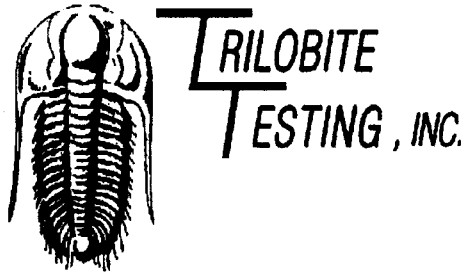


15-179-21188



## DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21st Street N  
Wichita KS 67205

ATTN: Steve Miller

**33 8 26W Sheridan KS**

**Harry Pratt #33-1**

Start Date: 2008.03.23 @ 21:40:11

End Date: 2008.03.24 @ 03:18:41

Job Ticket #: 31560                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

IA Operating Inc

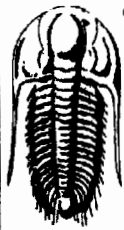
Harry Pratt #33-1

33 8 26W Sheridan KS

DST # 1

LKC "B & C"

2008.03.23



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

IA Operating Inc  
 9915 W 21st Street N  
 Wichita KS 67205  
 ATTN: Steve Miller

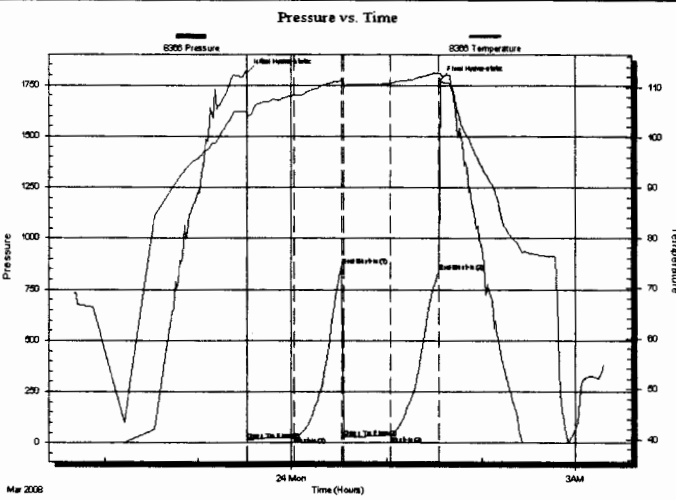
**Harry Pratt #33-1**  
**33 8 26W Sheridan KS**  
 Job Ticket: 31560      **DST#: 1**  
 Test Start: 2008.03.23 @ 21:40:11

**GENERAL INFORMATION:**

Formation: **LKC "B & C"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 23:32:11 Tester: James Winder  
 Time Test Ended: 03:18:41 Unit No: 36  
 Interval: **3774.00 ft (KB) To 3827.00 ft (KB) (TVD)** Reference Elevations: 2598.00 ft (KB)  
 Total Depth: 3827.00 ft (KB) (TVD) 2593.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8366 Inside**  
 Press@RunDepth: 37.09 psig @ 3775.00 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2008.03.23 End Date: 2008.03.24 Last Calib.: 2008.03.24  
 Start Time: 21:40:16 End Time: 03:18:40 Time On Btm: 2008.03.23 @ 23:31:41  
 Time Off Btm: 2008.03.24 @ 01:33:41

**TEST COMMENT:** IF Fairly weak blow built to 5"  
 ISI Bled off No blow back  
 FF Fair blow built to 6 1/4"  
 FSI Bled off No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1810.59	104.81	Initial Hydro-static
1	13.25	103.78	Open To Flow (1)
30	28.43	108.32	Shut-in(1)
60	864.79	111.22	End Shut-in(1)
61	25.91	110.54	Open To Flow (2)
91	37.09	110.71	Shut-in(2)
121	836.68	112.81	End Shut-in(2)
122	1778.69	112.79	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
10.00	SGOCM 66%M 28%O 6%G	0.05
50.00	McO 78%O 22%M	0.54

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

IA Operating Inc  
9915 W 21st Street N  
Wichita KS 67205  
ATTN: Steve Miller

**Harry Pratt #33-1**  
**33 8 26W Sheridan KS**  
Job Ticket: 31560      **DST#: 1**  
Test Start: 2008.03.23 @ 21:40:11

**Tool Information**

Drill Pipe:	Length: 3734.00 ft	Diameter: 3.80 inches	Volume: 52.38 bbl	Tool Weight: 2600.00 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: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 52.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3774.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3759.00	
Hydraulic tool	5.00			3764.00	
Packer	5.00			3769.00	20.00      Bottom Of Top Packer
Packer	5.00			3774.00	
Stubb	1.00			3775.00	
Recorder	0.00	8366	Inside	3775.00	
Recorder	0.00	6672	Inside	3775.00	
Perforations	15.00			3790.00	
Change Over Sub	1.00			3791.00	
Drill Pipe	31.00			3822.00	
Change Over Sub	1.00			3823.00	
Perforations	1.00			3824.00	
Bullnose	3.00			3827.00	53.00      Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating Inc

Harry Pratt #33-1

9915 W 21st Street N  
Wichita KS 67205

33 8 26W Sheridan KS

Job Ticket: 31560

DST#: 1

ATTN: Steve Miller

Test Start: 2008.03.23 @ 21:40:11

### 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	SGOCM 66%M 28%O 6%G	0.049
50.00	McO 78%O 22%M	0.537

Total Length: 60.00 ft

Total Volume: 0.586 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

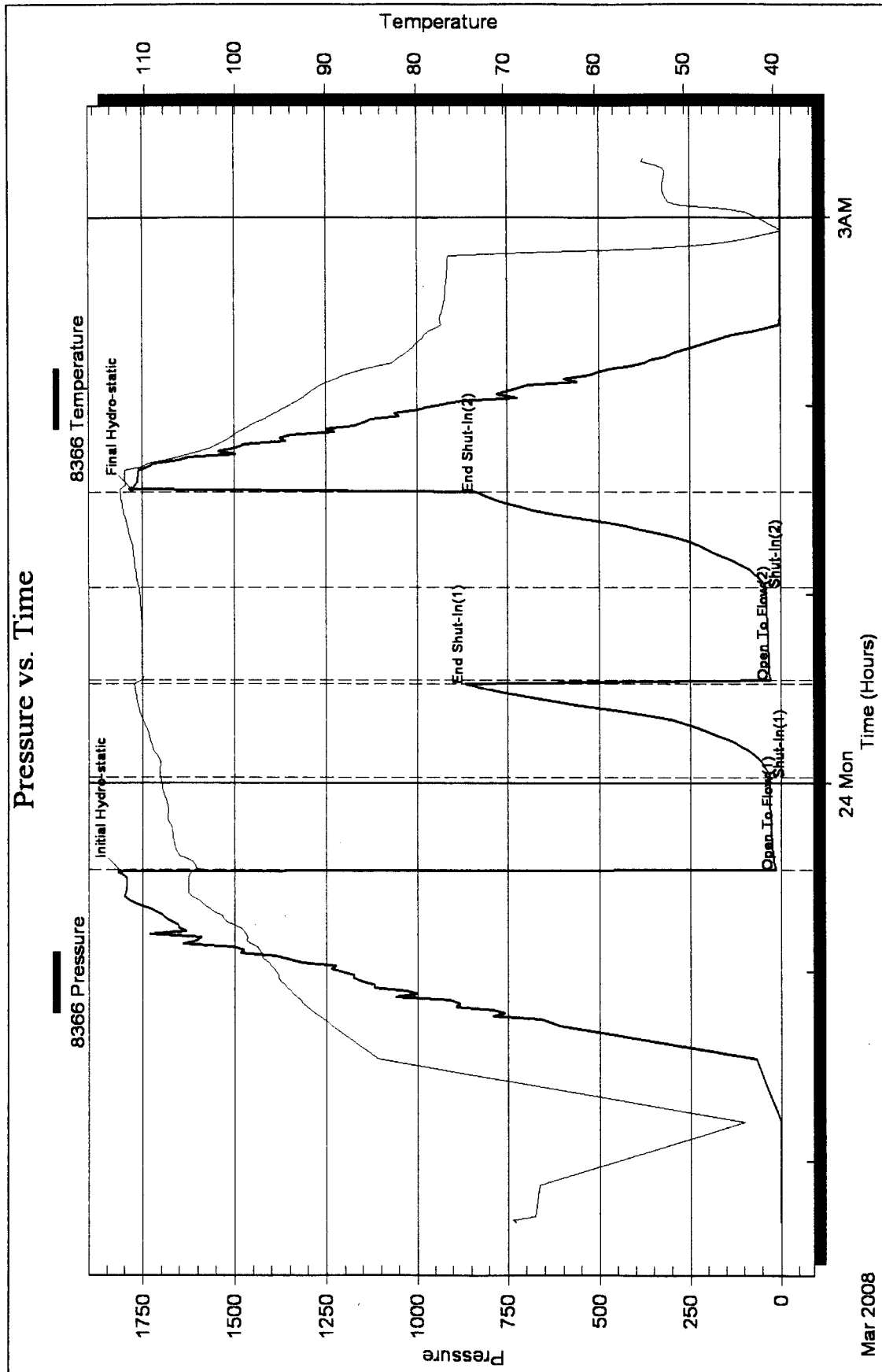
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

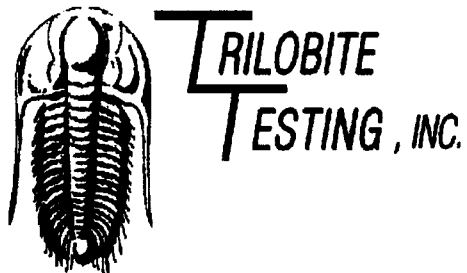
### Pressure vs. Time



3AM

24 Mon Time (Hours)

Mar 2008



## DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21st Street N  
Wichita KS 67205

ATTN: Steve Miller

**33 8 26W Sheridan KS**

**Harry Pratt #33-1**

Start Date: 2008.03.24 @ 12:33:02

End Date: 2008.03.24 @ 19:36:32

Job Ticket #: 31561                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

IA Operating Inc

Harry Pratt #33-1

33 8 26W Sheridan KS

DST # 2

LKC "H"

2008.03.24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

IA Operating Inc  
9915 W 21st Street N  
Wichita KS 67205  
ATTN: Steve Miller

**Harry Pratt #33-1**  
**33 8 26W Sheridan KS**  
Job Ticket: 31561      **DST#: 2**  
Test Start: 2008.03.24 @ 12:33:02

## GENERAL INFORMATION:

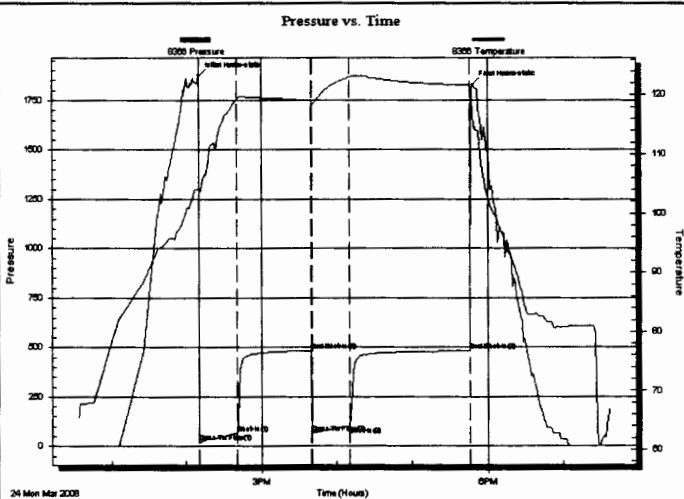
Formation: **LKC "H"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:10:32  
Time Test Ended: 19:36:32  
Interval: **3873.00 ft (KB) To 3902.00 ft (KB) (TVD)**  
Total Depth: 3902.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: James Winder  
Unit No: 36  
Reference Elevations: 2598.00 ft (KB)  
2593.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 8366

Inside

Press@RunDepth: 101.17 psig @ 3874.00 ft (KB) Capacity: 7000.00 psig  
Start Date: 2008.03.24 End Date: 2008.03.24 Last Calib.: 2008.03.24  
Start Time: 12:33:07 End Time: 19:36:31 Time On Btm: 2008.03.24 @ 14:10:02  
Time Off Btm: 2008.03.24 @ 17:48:02

**TEST COMMENT:** IF Strong blow BOB 11 1/2 " in 10 min.  
ISI Bled off Fair blow back built to 4 1/2 "  
FF Strong blow BOB in 10 min.  
FSI Bled off Fair blow back built to 5 1/2 "



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1872.18	104.19	Initial Hydro-static
1	19.23	103.49	Open To Flow (1)
31	64.20	119.16	Shut-In(1)
90	482.60	119.05	End Shut-In(1)
91	67.52	118.50	Open To Flow (2)
121	101.17	122.97	Shut-In(2)
216	481.20	121.63	End Shut-In(2)
218	1827.07	116.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOMCW 82%W 13%M 5%O	0.59
31.00	GOCWM 42%M 36%W 12%G 10%O	0.43
31.00	SGWCOM 42%M 41%O 12%W 5%G	0.43
92.00	Clean Gassy Oil 69%O 31%G	1.29
0.00	530 GIP	0.00
0.00	Gravity = 38 API @ 58 deg F = 38.2 Corr. 0.00	

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

IA Operating Inc  
9915 W 21st Street N  
Wichita KS 67205  
  
ATTN: Steve Miller

**Harry Pratt #33-1**  
**33 8 26W Sheridan KS**  
Job Ticket: 31561      DST#: 2  
Test Start: 2008.03.24 @ 12:33:02

**Tool Information**

Drill Pipe:	Length: 3858.00 ft	Diameter: 3.80 inches	Volume: 54.12 bbl	Tool Weight: 2500.00 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: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 56000.00 lb
		Total Volume: 54.26 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3873.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3858.00	
Hydraulic tool	5.00			3863.00	
Packer	5.00			3868.00	20.00      Bottom Of Top Packer
Packer	5.00			3873.00	
Stubb	1.00			3874.00	
Recorder	0.00	8366	inside	3874.00	
Recorder	0.00	6672	inside	3874.00	
Perforations	25.00			3899.00	
Bullnose	3.00			3902.00	29.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>49.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

IA Operating Inc

**Harry Pratt #33-1**

9915 W 21st Street N  
Wichita KS 67205

**33 8 26W Sheridan KS**

Job Ticket: 31561

**DST#: 2**

ATTN: Steve Miller

Test Start: 2008.03.24 @ 12:33:02

**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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	SOMCW 82%W 13%M 5%O	0.587
31.00	GOCWM 42%M 36%W 12%G 10%O	0.435
31.00	SGWCOM 42%M 41%O 12%W 5%G	0.435
92.00	Clean Gassy Oil 69%O 31%G	1.291
0.00	530 GIP	0.000
0.00	Gravity = 38 API @ 58 deg F = 38.2 Corr.	0.000
0.00	RW= .189 @ 64.3 deg F = 43000 ppm	0.000

Total Length: 214.00 ft

Total Volume: 2.748 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

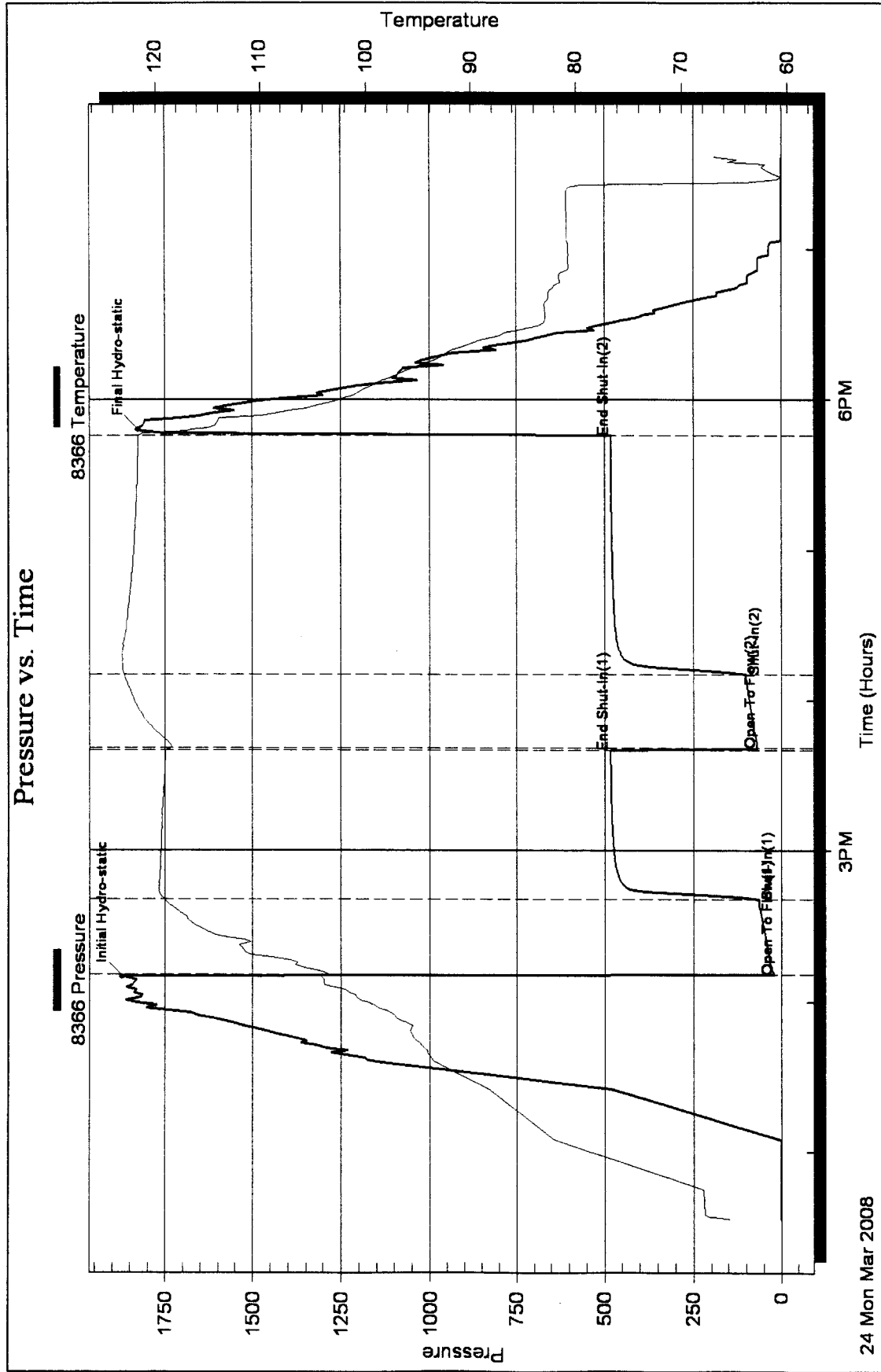
Inside

IA Operating Inc

33 8 26W Sheridan KS

DST Test Number: 2

### Pressure vs. Time

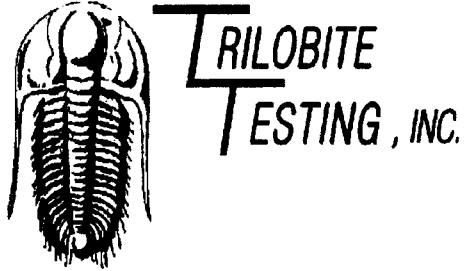


24 Mon Mar 2008

3PM

6PM

Time (Hours)



## DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21st Street N  
Wichita KS 67205

ATTN: Steve Miller

**33 8 26W Sheridan KS**

**Harry Pratt #33-1**

Start Date: 2008.03.25 @ 03:24:12

End Date: 2008.03.25 @ 10:31:42

Job Ticket #: 31562                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

IA Operating Inc

Harry Pratt #33-1

33 8 26W Sheridan KS

DST # 3

LKC "J"

2008.03.25



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

IA Operating Inc  
 9915 W 21st Street N  
 Wichita KS 67205  
 ATTN: Steve Miller

**Harry Pratt #33-1**  
**33 8 26W Sheridan KS**  
 Job Ticket: 31562      **DST#: 3**  
 Test Start: 2008.03.25 @ 03:24:12

## GENERAL INFORMATION:

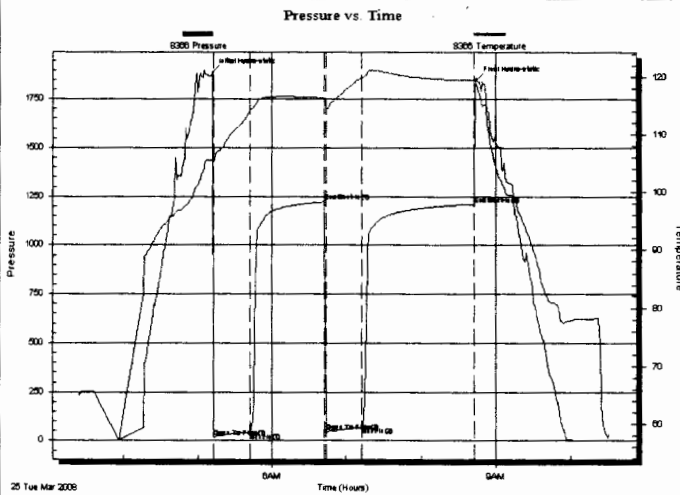
Formation: **LKC "J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:12:42  
 Time Test Ended: 10:31:42  
 Test Type: Conventional Bottom Hole  
 Tester: James Winder  
 Unit No: 36  
 Interval: **3907.00 ft (KB) To 3935.00 ft (KB) (TVD)**  
 Reference Elevations: 2598.00 ft (KB)  
 Total Depth: 3935.00 ft (KB) (TVD) 2593.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

## Serial #: 8366

Inside

Press@RunDepth: 68.63 psig @ 3908.00 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2008.03.25 End Date: 2008.03.25 Last Calib.: 2008.03.25  
 Start Time: 03:24:17 End Time: 10:31:41 Time On Btm: 2008.03.25 @ 05:12:12  
 Time Off Btm: 2008.03.25 @ 08:44:42

TEST COMMENT: IF Strong blow BOB in 13 min.  
 ISI Bled off Weak blow back built to 1 1/4 "  
 FF Strong blow BOB in 11 min.  
 FSI Bled off Fair blow back built to 4"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.97	105.75	Initial Hydro-static
1	17.25	105.25	Open To Flow (1)
30	43.45	114.15	Shut-In(1)
91	1222.03	116.37	End Shut-In(1)
92	44.99	114.60	Open To Flow (2)
121	68.63	119.82	Shut-In(2)
211	1211.67	119.46	End Shut-In(2)
213	1851.29	118.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
28.00	GOM 47%M 31%O 22%G	0.14
32.00	SGOM 55%M 40%O 5%G	0.45
95.00	Clean Gassy Oil 70%O 30%G	1.33
0.00	310 GIP	0.00
0.00	Gravity=34 API @ 56 deg F=34.4 correct	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

IA Operating Inc

**Harry Pratt #33-1**

9915 W 21st Street N  
Wichita KS 67205

**33 8 26W Sheridan KS**

Job Ticket: 31562

**DST#: 3**

ATTN: Steve Miller

Test Start: 2008.03.25 @ 03:24:12

### Tool Information

Drill Pipe:	Length: 3887.00 ft	Diameter: 3.80 inches	Volume: 54.52 bbl	Tool Weight: 2500.00 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: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 52000.00 lb
		Total Volume: 54.66 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3907.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3892.00	
Hydraulic tool	5.00			3897.00	
Packer	5.00			3902.00	20.00 Bottom Of Top Packer
Packer	5.00			3907.00	
Stubb	1.00			3908.00	
Recorder	0.00	8366	Inside	3908.00	
Recorder	0.00	6672	Inside	3908.00	
Perforations	24.00			3932.00	
Bullnose	3.00			3935.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

IA Operating Inc  
9915 W 21st Street N  
Wichita KS 67205  
ATTN: Steve Miller

**Harry Pratt #33-1**  
**33 8 26W Sheridan KS**  
Job Ticket: 31562      **DST#: 3**  
Test Start: 2008.03.25 @ 03:24:12

**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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
28.00	GOM 47%M 31%O 22%G	0.138
32.00	SGOM 55%M 40%O 5%G	0.449
95.00	Clean Gassy Oil 70%O 30%G	1.333
0.00	310 GIP	0.000
0.00	Gravity=34 API @ 56 deg F=34.4 corrected	0.000

Total Length: 155.00 ft      Total Volume: 1.920 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

# Pressure vs. Time

