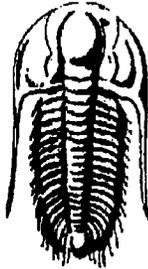


15-065-23551

28-6s-23w

IND



**TRILOBITE  
TESTING, INC.**

**KCC  
SEP 10 2009  
CONFIDENTIAL**

**DRILL STEM TEST REPORT**

Prepared For: **H&C Oil Operating Inc**

P O Box 86  
Plainville Ks 67663-0086

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SEP 15 2009

KCC WICHITA

ATTN: Charles Ramsay

**28-6s-23w Graham KS**

**Tien #28-1**

Start Date: 2009.07.04 @ 10:51:10

End Date: 2009.07.04 @ 18:13:34

Job Ticket #: 36443                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

H&C Oil Operating Inc

Tien #28-1

28-6s-23w Graham KS

DST # 1

LKC A-C

2009.07.04



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

H&C Oil Operating Inc  
P O Box 86  
Plainville Ks 67663-0086  
ATTN: Charles Ramsay

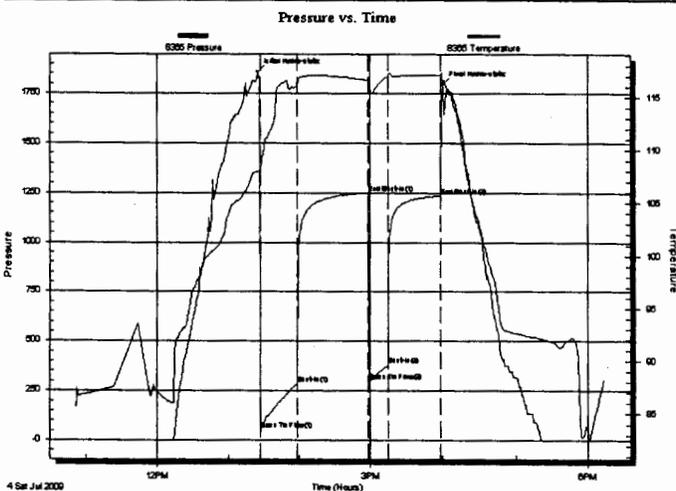
**Tien #28-1**  
**28-6s-23w Graham KS**  
Job Ticket: 36443      DST#: 1  
Test Start: 2009.07.04 @ 10:51:10

## GENERAL INFORMATION:

Formation: **LKC A-C**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: **13:27:35**  
Time Test Ended: **18:13:34**  
Interval: **3705.00 ft (KB) To 3755.00 ft (KB) (TVD)**  
Total Depth: **3755.00 ft (KB) (TVD)**  
Hole Diameter: **7.85 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Ray Schwager**  
Unit No: **42**  
Reference Elevations: **2458.00 ft (KB)**  
**2453.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 8365**      **Inside**  
Press@RunDepth: **379.13 psig @ 3706.01 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2009.07.04**      End Date: **2009.07.04**      Last Calib.: **2009.07.04**  
Start Time: **10:51:10**      End Time: **18:13:34**      Time On Btrn: **2009.07.04 @ 13:24:35**  
Time Off Btrn: **2009.07.04 @ 15:59:34**

**TEST COMMENT:** IFF-wk to strg in 3 min  
FFP-wk to strg in 5 1/2 min  
Times 30-60-15-45  
no bl on shut-in



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.17	107.94	Initial Hydro-static
3	52.46	107.78	Open To Flow (1)
34	286.71	115.99	Shut-In(1)
94	1247.38	116.60	End Shut-In(1)
94	296.91	116.32	Open To Flow (2)
110	379.13	116.91	Shut-In(2)
154	1235.69	117.05	End Shut-In(2)
155	1794.68	115.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	WM 10%W90%M	0.56
120.00	SOCWM 2%O40%W58%M	1.68
60.00	SOCMW 2%O58%W40%M	0.84
400.00	HO&GCW 12%G35%O43%W	5.61
80.00	Water	1.12

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

H&C Oil Operating Inc  
P O Box 86  
Plainville Ks 67663-0086  
ATTN: Charles Ramsay

**Tien #28-1**  
**28-6s-23w Graham KS**  
Job Ticket: 36443      **DST#: 1**  
Test Start: 2009.07.04 @ 10:51:10

**Tool Information**

Drill Pipe:	Length: 3690.00 ft	Diameter: 3.80 inches	Volume: 51.76 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: 45000.00 lb
		Total Volume: 51.76 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3705.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.02 ft			
Tool Length:	78.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3678.00	
Shut In Tool	5.00			3683.00	
Hydraulic tool	5.00			3688.00	
Jars	5.00			3693.00	
Safety Joint	2.00			3695.00	
Packer	5.00			3700.00	28.00      Bottom Of Top Packer
Packer	5.00			3705.00	
Stubb	1.00			3706.00	
Recorder	0.01	8365	Inside	3706.01	
Recorder	0.01	6625	Outside	3706.02	
Blank Spacing	33.00			3739.02	
Perforations	13.00			3752.02	
Bullnose	3.00			3755.02	50.02      Bottom Packers & Anchor

**Total Tool Length: 78.02**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operating Inc

**Tien #28-1**

P O Box 86  
Plainville Ks 67663-0086

**28-6s-23w Graham KS**

Job Ticket: 36443      **DST#: 1**

ATTN: Charles Ramsay

Test Start: 2009.07.04 @ 10:51:10

### Mud and Cushion Information

Mud Type: Polymer	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	65000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.74 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	WM 10%W90%M	0.561
120.00	SOCWM 2%O40%W58%M	1.683
60.00	SOCMW 2%O58%W40%M	0.842
400.00	HO&GCW 12%G35%O43%W	5.611
80.00	Water	1.122

Total Length: 700.00 ft      Total Volume: 9.819 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW .12 @70F

DST Test Number: 1

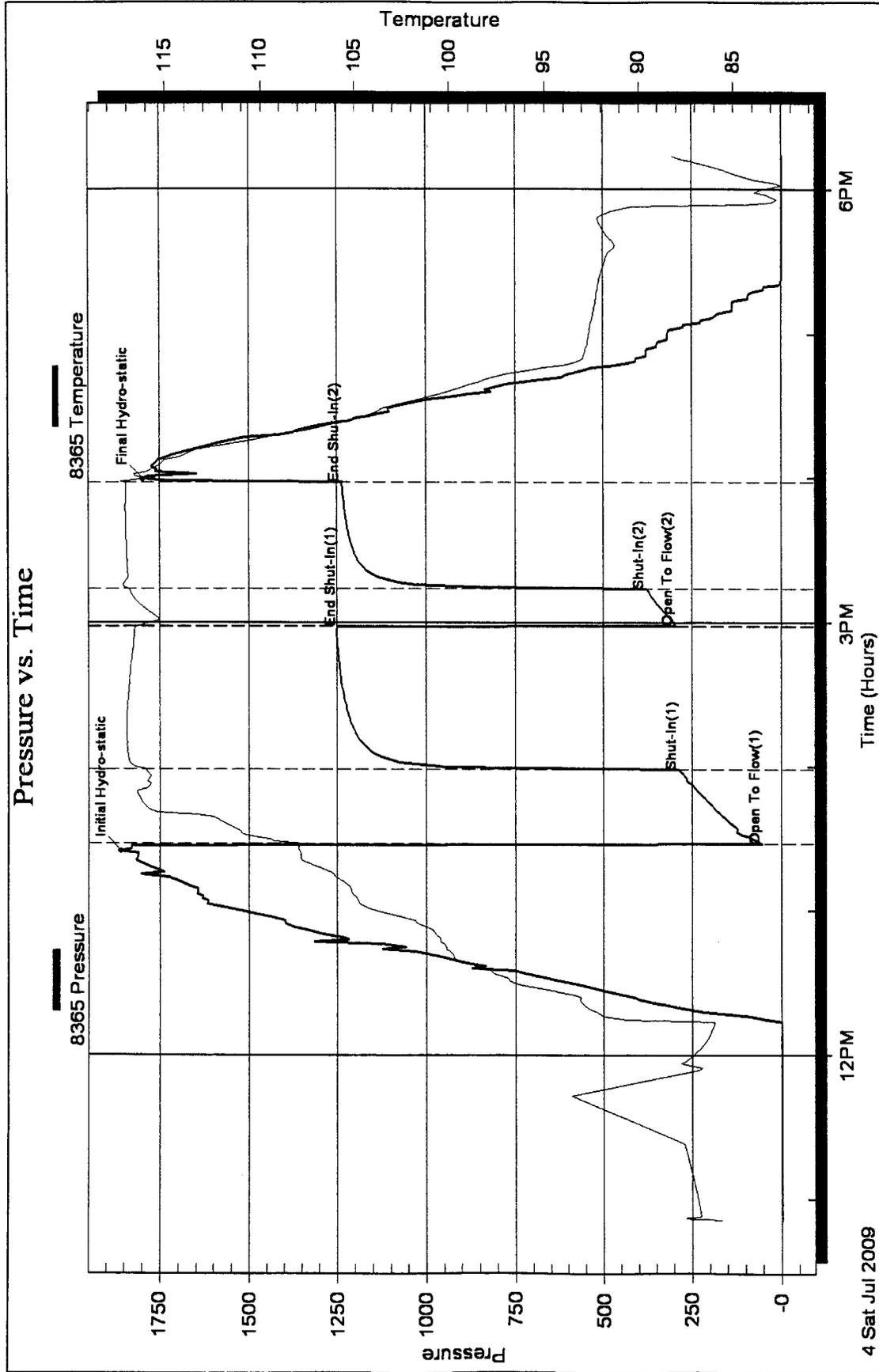
28-6s-23w Graham KS

H&C Oil Operating Inc

Inside

Serial #: 8365

### Pressure vs. Time



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Ref. No: 36443

Trilobite Testing, Inc



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

P O Box 86  
Plainville Ks 67663-0086

ATTN: Charles Ramsay

**28-6s-23w Graham KS**

**Tien #28-1**

Start Date: 2009.07.05 @ 01:09:15

End Date: 2009.07.05 @ 09:01:09

Job Ticket #: 36444                      DST #: 2

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

H&C Oil Operating Inc  
P O Box 86  
Rainville Ks 67663-0086  
ATTN: Charles Ramsay

**Tien #28-1**  
**28-6s-23w Graham KS**  
Job Ticket: 36444      **DST#: 2**  
Test Start: 2009.07.05 @ 01:09:15

## GENERAL INFORMATION:

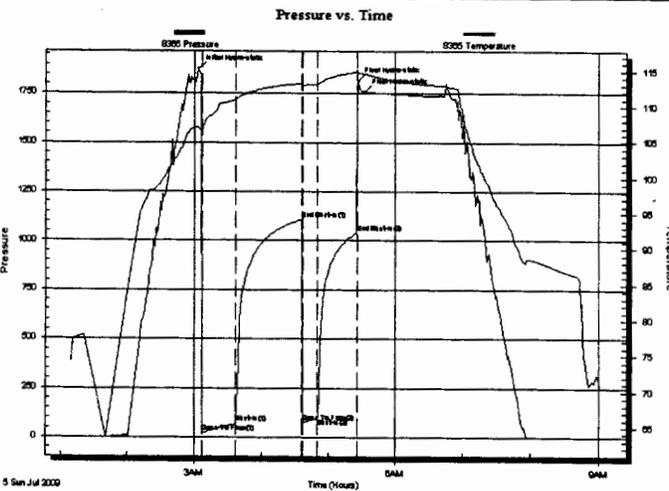
Formation: **LKC "D"**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 03:06:10  
Time Test Ended: 09:01:09  
Test Type: **Conventional Bottom Hole**  
Tester: **Ray Schwager**  
Unit No: **42**  
Interval: **3754.00 ft (KB) To 3774.00 ft (KB) (TVD)**  
Reference Elevations: **2458.00 ft (KB)**  
**2453.00 ft (CF)**  
Total Depth: **3774.00 ft (KB) (TVD)**  
Hole Diameter: **7.85 inches** Hole Condition: **Fair**  
KB to GR/CF: **5.00 ft**

## Serial #: 8365

**Inside**

Press@RunDepth: **97.85 psig @ 3755.01 ft (KB)** Capacity: **7000.00 psig**  
Start Date: **2009.07.05** End Date: **2009.07.05** Last Calib.: **2009.07.05**  
Start Time: **01:09:15** End Time: **09:01:09** Time On Btrm: **2009.07.05 @ 03:03:40**  
Time Off Btrm: **2009.07.05 @ 05:26:39**

TEST COMMENT: IFF-wk to strg in 7 min  
FFP-wk to a gd bl 1" to 9"bl  
Times 30-60-15-30  
ISIP-surface bl bk, FSIP-1/4"bl bk



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1874.57	107.04	Initial Hydro-static
3	25.04	106.02	Open To Flow (1)
33	72.37	111.01	Shut-In (1)
92	1107.86	113.24	End Shut-In (1)
93	79.34	112.86	Open To Flow (2)
107	97.85	113.19	Shut-In (2)
142	1040.33	114.86	End Shut-In (2)
143	1815.03	114.68	Final Hydro-static
149	1758.75	114.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	390'GIP	0.00
186.00	CO	2.61
30.00	MGO 10%G20%M70%O	0.42

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operating Inc

**Tien #28-1**

P O Box 86  
Plainville Ks 67663-0086

**28-6s-23w Graham KS**

Job Ticket: 36444

**DST#: 2**

ATTN: Charles Ramsay

Test Start: 2009.07.05 @ 01:09:15

### Tool Information

Drill Pipe:	Length: 3752.00 ft	Diameter: 3.80 inches	Volume: 52.63 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: 45000.00 lb
			<u>Total Volume: 52.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3754.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	48.02 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			3727.00	
Shut In Tool	5.00			3732.00	
Hydraulic tool	5.00			3737.00	
Jars	5.00			3742.00	
Safety Joint	2.00			3744.00	
Packer	5.00			3749.00	28.00 Bottom Of Top Packer
Packer	5.00			3754.00	
Stubb	1.00			3755.00	
Recorder	0.01	8365	Inside	3755.01	
Recorder	0.01	6625	Outside	3755.02	
Perforations	16.00			3771.02	
Bullnose	3.00			3774.02	20.02 Bottom Packers & Anchor

**Total Tool Length: 48.02**

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TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

H&C Oil Operating Inc

**Tien #28-1**

P O Box 86  
Rainville Ks 67663-0086

**28-6s-23w Graham KS**

Job Ticket: 36444      **DST#: 2**

ATTN: Charles Ramsay

Test Start: 2009.07.05 @ 01:09:15

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	390'GIP	0.000
186.00	CO	2.609
30.00	MGO 10%G20%M70%O	0.421

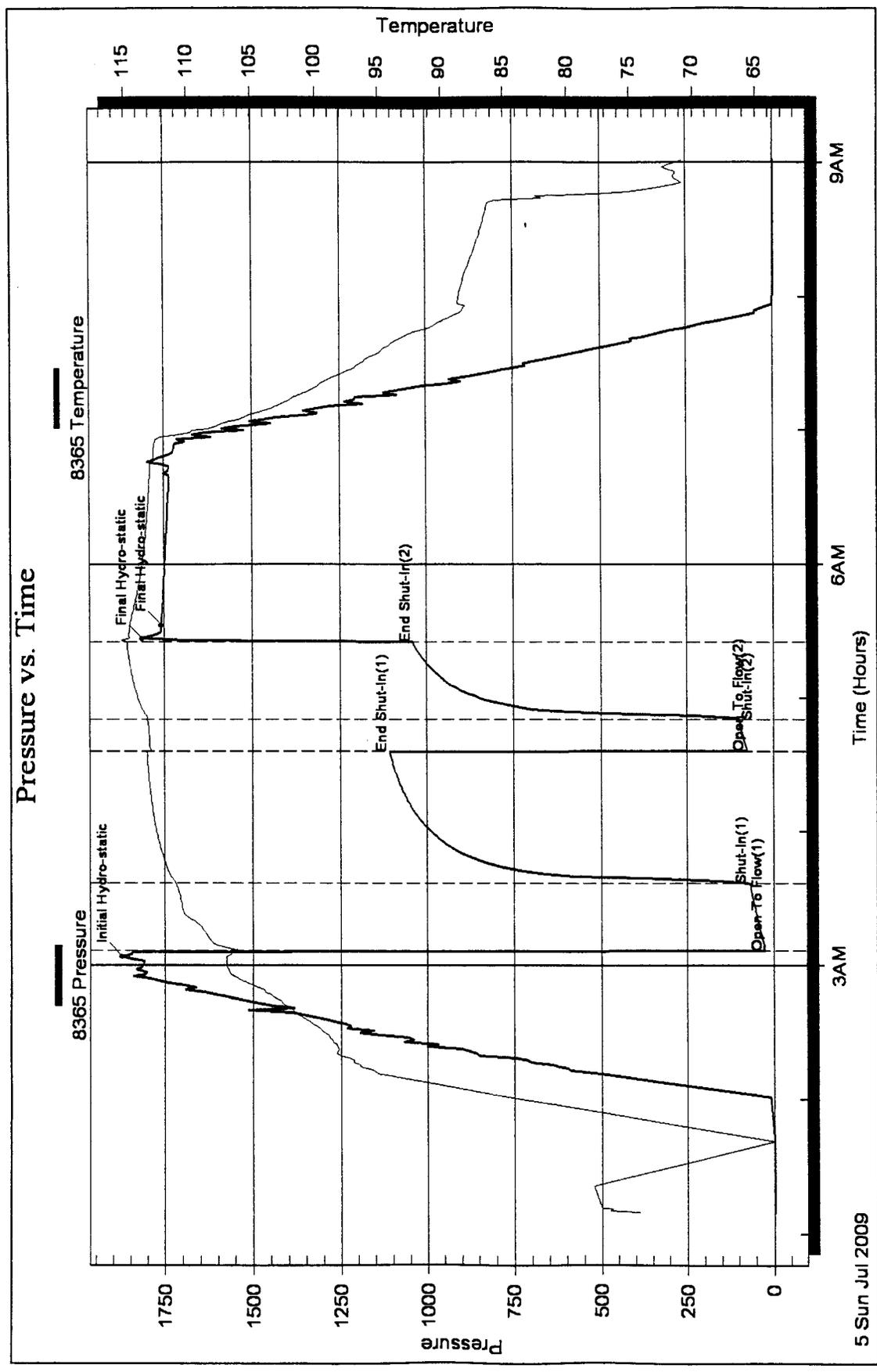
Total Length: 216.00 ft      Total Volume: 3.030 bbl

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

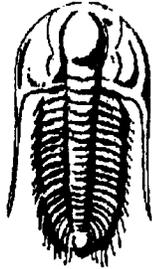
Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time



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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

P O Box 86  
Plainville Ks 67663-0086

ATTN: Charles Ramsay

**28-6s-23w Graham KS**

**Tien #28-1**

Start Date: 2009.07.05 @ 16:06:18

End Date: 2009.07.05 @ 22:39:12

Job Ticket #: 36445                      DST #: 3

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

H&C Oil Operating Inc

**Tien #28-1**

P O Box 86  
Plainville Ks 67663-0086

**28-6s-23w Graham KS**

Job Ticket: 36445

**DST#: 3**

ATTN: Charles Ramsay

Test Start: 2009.07.05 @ 16:06:18

**Tool Information**

Drill Pipe:	Length: 3775.00 ft	Diameter: 3.80 inches	Volume: 52.95 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: 45000.00 lb
		<b>Total Volume:</b>	<b>52.95 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3772.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.02 ft			
Tool Length:	50.02 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			3745.00	
Shut In Tool	5.00			3750.00	
Hydraulic tool	5.00			3755.00	
Jars	5.00			3760.00	
Safety Joint	2.00			3762.00	
Packer	5.00			3767.00	28.00 Bottom Of Top Packer
Packer	5.00			3772.00	
Stubb	1.00			3773.00	
Recorder	0.01	8365	Inside	3773.01	
Recorder	0.01	6625	Outside	3773.02	
Perforations	18.00			3791.02	
Bullnose	3.00			3794.02	22.02 Bottom Packers & Anchor

**Total Tool Length: 50.02**

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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

H&C Oil Operating Inc  
P O Box 86  
Plainville Ks 67663-0086  
ATTN: Charles Ramsay

**Tien #28-1**  
**28-6s-23w Graham KS**  
Job Ticket: 36445      **DST#: 3**  
Test Start: 2009.07.05 @ 16:06:18

**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:	37000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.94 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	CO	0.070
120.00	SOCMW 2%O20%M78%W	1.683

Total Length: 125.00 ft      Total Volume: 1.753 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW .18 @ 78F

Serial #: 8365

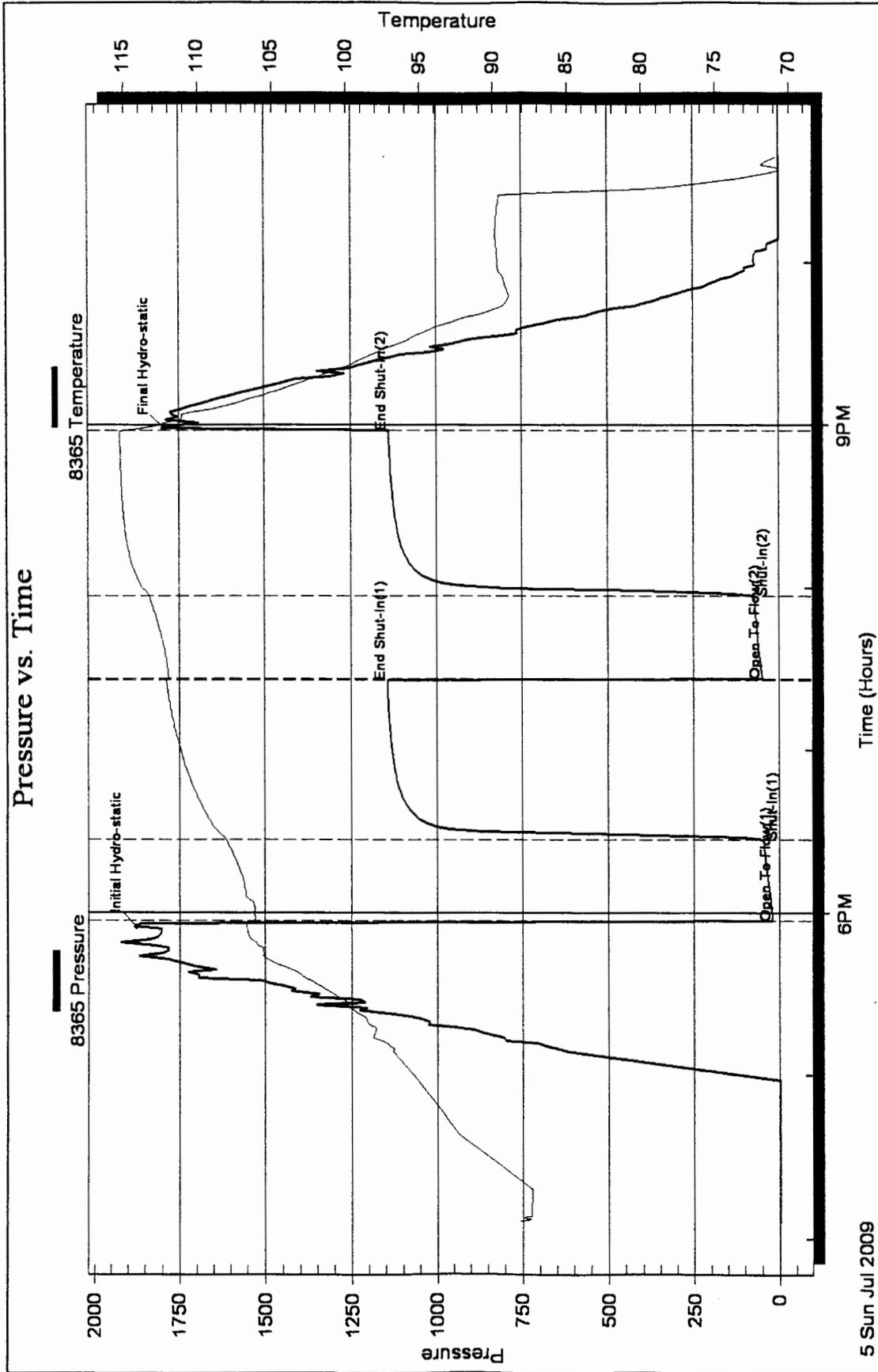
Inside

H&C Oil Operating Inc

28-6s-23w Graham KS

DST Test Number: 3

### Pressure vs. Time



5 Sun Jul 2009

6PM

9PM

Time (Hours)

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Trilobite Testing, Inc

Ref. No: 36445

Printed: 2009.07.08 @ 22:08:01 Page 5



## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

P O Box 86  
Plainville Ks 67663-0086

ATTN: Charles Ramsay

**28-6s-23w Graham KS**

**Tien #28-1**

Start Date: 2009.07.06 @ 17:19:01

End Date: 2009.07.06 @ 23:53:25

Job Ticket #: 36446                      DST #: 4

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

H&C Oil Operating Inc  
P O Box 86  
Plainville Ks 67663-0086  
ATTN: Charles Ramsay

**Tien #28-1**  
**28-6s-23w Graham KS**  
Job Ticket: 36446 **DST#: 4**  
Test Start: 2009.07.06 @ 17:19:01

## GENERAL INFORMATION:

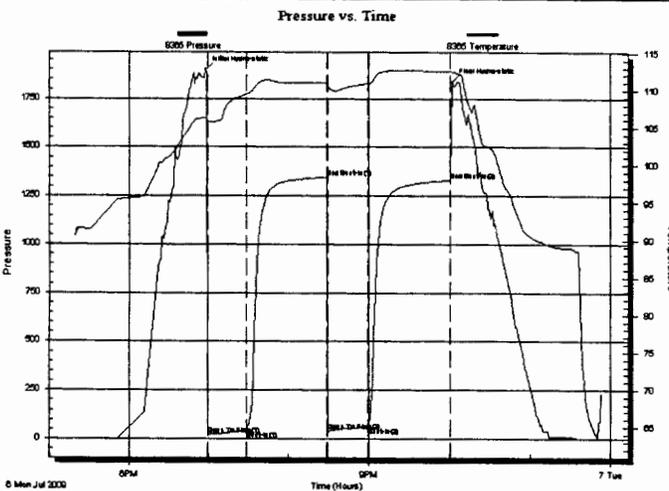
Formation: **LKC H-J**  
Deviated: **No Whipstock:** ft (KB)  
Time Tool Opened: 18:58:56  
Time Test Ended: 23:53:25  
Interval: **3818.00 ft (KB) To 3880.00 ft (KB) (TVD)**  
Total Depth: **3880.00 ft (KB) (TVD)**  
Hole Diameter: **7.85 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Ray Schwager**  
Unit No: **42**  
Reference Elevations: **2458.00 ft (KB)**  
**2453.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

## Serial #: 8365

**Inside**

Press@RunDepth: **60.57 psig @ 3820.01 ft (KB)** Capacity: **7000.00 psig**  
Start Date: **2009.07.06** End Date: **2009.07.06** Last Calib.: **2009.07.07**  
Start Time: **17:19:01** End Time: **23:53:25** Time On Btrr: **2009.07.06 @ 18:57:26**  
Time Off Btrr: **2009.07.06 @ 22:01:25**

TEST COMMENT: IFF-wk to a gd bl 1/2" to 8 1/2" bl  
FFP-wk to strg in 22 min  
Times 30-60-30-60  
no bl on shut-in



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1897.35	106.31	Initial Hydro-static
2	19.27	105.45	Open To Flow (1)
31	40.12	109.44	Shut-In (1)
91	1345.74	111.00	End Shut-In (1)
92	40.07	110.45	Open To Flow (2)
122	60.57	110.89	Shut-In (2)
183	1330.25	112.58	End Shut-In (2)
184	1835.75	112.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	GIP	4.35
110.00	HO&GCM 10%G40%O50%M	1.54

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

H&C Oil Operating Inc

**Tien #28-1**

P O Box 86  
Plainville Ks 67663-0086

**28-6s-23w Graham KS**

Job Ticket: 36446

**DST#: 4**

ATTN: Charles Ramsay

Test Start: 2009.07.06 @ 17:19:01

**Tool Information**

Drill Pipe:	Length: 3816.00 ft	Diameter: 3.80 inches	Volume: 53.53 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: 45000.00 lb
		<b>Total Volume:</b>	<b>53.53 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3818.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.02 ft			
Tool Length:	90.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3791.00	
Shut In Tool	5.00			3796.00	
Hydraulic tool	5.00			3801.00	
Jars	5.00			3806.00	
Safety Joint	2.00			3808.00	
Packer	5.00			3813.00	28.00 Bottom Of Top Packer
Packer	5.00			3818.00	
Stubb	1.00			3819.00	
Perforations	1.00			3820.00	
Recorder	0.01	8365	Inside	3820.01	
Recorder	0.01	6625	Outside	3820.02	
Blank Spacing	33.00			3853.02	
Perforations	24.00			3877.02	
Bullnose	3.00			3880.02	62.02 Bottom Packers & Anchor

**Total Tool Length: 90.02**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

H&C Oil Operating Inc  
P O Box 86  
Plainville Ks 67663-0086  
ATTN: Charles Ramsay

**Tien #28-1**  
**28-6s-23w Graham KS**  
Job Ticket: 36446      **DST#: 4**  
Test Start: 2009.07.06 @ 17:19:01

**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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: 2.00 inches			

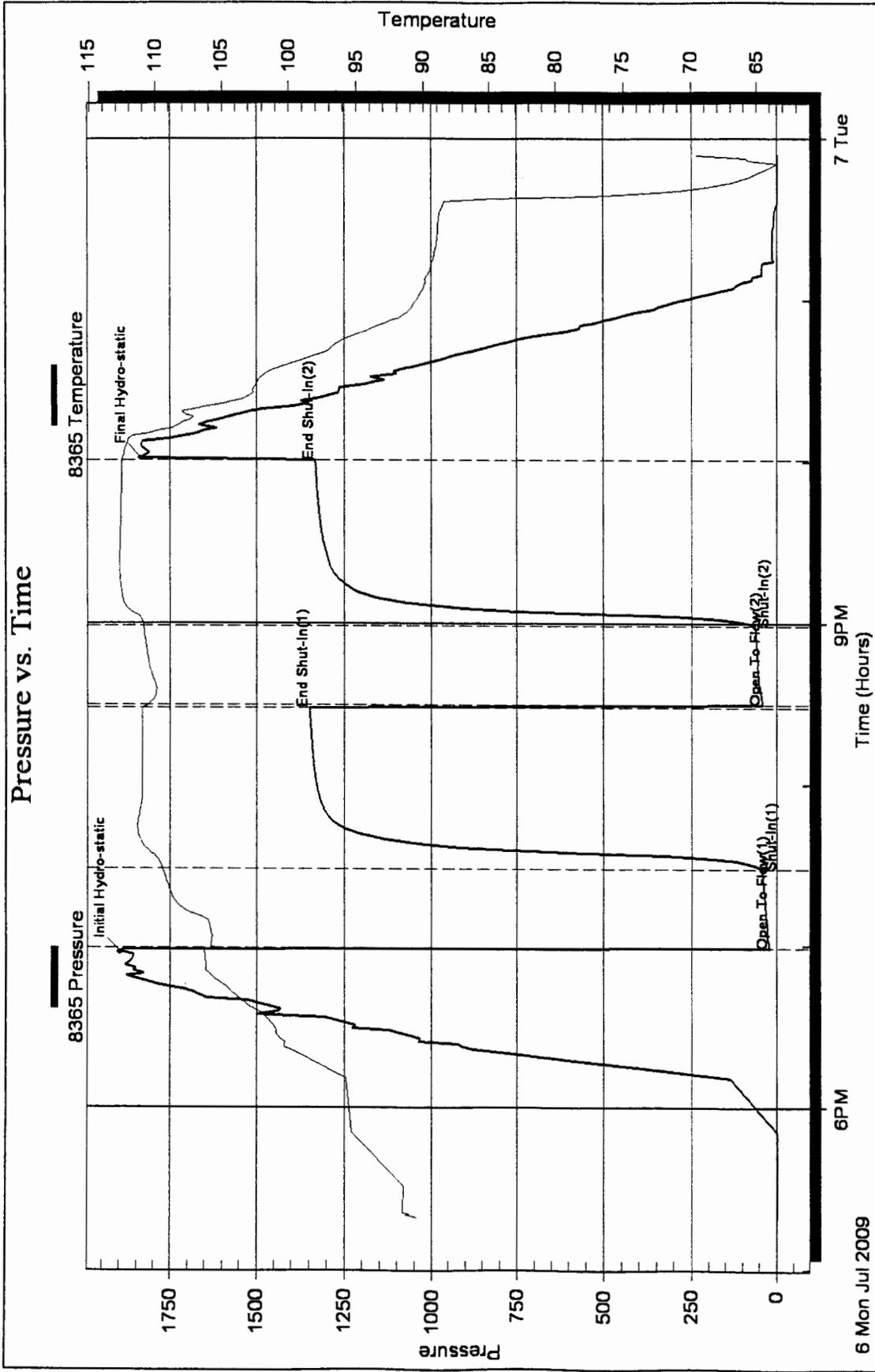
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
310.00	GIP	4.348
110.00	HO&GCM 10%G40%O50%M	1.543

Total Length: 420.00 ft      Total Volume: 5.891 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time



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