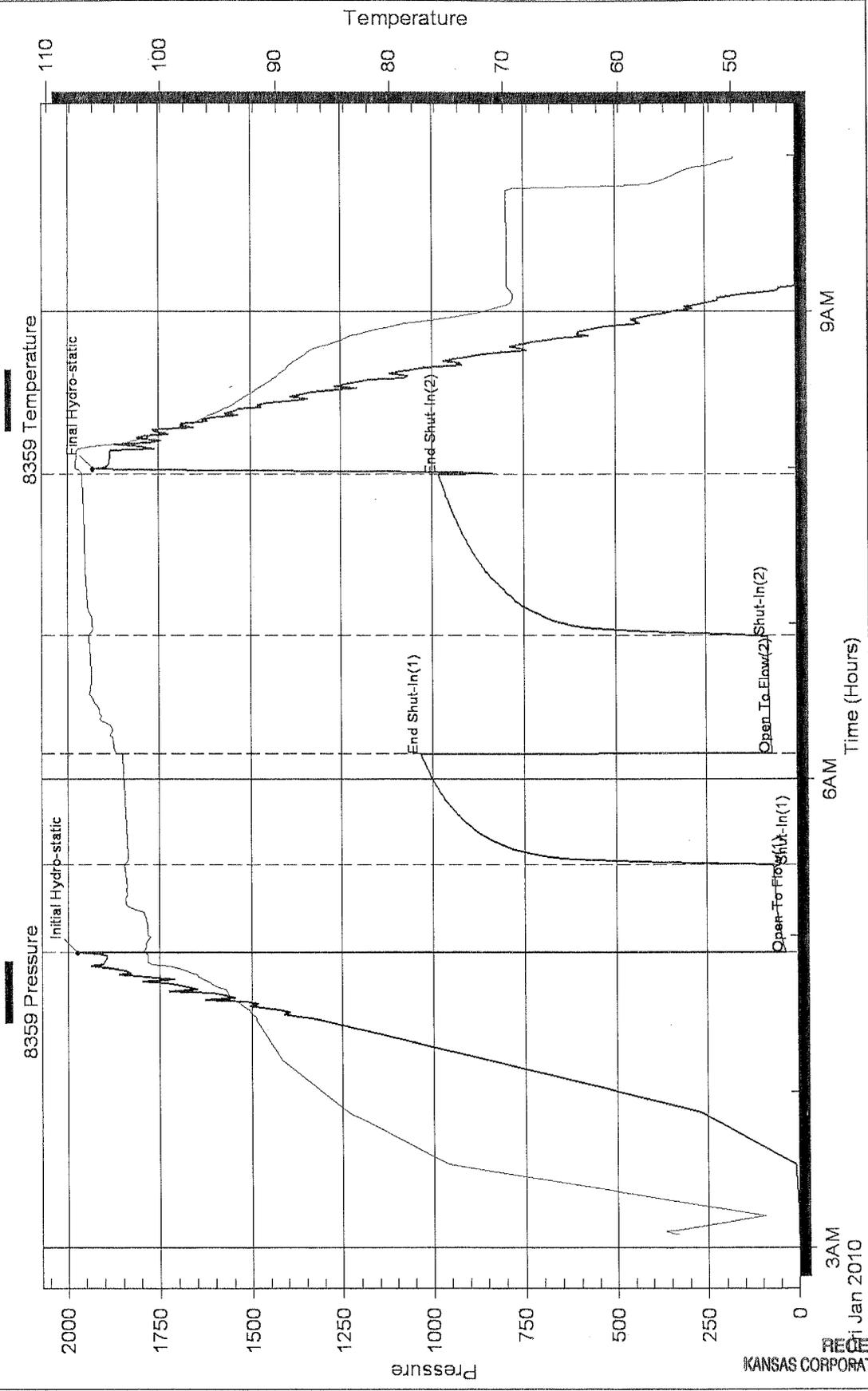
Recovery Comments:

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WICHITA, KS

Pressure vs. Time



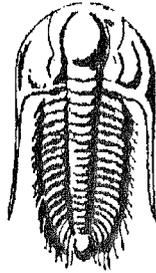
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CONSERVATION DIVISION
WICHITA, KS

Tru-rite Testing, Inc

Ref. No. 37918



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd
Suite 150
Houston TX 77057

ATTN: Terry Mcleod

36-14s-32w-Logan KS

Ottley 1-31

Start Date: 2010.01.01 @ 20:36:01

End Date: 2010.01.02 @ 03:05:48

Job Ticket #: 37919 DST #: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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WICHITA, KS

Landmark Resources Inc.

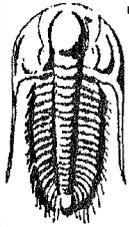
Ottley 1-31

36-14s-32w-Logan KS

DST # 3

Lansing "I-J"

2010.01.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc.

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

Ottley 1-31

36-14s-32w-Logan KS

Job Ticket: 37919 DST#: 3

Test Start: 2010.01.01 @ 20:36:01

GENERAL INFORMATION:

Formation: **Lansing "I-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:16:36
Time Test Ended: 03:05:48

Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 37

Interval: **3992.00 ft (KB) To 4045.00 ft (KB) (TVD)**
Total Depth: 3850.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2828.00 ft (KB)
2824.00 ft (CF)
KB to GR/CF: 4.00 ft

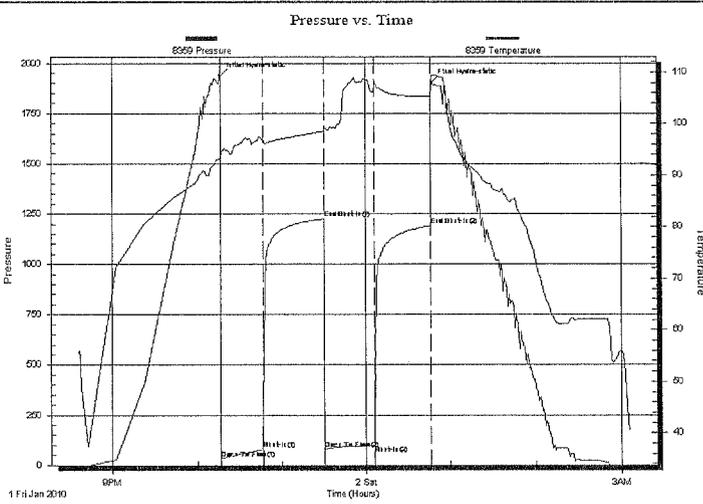
Serial #: 8359

Inside

Press@RunDepth: 100.59 psig @ 3993.00 ft (KB)
Start Date: 2010.01.01 End Date: 2010.01.02
Start Time: 20:36:01 End Time: 03:05:48

Capacity: 8000.00 psig
Last Calib.: 2010.01.02
Time On Btm: 2010.01.01 @ 22:16:00
Time Off Btm: 2010.01.02 @ 00:47:00

TEST COMMENT: IF: Built to 1" blow
IS: No return
FF: Built to 1" blow
FS: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.16	93.25	Initial Hydro-static
1	33.70	93.36	Open To Flow (1)
31	78.88	97.00	Shut-In(1)
75	1225.21	98.52	End Shut-In(1)
75	80.74	98.67	Open To Flow (2)
111	100.59	107.72	Shut-In(2)
150	1191.26	105.23	End Shut-In(2)
151	1903.59	109.07	Final Hydro-static

Recovery

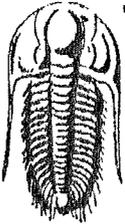
Length (ft)	Description	Volume (bbl)
140.00	m 100%	0.86
0.00	API=0	0.00

Gas Rates

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

Ottley 1-31

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

36-14s-32w-Logan KS

Job Ticket: 37919

DST#: 3

Test Start: 2010.01.01 @ 20:36:01

Tool Information

Drill Pipe:	Length: 3868.00 ft	Diameter: 3.80 inches	Volume: 54.26 bbl	Tool Weight: 1500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 54.86 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	19.50 ft			String Weight: Initial lb
Depth to Top Packer:	3992.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	75.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

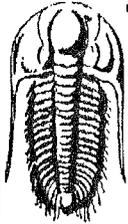
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3970.50	
Shut In Tool	5.00			3975.50	
Hydraulic tool	5.00			3980.50	
Safety Joint	2.50			3983.00	
Packer	5.00			3988.00	22.50 Bottom Of Top Packer
Packer	4.00			3992.00	
Stubb	1.00			3993.00	
Recorder	0.00	8351	Inside	3993.00	
Recorder	0.00	8359	Inside	3993.00	
Change Over Sub	1.00			3994.00	
Drill Pipe	31.00			4025.00	
Change Over Sub	1.00			4026.00	
Perforations	14.00			4040.00	
Bullnose	5.00			4045.00	53.00 Bottom Packers & Anchor

Total Tool Length: 75.50

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WICHITA KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

Ottley 1-31

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry McLeod

36-14s-32w-Logan KS

Job Ticket: 37919 DST#: 3

Test Start: 2010.01.01 @ 20:36:01

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	m 100%	0.862
0.00	API=0	0.000

Total Length: 140.00 ft Total Volume: 0.862 bbl

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

Laboratory Name: Laboratory Location:

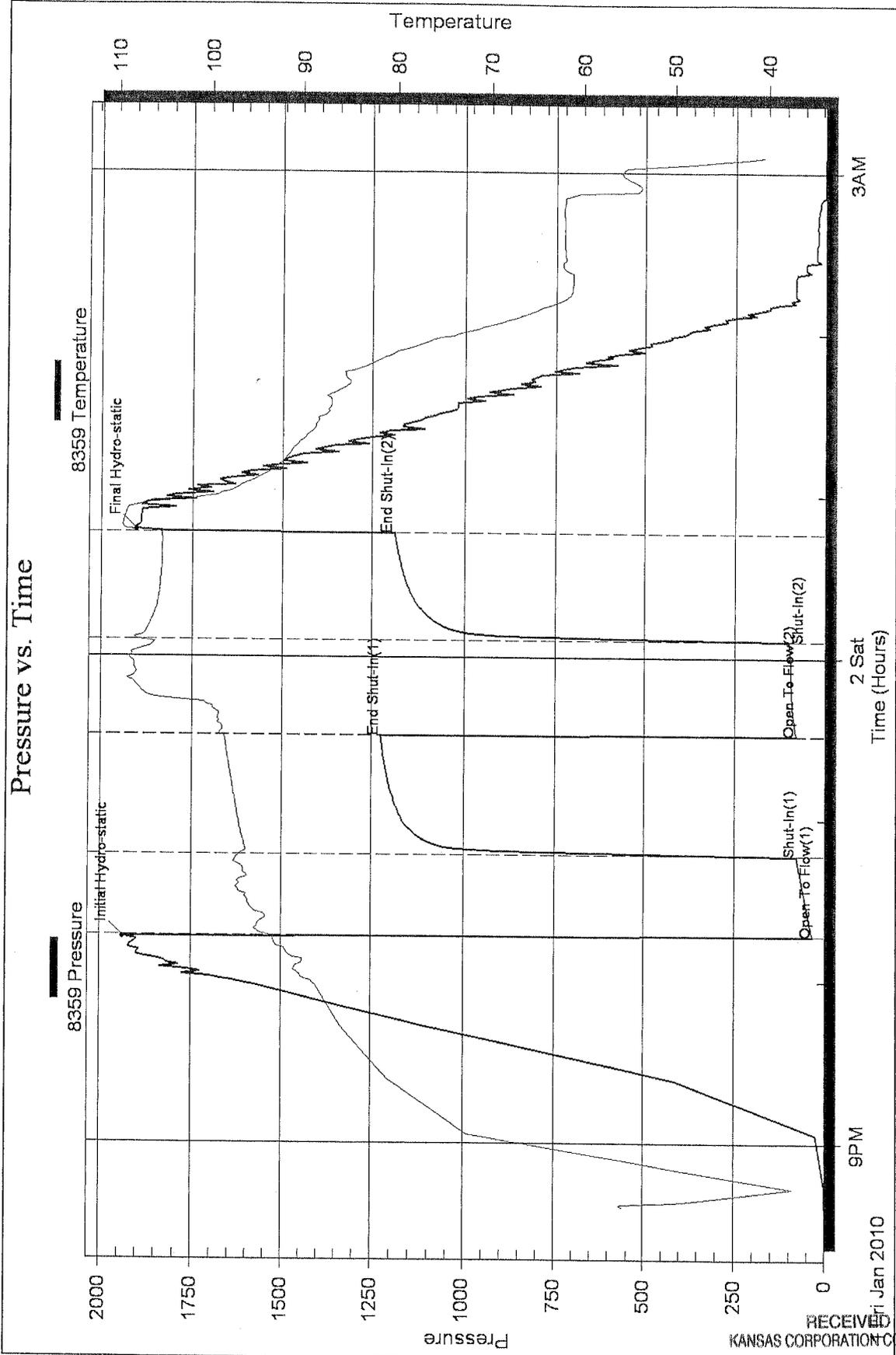
Recovery Comments:

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WICHITA, KS

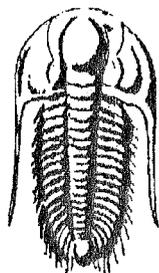
Pressure vs. Time



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WICHITA KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd
Suite 150
Houston TX. 77057

ATTN: Terry Mcleod

36-14s-32w-Logan KS

Ottley 1-31

Start Date: 2010.01.03 @ 12:28:01

End Date: 2010.01.03 @ 20:36:36

Job Ticket #: 37920 DST #: 4

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CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc.

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

Ottley 1-31

36-14s-32w-Logan KS

Job Ticket: 37920

DST#: 4

Test Start: 2010.01.03 @ 12:28:01

GENERAL INFORMATION:

Formation: **Pawnee, Myris Sta, F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:21:24
Time Test Ended: 20:36:36

Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 37

Interval: **4237.00 ft (KB) To 4325.00 ft (KB) (TVD)**
Total Depth: 4325.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2828.00 ft (KE)
2824.00 ft (CF)
KB to GR/CF: 4.00 ft

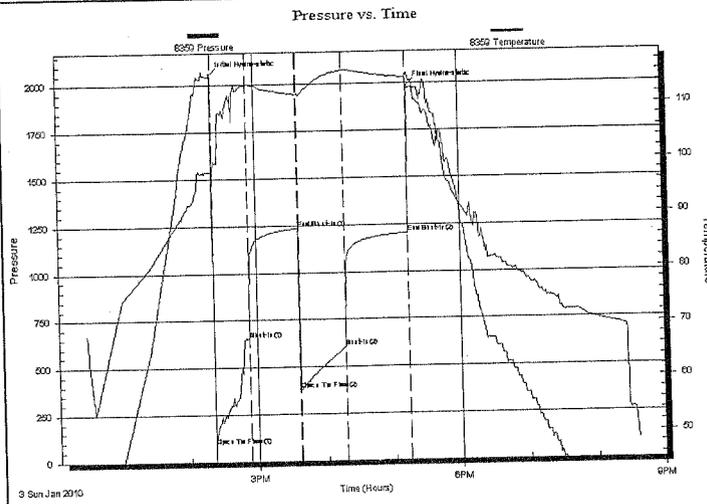
Serial #: 8359

Inside

Press@RunDepth: 604.78 psig @ 4302.00 ft (KB)
Start Date: 2010.01.03 End Date: 2010.01.03
Start Time: 12:28:01 End Time: 20:36:36

Capacity: 8000.00 psig
Last Calib.: 2010.01.03
Time On Btm: 2010.01.03 @ 14:21:00
Time Off Btm: 2010.01.03 @ 17:14:11

TEST COMMENT: IF:BOB in 4 min
IS:no return
FF:BOB in 6 min
FS:no return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.68	97.96	Initial Hydro-static
1	87.12	98.33	Open To Flow (1)
32	650.17	113.76	Shut-In(1)
76	1231.44	111.98	End Shut-In(1)
77	377.12	112.09	Open To Flow (2)
116	604.78	116.28	Shut-In(2)
173	1204.93	114.90	End Shut-In(2)
174	1985.85	115.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	gcom 20%g 30%o 50%m	4.99
248.00	ocg 40%o 60%g	3.48
124.00	o 100%o	1.74
310.00	gco 20%g 80%o	4.35
337.00	msw 20%m 80%sw	4.73
0.00	API=46@50 corrected to 47 @60	0.00

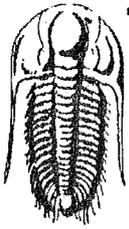
Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

Ottley 1-31

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

36-14s-32w-Logan KS

Job Ticket: 37920 DST#: 4
Test Start: 2010.01.03 @ 12:28:01

Tool Information

Drill Pipe:	Length: 4120.00 ft	Diameter: 3.80 inches	Volume: 57.79 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 58.39 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	26.50 ft			String Weight: Initial	lb
Depth to Top Packer:	4237.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	88.00 ft				
Tool Length:	110.50 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

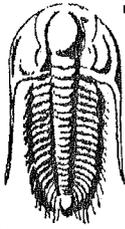
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4215.50	
Shut In Tool	5.00			4220.50	
Hydraulic tool	5.00			4225.50	
Safety Joint	2.50			4228.00	
Packer	5.00			4233.00	22.50 Bottom Of Top Packer
Packer	4.00			4237.00	
Stubb	1.00			4238.00	
Change Over Sub	1.00			4239.00	
Drill Pipe	62.00			4301.00	
Change Over Sub	1.00			4302.00	
Recorder	0.00	8351	Inside	4302.00	
Recorder	0.00	8359	Inside	4302.00	
Perforations	18.00			4320.00	
Bullnose	5.00			4325.00	88.00 Bottom Packers & Anchor

Total Tool Length: 110.50

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TRILLOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.
1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

Ottley 1-31
36-14s-32w-Logan KS
Job Ticket: 37920 DST#: 4
Test Start: 2010.01.03 @ 12:28:01

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 60 deg
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 30000 ppr
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.97 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2300.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
434.00	gcom 20%g 30%o 50%m	4.986
248.00	ocg 40%o 60%g	3.479
124.00	o 100%o	1.739
310.00	gco 20%g 80%o	4.348
337.00	msw 20%m 80%sw	4.727
0.00	API=46@50 coorrected to 47 @60	0.000

Total Length: 1453.00 ft Total Volume: 19.279 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW=37*@.371=30,000 chlorides

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WICHITA KS

DST Test Number: 4

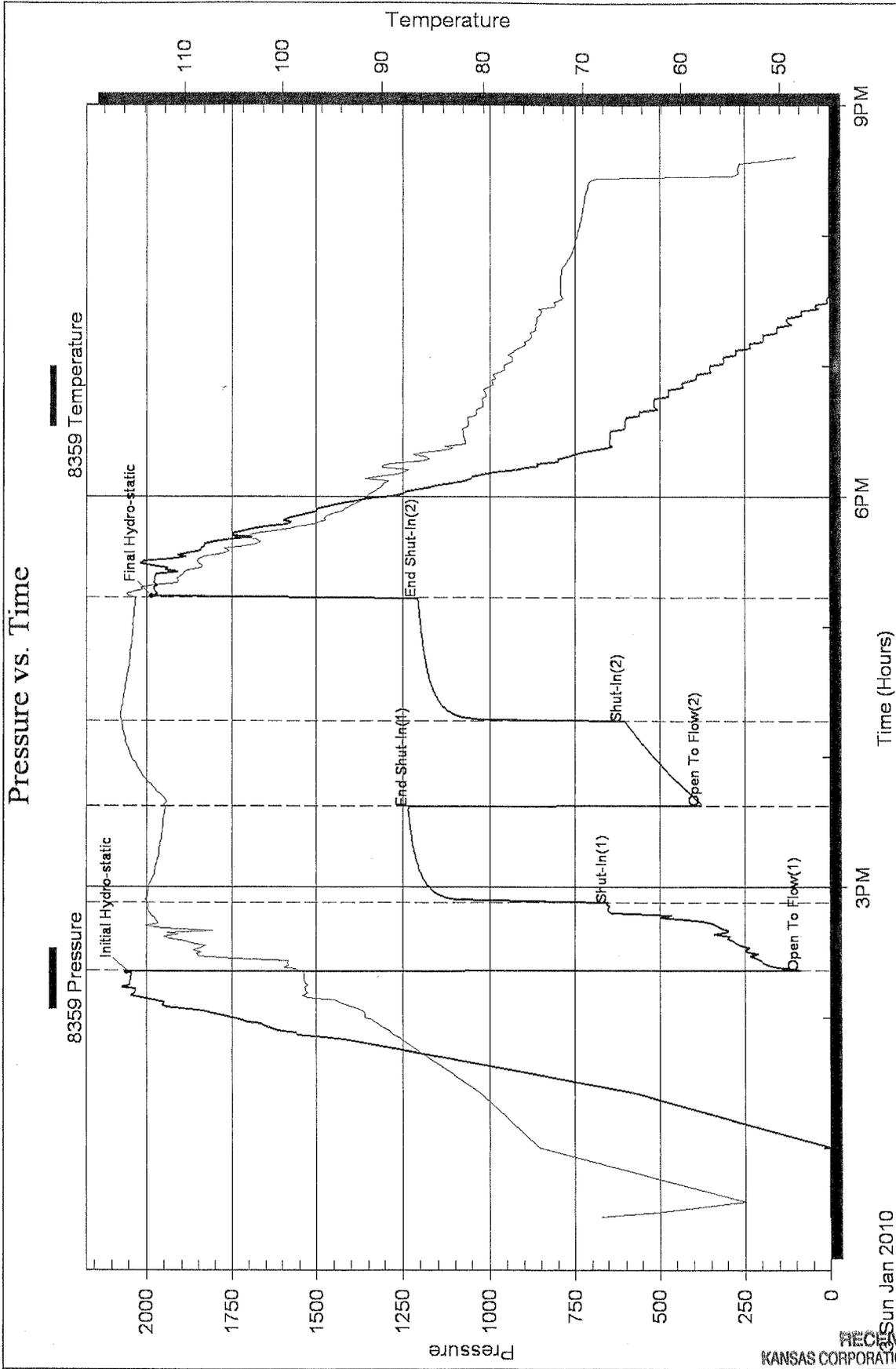
36-14s-32w-Logan KS

Landmark Resources Inc.

Inside

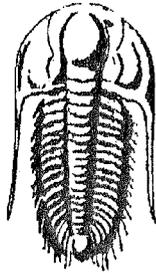
Serial #: 8359

Pressure vs. Time



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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd
Suite 150
Houston TX 77057

ATTN: Terry Mcleod

36-14s-32w-Logan KS

Ottley 1-31

Start Date: 2010.01.04 @ 07:23:01

End Date: 2010.01.04 @ 14:13:12

Job Ticket #: 37921 DST #: 5

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc.

Ottley 1-31

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

36-14s-32w-Logan KS

Job Ticket: 37921

DST#: 5

Test Start: 2010.01.04 @ 07:23:01

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:36:48
Time Test Ended: 14:13:12

Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 37

Interval: **4355.00 ft (KB) To 4399.00 ft (KB) (TVD)**
Total Depth: 3850.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2828.00 ft (KB)
2824.00 ft (CF)
KB to GR/CF: 4.00 ft

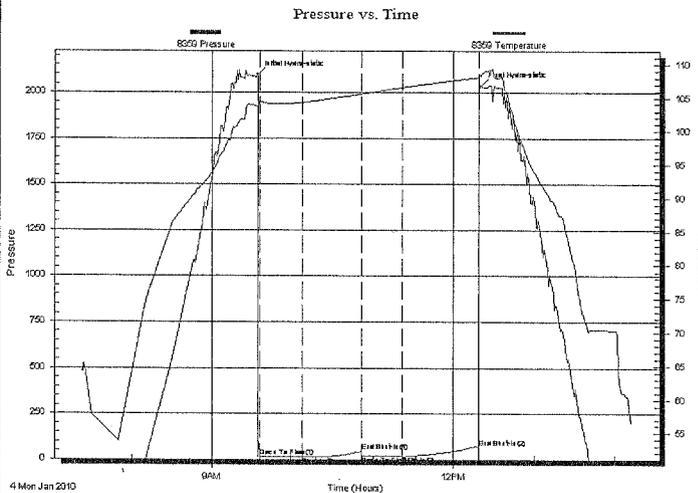
Serial #: 8359

Inside

Press@RunDepth: 17.70 psig @ 4356.00 ft (KB)
Start Date: 2010.01.04 End Date: 2010.01.04
Start Time: 07:23:01 End Time: 14:13:11

Capacity: 8000.00 psig
Last Calib.: 2010.01.04
Time On Btm: 2010.01.04 @ 09:35:24
Time Off Btm: 2010.01.04 @ 12:19:36

TEST COMMENT: IF:Surface blow died in 12 min.
IS:No return
FF:No blow
FS:No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.24	103.68	Initial Hydro-static
2	15.80	104.36	Open To Flow (1)
34	16.76	104.27	Shut-In(1)
77	46.53	105.53	End Shut-In(1)
77	17.18	105.56	Open To Flow(2)
107	17.70	106.53	Shut-In(2)
164	69.93	108.07	End Shut-In(2)
165	2035.21	108.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	100% m	0.01
0.00	API=0	0.00

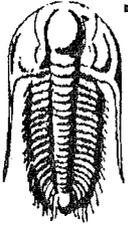
Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (M)

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

Ottley 1-31

1616 S. Voss Rd
Suite 150
Houston TX. 77057
ATTN: Terry Mcleod

36-14s-32w-Logan KS
Job Ticket: 37921 DST#: 5
Test Start: 2010.01.04 @ 07:23:01

Tool Information

Drill Pipe:	Length: 4215.00 ft	Diameter: 3.80 inches	Volume: 59.13 bbl	Tool Weight: 1500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 59.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.50 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4355.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	66.50 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			4333.50	
Shut In Tool	5.00			4338.50	
Hydraulic tool	5.00			4343.50	
Safety Joint	2.50			4346.00	
Packer	5.00			4351.00	22.50 Bottom Of Top Packer
Packer	4.00			4355.00	
Stubb	1.00			4356.00	
Recorder	0.00	8351	Inside	4356.00	
Recorder	0.00	8359	Inside	4356.00	
Perforations	38.00			4394.00	
Bullnose	5.00			4399.00	44.00 Bottom Packers & Anchor

Total Tool Length: 66.50

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DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

Ottley 1-31

1616 S. Voss Rd

36-14s-32w-Logan KS

Suite 150

Job Ticket: 37921

DST#: 5

Houston TX. 77057

ATTN: Terry Mcleod

Test Start: 2010.01.04 @ 07:23:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg A

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	100% m	0.010
0.00	API=0	0.000

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

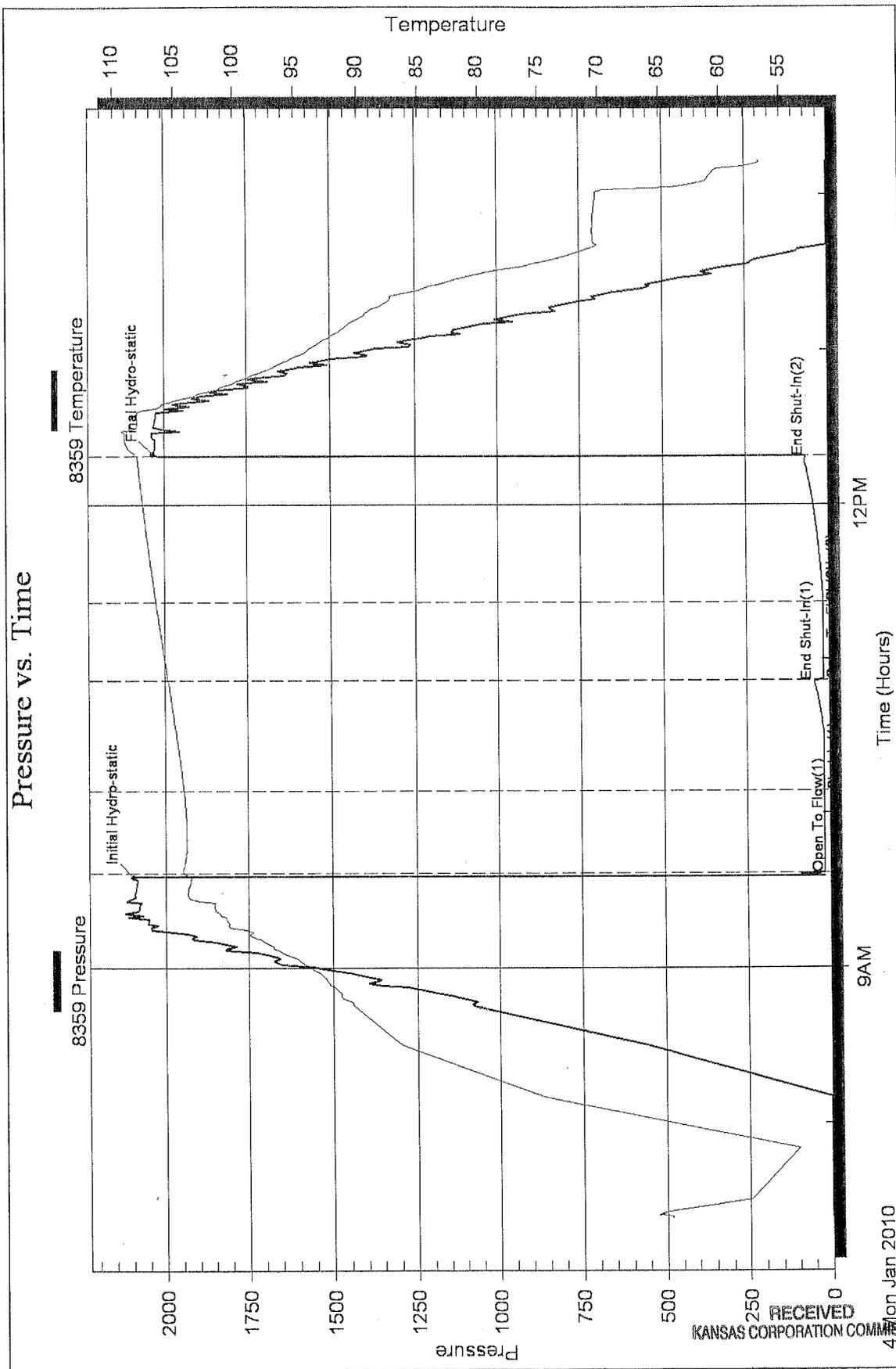
Recovery Comments:

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Pressure vs. Time



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