

**TRILOBITE
TESTING, INC.**

**KCC
JAN 12 2011
CONFIDENTIAL**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

Po Box 428
Logan KS 67646

ATTN: Jim R Baird

36-3s-22w Norton KS

Esslinger-Graham Unit 1-36

Start Date: 2010.11.18 @ 15:53:24

End Date: 2010.11.18 @ 22:39:54

Job Ticket #: 040174 DST #: 1

**RECEIVED
JAN 13 2011
KCC WICHITA**

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Po Box 428
Logan KS 67646

ATTN: Jim R Baird

Esslinger-Graham Unit 1-36

36-3s-22w Norton KS

Job Ticket: 040174

DST#: 1

Test Start: 2010.11.18 @ 15:53:24

GENERAL INFORMATION:

Formation: **LKC-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:54

Time Test Ended: 22:39:54

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: **3518.00 ft (KB) To 3540.00 ft (KB) (TVD)**

Total Depth: 3540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2302.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 103.07 psig @ 3519.00 ft (KB)

Start Date: 2010.11.18

End Date:

2010.11.18

Start Time: 15:53:25

End Time:

22:39:54

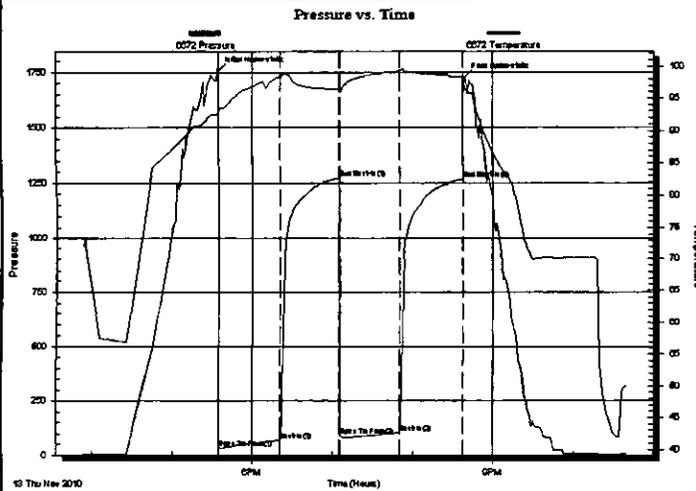
Capacity: 8000.00 psig

Last Calib.: 2010.11.18

Time On Btm: 2010.11.18 @ 17:34:24

Time Off Btm: 2010.11.18 @ 20:38:54

TEST COMMENT: IFP-Good blow BOB in 19 min
ISI-Weak surface blow back built to 2 1/4 in
FFP-Good blow BOB in 26 min
FSI-Weak surface blow back Built to 3 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1759.61	93.07	Initial Hydro-static
1	33.24	92.88	Open To Flow (1)
46	68.62	98.47	Shut-In(1)
91	1269.41	96.42	End Shut-In(1)
92	89.48	95.93	Open To Flow (2)
136	103.07	99.30	Shut-In(2)
183	1265.68	98.47	End Shut-In(2)
185	1727.12	96.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Gassy Oil	1.69
61.00	HOCGW5%G5%W30%O60%M	0.86
0.00	325 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 040174 **DST#: 1**

ATTN: Jim R Baird

Test Start: 2010.11.18 @ 15:53:24

Tool Information

Drill Pipe:	Length: 3386.00 ft	Diameter: 3.80 inches	Volume: 47.50 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 4400.00 lb
		Total Volume:	48.10 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3518.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3499.00	
Shut In Tool	5.00			3504.00	
Hydraulic tool	5.00			3509.00	
Packer	4.00			3513.00	20.00 Bottom Of Top Packer
Packer	5.00			3518.00	
Stubb	1.00			3519.00	
Recorder	0.00	6672	Inside	3519.00	
Recorder	0.00	8679	Outside	3519.00	
Perforations	18.00			3537.00	
Bullnose	3.00			3540.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 040174 DST#: 1

ATTN: Jim R Baird

Test Start: 2010.11.18 @ 15:53:24

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: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

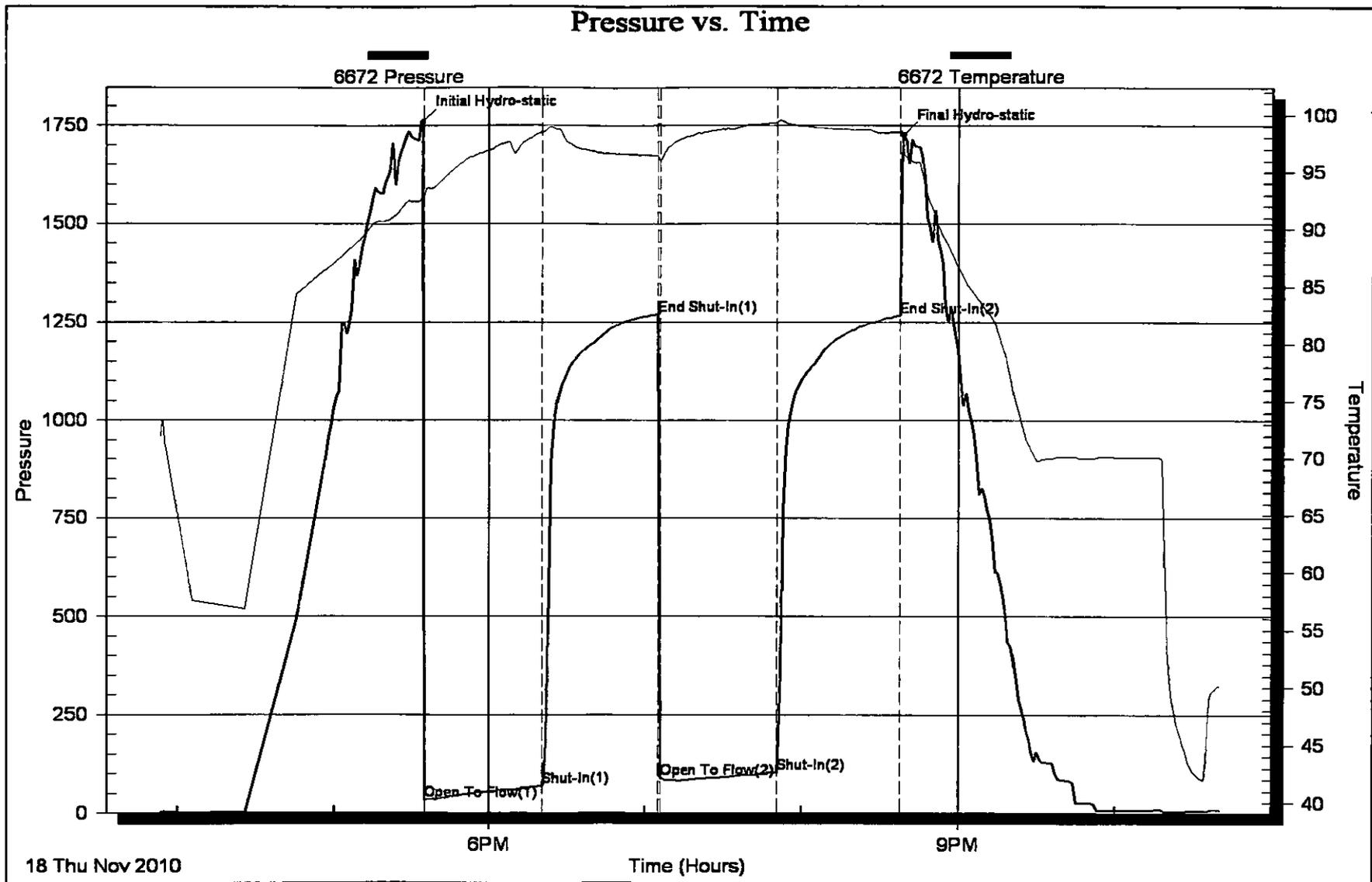
Length ft	Description	Volume bbl
200.00	Gassy Oil	1.694
61.00	HOCGWM5%G5%W30%O60%M	0.856
0.00	325 GP	0.000

Total Length: 261.00 ft Total Volume: 2.550 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

Po Box 428
Logan KS 67646

ATTN: Jim R Baird

36-3s-22w Norton KS

Esslinger-Graham Unit 1-36

Start Date: 2010.11.19 @ 04:07:25

End Date: 2010.11.19 @ 10:21:55

Job Ticket #: 040175 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
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DRILL STEM TEST REPORT

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 040175 DST#: 2

ATTN: Jim R Baird

Test Start: 2010.11.19 @ 04:07:25

GENERAL INFORMATION:

Formation: **LKC-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:47:55

Time Test Ended: 10:21:55

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: **3545.00 ft (KB) To 3565.00 ft (KB) (TVD)**

Total Depth: 3565.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2302.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672 Inside

Press@RunDepth: 227.20 psig @ 3547.00 ft (KB)

Start Date: 2010.11.19

End Date:

2010.11.19

Start Time: 04:07:26

End Time:

10:21:55

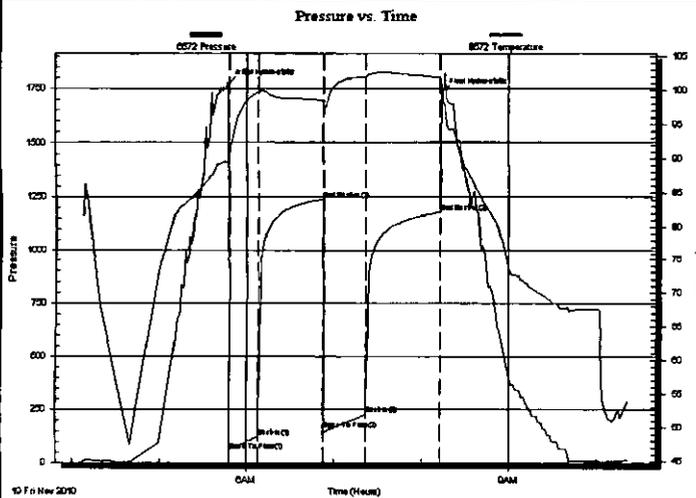
Capacity: 8000.00 psig

Last Calib.: 2010.11.19

Time On Btm: 2010.11.19 @ 05:46:55

Time Off Btm: 2010.11.19 @ 08:13:55

TEST COMMENT: IFF-Strong blow BOB in 3 1/2 min
ISI-Good Blow back BOB in 16 min
FFP-Strong Blow BOB in 4 min
FSI-Good blow BOB in 28 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1772.63	89.60	Initial Hydro-static
1	56.63	90.06	Open To Flow (1)
21	122.35	99.71	Shut-In(1)
65	1236.98	98.60	End Shut-In(1)
66	156.77	98.18	Open To Flow (2)
95	227.20	102.02	Shut-In(2)
146	1177.38	101.94	End Shut-In(2)
147	1734.29	100.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
589.00	Gassy Oil 20%G 80%O	7.15
153.00	HOCGM40%O25%G35%M	2.15
0.00	527 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 040175 DST#: 2

ATTN: Jim R Baird

Test Start: 2010.11.19 @ 04:07:25

Tool Information

Drill Pipe:	Length: 3419.00 ft	Diameter: 3.80 inches	Volume: 47.96 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 46000.00 lb
			Total Volume: 48.56 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3545.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3526.00	
Shut In Tool	5.00			3531.00	
Hydraulic tool	5.00			3536.00	
Packer	4.00			3540.00	20.00 Bottom Of Top Packer
Packer	5.00			3545.00	
Stubb	1.00			3546.00	
Perforations	1.00			3547.00	
Recorder	0.00	6672	Inside	3547.00	
Recorder	0.00	8679	Outside	3547.00	
Perforations	15.00			3562.00	
Bullnose	3.00			3565.00	20.00 Bottom Packers & Anchor

Total Tool Length: 40.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 040175 **DST#: 2**

ATTN: Jim R Baird

Test Start: 2010.11.19 @ 04:07:25

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

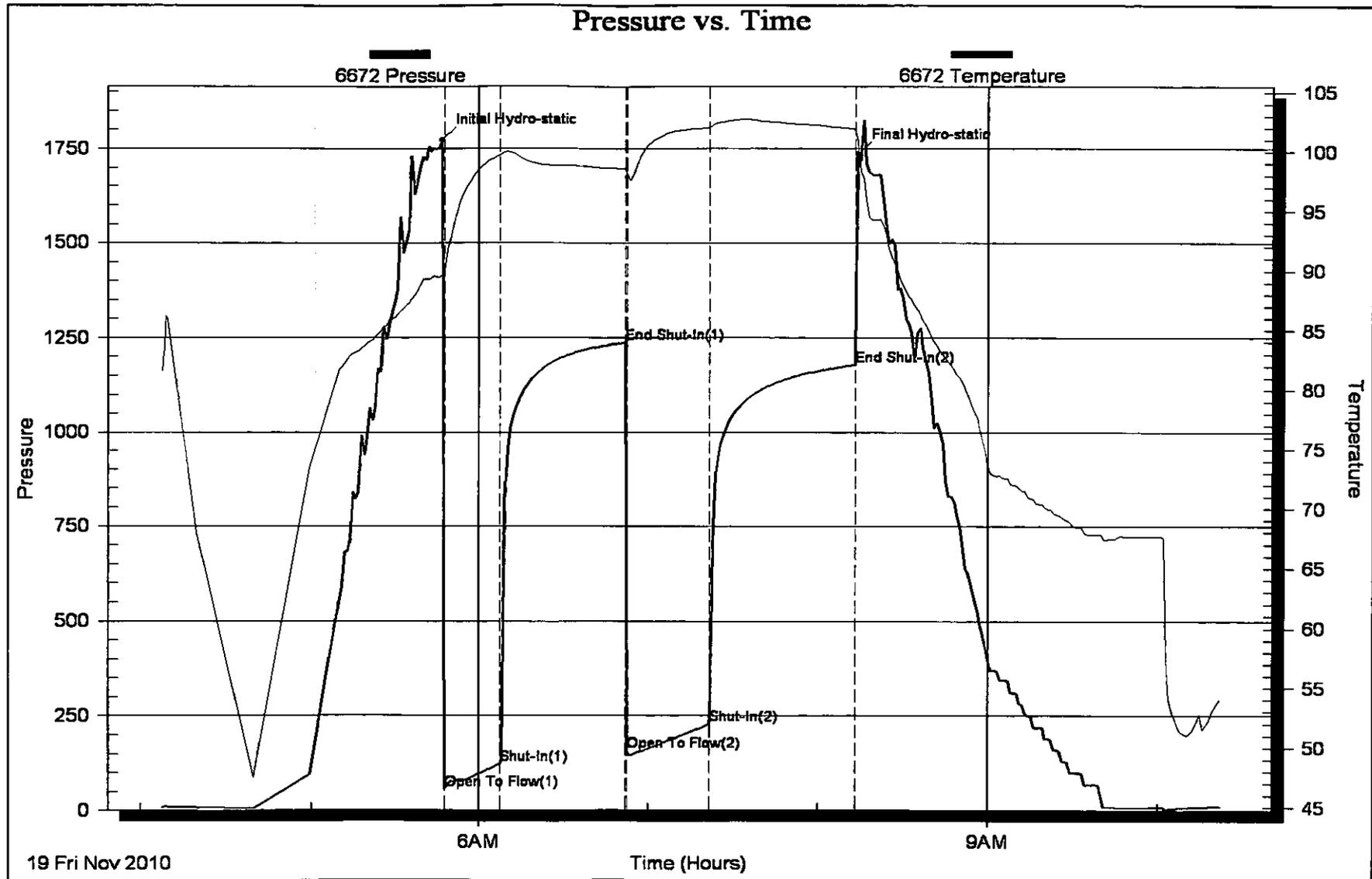
Length ft	Description	Volume bbl
589.00	Gassy Oil 20%G 80%O	7.151
153.00	HOCGM40%O25%G35%M	2.146
0.00	527 GIP	0.000

Total Length: 742.00 ft Total Volume: 9.297 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

Po Box 428
Logan KS 67646

ATTN: Jim R Baird

36-3s-22w Norton KS

Esslinger-Graham Unit 1-36

Start Date: 2010.11.19 @ 16:05:23

End Date: 2010.11.19 @ 22:17:23

Job Ticket #: 041002 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

Baird Oil Company, LLC

Po Box 428
Logan KS 67646

ATTN: Jim R Baird

Esslinger-Graham Unit 1-36

36-3s-22w Norton KS

Job Ticket: 041002 DST#: 3

Test Start: 2010.11.19 @ 16:05:23

GENERAL INFORMATION:

Formation: **LKC-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:24:23

Time Test Ended: 22:17:23

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: **3565.00 ft (KB) To 3585.00 ft (KB) (TVD)**

Total Depth: 3585.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2302.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6672**

Inside

Press@RunDepth: 184.66 psig @ 3567.00 ft (KB)

Start Date: 2010.11.19

End Date:

2010.11.19

Start Time: 16:05:24

End Time:

22:17:23

Capacity: 8000.00 psig

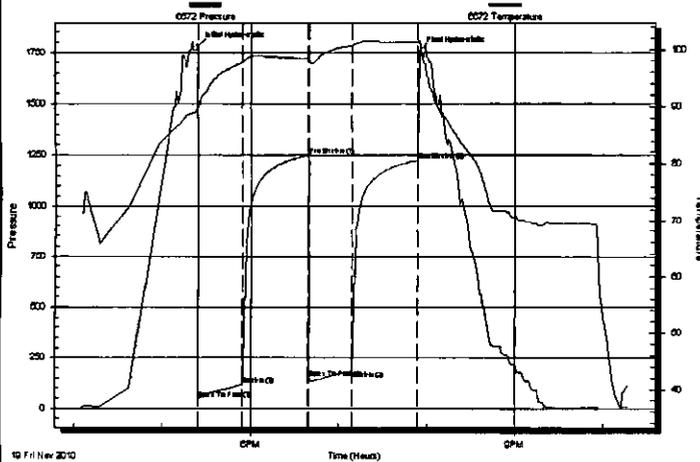
Last Calib.: 2010.11.19

Time On Btm: 2010.11.19 @ 17:23:53

Time Off Btm: 2010.11.19 @ 19:54:53

TEST COMMENT: IFF-Good blow BOB in 7 min
ISI-Weak surface blow built to 3 1/2 in
FFF-Good blow BOB in 9 1/2 min
FSI-Weak surface blow back built to 2 in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.09	89.66	Initial Hydro-static
1	45.89	89.31	Open To Flow (1)
31	116.88	97.78	Shut-In(1)
75	1248.70	98.44	End Shut-In(1)
76	150.96	98.04	Open To Flow (2)
105	184.66	100.68	Shut-In(2)
150	1222.81	101.32	End Shut-In(2)
151	1756.57	101.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
568.00	Gassy Oil 10%G 90%O	6.86
62.00	HOCGM30%O10%G60%M	0.87
0.00	268 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 041002

DST#: 3

ATTN: Jim R Baird

Test Start: 2010.11.19 @ 16:05:23

Tool Information

Drill Pipe:	Length: 3449.00 ft	Diameter: 3.80 inches	Volume: 48.38 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
		Total Volume:	48.98 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3565.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

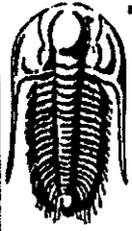
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3546.00	
Shut In Tool	5.00			3551.00	
Hydraulic tool	5.00			3556.00	
Packer	4.00			3560.00	20.00 Bottom Of Top Packer
Packer	5.00			3565.00	
Stubb	1.00			3566.00	
Perforations	1.00			3567.00	
Recorder	0.00	6672	Inside	3567.00	
Recorder	0.00	8679	Outside	3567.00	
Perforations	15.00			3582.00	
Bullnose	3.00			3585.00	20.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 041002 DST#: 3

ATTN: Jim R Baird

Test Start: 2010.11.19 @ 16:05:23

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 25 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1200.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

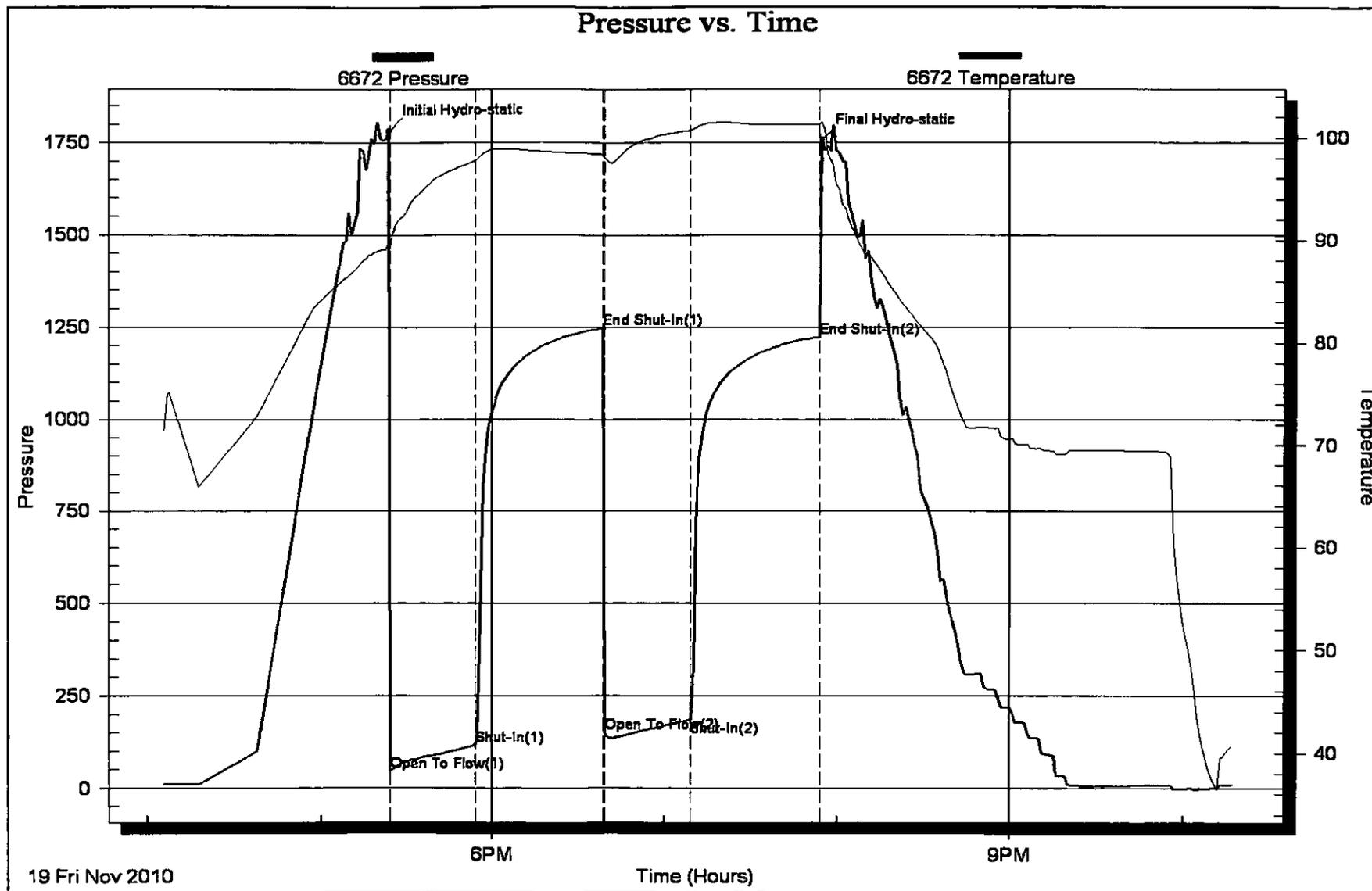
Length ft	Description	Volume bbl
568.00	Gassy Oil 10%G 90%O	6.856
62.00	HOCGM30%O10%G60%M	0.870
0.00	268 GIP	0.000

Total Length: 630.00 ft Total Volume: 7.726 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

Po Box 428
Logan KS 67646

ATTN: Jim R Baird

36-3s-22w Norton KS

Esslinger-Graham Unit 1-36

Start Date: 2010.11.20 @ 04:28:40

End Date: 2010.11.20 @ 10:38:40

Job Ticket #: 041003 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

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 041003 DST#: 4

ATTN: Jim R Baird

Test Start: 2010.11.20 @ 04:28:40

GENERAL INFORMATION:

Formation: LKC-F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:01:40

Time Test Ended: 10:38:40

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: 3585.00 ft (KB) To 3603.00 ft (KB) (TVD)

Total Depth: 3603.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2302.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 163.71 psig @ 3587.00 ft (KB)

Start Date: 2010.11.20

End Date:

2010.11.20

Start Time: 04:28:41

End Time:

10:38:40

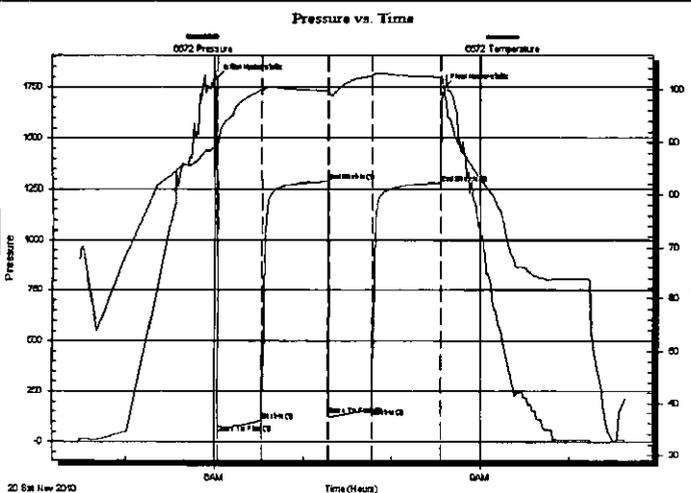
Capacity: 8000.00 psig

Last Calib.: 2010.11.20

Time On Btm: 2010.11.20 @ 06:01:10

Time Off Btm: 2010.11.20 @ 08:35:10

TEST COMMENT: IFP-Good blow BOB in 7 1/2 min
ISF-Good surface blow back BOB in 44 min
FFP-Good blow BOB in 10 min
FSF-Fair surface blow back built to 5 in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1793.04	89.05	Initial Hydro-static
1	44.56	88.83	Open To Flow (1)
31	104.49	100.03	Shut-In(1)
76	1287.57	99.85	End Shut-In(1)
77	130.53	99.47	Open To Flow (2)
106	163.71	102.62	Shut-In(2)
153	1280.40	102.43	End Shut-In(2)
154	1747.04	100.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	Gassy Oil 10%G 90%O	4.98
122.00	HOCGM40%O10%G50%M	1.71
0.00	155 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 041003

DST#: 4

ATTN: Jim R Baird

Test Start: 2010.11.20 @ 04:28:40

Tool Information

Drill Pipe:	Length: 3449.00 ft	Diameter: 3.80 inches	Volume: 48.38 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 44000.00 lb
		Total Volume:	48.98 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3585.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3566.00	
Shut In Tool	5.00			3571.00	
Hydraulic tool	5.00			3576.00	
Packer	4.00			3580.00	20.00 Bottom Of Top Packer
Packer	5.00			3585.00	
Stubb	1.00			3586.00	
Perforations	1.00			3587.00	
Recorder	0.00	6672	Inside	3587.00	
Recorder	0.00	8679	Outside	3587.00	
Perforations	13.00			3600.00	
Bullnose	3.00			3603.00	18.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 041003 DST#: 4

ATTN: Jim R Baird

Test Start: 2010.11.20 @ 04:28:40

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	27 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

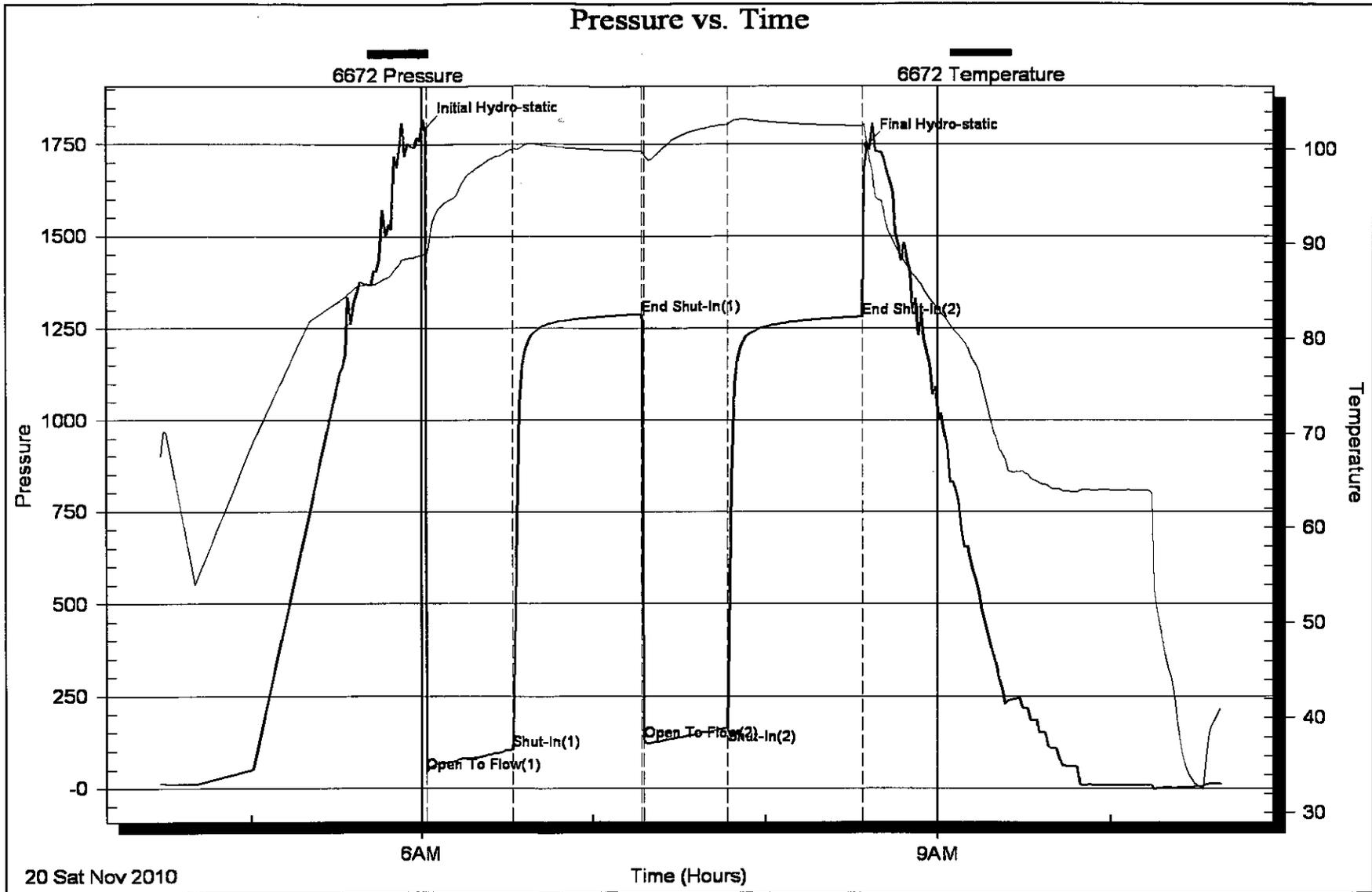
Length ft	Description	Volume bbl
434.00	Gassy Oil 10%G 90%O	4.977
122.00	HOCGM40%O10%G50%M	1.711
0.00	155 GIP	0.000

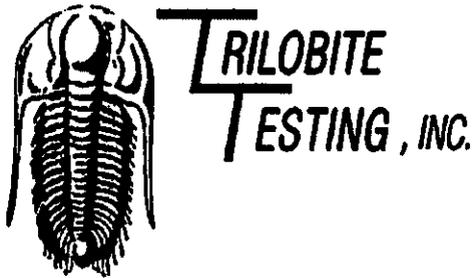
Total Length: 556.00 ft Total Volume: 6.688 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

Po Box 428
Logan KS 67646

ATTN: Jim R Baird

36-3s-22w Norton KS

Esslinger-Graham Unit 1-36

Start Date: 2010.11.20 @ 18:15:05

End Date: 2010.11.20 @ 23:57:05

Job Ticket #: 041004 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 041004 DST#: 5

ATTN: Jim R Baird

Test Start: 2010.11.20 @ 18:15:05

GENERAL INFORMATION:

Formation: LKC-J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:54:05

Time Test Ended: 23:57:05

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: 3649.00 ft (KB) To 3687.00 ft (KB) (TVD)

Total Depth: 3687.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2302.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 36.43 psig @ 3655.00 ft (KB)

Start Date: 2010.11.20

End Date:

2010.11.20

Start Time: 18:15:06

End Time:

23:57:05

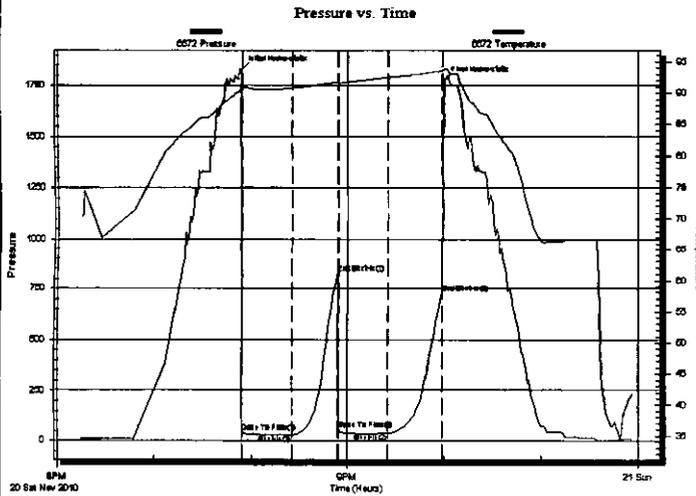
Capacity: 8000.00 psig

Last Calib.: 2010.11.21

Time On Btm: 2010.11.20 @ 19:53:35

Time Off Btm: 2010.11.20 @ 21:59:35

TEST COMMENT: IFF-Weak blow built to 2 1/4 in
ISI-Dead no blow back
FFP-Weak blow built to 1 3/4 in
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.09	91.14	Initial Hydro-static
1	43.02	90.89	Open To Flow (1)
32	28.52	90.83	Shut-In(1)
61	828.63	91.79	End Shut-In(1)
61	59.86	91.41	Open To Flow (2)
92	36.43	92.51	Shut-In(2)
125	727.80	93.56	End Shut-In(2)
126	1775.85	93.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M0G030%M20%G50%O	0.02
58.00	O0M25%O 75%M	0.29

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

ATTN: Jim R Baird

Job Ticket: 041004 **DST#: 5**

Test Start: 2010.11.20 @ 18:15:05

Tool Information

Drill Pipe:	Length: 3512.00 ft	Diameter: 3.80 inches	Volume: 49.26 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 44000.00 lb
		Total Volume:	49.86 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3649.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3630.00	
Shut In Tool	5.00			3635.00	
Hydraulic tool	5.00			3640.00	
Packer	4.00			3644.00	20.00 Bottom Of Top Packer
Packer	5.00			3649.00	
Stubb	1.00			3650.00	
Perforations	5.00			3655.00	
Recorder	0.00	6672	Inside	3655.00	
Recorder	0.00	8679	Outside	3655.00	
Perforations	29.00			3684.00	
Bullnose	3.00			3687.00	38.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 041004 DST#: 5

ATTN: Jim R Baird

Test Start: 2010.11.20 @ 18:15:05

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: 97.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

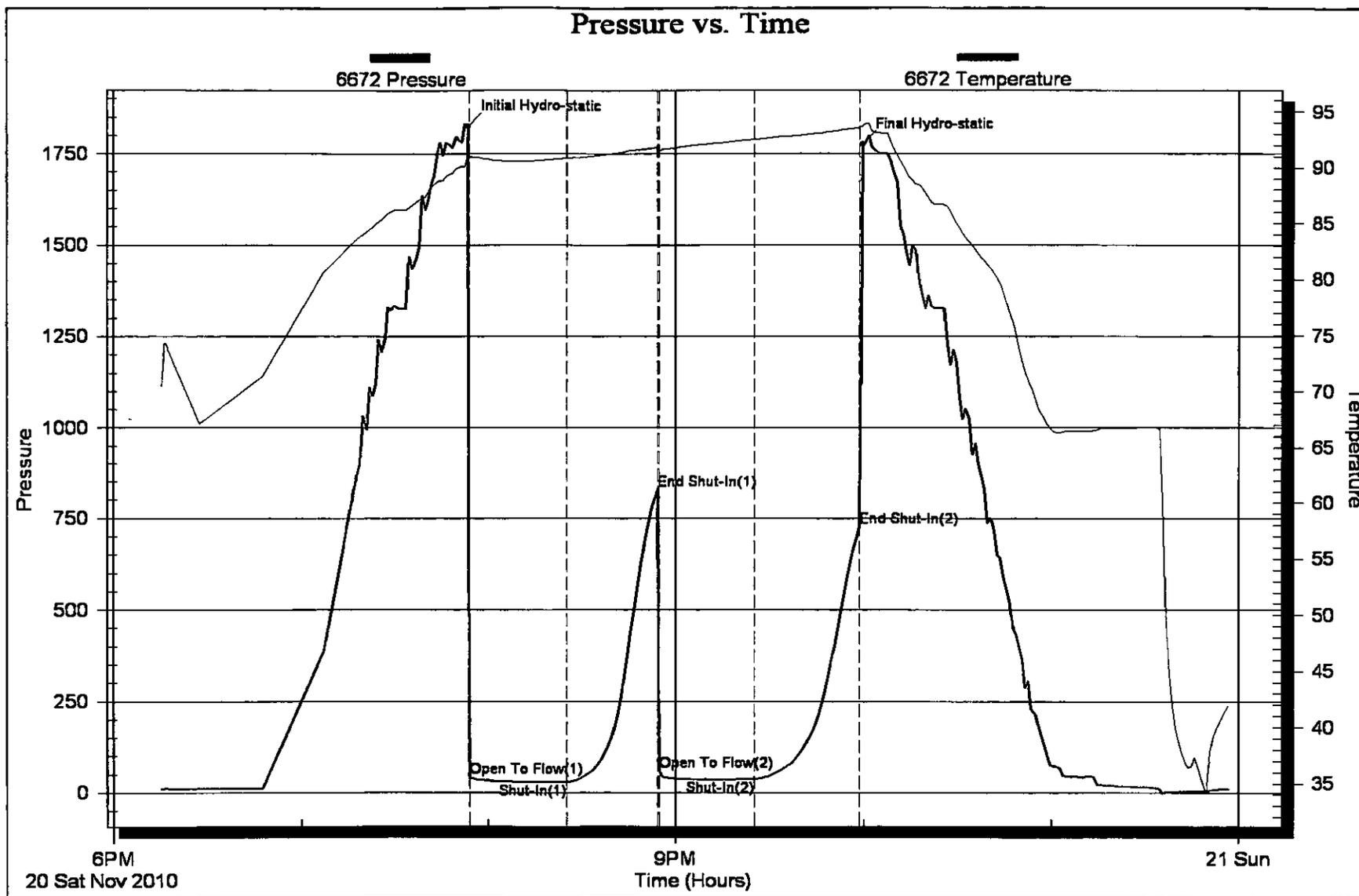
Length ft	Description	Volume bbl
5.00	MCGO30%M20%G50%O	0.025
58.00	OCM25%O 75%M	0.285

Total Length: 63.00 ft Total Volume: 0.310 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

Po Box 428
Logan KS 67646

ATTN: Jim R Baird

36-3s-22w Norton KS

Esslinger-Graham Unit 1-36

Start Date: 2010.11.21 @ 18:30:51

End Date: 2010.11.21 @ 23:46:51

Job Ticket #: 041005 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 041005 DST#: 6

ATTN: Jim R Baird

Test Start: 2010.11.21 @ 18:30:51

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:58:51

Time Test Ended: 23:46:51

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: **3713.00 ft (KB) To 3780.00 ft (KB) (TVD)**

Total Depth: 3780.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2302.00 ft (KB)

2297.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 64.52 psig @ 3752.00 ft (KB)

Start Date: 2010.11.21

End Date: 2010.11.21

Start Time: 18:30:52

End Time: 23:46:51

Capacity: 8000.00 psig

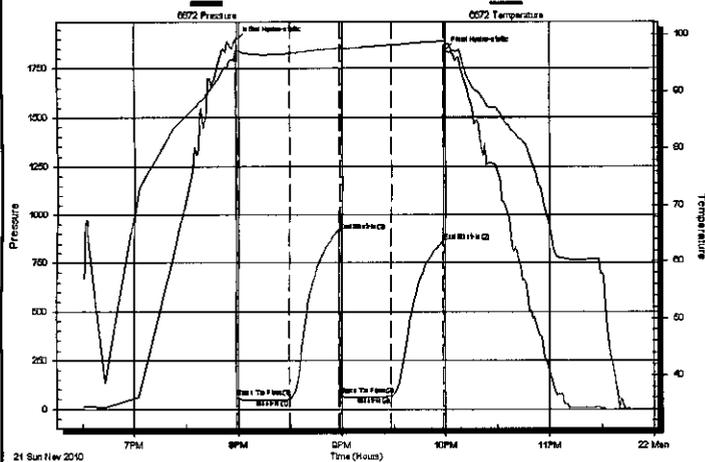
Last Calib.: 2010.11.21

Time On Btm: 2010.11.21 @ 19:58:21

Time Off Btm: 2010.11.21 @ 21:59:21

TEST COMMENT: IFP-Weak b.ow built to 2 1/4 in
ISI-Dead
FFP-Weak blow built to 1 in
FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1894.62	97.41	Initial Hydro-static
1	59.85	97.07	Open To Flow (1)
31	49.73	96.68	Shut-In(1)
60	914.36	97.54	End Shut-In(1)
61	71.65	97.36	Open To Flow (2)
90	64.52	98.04	Shut-In(2)
120	861.59	98.75	End Shut-In(2)
121	1840.52	98.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
59.00	VSOVM2%O98%M	0.29

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 041005 **DST#: 6**

ATTN: Jim R Baird

Test Start: 2010.11.21 @ 18:30:51

Tool Information

Drill Pipe:	Length: 3575.00 ft	Diameter: 3.80 inches	Volume: 50.15 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 44000.00 lb
		Total Volume: 50.75 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3713.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	87.00 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			3694.00	
Shut In Tool	5.00			3699.00	
Hydraulic tool	5.00			3704.00	
Packer	4.00			3708.00	20.00 Bottom Of Top Packer
Packer	5.00			3713.00	
Stubb	1.00			3714.00	
Perforations	5.00			3719.00	
Change Over Sub	1.00			3720.00	
Drill Pipe	31.00			3751.00	
Change Over Sub	1.00			3752.00	
Recorder	0.00	6672	Inside	3752.00	
Recorder	0.00	8679	Outside	3752.00	
Perforations	25.00			3777.00	
Bullnose	3.00			3780.00	67.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger-Graham Unit 1-36

Po Box 428
Logan KS 67646

36-3s-22w Norton KS

Job Ticket: 041005 **DST#: 6**

ATTN: Jim R Baird

Test Start: 2010.11.21 @ 18:30:51

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: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	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
59.00	VSOCM2%O98%M	0.290

Total Length: 59.00 ft Total Volume: 0.290 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

