

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

1-11/09

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 32819
Name: Baird Oil Company, LLC
Address: P.O. Box 428
City/State/Zip: Logan, KS 67646
Purchaser: N/A
Operator Contact Person: Jim R. Baird
Phone: (785) 689-7456
Contractor: Name: W W Drilling, LLC
License: 33575
Wellsite Geologist: Richard Bell

KCC
JAN 11 2007
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Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

December 10, 2006	December 15, 2006	January 5, 2007
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 065-23256-0000
County: Graham
NE SW SW Sec. 12 Twp. 7 S. R. 22 East West
1120 feet from S N (circle one) Line of Section
720 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Esther Worcester Well #: 1-12 SWD
Field Name: Wildcat
Producing Formation: N/A
Elevation: Ground: 2189' Kelly Bushing: 2194'
Total Depth: 3730' Plug Back Total Depth: 1766'
Amount of Surface Pipe Set and Cemented at 209 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set N/A Feet
If Alternate II completion, cement circulated from N/A
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan SWD NH 12-24-08
(Data must be collected from the Reserve Pit)
Chloride content 1600 ppm Fluid volume 200 bbls
Dewatering method used Fluids hauled offsite
Location of fluid disposal if hauled offsite:
Operator Name: Baird Oil Company, LLC
Lease Name: Schoeller License No.: 32819
Quarter SE Sec. 19 Twp. 7 S. R. 19 East West
County: Rooks Docket No.: D-22443

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Jim R. Baird
Title: President Date: January 11, 2007
Subscribed and sworn to before me this 11th day of JANUARY,
20 07.
Notary Public: Andrew C. Noone
Date Commission Expires: Sept. 14, 2010

KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

RECEIVED
KANSAS CORPORATION COMMISSION
JAN 12 2007

ANDREW C. NOONE
State of Kansas
My Appt. Exp. 9-14-2010

CONSERVATION DIVISION
WICHITA, KS

Operator Name: Baird Oil Company, LLC Lease Name: Esther Worcester Well #: 1-12 SWD
 Sec. 12 Twp. 7 S. R. 22 East West County: Graham

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy)

List All E. Logs Run:

Radiation Guard Log

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Anhydrite	1788	+406
Topeka	3187	-993
Heebner	3391	-1197
Toronto	3414	-1220
Lansing	3430	-1236
BKC	3618	-1424
Marmaton	3655	-1463
LTD	3730	-1556

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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	13 1/4"	8 5/8"	24 lbs/ft	209'	Standard	150 sks	3% cc, 2% gel
Production	7 7/8"	5 1/2"	14 lbs/ft	1807'	Standard/Poz Mix	275 sks	18% cc, 1/2% CFR-1

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1 per foot	1464' - 1514' One shot per foot.		1464'-1514'

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	1416'	1414'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			Producing Method		
			<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	N/A	N/A	N/A		

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

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KANSAS CORPORATION COMMISSION
JAN 12 2007
CONSERVATION DIVISION
WICHITA, KS



P. O. Box 466
 Ness City, KS 67560
 Off: 785-798-2300

Invoice

DATE	INVOICE #
12/16/2006	11203

BILL TO
Baird Oil Company LLC PO Box 428 Logan, KS 67646

- Acidizing
- Cement
- Tool Rental

KCC
 JAN 11 2007
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TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-12	Esther Worce...	Graham	WW Drilling #4	Disposal	Development	5-1/2" LongString	Dave
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	4.00	280.00
578D-L	Pump Charge - Long String				1	Job	1,250.00	1,250.00
221	Liquid KCL (Clayfix)				2	Gallon(s)	26.00	52.00
290	D-Air				3	Gallon(s)	32.00	96.00
402-5	5 1/2" Centralizer				4	Each	80.00	320.00
403-5	5 1/2" Cement Basket				2	Each	280.00	560.00
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	235.00	235.00
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	310.00	310.00
330	Swift Multi-Density Standard (MIDCON II)				275	Sacks	13.50	3,712.50
276	Flöcele				68	Lb(s)	1.25	85.00
581D	Service Charge Cement				275	Sacks	1.10	302.50
583D	Drayage				961.03	Ton Miles	1.00	961.03
	Subtotal							8,164.03

R 12/21/2006
 P 12/21/2006
 EmWorce 190402 8164.03
 Esther Worcester 1-12 SWD - Pump charge,
 Cement & other misc expenses
 used to cement production casing

RECEIVED
 KANSAS CORPORATION COMMISSION
 JAN 12 2007
 CONSERVATION DIVISION
 WICHITA, KS

Thank You For Your Business & Best Wishes For A Wonderful Holiday Season!!	Total \$8,164.03
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P. O. Box 466
 Ness City, KS 67560
 Off: 785-798-2300



Invoice

DATE	INVOICE #
12/10/2006	11326

BILL TO
Baird Oil Company LLC PO Box 428 Logan, KS 67646

- Acidizing
- Cement
- Tool Rental

KCC
 JAN 11 2007
CONFIDENTIAL

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-12	Esther Worces...	Graham	WW Drilling #6	Oil	Development	Cement Surface ...	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				60	Miles	4.00	240.00
576W-S	Pump Charge - Shallow Surface (< 500 Ft.) - 209 Feet				1	Job	750.00	750.00
410-8	8 5/8" Top Plug				1	Each	100.00	100.00
325	Standard Cement				150	Sacks	11.00	1,650.00
278	Calcium Chloride				4	Sack(s)	40.00	160.00
279	Bentonite Gel				3	Sack(s)	15.00	45.00
581D	Service Charge Cement				150	Sacks	1.10	165.00
583D	Drayage				441.6	Ton Miles	1.00	441.60
	Subtotal							3,551.60

R 12/13/2006
 P 12/13/2006
 Em. Worces 19,040.2 3551.60
 Esther Worcester 1-12 Pump Charge,
 Cement & other misc. used to cement
 surface casing.

Thank You For Your Business & Best Wishes For A Wonderful Holiday Season!!

Total RECEIVED \$3,551.60

KANSAS CORPORATION COMMISSION

JAN 12 2007

CONSERVATION DIVISION
 WICHITA, KS

1-11-09

Baird Oil Company, LLC

P.O. Box 428
Logan, KS 67646
785-689-7456

KCC
JAN 11 2007
CONFIDENTIAL

January 11, 2007

Dear folks,

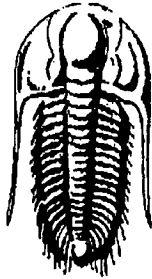
Please find the enclosed ACO-1 Form and all attachments for Baird Oil Company's Esther Worcester 1-12 SWD well; API #: 15-065-23256-0000. Please keep this record confidential for the longest period of time allowable. If there are any questions, feel free to contact us. Thank you for your time.

Sincerely,



Andrew C. Noone
Baird Oil Company

RECEIVED
KANSAS CORPORATION COMMISSION
JAN 12 2007
CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

12 7S 22W Graham KS

Esther-Worcester #1-12

Start Date: 2006.12.13 @ 17:46:15

End Date: 2006.12.13 @ 23:48:05

Job Ticket #: 26066 DST #: 1

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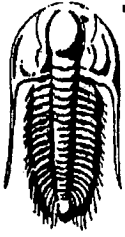
11-9-2008

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 24 2008

CONSERVATION DIVISION
WICHITA, KS

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 Company LLC

Esther-Worcester #1-12

PO Box 428
Logan KS 67646

12 7S 22W Graham KS

ATTN: Richard Bell

Job Ticket: 26066 DST#: 1

Test Start: 2006.12.13 @ 17:46:15

GENERAL INFORMATION:

Formation: **L-KC "C"**

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

Time Tool Opened: 19:23:05

Time Test Ended: 23:48:05

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **22**

Interval: **3450.00 ft (KB) To 3472.00 ft (KB) (TVD)**

Total Depth: **3472.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2194.00 ft (KB)**

2189.00 ft (CF)

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

Serial #: 6799

Inside

Press@RunDepth: **143.72 psig @ 3451.00 ft (KB)**

Start Date: **2006.12.13**

End Date:

2006.12.13

Capacity: **7000.00 psig**

Last Calib.: **2006.12.14**

Start Time: **17:46:17**

End Time:

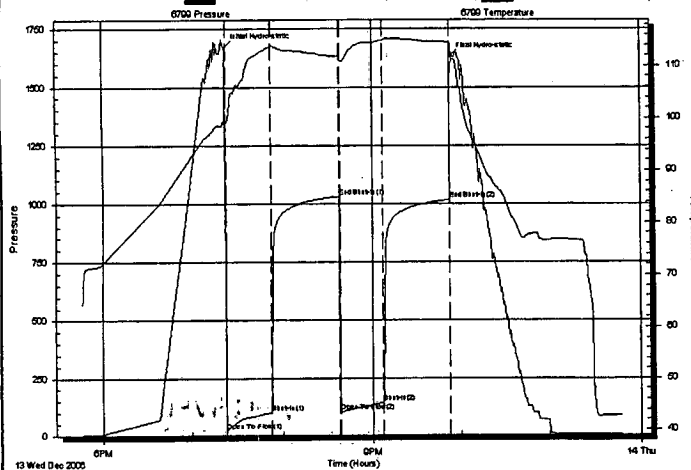
23:48:04

Time On Btm: **2006.12.13 @ 19:22:45**

Time Off Btm: **2006.12.13 @ 21:52:55**

TEST COMMENT: IF Fairly strong blow BOB, 22 minutes
ISI Bled off no blow back
FF Fair blow building to 9.5" in bucket
FSI Bled off no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1671.28	99.53	Initial Hydro-static
1	18.41	99.01	Open To Flow (1)
31	102.44	113.66	Shut-In(1)
76	1031.52	111.77	End Shut-In(1)
76	103.72	111.26	Open To Flow(2)
105	143.72	114.94	Shut-In(2)
150	1017.06	114.58	End Shut-In(2)
151	1628.97	114.78	Final Hydro-static

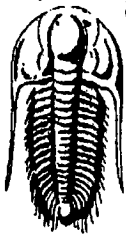
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Recovery

Length (ft)	Description	Volume (bbl)
218.00	Salt Water 100%W	1.96
120.00	SOSMCW 1%O 19%M 80%W	1.68
2.00	Oil 100%O	0.03
0.00	Chlorides = 60,500 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company LLC

Esther-Worcester #1-12

PO Box 428
Logan KS 67646

12 7S 22W Graham KS

ATTN: Richard Bell

Job Ticket: 26066

DST#: 1

Test Start: 2006.12.13 @ 17:46:15

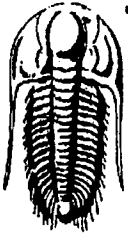
Tool Information

Drill Pipe:	Length: 3314.00 ft	Diameter: 3.80 inches	Volume: 46.49 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.08 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3450.00 ft			Final 43000.00 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
Shut In Tool	5.00			3435.00	
Hydraulic tool	5.00			3440.00	
Packer	5.00			3445.00	20.00 Bottom Of Top Packer
Packer	5.00			3450.00	
Stubb	1.00			3451.00	
Recorder	0.00	6799	Inside	3451.00	
Perforations	18.00			3469.00	
Recorder	0.00	3354	Outside	3469.00	
Bullnose	3.00			3472.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Esther-Worcester #1-12

PO Box 428
Logan KS 67646

12 7S 22W Graham KS

Job Ticket: 26066

DST#: 1

ATTN: Richard Bell

Test Start: 2006.12.13 @ 17:46:15

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: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 0.07 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
218.00	Salt Water 100%W	1.965
120.00	SOSMCW 1%O 19%M 80%W	1.683
2.00	Oil 100%O	0.028
0.00	Chlorides = 60,500 ppm	0.000

Total Length: 340.00 ft Total Volume: 3.676 bbf

Num Fluid Samples: 0

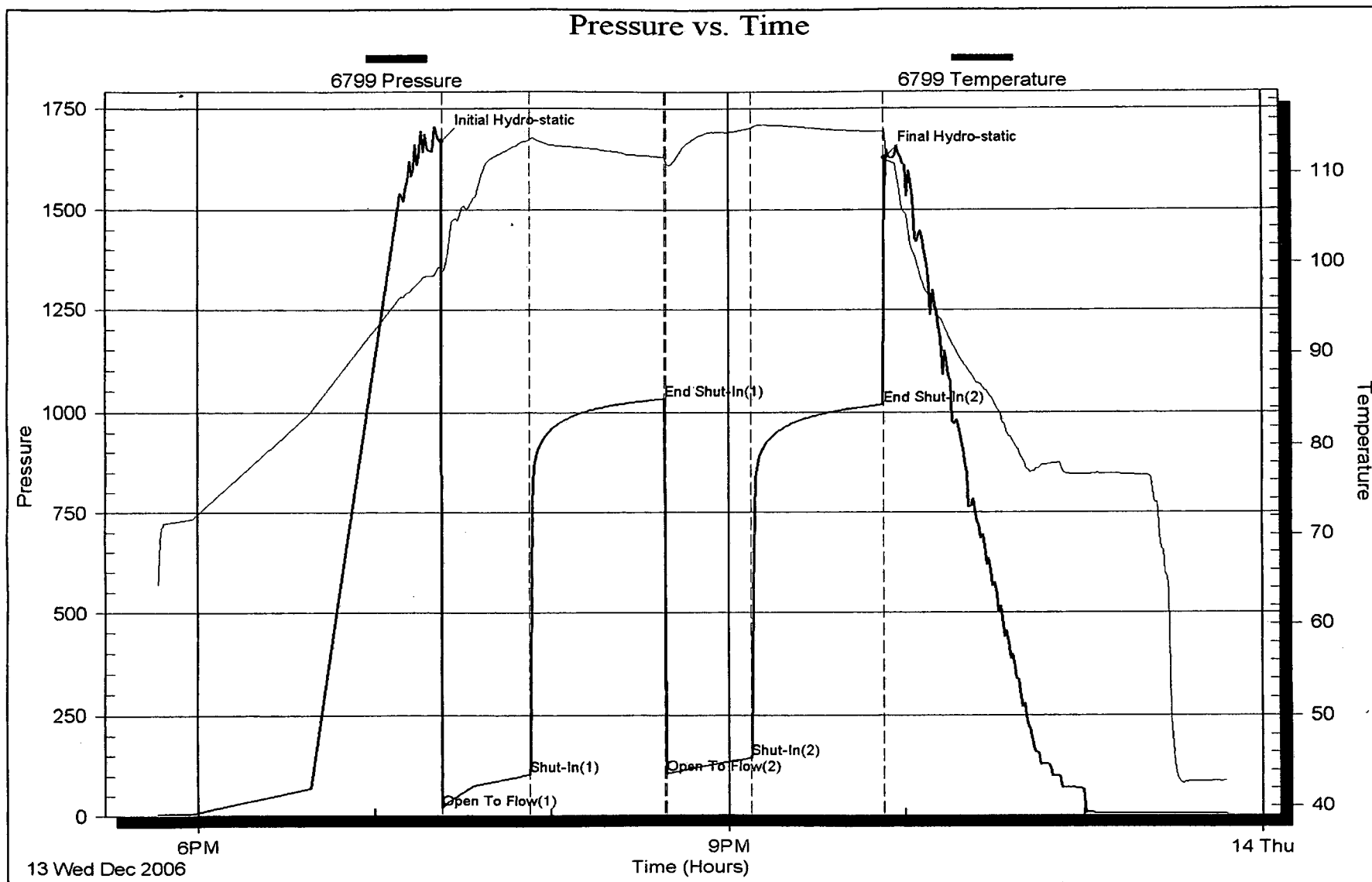
Num Gas Bombs: 0

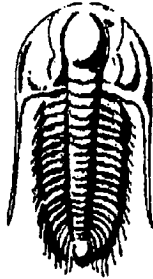
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

12 7S 22W Graham KS

Esther-Worcester #1-12

Start Date: 2006.12.14 @ 09:13:35

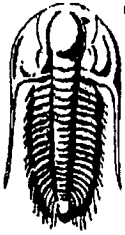
End Date: 2006.12.14 @ 15:21:44

Job Ticket #: 26067 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 Company LLC

Esther-Worcester #1-12

PO Box 428
Logan KS 67646

12 7S 22W Graham KS

ATTN: Richard Bell

Job Ticket: 26067

DST#: 2

Test Start: 2006.12.14 @ 09:13:35

GENERAL INFORMATION:

Formation: **L-KC "E-F"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 11:02:15
 Time Test Ended: 15:21:44

Test Type: **Conventional Bottom Hole**
 Tester: **Jake Fahrenbruch**
 Unit No: **22**

Interval: **3487.00 ft (KB) To 3510.00 ft (KB) (TVD)**
 Total Depth: **3510.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

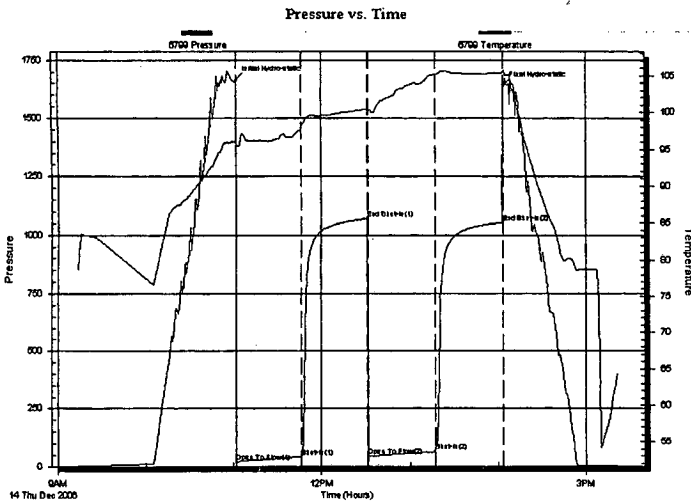
Reference Elevations: **2194.00 ft (KB)**
2189.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6799 Inside

Press@RunDepth: **64.65 psig @ 3488.00 ft (KB)**
 Start Date: **2006.12.14** End Date: **2006.12.14**
 Start Time: **09:13:37** End Time: **15:21:45**

Capacity: **7000.00 psig**
 Last Calib.: **2006.12.14**
 Time On Btm: **2006.12.14 @ 11:02:05**
 Time Off Btm: **2006.12.14 @ 14:03:24**

TEST COMMENT: IF Weak blow building to 3" in bucket
 ISI Bled off very weak blow back by end of shut in period
 FF Weak blow building to 1" in bucket
 FSI Bled off no blow back



PRESSURE SUMMARY

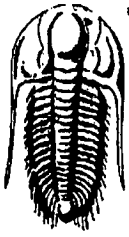
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.11	96.02	Initial Hydro-static
1	20.69	95.38	Open To Flow (1)
45	42.98	98.04	Shut-In(1)
90	1070.55	100.45	End Shut-In(1)
90	44.61	100.16	Open To Flow(2)
135	64.65	105.23	Shut-In(2)
181	1054.86	105.35	End Shut-In(2)
182	1640.07	105.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	VSWCM 2%W 98%M	0.47

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company LLC

Esther-Worcester #1-12

PO Box 428
Logan KS 67646

12 7S 22W Graham KS

Job Ticket: 26067

DST#: 2

ATTN: Richard Bell

Test Start: 2006.12.14 @ 09:13:35

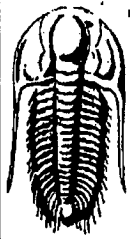
Tool Information

Drill Pipe:	Length: 3375.00 ft	Diameter: 3.80 inches	Volume: 47.34 bbl	Tool Weight: 2100.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 47.93 bbl		Tool Chased 2.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3487.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 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			3472.00	
Hydraulic tool	5.00			3477.00	
Packer	5.00			3482.00	20.00 Bottom Of Top Packer
Packer	5.00			3487.00	
Stubb	1.00			3488.00	
Recorder	0.00	6799	Inside	3488.00	
Perforations	19.00			3507.00	
Recorder	0.00	3354	Outside	3507.00	
Bullnose	3.00			3510.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Esther-Worcester #1-12

PO Box 428
Logan KS 67646

12 7S 22W Graham KS

Job Ticket: 26067

DST#: 2

ATTN: Richard Bell

Test Start: 2006.12.14 @ 09:13:35

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:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2900.00 ppm			
Filter Cake: 0.07 inches			

Recovery Information

Recovery Table

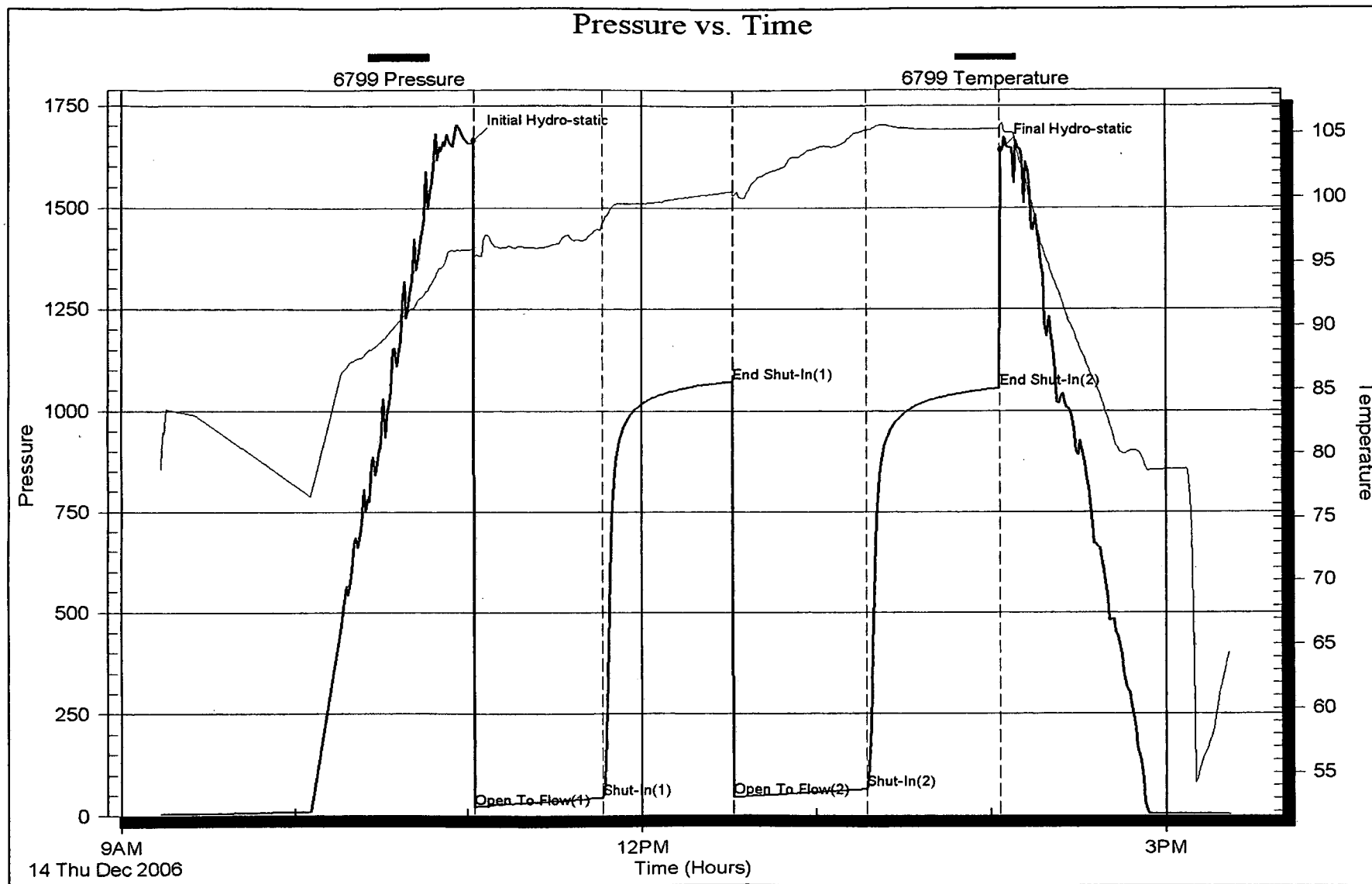
Length ft	Description	Volume bbl
95.00	VSWCM 2%W 98%M	0.467

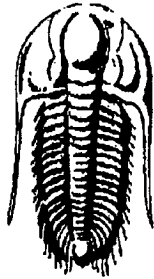
Total Length: 95.00 ft Total Volume: 0.467 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

12 7S 22W Graham KS

Esther-Worcester #1-12

Start Date: 2006.12.15 @ 01:38:02

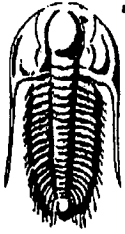
End Date: 2006.12.15 @ 08:18:41

Job Ticket #: 26068 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 Company LLC

Esther-Worcester #1-12

PO Box 428
Logan KS 67646

12 7S 22W Graham KS

ATTN: Richard Bell

Job Ticket: 26068

DST#: 3

Test Start: 2006.12.15 @ 01:38:02

GENERAL INFORMATION:

Formation: **L-KC "I&J"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: **03:49:42**
 Time Test Ended: **08:18:41**

Test Type: **Conventional Bottom Hole**
 Tester: **Jake Fahrenbruch**
 Unit No: **22**

Interval: **3565.00 ft (KB) To 3598.00 ft (KB) (TVD)**
 Total Depth: **3598.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2194.00 ft (KB)**
2189.00 ft (CF)
 KB to GR/CF: **5.00 ft**

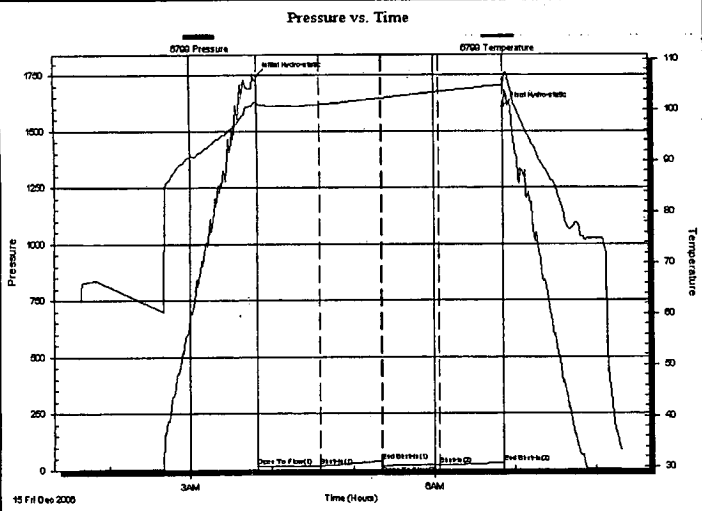
Serial #: 6799

Inside

Press@RunDepth: **19.18 psig @ 3566.00 ft (KB)**
 Start Date: **2006.12.15** End Date: **2006.12.15**
 Start Time: **01:38:04** End Time: **08:18:42**

Capacity: **7000.00 psig**
 Last Calib.: **2006.12.15**
 Time On Btm: **2006.12.15 @ 03:49:32**
 Time Off Btm: **2006.12.15 @ 06:51:32**

TEST COMMENT: IF Weak blow built to 1" in 30 min died by end of flow period
 ISI Bled off no blow back
 FF No blow
 FSI No blow back



PRESSURE SUMMARY

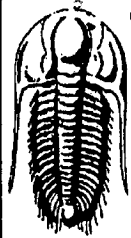
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.21	101.73	Initial Hydro-static
1	16.72	101.19	Open To Flow (1)
47	17.83	101.07	Shut-In(1)
92	39.83	102.32	End Shut-In(1)
92	17.84	102.33	Open To Flow (2)
135	19.18	103.60	Shut-In(2)
182	30.71	104.88	End Shut-In(2)
183	1606.82	105.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company LLC

Esther-Worcester #1-12

PO Box 428
Logan KS 67646

12 7S 22W Graham KS

ATTN: Richard Bell

Job Ticket: 26068

DST#: 3

Test Start: 2006.12.15 @ 01:38:02

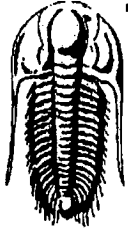
Tool Information

Drill Pipe:	Length: 3438.00 ft	Diameter: 3.80 inches	Volume: 48.23 bbl	Tool Weight: 2100.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3565.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	53.00 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			3550.00	
Hydraulic tool	5.00			3555.00	
Packer	5.00			3560.00	20.00 Bottom Of Top Packer
Packer	5.00			3565.00	
Stubb	1.00			3566.00	
Recorder	0.00	6799	Inside	3566.00	
Perforations	29.00			3595.00	
Recorder	0.00	3354	Outside	3595.00	
Bullnose	3.00			3598.00	33.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company LLC

Esther-Worcester #1-12

PO Box 428
Logan KS 67646

12 7S 22W Graham KS

Job Ticket: 26068

DST#: 3

ATTN: Richard Bell

Test Start: 2006.12.15 @ 01:38:02

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: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2900.00 ppm			
Filter Cake: 0.07 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig Mud	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:

