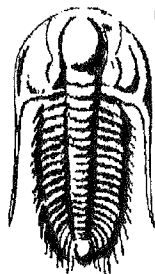


15-159-22584

5-19s-10w

IND



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1650 Broadway
Suite 2100
Denver, Co 80202

ATTN: John Rakowski

5 19 10 Rice KS

Orth 3-5

Start Date: 2008.10.05 @ 15:45:28

End Date: 2008.10.05 @ 22:41:52

Job Ticket #: 33132

DST #: 1

KCC
JAN 16 2009
CONFIDENTIAL

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

Sam Gary

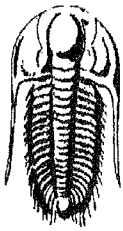
Orth 3-5

5 19 10 Rice KS

DST # 1

LKC "A-C"

2008.10.05



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

Orth 3-5

5 19 10 Rice KS

Job Ticket: 33132

DST#: 1

Test Start: 2008.10.05 @ 15:45:28

GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:51:23

Time Test Ended: 22:41:52

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **2976.00 ft (KB) To 3032.00 ft (KB) (TVD)**

Total Depth: 3032.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1756.00 ft (KB)

1747.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8371 Outside

Press@RunDepth: 21.38 psig @ 2982.00 ft (KB)

Start Date: 2008.10.05

End Date:

2008.10.05

Start Time: 15:45:28

End Time:

22:41:52

Capacity: 7000.00 psig

Last Calib.: 2008.10.05

Time On Btm: 2008.10.05 @ 17:49:53

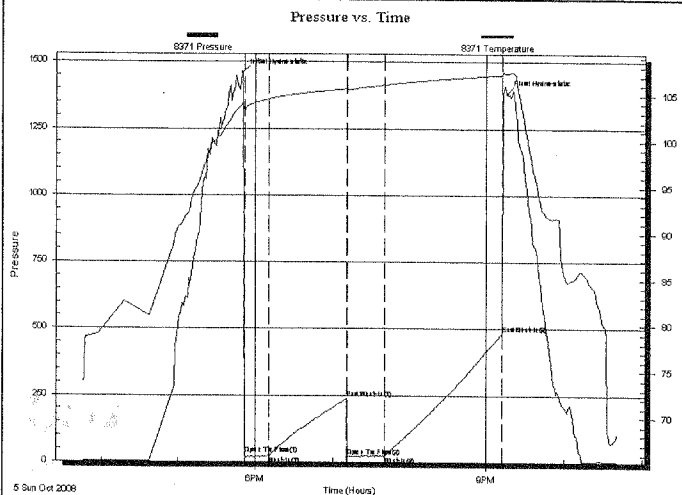
Time Off Btm: 2008.10.05 @ 21:15:22

TEST COMMENT: IFP - weak to good blow 1/2" - 8

ISI - no blow back

FFP - BOB 9 min.

FSI - no blow back



PRESSURE SUMMARY

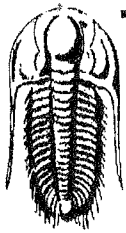
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1457.58	104.01	Initial Hydro-static
2	30.06	103.07	Open To Flow (1)
20	20.10	104.56	Shut-In(1)
81	237.92	105.67	End Shut-In(1)
81	21.61	105.52	Open To Flow (2)
110	21.38	106.09	Shut-In(2)
202	482.84	107.21	End Shut-In(2)
206	1381.52	107.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%	0.42
0.00	60' gip	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary

Orth 3-5

1650 Broadway

5 19 10 Rice KS

Suite 2100

Job Ticket: 33132

DST#: 1

Denver, Co 80202

Test Start: 2008.10.05 @ 15:45:28

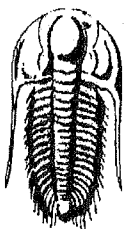
ATTN: John Rakowski

Tool Information

Drill Pipe:	Length: 2961.00 ft	Diameter: 3.80 inches	Volume: 41.54 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume:	41.54 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	2976.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 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			2954.00	
Hydraulic tool	5.00			2959.00	
Jars	5.00			2964.00	
Safety Joint	2.00			2966.00	
Packer	5.00			2971.00	27.00 Bottom Of Top Packer
Packer	5.00			2976.00	
Stubb	1.00			2977.00	
Perforations	4.00			2981.00	
Change Over Sub	1.00			2982.00	
Recorder	0.00	8018	Inside	2982.00	
Recorder	0.00	8371	Outside	2982.00	
Blank Spacing	31.00			3013.00	
Change Over Sub	1.00			3014.00	
Perforations	15.00			3029.00	
Bullnose	3.00			3032.00	56.00 Bottom Packers & Anchor

Total Tool Length: 83.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary

Orth 3-5

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

5 19 10 Rice KS

Job Ticket: 33132

DST#: 1

Test Start: 2008.10.05 @ 15:45:28

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 9.12 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100%	0.421
0.00	60' gip	0.000

Total Length: 30.00 ft

Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

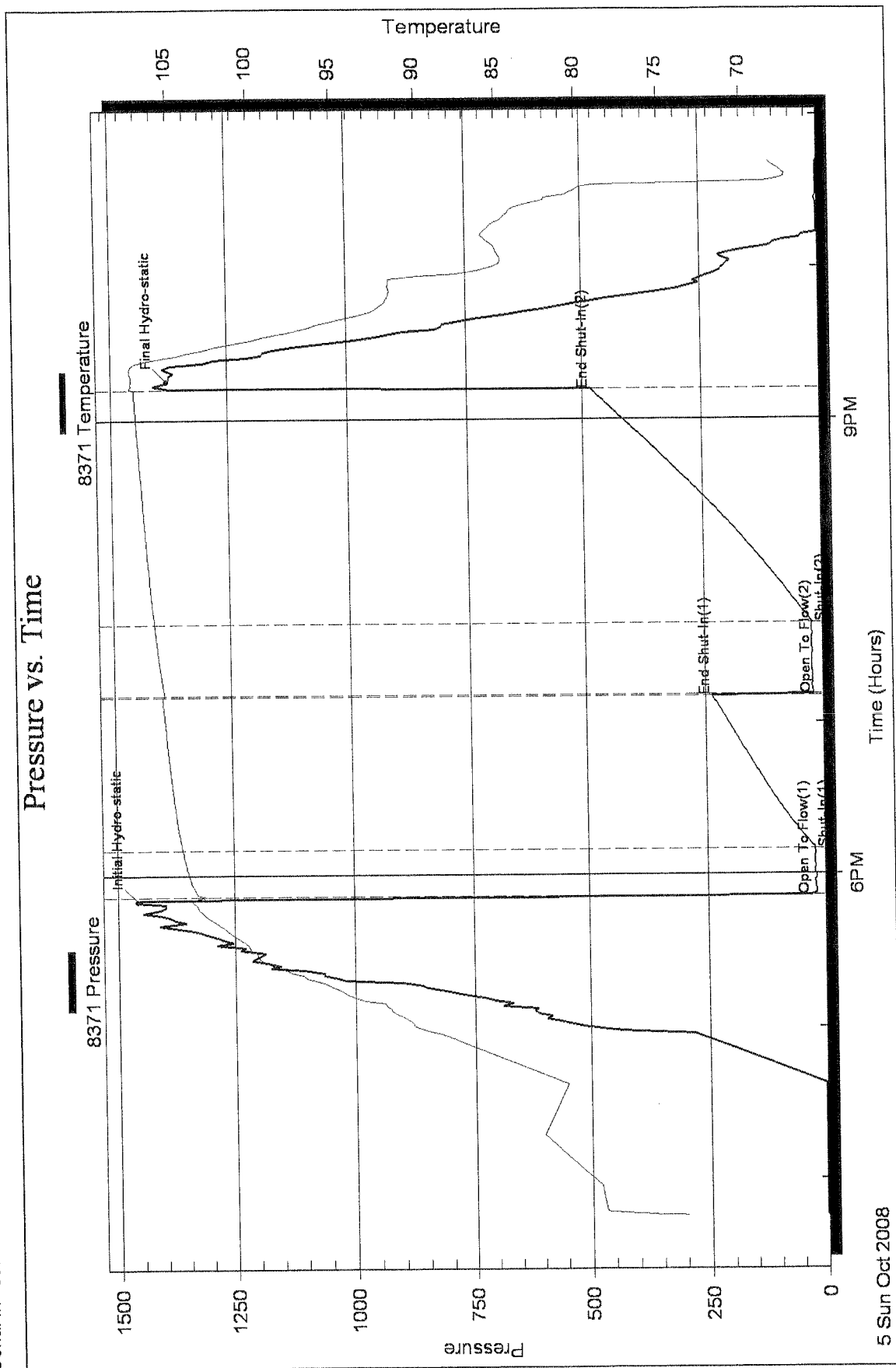
DST Test Number: 1

5 19 10 Rice KS

Outside Sam Gary

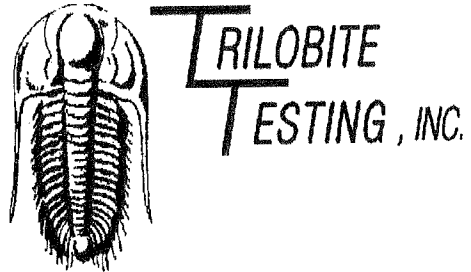
Serial #: 8371

Pressure vs. Time



Ref. No: 33132

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1650 Broadway
Suite 2100
Denver, Co 80202

ATTN: John Rakowski

5 19 10 Rice KS

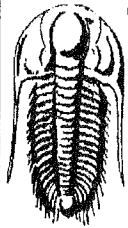
Orth 3-5

Start Date: 2008.10.06 @ 07:24:22

End Date: 2008.10.06 @ 13:13:46

Job Ticket #: 33133 DST #: 2

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

Orth 3-5

5 19 10 Rice KS

Job Ticket: 33133

DST#: 2

Test Start: 2008.10.06 @ 07:24:22

GENERAL INFORMATION:

Formation: **LKC "D-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:26:47

Time Test Ended: 13:13:46

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3038.00 ft (KB) To 3075.00 ft (KB) (TVD)**

Total Depth: 3075.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1756.00 ft (KB)

1747.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **8371** Outside

Press@RunDepth: 78.78 psig @ 3047.00 ft (KB)

Start Date: 2008.10.06

End Date: 2008.10.06

Start Time: 07:24:22

End Time: 13:13:46

Capacity: 7000.00 psig

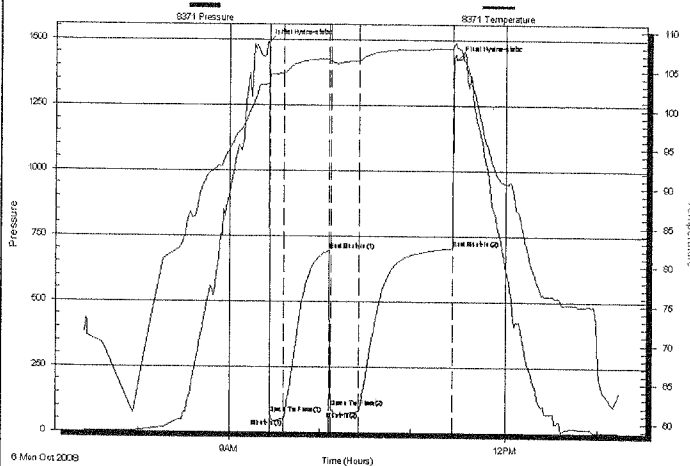
Last Calib.: 2008.10.06

Time On Btm: 2008.10.06 @ 09:25:17

Time Off Btm: 2008.10.06 @ 11:29:17

TEST COMMENT: IFP - BOB 30 sec.
ISI - no blow back
FFP - BOB open GTS 4 min.
FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

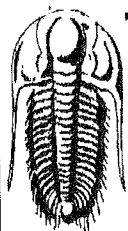
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1486.02	103.33	Initial Hydro-static
2	69.67	104.05	Open To Flow (1)
11	50.20	104.68	Shut-In (1)
41	694.33	106.51	End Shut-In (1)
42	93.43	106.26	Open To Flow (2)
61	78.78	106.30	Shut-In (2)
121	703.92	107.82	End Shut-In (2)
124	1425.07	108.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GOCM 70%G, 10%O, 20%M	1.26
65.00	SOCGM 40%G, 10%O, 50%M	0.91
0.00	GTS 14 MIN.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.25	3.00	27.60



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary

Orth 3-5

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

5 19 10 Rice KS

Job Ticket: 33133

DST#: 2

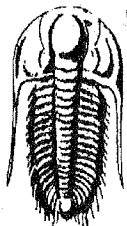
Test Start: 2008.10.06 @ 07:24:22

Tool Information

Drill Pipe:	Length: 3024.00 ft	Diameter: 3.80 inches	Volume: 42.42 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb	
			Total Volume:	42.42 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	36000.00 lb	
Depth to Top Packer:	3038.00 ft			Final	37000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	37.00 ft					
Tool Length:	64.00 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			3016.00	
Hydraulic tool	5.00			3021.00	
Jars	5.00			3026.00	
Safety Joint	2.00			3028.00	
Packer	5.00			3033.00	27.00 Bottom Of Top Packer
Packer	5.00			3038.00	
Stubb	1.00			3039.00	
Perforations	8.00			3047.00	
Recorder	0.00	8018	Inside	3047.00	
Recorder	0.00	8371	Outside	3047.00	
Perforations	25.00			3072.00	
Bullnose	3.00			3075.00	37.00 Bottom Packers & Anchor

Total Tool Length: 64.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary

Orth 3-5

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

5 19 10 Rice KS

Job Ticket: 33133

DST#: 2

Test Start: 2008.10.06 @ 07:24:22

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 9.10 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 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
90.00	GOCM 70%G, 10%O, 20%M	1.262
65.00	SOCGM 40%G, 10%O, 50%M	0.912
0.00	GTS 14 MIN.	0.000

Total Length: 155.00 ft

Total Volume: 2.174 bbl

Num Fluid Samples: 0

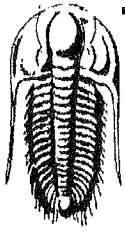
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Sam Gary

Orth 3-5

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

5 19 10 Rice KS

Job Ticket: 33133

DST#: 2

Test Start: 2008.10.06 @ 07:24:22

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	3.00	27.60
2	10	0.25	3.00	27.60

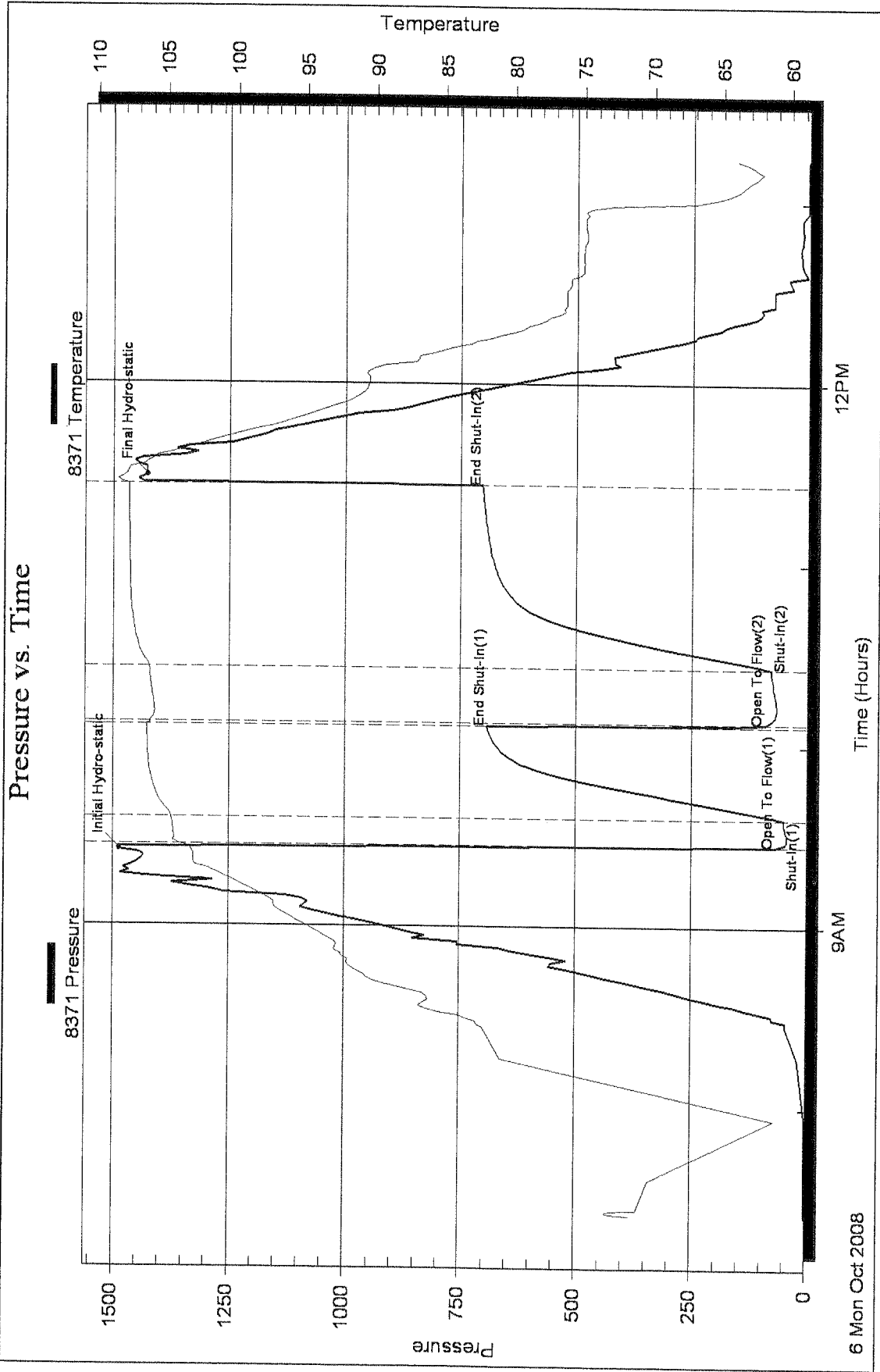
Serial #: 8371

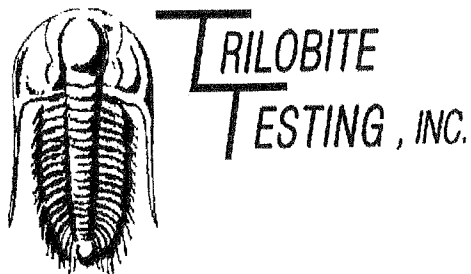
Outside Sam Gary

5 19 10 Rice KS

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1650 Broadway
Suite 2100
Denver, Co 80202

ATTN: John Rakowski

5 19 10 Rice KS

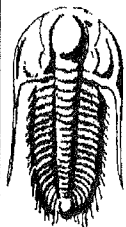
Orth 3-5

Start Date: 2008.10.07 @ 01:10:51

End Date: 2008.10.07 @ 07:52:15

Job Ticket #: 33134 DST #: 3

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

Orth 3-5

5 19 10 Rice KS

Job Ticket: 33134

DST#: 3

Test Start: 2008.10.07 @ 01:10:51

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:47:16

Time Test Ended: 07:52:15

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3154.00 ft (KB) To 3180.00 ft (KB) (TVD)**

Total Depth: 3180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1756.00 ft (KB)

1747.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **8371**

Outside

Press@RunDepth: 27.65 psig @ 3157.00 ft (KB)

Start Date: 2008.10.07

End Date:

2008.10.07

Capacity: 7000.00 psig

Last Calib.: 2008.10.07

Start Time: 01:10:51

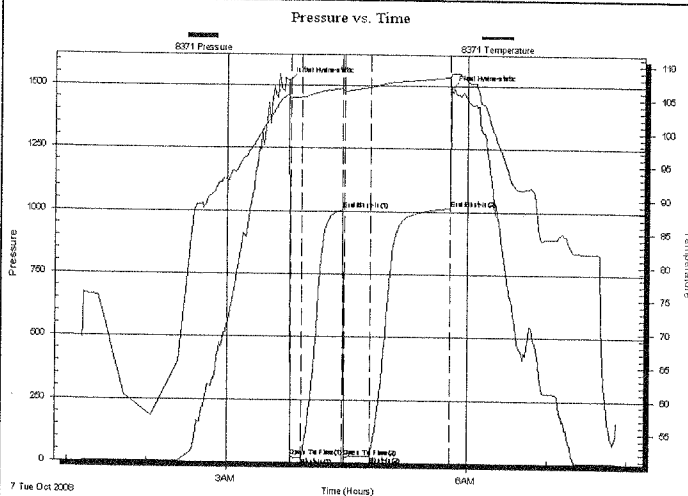
End Time:

07:52:15

Time On Btm: 2008.10.07 @ 03:46:16

Time Off Btm: 2008.10.07 @ 05:48:15

TEST COMMENT: IFP - BOB 5 min.
ISI - no blow back
FFP - BOB open - GTS 1 min.
FSI - no blow back



PRESSURE SUMMARY

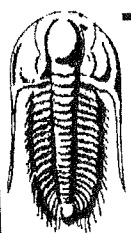
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1517.88	105.57	Initial Hydro-static
1	22.02	105.04	Open To Flow (1)
10	19.82	105.19	Shut-In (1)
41	1006.85	106.52	End Shut-In (1)
42	23.43	106.09	Open To Flow (2)
61	27.65	106.69	Shut-In (2)
121	1014.43	108.30	End Shut-In (2)
122	1489.80	108.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GHOOM 20%G, 30%O, 50%M	0.63

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.50	25.22
Last Gas Rate	0.25	1.50	25.22
Max. Gas Rate	0.25	1.50	25.22



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary

Orth 3-5

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

5 19 10 Rice KS

Job Ticket: 33134

DST#: 3

Test Start: 2008.10.07 @ 01:10:51

Tool Information

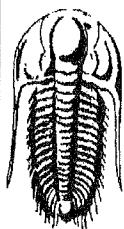
Drill Pipe: Length: 3149.00 ft Diameter: 3.80 inches Volume: 44.17 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Total Volume: 44.17 bbl

Tool Weight: 2500.00 lb
Weight set on Packer: 25000.00 lb
Weight to Pull Loose: 45000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 38000.00 lb
Final 38000.00 lb

Drill Pipe Above KB: 22.00 ft
Depth to Top Packer: 3154.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 26.00 ft
Tool Length: 53.00 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			3132.00	
Hydraulic tool	5.00			3137.00	
Jars	5.00			3142.00	
Safety Joint	2.00			3144.00	
Packer	5.00			3149.00	27.00 Bottom Of Top Packer
Packer	5.00			3154.00	
Stubb	1.00			3155.00	
Perforations	2.00			3157.00	
Recorder	0.00	8018	Inside	3157.00	
Recorder	0.00	8371	Outside	3157.00	
Perforations	20.00			3177.00	
Bullnose	3.00			3180.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary

Orth 3-5

1650 Broadway

5 19 10 Rice KS

Suite 2100

Job Ticket: 33134

DST#: 3

Denver, Co 80202

Test Start: 2008.10.07 @ 01:10:51

ATTN: John Rakowski

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: 42.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GHOCM 20%G, 30%O, 50%M	0.631

Total Length: 45.00 ft

Total Volume: 0.631 bbl

Num Fluid Samples: 0

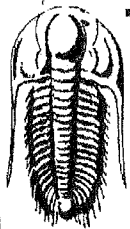
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Sam Gary

Orth 3-5

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

5 19 10 Rice KS

Job Ticket: 33134

DST#: 3

Test Start: 2008.10.07 @ 01:10:51

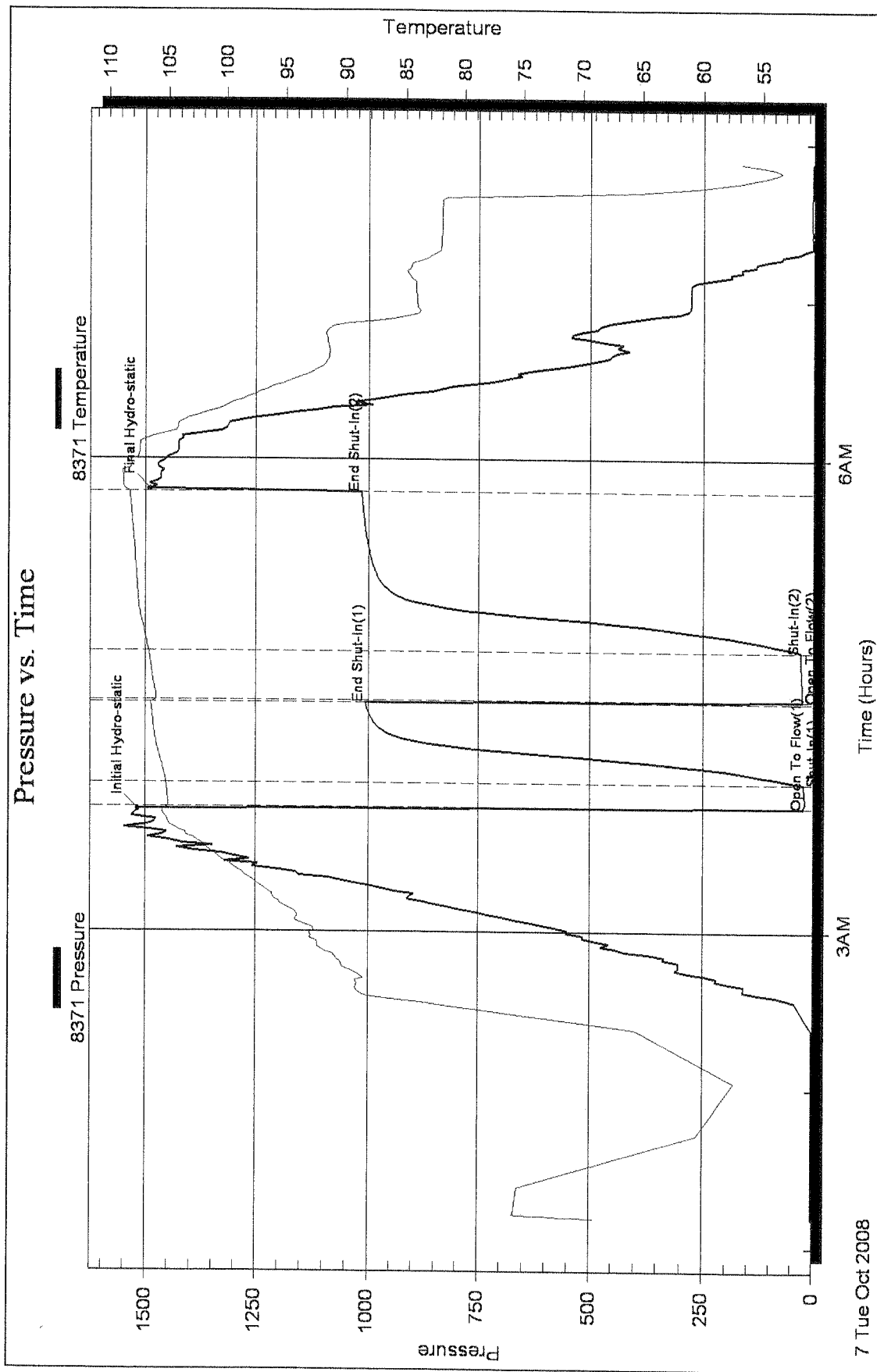
Gas Rates Information

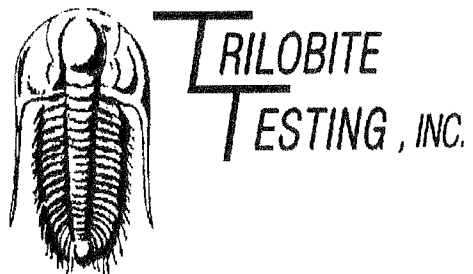
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
2	10	0.25	1.50	25.22
2	10	0.25	1.50	25.22
2	10	0.25	1.50	25.22

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1650 Broadway
Suite 2100
Denver, Co 80202

ATTN: John Rakowski

5 19 10 Rice KS

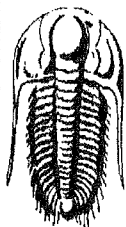
Orth 3-5

Start Date: 2008.10.08 @ 00:47:05

End Date: 2008.10.08 @ 10:20:00

Job Ticket #: 33135 DST #: 4

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary
1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

Orth 3-5

5 19 10 Rice KS

Job Ticket: 33135

DST#: 4

Test Start: 2008.10.08 @ 00:47:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:09:30

Time Test Ended: 10:20:00

Interval: **3280.00 ft (KB) To 3360.00 ft (KB) (TVD)**

Total Depth: 3360.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Reference Elevations: 1756.00 ft (KB)

1747.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8371

Outside

Press@RunDepth: 858.68 psig @ 3284.00 ft (KB)

Start Date: 2008.10.08

End Date: 2008.10.08

Capacity: 7000.00 psig

Start Time: 00:47:05

End Time: 10:20:00

Last Calib.: 2008.10.08

Time On Btm: 2008.10.08 @ 03:08:30

Time Off Btm: 2008.10.08 @ 05:09:59

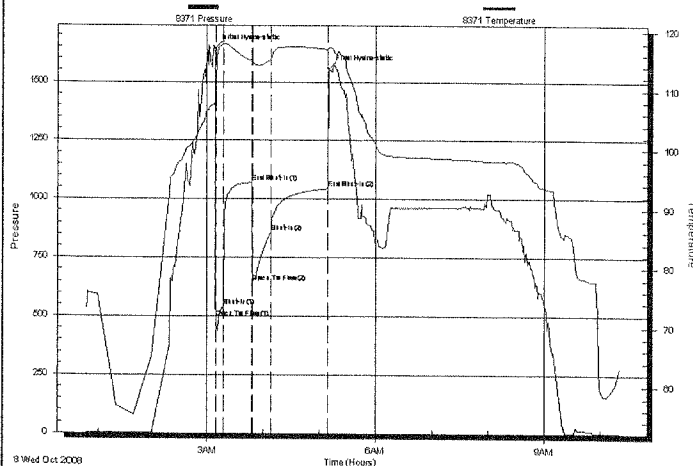
TEST COMMENT: IFP - BOB 30 sec.

ISI - 1 1/4" blow back - died 27 min.

FFP - BOB open

FSI - 1" blow back - died 13 min.

Pressure vs. Time



PRESSURE SUMMARY

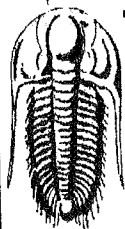
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.57	107.87	Initial Hydro-static
1	491.36	108.94	Open To Flow (1)
10	539.63	117.93	Shut-In (1)
40	1070.66	115.03	End Shut-In (1)
41	643.84	114.80	Open To Flow (2)
60	858.68	115.26	Shut-In (2)
121	1045.13	116.98	End Shut-In (2)
122	1556.70	117.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO 10%G, 65%O, 25%M	1.68
2235.00	reversed out	31.35
275.00	FREE OIL 98%O, 2%M	3.86
0.00	185' GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary

Orth 3-5

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

5 19 10 Rice KS

Job Ticket: 33135

DST#: 4

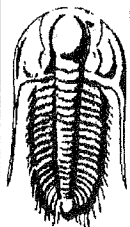
Test Start: 2008.10.08 @ 00:47:05

Tool Information

Drill Pipe:	Length: 3274.00 ft	Diameter: 3.80 inches	Volume: 45.93 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	45.93 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3280.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	107.00 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			3258.00	
Hydraulic tool	5.00			3263.00	
Jars	5.00			3268.00	
Safety Joint	2.00			3270.00	
Packer	5.00			3275.00	27.00 Bottom Of Top Packer
Packer	5.00			3280.00	
Stubb	1.00			3281.00	
Perforations	2.00			3283.00	
Change Over Sub	1.00			3284.00	
Recorder	0.00	8018	Inside	3284.00	
Recorder	0.00	8371	Outside	3284.00	
Blank Spacing	62.00			3346.00	
Change Over Sub	1.00			3347.00	
Perforations	10.00			3357.00	
Bullnose	3.00			3360.00	80.00 Bottom Packers & Anchor

Total Tool Length: 107.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary

Orth 3-5

1650 Broadway
Suite 2100
Denver, Co 80202
ATTN: John Rakowski

5 19 10 Rice KS

Job Ticket: 33135

DST#: 4

Test Start: 2008.10.08 @ 00:47:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 9.95 in³

Resistivity: ohm.m

Salinity: 5900.00 ppm

Filter Cake: 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
120.00	GMCO 10%G, 65%O, 25%M	1.683
2235.00	reversed out	31.351
275.00	FREE OIL 98%O, 2%M	3.858
0.00	185' GIP	0.000

Total Length: 2630.00 ft

Total Volume: 36.892 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

