

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

30-7-20-Rooks-Ks

Benoit/Jones #1

Start Date: 2003.11.23 @ 02:20:54

End Date: 2003.11.23 @ 10:36:24

Job Ticket #: 18409 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co LLC

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

Benoit/Jones #1

30-7-20-Rooks-Ks

Job Ticket: 18409

DST#: 1

Test Start: 2003.11.23 @ 02:20:54

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 04:38:54

Time Test Ended: 10:36:24

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3214.00 ft (KB) To 3241.00 ft (KB) (TVD)**

Total Depth: **3241.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2014.00 ft (KB)**

2009.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6755

Inside

Press@RunDepth: **947.23 psig @ 3215.00 ft (KB)**

Start Date: **2003.11.23**

End Date:

2003.11.23

Start Time: **02:20:55**

End Time:

10:36:24

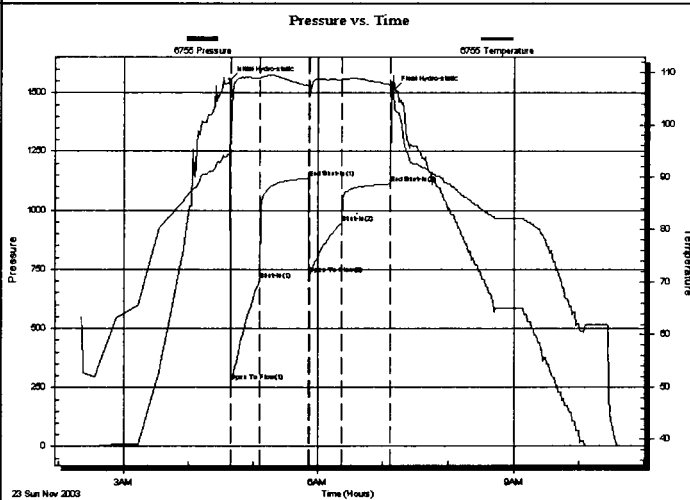
Capacity: **7000.00 psig**

Last Calib.: **2003.11.23**

Time On Btm: **2003.11.23 @ 04:37:54**

Time Off Btm: **2003.11.23 @ 07:09:54**

TEST COMMENT: **IF-Strong BOB in 1.5 min**
FF-Strong-BOB when tool opened
Times-30-45-30-45



PRESSURE SUMMARY

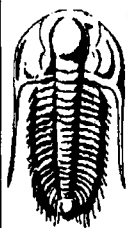
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.67	94.31	Initial Hydro-static
1	275.91	98.15	Open To Flow (1)
28	704.34	108.92	Shut-In (1)
74	1135.95	107.49	End Shut-In (1)
75	730.20	106.80	Open To Flow (2)
105	947.23	108.64	Shut-In (2)
149	1111.46	107.65	End Shut-In (2)
152	1515.09	103.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2790.00	CGsyO 20%g 80%o	38.01
0.00	200 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18409

DST#: 1

ATTN: Jim Baird

Test Start: 2003.11.23 @ 02:20:54

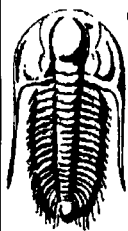
Tool Information

Drill Pipe:	Length: 3097.00 ft	Diameter: 3.80 inches	Volume: 43.44 bbl	Tool Weight: 1100.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	44.05 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3214.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	51.00 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			3191.00	
Shut In Tool	5.00			3196.00	
Hydraulic tool	5.00			3201.00	
Safety Joint	3.00			3204.00	
Packer	5.00			3209.00	24.00 Bottom Of Top Packer
Packer	5.00			3214.00	
Stubb	1.00			3215.00	
Recorder	0.00	6755	Inside	3215.00	
Perforations	23.00			3238.00	
Recorder	0.00	13254	Outside	3238.00	
Bullnose	3.00			3241.00	27.00 Bottom Packers & Anchor

Total Tool Length: 51.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18409

DST#: 1

ATTN: Jim Baird

Test Start: 2003.11.23 @ 02:20:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2790.00	CGsyO 20%g 80%o	38.007
0.00	200 GIP	0.000

Total Length: 2790.00 ft

Total Volume: 38.007 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

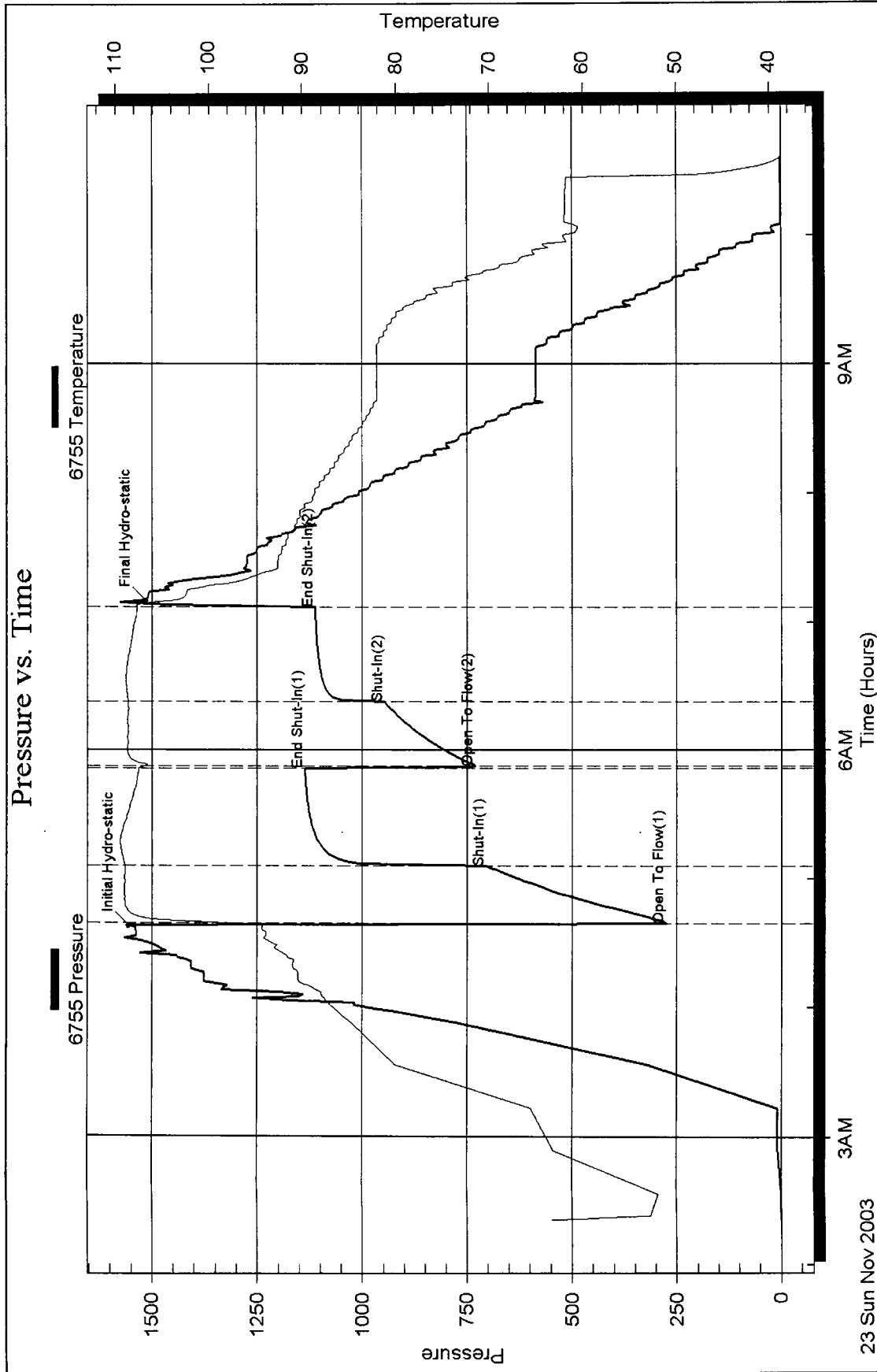
Serial #: 6755

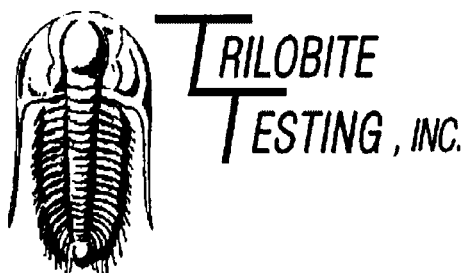
Inside

Baird Oil Co LLC

30-7-20-Rocks-Ks

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

30-7-20-Rooks-Ks

Benoit/Jones #1

Start Date: 2003.11.23 @ 19:55:41

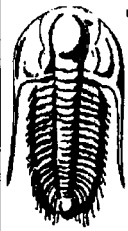
End Date: 2003.11.24 @ 00:30:11

Job Ticket #: 18410 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co LLC

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

Benoit/Jones #1

30-7-20-Rooks-Ks

Job Ticket: 18410

DST#: 2

Test Start: 2003.11.23 @ 19:55:41

GENERAL INFORMATION:

Formation: **A LKC**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 17:55:41

Time Test Ended: 00:30:11

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3237.00 ft (KB) To 3266.00 ft (KB) (TVD)**

Total Depth: **3266.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2014.00 ft (KB)**

2009.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6755 Inside

Press@RunDepth: **116.97 psig @ 3238.00 ft (KB)**

Start Date: **2003.11.23**

End Date:

2003.11.24

Start Time: **19:55:42**

End Time:

02:13:11

Capacity: **7000.00 psig**

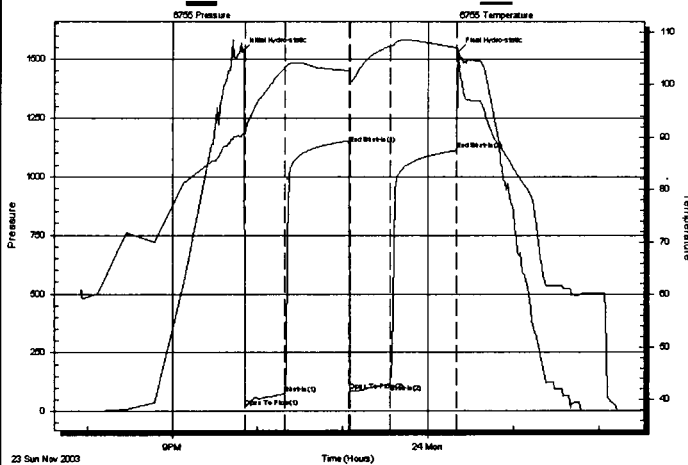
Last Calib.: **2003.11.24**

Time On Btm: **2003.11.23 @ 21:49:41**

Time Off Btm: **2003.11.24 @ 00:21:11**

TEST COMMENT: IF-Strong BOB in 10 min
FF-Strong BOB in 8 min
Times-30-45-30-45

Pressure vs. Time



PRESSURE SUMMARY

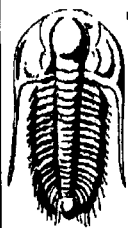
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1532.32	90.51	Initial Hydro-static
2	19.76	90.61	Open To Flow (1)
30	76.56	103.38	Shut-In (1)
75	1139.54	102.59	End Shut-In (1)
76	87.72	100.62	Open To Flow (2)
104	116.97	107.22	Shut-In (2)
150	1112.45	106.95	End Shut-In (2)
152	1530.41	105.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	MCGsyO 10%g 70%o 20%m	1.04
155.00	CGsyO 10%g 90%o	2.17
0.00	430 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18410

DST#: 2

ATTN: Jim Baird

Test Start: 2003.11.23 @ 19:55:41

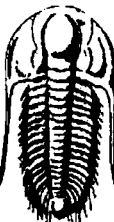
Tool Information

Drill Pipe:	Length: 3097.00 ft	Diameter: 3.80 inches	Volume: 43.44 bbl	Tool Weight: 1200.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 44.05 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3237.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 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
Change Over Sub	1.00			3214.00	
Shut In Tool	5.00			3219.00	
Hydraulic tool	5.00			3224.00	
Safety Joint	3.00			3227.00	
Packer	5.00			3232.00	24.00 Bottom Of Top Packer
Packer	5.00			3237.00	
Stubb	1.00			3238.00	
Recorder	0.00	6755	Inside	3238.00	
Perforations	25.00			3263.00	
Recorder	0.00	13254	Outside	3263.00	
Bullnose	3.00			3266.00	29.00 Bottom Packers & Anchor

Total Tool Length: 53.00

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Baird Oil Co LLC P O Box 428 Logan Ks 67646 ATTN: Jim Baird	Benoit/Jones #1 30-7-20-Rooks-Ks Job Ticket: 18410 DST#: 2 Test Start: 2003.11.23 @ 19:55:41	

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.97 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 900.00 ppm		
Filter Cake: inches		

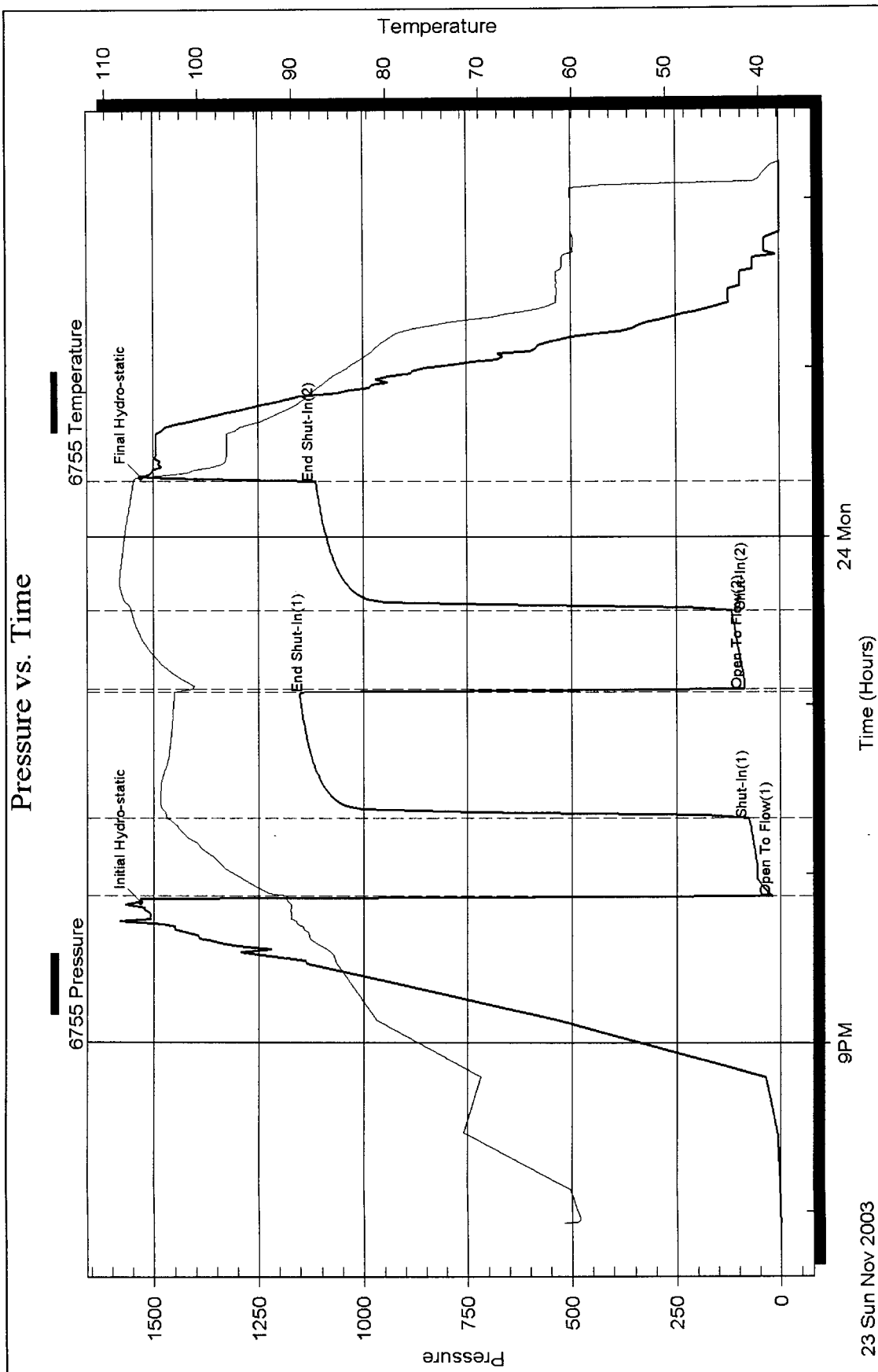
Recovery Information

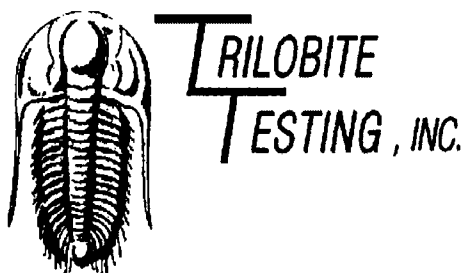
Recovery Table

Length ft	Description	Volume bbl
155.00	MCGsyO 10%g 70%o 20%m	1.045
155.00	CGsyO 10%g 90%o	2.174
0.00	430 GIP	0.000

Total Length: 310.00 ft Total Volume: 3.219 bbl

 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

30-7-20-Rooks-Ks

Benoit/Jones #1

Start Date: 2003.11.24 @ 07:55:35

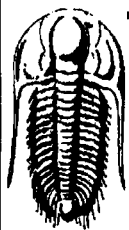
End Date: 2003.11.24 @ 14:21:05

Job Ticket #: 18411 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co LLC

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

Benoit/Jones #1

30-7-20-Rooks-Ks

Job Ticket: 18411

DST#: 3

Test Start: 2003.11.24 @ 07:55:35

GENERAL INFORMATION:

Formation: **C LKC**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 09:45:35

Time Test Ended: 14:21:05

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3270.00 ft (KB) To 3294.00 ft (KB) (TVD)**

Total Depth: **3294.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2014.00 ft (KB)**

2009.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6755

Inside

Press@RunDepth: **139.82 psig @ 3271.00 ft (KB)**

Start Date: **2003.11.24**

End Date:

2003.11.24

Start Time: **07:55:36**

End Time:

14:21:05

Capacity: **7000.00 psig**

Last Calib.: **2003.11.24**

Time On Btm: **2003.11.24 @ 09:45:05**

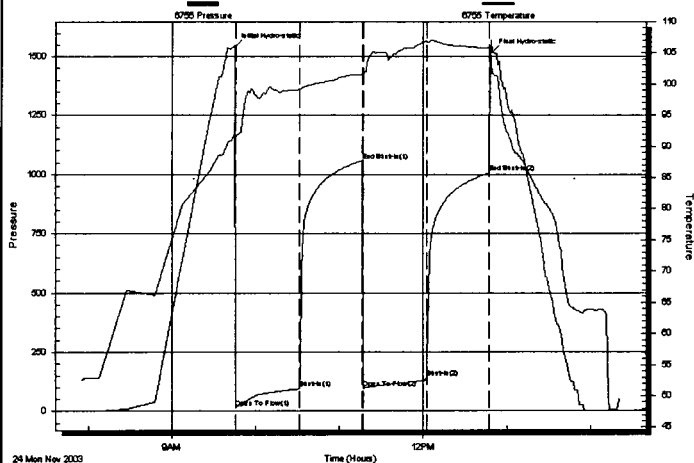
Time Off Btm: **2003.11.24 @ 12:49:35**

TEST COMMENT: IF-Weak building to fair - BOB in 34 min

FF-Weak building to 4"

Times-45-45-45-45

Pressure vs. Time



PRESSURE SUMMARY

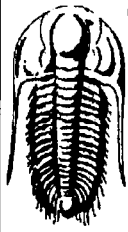
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.66	91.85	Initial Hydro-static
1	14.22	91.60	Open To Flow (1)
46	94.08	99.14	Shut-In(1)
91	1057.22	101.57	End Shut-In(1)
92	96.29	101.52	Open To Flow (2)
137	139.82	106.87	Shut-In(2)
182	1006.28	105.75	End Shut-In(2)
185	1518.55	101.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Mdy Wtr	2.35
15.00	Mdy Wtr w / show oil on top	0.21
107.00	GIP	1.50

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18411

DST#: 3

ATTN: Jim Baird

Test Start: 2003.11.24 @ 07:55:35

Tool Information

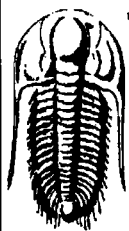
Drill Pipe:	Length: 3129.00 ft	Diameter: 3.80 inches	Volume: 43.89 bbl	Tool Weight: 1100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	44.50 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3270.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	48.00 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			3247.00	
Shut In Tool	5.00			3252.00	
Hydraulic tool	5.00			3257.00	
Safety Joint	3.00			3260.00	
Packer	5.00			3265.00	24.00 Bottom Of Top Packer
Packer	5.00			3270.00	
Stubb	1.00			3271.00	
Recorder	0.00	6755	Inside	3271.00	
Perforations	20.00			3291.00	
Recorder	0.00	13254	Outside	3291.00	
Bullnose	3.00			3294.00	24.00 Bottom Packers & Anchor

Total Tool Length: 48.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18411

DST#: 3

ATTN: Jim Baird

Test Start: 2003.11.24 @ 07:55:35

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:

55000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	Mdy Wtr	2.349
15.00	Mdy Wtr w / show oil on top	0.210
107.00	GIP	1.501

Total Length: 370.00 ft

Total Volume: 4.060 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

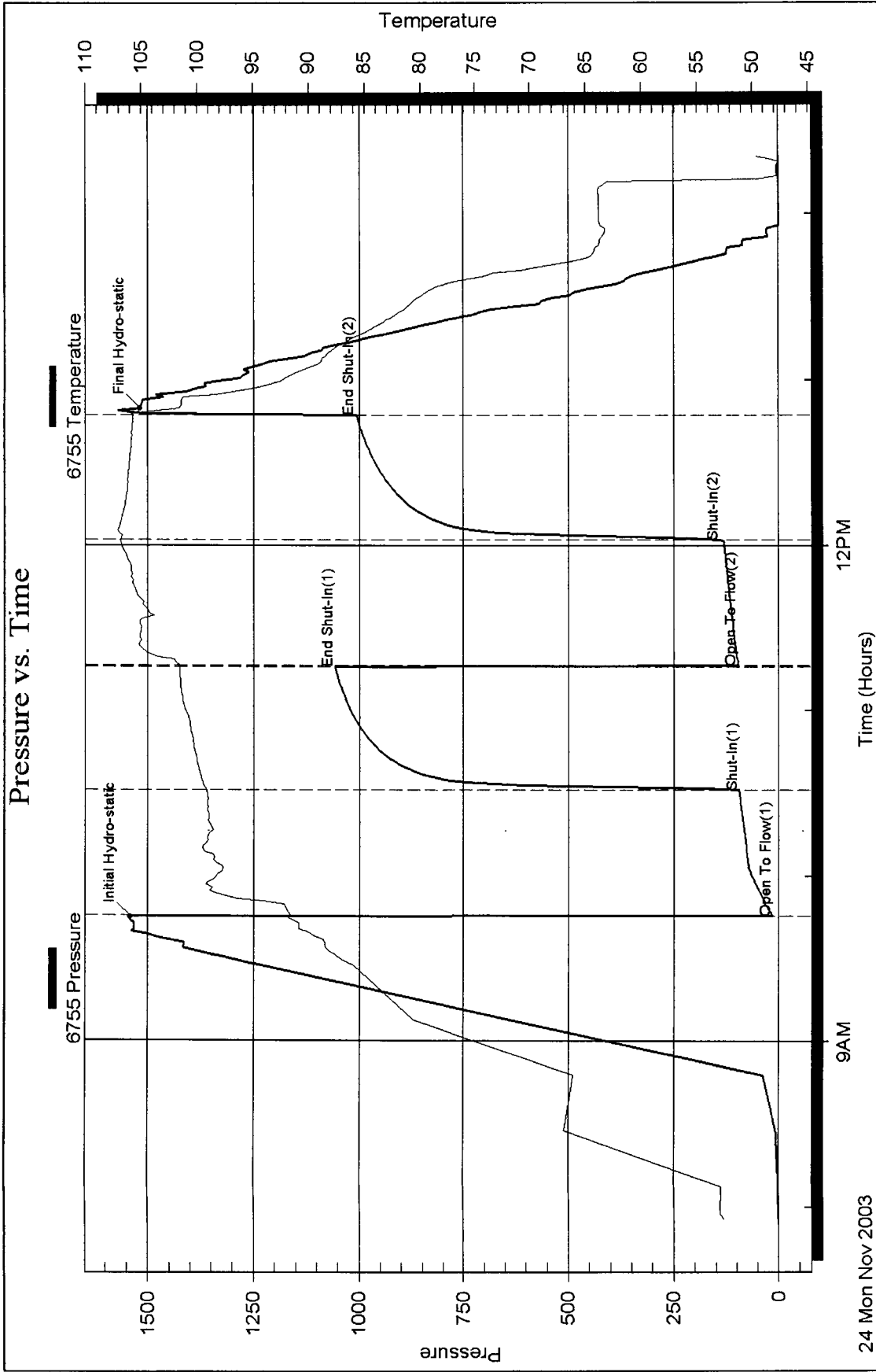
Serial #:

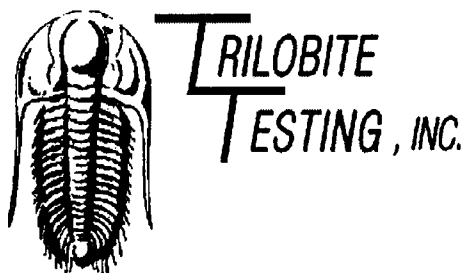
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

30-7-20-Rooks-Ks

Benoit/Jones #1

Start Date: 2003.11.24 @ 20:30:55

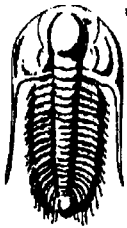
End Date: 2003.11.25 @ 00:33:55

Job Ticket #: 18412 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co LLC

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

Benoit/Jones #1

30-7-20-Rooks-Ks

Job Ticket: 18412

DST#: 4

Test Start: 2003.11.24 @ 20:30:55

GENERAL INFORMATION:

Formation: **D LKC**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 22:04:25

Time Test Ended: 00:33:55

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3290.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Total Depth: **3310.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2014.00 ft (KB)**

2009.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6755

Inside

Press@RunDepth: **13.39 psig @ 3291.00 ft (KB)**

Start Date: **2003.11.24**

End Date:

2003.11.25

Start Time: **20:30:56**

End Time:

00:33:55

Capacity: **7000.00 psig**

Last Calib.: **2003.11.25**

Time On Btm: **2003.11.24 @ 22:02:55**

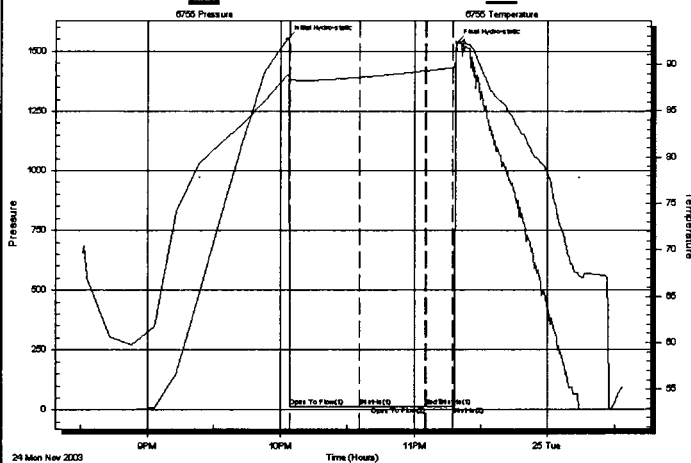
Time Off Btm: **2003.11.24 @ 23:18:55**

TEST COMMENT: **IF-Weak building to 1/2"**

FF-Weak died in 3 min

Times-30-30-10-0

Pressure vs. Time



PRESSURE SUMMARY

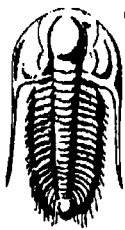
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1551.24	88.84	Initial Hydro-static
2	12.18	88.44	Open To Flow (1)
33	13.39	88.60	Shut-In (1)
62	13.98	89.29	End Shut-In (1)
63	12.94	89.30	Open To Flow (2)
75	13.00	89.65	Shut-In (2)
76	1536.68	92.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	DM	0.02

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18412

DST#: 4

ATTN: Jim Baird

Test Start: 2003.11.24 @ 20:30:55

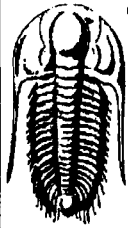
Tool Information

Drill Pipe:	Length: 3160.00 ft	Diameter: 3.80 inches	Volume: 44.33 bbl	Tool Weight: 1000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 44.94 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3290.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	44.00 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			3267.00	
Shut In Tool	5.00			3272.00	
Hydraulic tool	5.00			3277.00	
Safety Joint	3.00			3280.00	
Packer	5.00			3285.00	24.00 Bottom Of Top Packer
Packer	5.00			3290.00	
Stubb	1.00			3291.00	
Recorder	0.00	6755	Inside	3291.00	
Perforations	16.00			3307.00	
Recorder	0.00	13254	Outside	3307.00	
Bullnose	3.00			3310.00	20.00 Bottom Packers & Anchor

Total Tool Length: 44.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18412

DST#: 4

ATTN: Jim Baird

Test Start: 2003.11.24 @ 20:30:55

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: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	DM	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 4

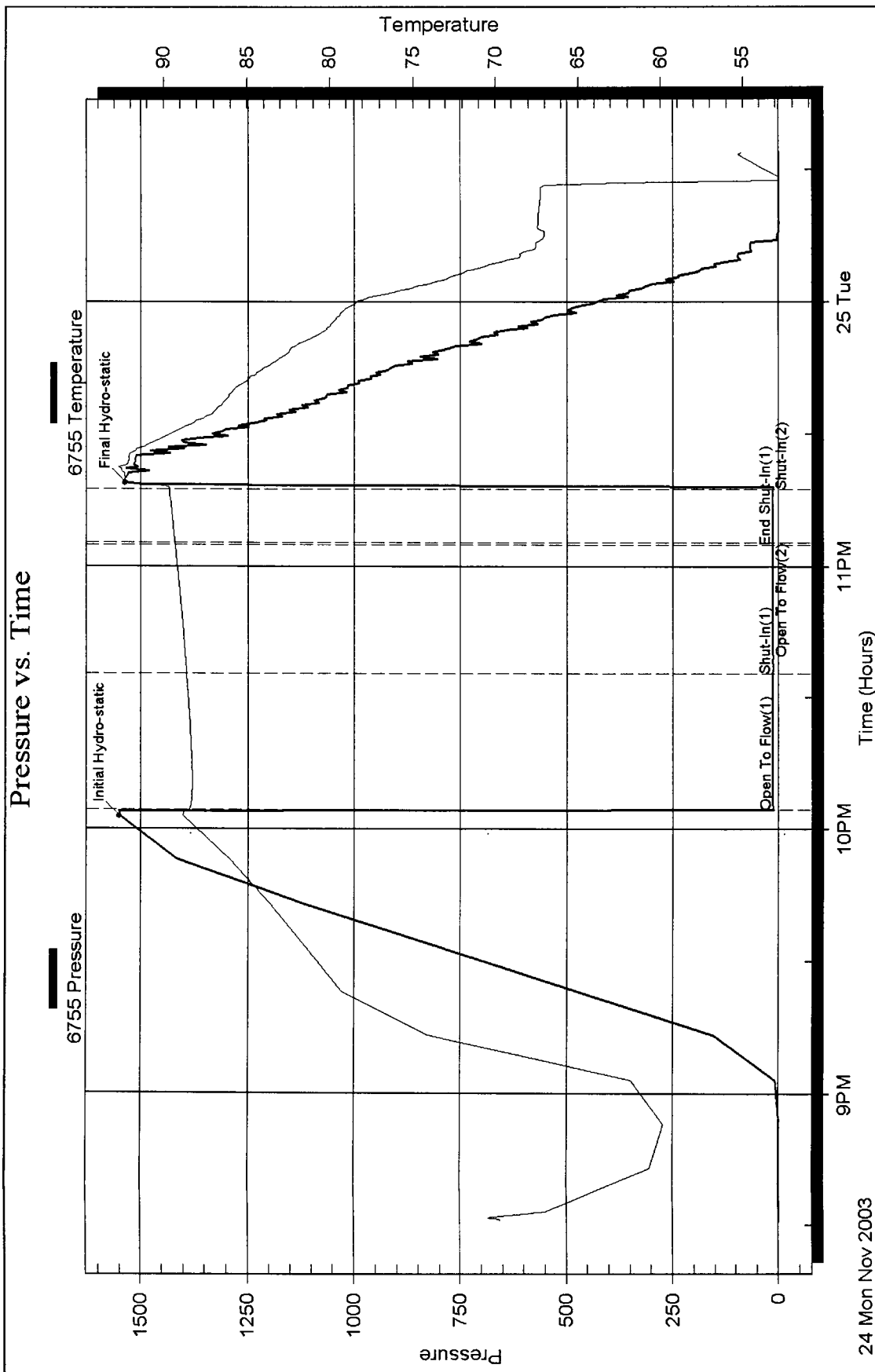
30-7-20-Rocks-Ks

Baird Oil Co LLC

Inside

Serial #: 6755

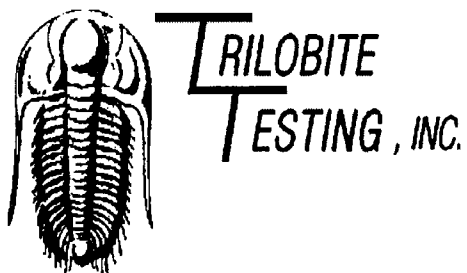
Pressure vs. Time



Ref. No: 18412

Trilobite Testing, Inc

Printed: 2003.12.04 @ 12:32:00 Page 5



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

30-7-20-Rooks-Ks

Benoit/Jones #1

Start Date: 2003.11.25 @ 08:05:42

End Date: 2003.11.25 @ 14:35:42

Job Ticket #: 18413 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co LLC

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

Benoit/Jones #1

30-7-20-Rooks-Ks

Job Ticket: 18413

DST#: 5

Test Start: 2003.11.25 @ 08:05:42

GENERAL INFORMATION:

Formation: **E-F LKC**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 10:01:42

Time Test Ended: 14:35:42

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3306.00 ft (KB) To 3329.00 ft (KB) (TVD)**

Total Depth: **3329.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2014.00 ft (KB)**

2009.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6755

Inside

Press@RunDepth: **157.27 psig @ 3307.00 ft (KB)**

Start Date: **2003.11.25**

End Date:

2003.11.25

Capacity: **7000.00 psig**

Last Calib.: **2003.11.25**

Start Time: **08:05:43**

End Time:

14:35:42

Time On Btm: **2003.11.25 @ 10:00:42**

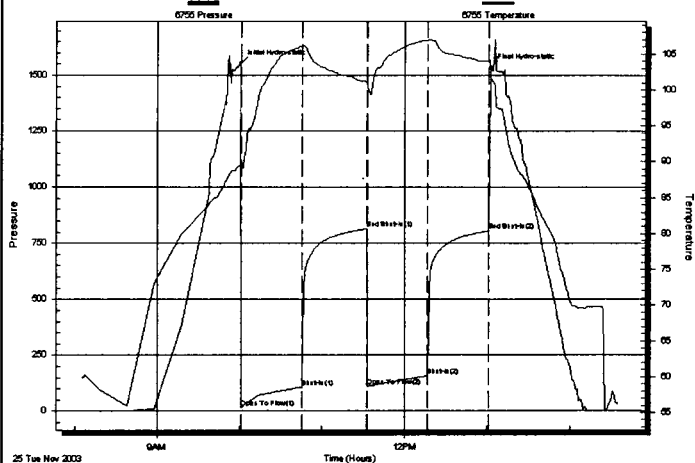
Time Off Btm: **2003.11.25 @ 13:02:42**

TEST COMMENT: **IF-Strong BOB in 20 min**

FF-Weak building to 6"

Times-45-45-45-45

Pressure vs. Time



PRESSURE SUMMARY

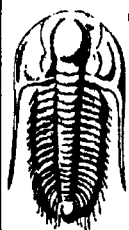
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1551.85	89.42	Initial Hydro-static
1	14.90	89.01	Open To Flow (1)
45	107.07	106.15	Shut-In(1)
92	814.76	101.13	End Shut-In(1)
93	109.16	100.51	Open To Flow (2)
136	157.27	106.89	Shut-In(2)
181	805.33	103.96	End Shut-In(2)
182	1534.64	101.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Mdy w tr w/oil show on top	3.22

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18413

DST#: 5

ATTN: Jim Baird

Test Start: 2003.11.25 @ 08:05:42

Tool Information

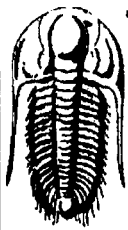
Drill Pipe:	Length: 3189.00 ft	Diameter: 3.80 inches	Volume: 44.73 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	45.34 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3306.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	47.00 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			3283.00	
Shut In Tool	5.00			3288.00	
Hydraulic tool	5.00			3293.00	
Safety Joint	3.00			3296.00	
Packer	5.00			3301.00	24.00 Bottom Of Top Packer
Packer	5.00			3306.00	
Stubb	1.00			3307.00	
Recorder	0.00	6755	Inside	3307.00	
Perforations	19.00			3326.00	
Recorder	0.00	13254	Outside	3326.00	
Bullnose	3.00			3329.00	23.00 Bottom Packers & Anchor

Total Tool Length: 47.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18413

DST#: 5

ATTN: Jim Baird

Test Start: 2003.11.25 @ 08:05:42

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:

48000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	Mdy w tr w/oil show on top	3.219

Total Length: 310.00 ft

Total Volume: 3.219 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

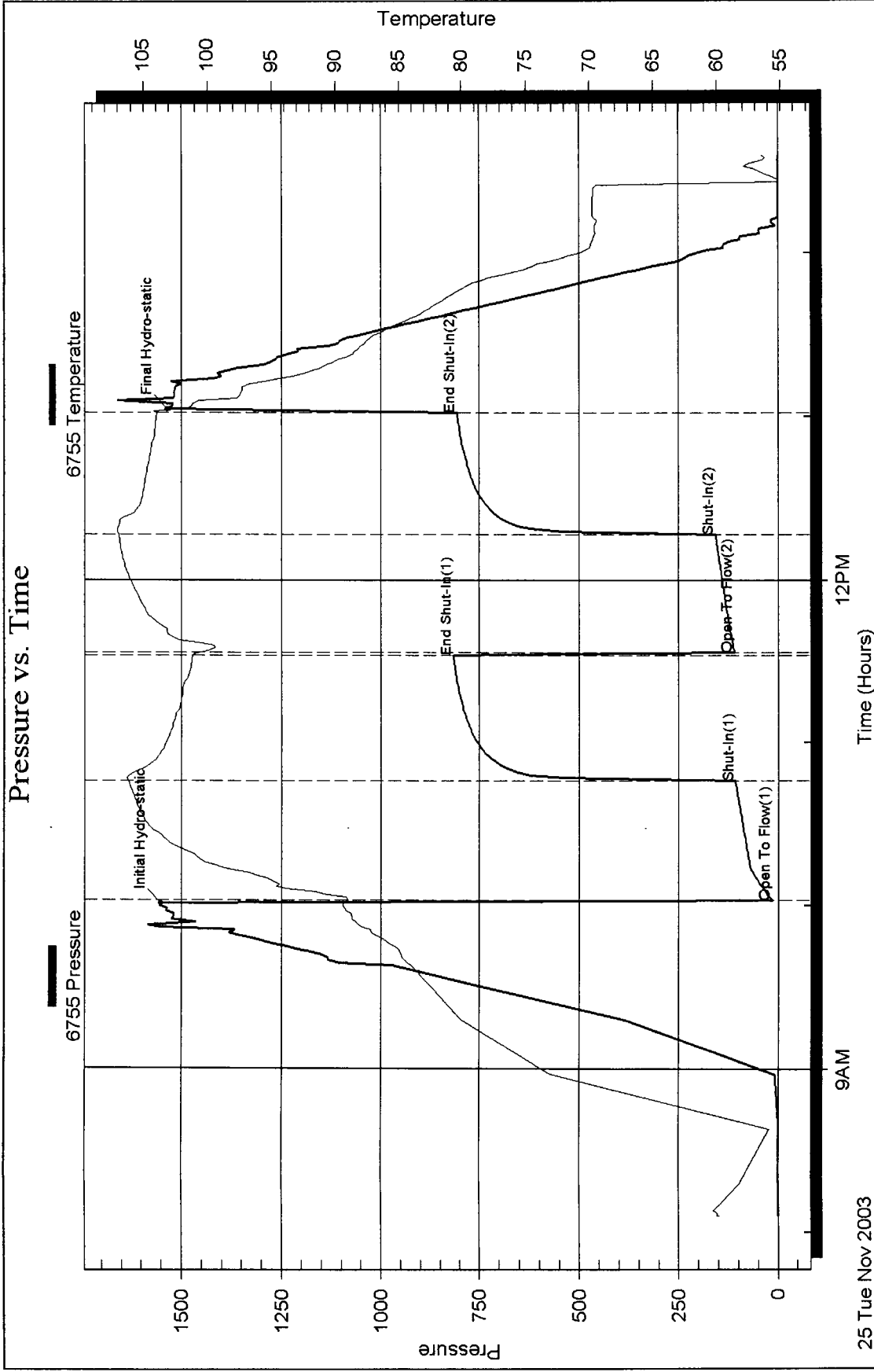
Serial #:

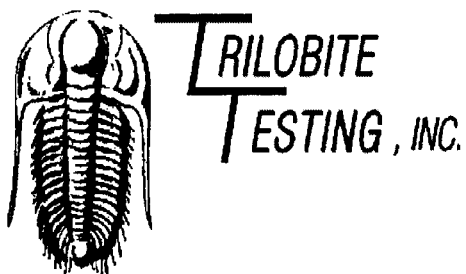
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

30-7-20-Rooks-Ks

Benoit/Jones #1

Start Date: 2003.11.25 @ 20:20:16

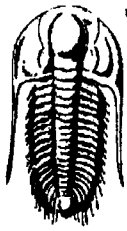
End Date: 2003.11.26 @ 02:34:16

Job Ticket #: 18414. DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co LLC

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

Benoit/Jones #1

30-7-20-Rooks-Ks

Job Ticket: 18414

DST#: 6

Test Start: 2003.11.25 @ 20:20:16

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:58:16

Time Test Ended: 02:34:16

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3327.00 ft (KB) To 3347.00 ft (KB) (TVD)

Total Depth: 3347.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2014.00 ft (KB)

2009.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755

Inside

Press@RunDepth: 273.69 psig @ 3328.00 ft (KB)

Start Date: 2003.11.25

End Date:

2003.11.26

Start Time: 20:20:17

End Time:

02:34:16

Capacity: 7000.00 psig

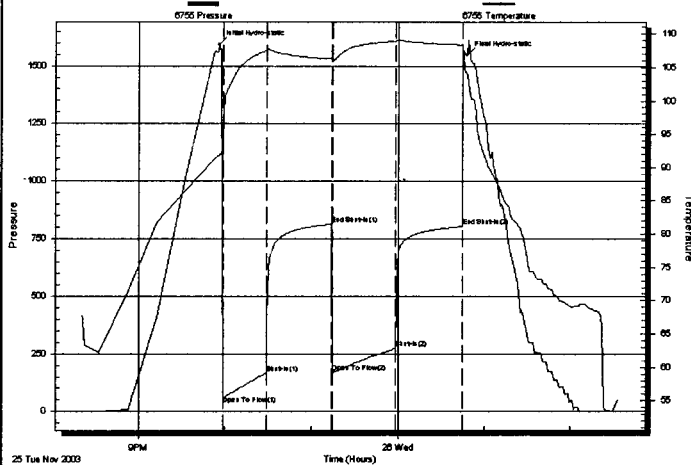
Last Calib.: 2003.11.26

Time On Btm: 2003.11.25 @ 21:55:46

Time Off Btm: 2003.11.26 @ 00:48:16

TEST COMMENT: IF-Strong BOB in 5 min
FF-Strong BOB in 9 min
Times-30-45-45-45

Pressure vs. Time



PRESSURE SUMMARY

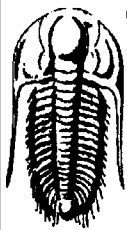
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.96	91.86	Initial Hydro-static
3	30.11	93.30	Open To Flow (1)
33	163.51	107.43	Shut-In (1)
79	813.40	106.20	End Shut-In (1)
79	169.70	106.00	Open To Flow (2)
123	273.69	108.92	Shut-In (2)
169	803.63	108.32	End Shut-In (2)
173	1547.77	103.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Wtr	3.22
280.00	CGsyO 10%g 90%o	3.93
0.00	526 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18414

DST#: 6

ATTN: Jim Baird

Test Start: 2003.11.25 @ 20:20:16

Tool Information

Drill Pipe:	Length: 3190.00 ft	Diameter: 3.80 inches	Volume: 44.75 bbl	Tool Weight:	1000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 45.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3327.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	44.00 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			3304.00	
Shut In Tool	5.00			3309.00	
Hydraulic tool	5.00			3314.00	
Safety Joint	3.00			3317.00	
Packer	5.00			3322.00	24.00 Bottom Of Top Packer
Packer	5.00			3327.00	
Stubb	1.00			3328.00	
Recorder	0.00	6755	Inside	3328.00	
Perforations	16.00			3344.00	
Recorder	0.00	13254	Outside	3344.00	
Bullnose	3.00			3347.00	20.00 Bottom Packers & Anchor

Total Tool Length: 44.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18414

DST#: 6

ATTN: Jim Baird

Test Start: 2003.11.25 @ 20:20:16

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: 38000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	Wtr	3.219
280.00	CGsyO 10%g 90%o	3.928
0.00	526 GIP	0.000

Total Length: 590.00 ft

Total Volume: 7.147 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

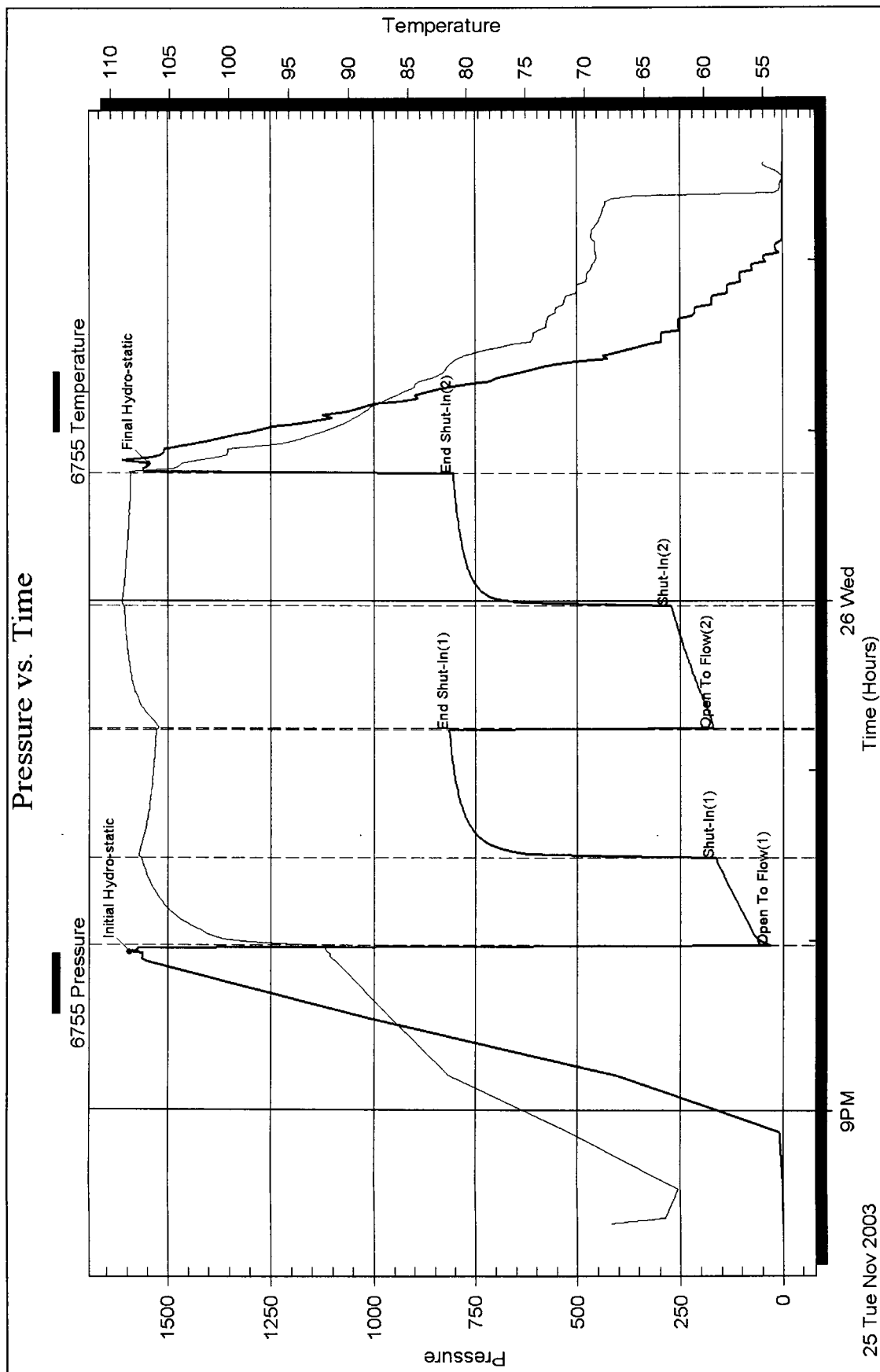
Serial #:

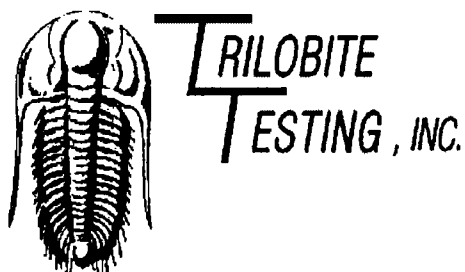
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co LLC**

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

30-7-20-Rooks-Ks

Benoit/Jones #1

Start Date: 2003.11.26 @ 14:12:14

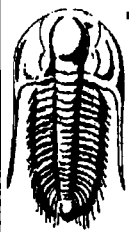
End Date: 2003.11.26 @ 20:41:14

Job Ticket #: 18415 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co LLC

P O Box 428
Logan Ks 67646

ATTN: Jim Baird

Benoit/Jones #1

30-7-20-Rooks-Ks

Job Ticket: 18415

DST#: 7

Test Start: 2003.11.26 @ 14:12:14

GENERAL INFORMATION:

Formation: **I-J-K LKC**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 15:53:14

Time Test Ended: 20:41:14

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **21**

Interval: **3402.00 ft (KB) To 3445.00 ft (KB) (TVD)**

Total Depth: **3445.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2014.00 ft (KB)**

2009.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6755

Inside

Press@RunDepth: **124.56 psig @ 3403.00 ft (KB)**

Start Date: **2003.11.26**

End Date:

2003.11.26

Capacity: **7000.00 psig**

Last Calib.: **2003.11.26**

Start Time: **14:12:15**

End Time:

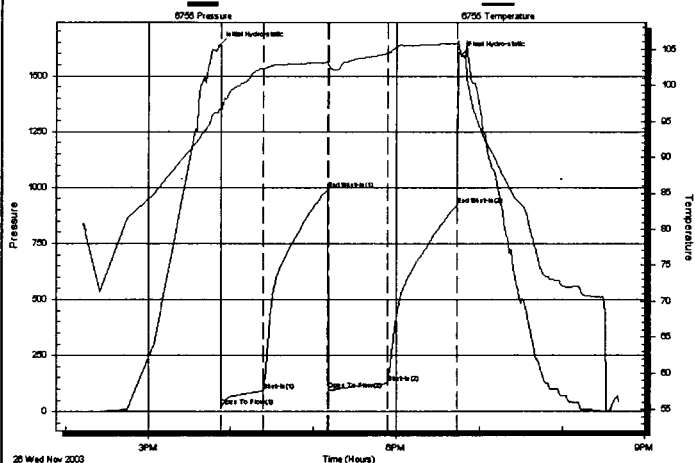
20:41:14

Time On Btm: **2003.11.26 @ 15:51:44**

Time Off Btm: **2003.11.26 @ 18:46:44**

TEST COMMENT: IF-Strong BOB in 12 min
FF-Strong BOB in 20 min
Times-30-45-45-45

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1634.94	96.63	Initial Hydro-static
2	22.30	96.39	Open To Flow (1)
32	91.10	102.23	Shut-In (1)
79	989.51	103.16	End Shut-In (1)
80	95.96	102.78	Open To Flow (2)
122	124.56	104.42	Shut-In (2)
172	921.59	105.81	End Shut-In (2)
175	1593.95	104.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MCO 75%o 25%m	1.48
62.00	MCO 90%o 10%m	0.87
30.00	CO	0.42
0.00	278 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18415

DST#: 7

ATTN: Jim Baird

Test Start: 2003.11.26 @ 14:12:14

Tool Information

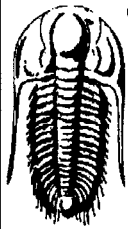
Drill Pipe:	Length: 3283.00 ft	Diameter: 3.80 inches	Volume: 46.05 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	46.66 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3402.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	63.00 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			3379.00	
Shut In Tool	5.00			3384.00	
Hydraulic tool	5.00			3389.00	
Safety Joint	3.00			3392.00	
Packer	5.00			3397.00	24.00 Bottom Of Top Packer
Packer	5.00			3402.00	
Stubb	1.00			3403.00	
Recorder	0.00	6755	Inside	3403.00	
Perforations	35.00			3438.00	
Recorder	0.00	13254	Outside	3438.00	
Bullnose	3.00			3441.00	39.00 Bottom Packers & Anchor

Total Tool Length: 63.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co LLC

Benoit/Jones #1

P O Box 428
Logan Ks 67646

30-7-20-Rooks-Ks

Job Ticket: 18415

DST#: 7

ATTN: Jim Baird

Test Start: 2003.11.26 @ 14:12:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MCO 75%o 25%m	1.480
62.00	MCO 90%o 10%m	0.870
30.00	CO	0.421
0.00	278 GIP	0.000

Total Length: 278.00 ft

Total Volume: 2.771 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

Inside

Baird Oil Co LLC

30-7-20-Rooks-Ks

DST Test Number: 7

