

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
October 2008  
Form Must Be Typed

6/10/12

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32819  
Name: Baird Oil Company, LLC  
Address 1: PO Box 428  
Address 2: \_\_\_\_\_  
City: Logan State: KS Zip: 67646 + \_\_\_\_\_  
Contact Person: Jim R. Baird  
Phone: ( 785 ) 689-7456

KCC

JUN 10 2010

CONFIDENTIAL

API No. 15 - 065-23641-00-00

Spot Description: \_\_\_\_\_

NW NW SE SE Sec. 1 Twp. 7 S. R. 22  East  West

1150 Feet from  North /  South Line of Section

1070 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

CONTRACTOR: License # 33575

RECEIVED  
KANSAS CORPORATION COMMISSION

County: Graham

Name: WW Drilling, LLC

Lease Name: David Worcester Well #: 1-1

Wellsite Geologist: Richard Bell

JUN 11 2010

Field Name: Wildcat

Purchaser: Coffeyville Resources

CONSERVATION DIVISION  
WICHITA, KS

Producing Formation: \_\_\_\_\_

Designate Type of Completion:

Elevation: Ground: 2261 Kelly Bushing: 2266

New Well  Re-Entry  Workover

Total Depth: 3822 Plug Back Total Depth: \_\_\_\_\_

Oil  SWD  SIOW

Amount of Surface Pipe Set and Cemented at: 206 Feet

Gas  ENHR  SIGW

Multiple Stage Cementing Collar Used?  Yes  No

CM (Coal Bed Methane)  Temp. Abd.

If yes, show depth set: \_\_\_\_\_ Feet

Dry  Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, etc.)

If Alternate II completion, cement circulated from: \_\_\_\_\_

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

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Operator: \_\_\_\_\_

Drilling Fluid Management Plan PANJLE 7810  
(Data must be collected from the Reserve Pit)

Well Name: \_\_\_\_\_

Chloride content: 1900 ppm Fluid volume: 500 bbls

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Dewatering method used: Evaporation

Deepening  Re-perf.  Conv. to Enhr.  Conv. to SWD

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_

Commingled Docket No.: \_\_\_\_\_

Dual Completion Docket No.: \_\_\_\_\_

Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_

April 19, 2010 April 25, 2010 April 26, 2010

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

**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: 6/10/2010

Subscribed and sworn to before me this 10<sup>th</sup> day of JUNE

Notary Public: Robert B. Hartman

Date Commission Expires: 3/29/11

KCC Office Use ONLY

Letter of Confidentiality Received 6/10/10

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ROBERT B. HARTMAN  
State of Kansas  
My Appt. Exp. 3/29/11

Operator Name: Baird Oil Company, LLC

Lease Name: David Worcester

Well #: 1-1

Sec. 1 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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1864	+402
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	3270	-1004
List All E. Logs Run:		Heebner	3469	-1203
<b>RAG</b>		Toronto	3492	-1226
		Lansing	3509	-1243
		BKC	3698	-1432
		TD	3822	-1556

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	12 1/4"	8 5/8"	24	206	Standard	150	3%cc,2%get

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	<input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	------------	--

Date of First, Resumed Production, SWD or Enhr. <b>May 22, 2010</b>	Producing Method:	<input type="checkbox"/> Flowing	<input type="checkbox"/> Pumping	<input type="checkbox"/> Gas Lift	<input type="checkbox"/> Other <i>(Explain)</i>
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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# SWIFT



Services, Inc.

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



## Invoice

DATE	INVOICE #
4/19/2010	17564

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

- Acidizing
- Cement
- Tool Rental

**KCC**  
JUN 12 2010  
CONFIDENTIAL

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-1	David Worces...	Graham	WW Drilling #8	Oil	Development	Surface	Dave

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	5.00	350.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)	1	Job	750.00	750.00
290	D-Air	1	Gallon(s)	35.00	35.00
325	Standard Cement	150	Sacks	12.00	1,800.00
278	Calcium Chloride	4	Sack(s)	35.00	140.00
279	Bentonite Gel	3	Sack(s)	25.00	75.00
581D	Service Charge Cement	150	Sacks	1.50	225.00
583D	Drayage	515.2	Ton Miles	1.00	515.20
	Subtotal				3,890.20

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JUN 11 2010

CONSERVATION DIVISION  
WICHITA, KS

R4/22/2010  
P4/22/2010

D Worces 190402 3890.20  
David worcester 1-1 - Pump  
Charge, cement + other misc  
used to cement surface casing

4/22/2010  
CK#19702

**We Appreciate Your Business!**

**Total**

\$3,890.20



CHARGE TO: BAIRO OIL

ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP CODE: \_\_\_\_\_

KCC  
JUN 12 2010  
CONFIDENTIAL

TICKET  
17564

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>HAYS</u>	WELL/PROJECT NO. <u>1-1</u>	LEASE <u>DAVID WORCESTER</u>	COUNTY/PARISH <u>GRAHAM</u>	STATE <u>KS</u>	CITY	DATE <u>04-19-10</u>	OWNER
2. <u>NESS CITY</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>WWD/RIG 48</u>	SHIPPED VIA <u>GT</u>	DELIVERED TO <u>8017 E. 15th HALL CITY KS</u>	ORDER NO.	
3.	WELL TYPE <u>DIL</u>	WELL CATEGORY <u>DEVELOP</u>	JOB PURPOSE <u>SURFACE</u>	WELL PERMIT NO. <u>15-085-23641</u>	WELL LOCATION <u>S1 T 7 R 22</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #112	70		mi		5.00	350.00
576s		1			PUMP SERVICE	1		EA		750.00	750.00
290		1			DAIR	1		GAZ		35.00	35.00
325		2			570 CMT	150		SH		12.00	1800.00
278		2			CALCIUM CHLORIDE	4		SH		35.00	140.00
279		2			BENTONITE GEL	3		SH		25.00	75.00
581		2			SERVICE CHG CMT	150		SH		1.50	225.00
583		2			DRAYAGE	515.2		Tm		1.00	515.20

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KANSAS CORPORATION COMMISSION  
JUN 11 2010  
CONSERVATION DIVISION  
WICHITA, KS

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X

DATE SIGNED: 04-19-10 TIME SIGNED: 1600  A.M.  P.M.

**REMIT PAYMENT TO:**

**SWIFT SERVICES, INC.**  
P.O. BOX 466  
NESS CITY, KS 67560  
785-798-2300

<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE	<b>PAGE TOTAL</b>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				3890.00
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?				
<input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				
				<b>TOTAL</b>
				3890.20

SWD d/or TAX  
/ynjo Well



CUSTOMER BAIRD OIL

WELL NO. 1-1

LEASE DAN WORCESTER

JOB TYPE SURFACE

TICKET NO. 17564

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1600							ON LOCATION CMT: 150SAS STD. 2 1/2 GEL, 3 1/2 CC 12 1/4 HOLE 207 8 5/8 2 1/4 206
	1620							START 8 5/8 W HOLE
	1710							BREAK CIRC W/ RIG
	1720	5.0	2.0		✓		200	H2O SPACE
			36.5		✓			CMT
			0		✓			START DISP
			8.0		✓			CIRC CMT
	1730		12.1		✓			END CLOSE IN
								KCC JUN 12 2010 CONFIDENTIAL
	1800							JOB COMPLETE  THANK YOU! DAVE JOHNS, BRANDE

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JUN 11 2010  
CONSERVATION DIVISION  
WICHITA, KS

# SWIFT



Services, Inc.

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



## Invoice

DATE	INVOICE #
4/25/2010	17490

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

**KCC**  
JUN 12 2010  
CONFIDENTIAL

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-1	David Worch...	Graham	WW Drilling	Oil	Development	PTA	Don

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	5.00	350.00
576D-P	Pump Charge - PTA - 3770 Feet	1	Job	750.00	750.00
410-8	8 5/8" Top Plug	1	Each	100.00	100.00
290	D-Air	3	Gallon(s)	35.00	105.00
328-4	60/40 Pozmix (4% Gel)	230		9.75	2,242.50
276	Flocele	58	Lb(s)	1.50	87.00
581D	Service Charge Cement	230	Sacks	1.50	345.00
583D	Drayage	678.5	Ton Miles	1.00	678.50
	Subtotal				4,658.00

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JUN 11 2010

CONSERVATION DIVISION  
WICHITA, KS

R4/27/2010

P4/27/2010

D Worces 190402 4658.00  
David worcester 1-1 - Pump charge,  
Cement + other misc expenses used  
to plug well

**We Appreciate Your Business!**

**Total**

\$4,658.00



CHARGE TO: Beard Oil Co.  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
17490

PAGE 1 OF 1

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1. <u>Hays, KS</u>	WELL/PROJECT NO. <u>1-1</u>	LEASE <u>David Worschaster</u>	COUNTY/PARISH <u>Graham</u>	STATE <u>KS</u>	CITY	DATE <u>4-25-10</u>	OWNER
2. <u>Ness City, KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>WW D&amp;G</u>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO <u>NE/Hills, KS</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Wildcat</u>	JOB PURPOSE <u>PTH - New Well</u>	WELL PERMIT NO. <u>#32819</u>	WELL LOCATION <u>1-75-22W</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #104	70		Mi		5.00	350.00
576 P		1			Pump Charge - PTA	1	3720	ft		750.00	750.00
410		1			Top Plug - Warden	1	85	in		100.00	100.00
290		1			D-AIR	3		gal		35.00	105.00
328 4		2			60/40 Pz, 4% gel	230	19327	lb		9.75	2242.50
276		2			Floacle	58		lb	1/4 #/sk	150	87.00
581		2			Service Charge - Cement	230	19385	lb		150	345.00
583		2				678.5		Tm		100	678.50

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CONSERVATION DIVISION  
WICHITA KS

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 4-25-10 TIME SIGNED: 1600

A.M.  
 P.M.

REMIT PAYMENT TO:  
  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	4658.00

SWD d/or TAX  
Synj. Well

OPER. *David Dil Co.*

WELL NO. *1-1*

LEASE *David Worcester*

JOB TYPE *PTA wellbore*

TICKET NO. *17490*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	THROW	CASING	
	1020							On location - Rig running D.P in hole
						4 1/2	110.6	Set up Trks - 230 SKS 60/40 Poz 4% Gel
	1055							D.P @ 3770' - Rig cir 20 min 44% SK Flt
	1115	4	10			100		1st Plug - H <sub>2</sub> O
		4	6 1/2			100		25 SKS 60/40 Poz, 4% Gel, 1/4" SK Flt
		4	4			100		H <sub>2</sub> O thru tub
		6	48					Rig pump 48 BBI Mud
	1140							1st Plug Complete - Pull D.P to 1880'
								D.P @ 1880' - Fill hole - Mud
	1315	4	10			100		2nd Plug - H <sub>2</sub> O
		4	6 1/2			100		25 SKS cont
		4	4			100		H <sub>2</sub> O thru tub
			20					Rig pump Mud - 20 BBI
	1325							2nd Plug Complete - Pull D.P to 1111'
	1355							D.P @ 1111' - Fill hole - Mud
		5	10			100		3rd Plug - H <sub>2</sub> O
		4 1/2	25			100		100 SKS cont
		4 1/2	5			100		H <sub>2</sub> O thru tub
	1405							3rd Plug Complete - Pull D.P to 256'
								D.P @ 256' - Fill hole
	1435	4	2 <del>2</del>			75		4th Plug - H <sub>2</sub> O
		4 1/2	10			75		40 SKS cont
		4	1			50		H <sub>2</sub> O
	1445							4th Plug Complete - Rig pull all D.P
								Fill hole to 40' - mud
								Push Top Plug down 40' 8 5/8
								Rig Pull RH.
			3					Plug 40' with 10 SKS cont
			8					Plug RH with 30 SKS cont
	1545							Job Complete
								Wakeup & Hookup

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JUN 11 2010

CONSERVATION DIVISION WICHITA, KS

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Thanks Alan, Doug & Steve





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan KS 67646

ATTN: Jim Baird

**1-7s-22w Graham KS**

**David Worcester #1-1**

Start Date: 2010.04.22 @ 21:18:15

End Date: 2010.04.23 @ 02:10:39

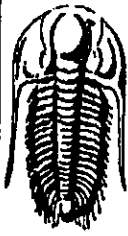
Job Ticket #: 38554                      DST #: 1

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**JUN 12 2010**  
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KANSAS CORPORATION COMMISSION

**JUN 11 2010**  
CONSERVATION DIVISION  
WICHITA, KS

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

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38554      DST#: 1

ATTN: Jim Baird

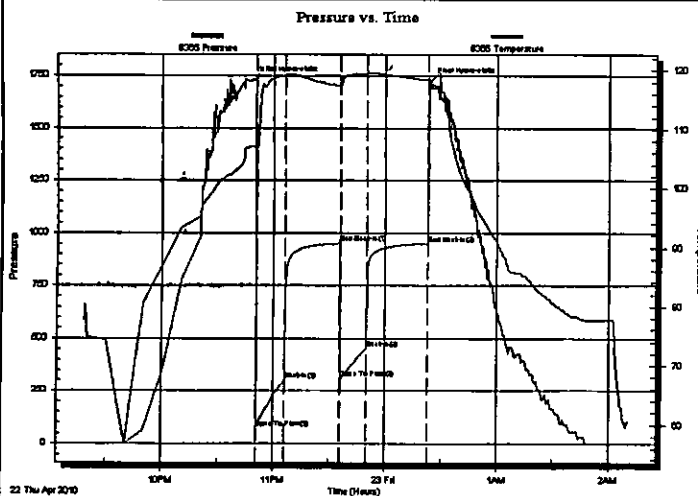
Test Start: 2010.04.22 @ 21:18:15

### GENERAL INFORMATION:

Formation: LKC "C"  
 Deviated: No Whipstock      ft (KB)  
 Time Tool Opened: 22:50:40  
 Time Test Ended: 02:10:39  
 Interval: 3525.00 ft (KB) To 3546.00 ft (KB) (TVD)  
 Total Depth: 3546.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 2266.00 ft (KB)  
 2261.00 ft (CF)  
 KB to GR/CF: 5.00 ft

Serial #: 8365      Inside  
 Press@RunDepth: 453.96 psig @ 3526.01 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.04.22      End Date: 2010.04.23      Last Calib.: 2010.04.23  
 Start Time: 21:18:15      End Time: 02:10:39      Time On Btm: 2010.04.22 @ 22:48:10  
 Time Off Btm: 2010.04.23 @ 00:23:40

TEST COMMENT: IFF-strg bl in 2min  
 FFP-strg bl in 3min  
 Times 15-30-15-30  
 no bl on shut-in



### PRESSURE SUMMARY

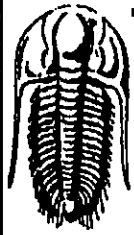
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.30	106.97	Initial Hydro-static
3	71.31	106.18	Open To Flow (1)
18	300.61	119.15	Shut-In(1)
48	950.95	117.47	End Shut-In(1)
48	311.71	117.15	Open To Flow (2)
62	453.96	119.45	Shut-In(2)
95	950.11	118.44	End Shut-In(2)
96	1721.97	117.55	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	60'GP	0.00
540.00	Water	6.48
240.00	Water w/show of oil	3.37
120.00	SOCMW 1%O20%M79%W	1.68

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Company LLC

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38554

DST#: 1

ATTN: Jim Baird

Test Start: 2010.04.22 @ 21:18:15

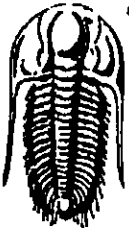
**Tool Information**

Drill Pipe:	Length: 3415.00 ft	Diameter: 3.80 inches	Volume: 47.90 bbl	Tool Weight: 2200.00 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: 55000.00 lb
			<u>Total Volume: 48.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3525.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.02 ft			
Tool Length:	42.02 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			3505.00	
Shut In Tool	5.00			3510.00	
Hydraulic tool	5.00			3515.00	
Packer	5.00			3520.00	21.00 Bottom Of Top Packer
Packer	5.00			3525.00	
Stubb	1.00			3526.00	
Recorder	0.01	8365	Inside	3526.01	
Recorder	0.01	6625	Outside	3526.02	
Perforations	17.00			3543.02	
Bullnose	3.00			3546.02	21.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.02</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company LLC

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38554

DST#: 1

ATTN: Jim Baird

Test Start: 2010.04.22 @ 21:18:15

## 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:

60000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.75 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	60'GP	0.000
540.00	Water	6.482
240.00	Water w/show of oil	3.367
120.00	SOCMW 1%O20%M79%W	1.683

Total Length: 900.00 ft

Total Volume: 11.532 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

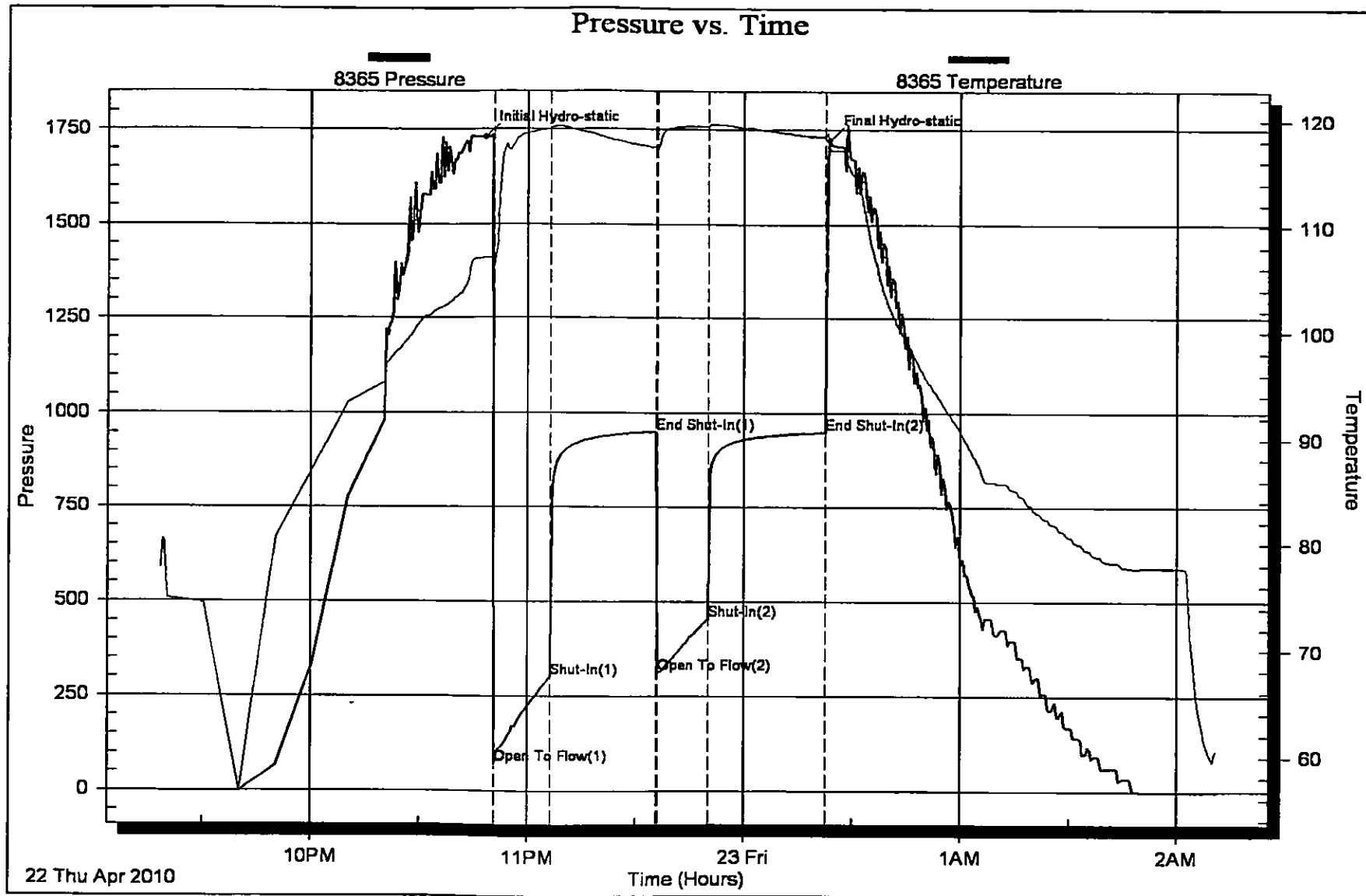
Serial #:

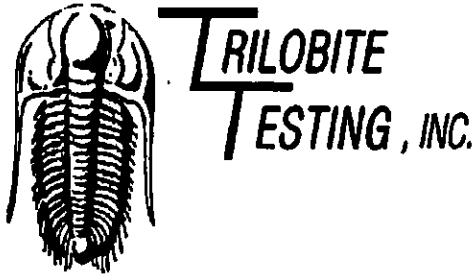
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .12 @ 73F







## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan KS 67646

ATTN: Jim Baird

**1-7s-22w Graham KS**

**David Worcester #1-1**

Start Date: 2010.04.23 @ 07:57:04

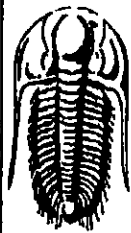
End Date: 2010.04.23 @ 12:31:28

Job Ticket #: 38555                      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

Baird Oil Company LLC

**David Worcester #1-1**

PO Box 428  
Logan KS 67646

**1-7s-22w Graham KS**

ATTN: Jim Baird

Job Ticket: 38555

**DST#: 2**

Test Start: 2010.04.23 @ 07:57:04

## GENERAL INFORMATION:

Formation: **LKC "D"**

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

Time Tool Opened: 09:10:29

Time Test Ended: 12:31:28

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3545.00 ft (KB) To 3562.00 ft (KB) (TVD)**

Reference Elevations: **2266.00 ft (KB)**

Total Depth: **3562.00 ft (KB) (TVD)**

**2261.00 ft (CF)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

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

**Serial #: 8365**

**Inside**

Press@RunDepth: **602.31 psig @ 3546.01 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.04.23**

End Date: **2010.04.23**

Last Calib.: **2010.04.23**

Start Time: **07:57:04**

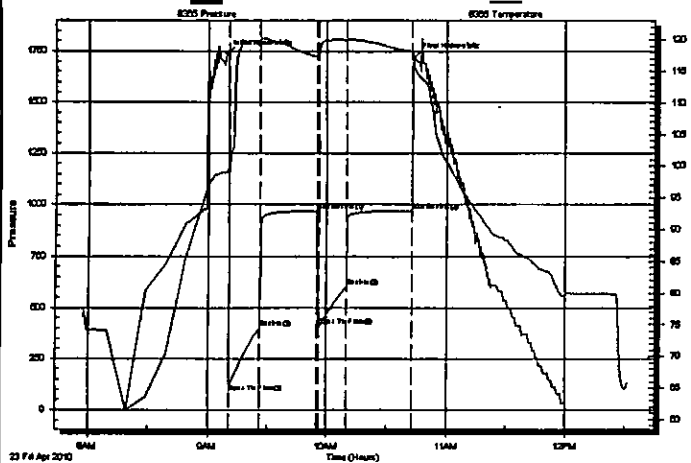
End Time: **12:31:28**

Time On Btm: **2010.04.23 @ 09:08:59**

Time Off Btm: **2010.04.23 @ 10:43:59**

**TEST COMMENT:** IFF-strg bl in 2min  
FFP-strg bl in 3min  
Times 15-30-15-30  
ISIP-surface bl bk, FSIP-surface bl bk

Pressure vs. Time



## PRESSURE SUMMARY

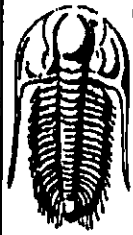
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.64	99.05	Initial Hydro-static
2	85.22	99.85	Open To Flow (1)
17	400.06	119.95	Shut-In(1)
47	970.77	117.36	End Shut-In(1)
48	411.53	117.91	Open To Flow (2)
62	602.31	119.95	Shut-In(2)
94	970.52	118.24	End Shut-In(2)
95	1721.13	115.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	60'GP	0.00
120.00	SOCMW 1%O30%M69%W	0.59
1080.00	Water	15.15

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company LLC

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38555      DST#: 2

ATTN: Jim Baird

Test Start: 2010.04.23 @ 07:57:04

## Tool Information

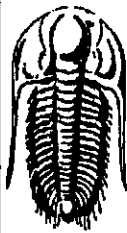
Drill Pipe:	Length: 3419.00 ft	Diameter: 3.80 inches	Volume: 47.96 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3545.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.02 ft			
Tool Length:	38.02 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			3525.00	
Shut In Tool	5.00			3530.00	
Hydraulic tool	5.00			3535.00	
Packer	5.00			3540.00	21.00      Bottom Of Top Packer
Packer	5.00			3545.00	
Stubb	1.00			3546.00	
Recorder	0.01	8365	Inside	3546.01	
Recorder	0.01	6625	Outside	3546.02	
Perforations	13.00			3559.02	
Bullnose	3.00			3562.02	17.02      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>38.02</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company LLC

**David Worcester #1-1**

PO Box 428  
Logan KS 67646

**1-7s-22w Graham KS**

Job Ticket: 38555      **DST#: 2**

ATTN: Jim Baird

Test Start: 2010.04.23 @ 07:57:04

## 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: 77000 ppm	
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

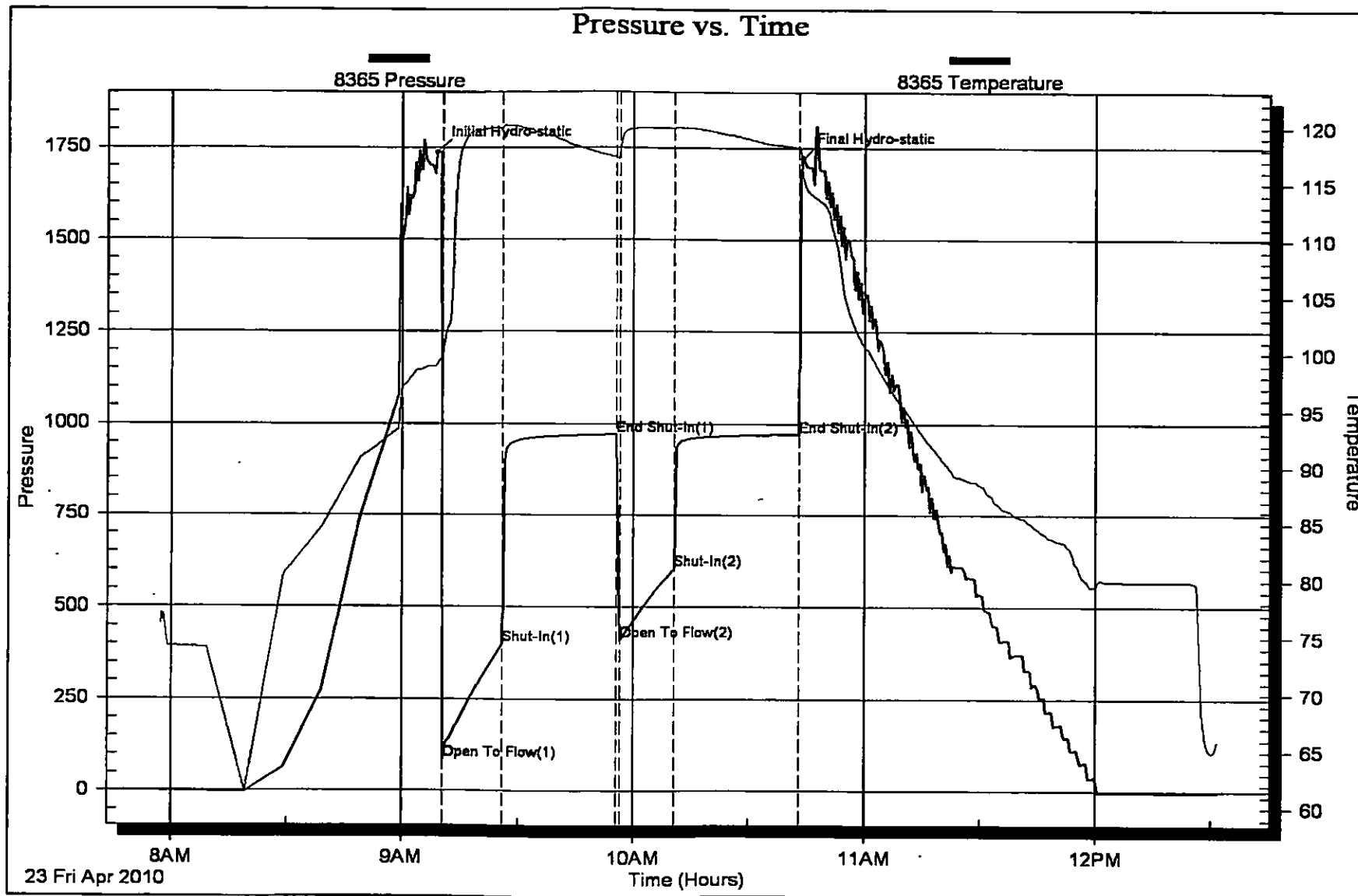
Length ft	Description	Volume bbl
0.00	60'GIP	0.000
120.00	SOCMW 1%O30%M69%W	0.590
1080.00	Water	15.150

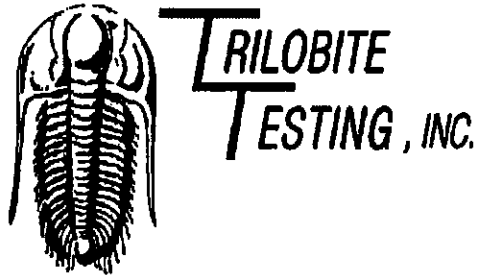
Total Length: 1200.00 ft      Total Volume: 15.740 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .08 @ 76F





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan KS 67646

ATTN: Jim Baird

**1-7s-22w Graham KS**

**David Worcester #1-1**

Start Date: 2010.04.23 @ 17:28:58

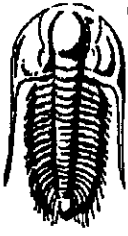
End Date: 2010.04.23 @ 22:53:22

Job Ticket #: 38556                      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

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38556

DST#: 3

ATTN: Jim Baird

Test Start: 2010.04.23 @ 17:28:58

## GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:52:23

Time Test Ended: 22:53:22

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: 3562.00 ft (KB) To 3582.00 ft (KB) (TVD)

Reference Elevations: 2266.00 ft (KB)

Total Depth: 3582.00 ft (KB) (TVD)

2261.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: 532.25 psig @ 3563.01 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.23

End Date: 2010.04.23

Last Calib.: 2010.04.23

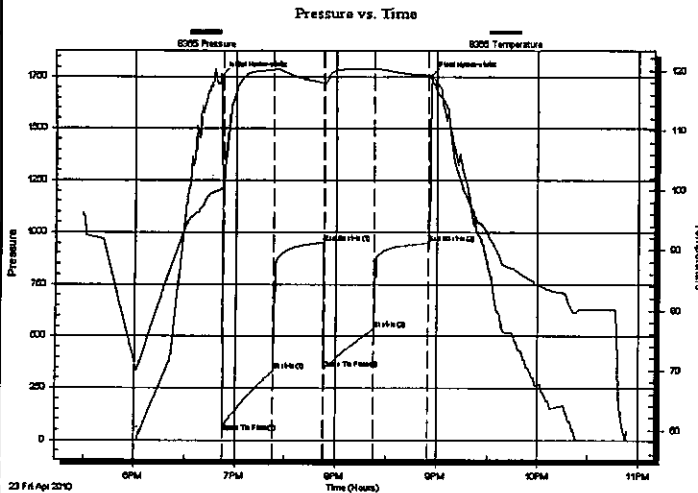
Start Time: 17:28:58

End Time: 22:53:22

Time On Btm: 2010.04.23 @ 18:51:23

Time Off Btm: 2010.04.23 @ 20:56:23

TEST COMMENT: IFP-strg bl in 4 min  
FFP-strg bl 7 min  
Times 30-30-30-30  
ISIP-surface bl bk, FSIP-surface bl bk



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.14	100.30	Initial Hydro-static
1	35.66	100.08	Open To Flow (1)
31	333.57	120.13	Shut-In(1)
62	948.63	118.02	End Shut-In(1)
62	342.62	117.79	Open To Flow (2)
91	532.25	120.25	Shut-In(2)
124	947.69	119.23	End Shut-In(2)
125	1754.31	118.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.02
160.00	SOCMW 2%O25%M73%W	1.20
240.00	Water w/show of oil	3.37
720.00	Water	10.10

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company LLC

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38556

DST#: 3

ATTN: Jim Baird

Test Start: 2010.04.23 @ 17:28:58

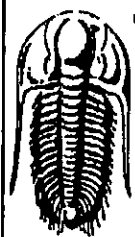
### Tool Information

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.80 inches	Volume: 48.34 bbl	Tool Weight: 2200.00 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: 50000.00 lb
			<u>Total Volume: 48.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3562.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	41.02 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			3542.00	
Shut In Tool	5.00			3547.00	
Hydraulic tool	5.00			3552.00	
Packer	5.00			3557.00	21.00 Bottom Of Top Packer
Packer	5.00			3562.00	
Stubb	1.00			3563.00	
Recorder	0.01	8365	Inside	3563.01	
Recorder	0.01	6625	Outside	3563.02	
Perforations	16.00			3579.02	
Bullnose	3.00			3582.02	20.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.02</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company LLC

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38556      DST#: 3

ATTN: Jim Baird

Test Start: 2010.04.23 @ 17:28:58

## 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: 42000 ppm	
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.74 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

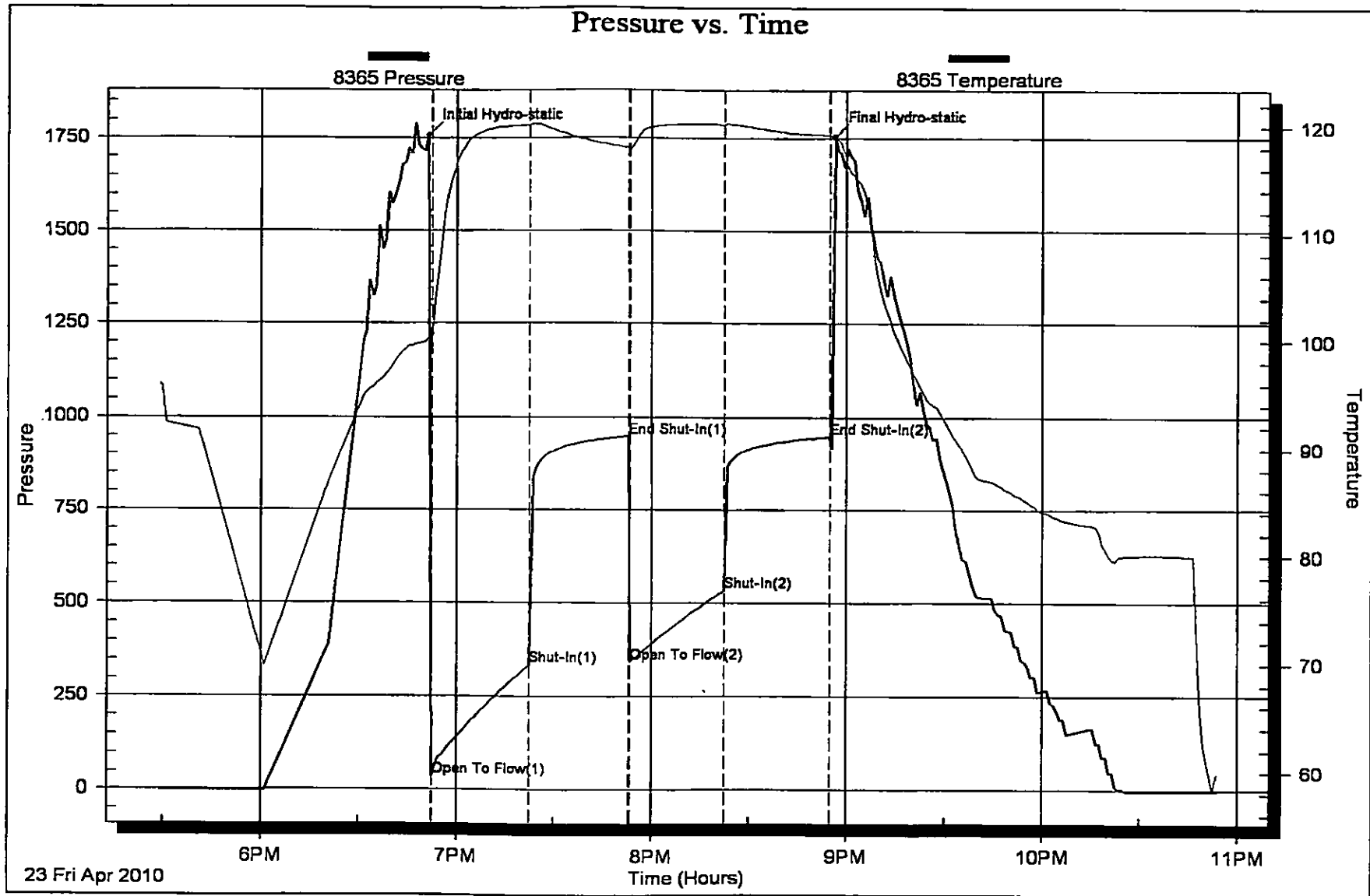
Length ft	Description	Volume bbl
5.00	CO	0.025
160.00	SOCMV 2%O25%M73%W	1.197
240.00	Water w/show of oil	3.367
720.00	Water	10.100

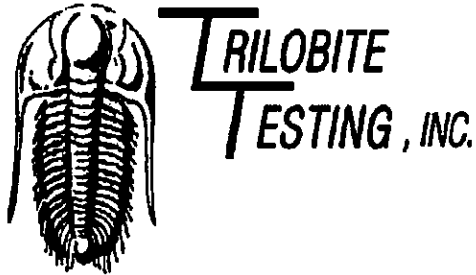
Total Length: 1125.00 ft      Total Volume: 14.689 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .16 @ 76F





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan KS 67646

ATTN: Jim Baird

**1-7s-22w Graham KS**

**David Worcester #1-1**

Start Date: 2010.04.24 @ 08:07:47

End Date: 2010.04.24 @ 11:50:42

Job Ticket #: 38557                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company LLC

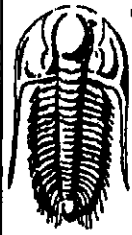
David Worcester #1-1

1-7s-22w Graham KS

DST # 4

LKC "J"

2010.04.24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Company LLC

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38557

DST#: 4

ATTN: Jim Baird

Test Start: 2010.04.24 @ 08:07:47

## GENERAL INFORMATION:

Formation: **LKC "J"**

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

Time Tool Opened: **09:27:12**

Time Test Ended: **11:50:42**

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3658.00 ft (KB) To 3670.00 ft (KB) (TVD)**

Reference Elevations: **2266.00 ft (KB)**

Total Depth: **3670.00 ft (KB) (TVD)**

**2261.00 ft (CF)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

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

Serial #: **8365**

Inside

Press@RunDepth: **12.86 psig @ 3659.01 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.04.24**

End Date: **2010.04.24**

Last Calib.: **2010.04.24**

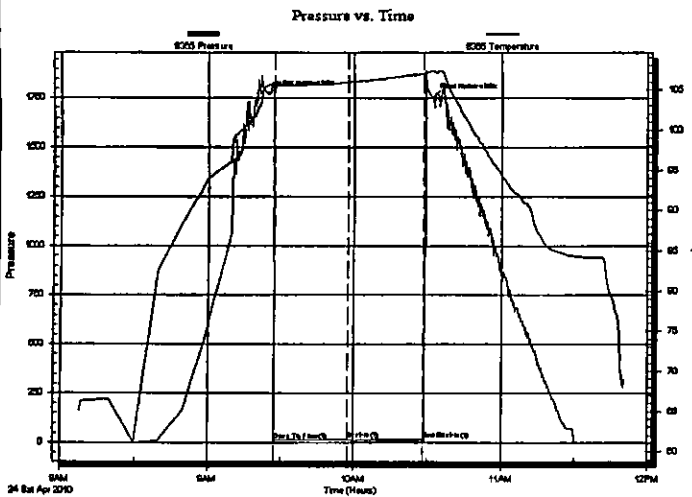
Start Time: **08:07:47**

End Time: **11:50:42**

Time On Btm: **2010.04.24 @ 09:24:42**

Time Off Btm: **2010.04.24 @ 10:31:42**

TEST COMMENT: **IFP-surface bl, died in 20min  
Times 30-30-out**



## PRESSURE SUMMARY

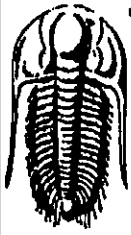
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.68	105.54	Initial Hydro-static
3	12.05	105.08	Open To Flow (1)
33	12.86	105.91	Shut-in(1)
64	13.36	106.95	End Shut-in(1)
67	1755.54	107.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Recovery	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

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38557

DST#: 4

ATTN: Jim Baird

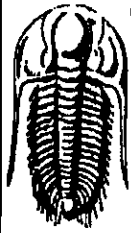
Test Start: 2010.04.24 @ 08:07:47

**Tool Information**

Drill Pipe:	Length: 3532.00 ft	Diameter: 3.80 inches	Volume: 49.54 bbl	Tool Weight: 2200.00 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: 50000.00 lb
			<u>Total Volume: 50.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3658.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.02 ft			
Tool Length:	33.02 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			3638.00	
Shut In Tool	5.00			3643.00	
Hydraulic tool	5.00			3648.00	
Packer	5.00			3653.00	21.00 Bottom Of Top Packer
Packer	5.00			3658.00	
Stubb	1.00			3659.00	
Recorder	0.01	8365	Inside	3659.01	
Recorder	0.01	6625	Outside	3659.02	
Perforations	8.00			3667.02	
Bullnose	3.00			3670.02	12.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.02</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company LLC

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38557      DST#: 4

ATTN: Jim Baird

Test Start: 2010.04.24 @ 08:07:47

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 62.00 sec/qt  
Water Loss: 6.75 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1600.00 ppm  
Filter Cake: 1.00 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
0.00	Recovery	0.000

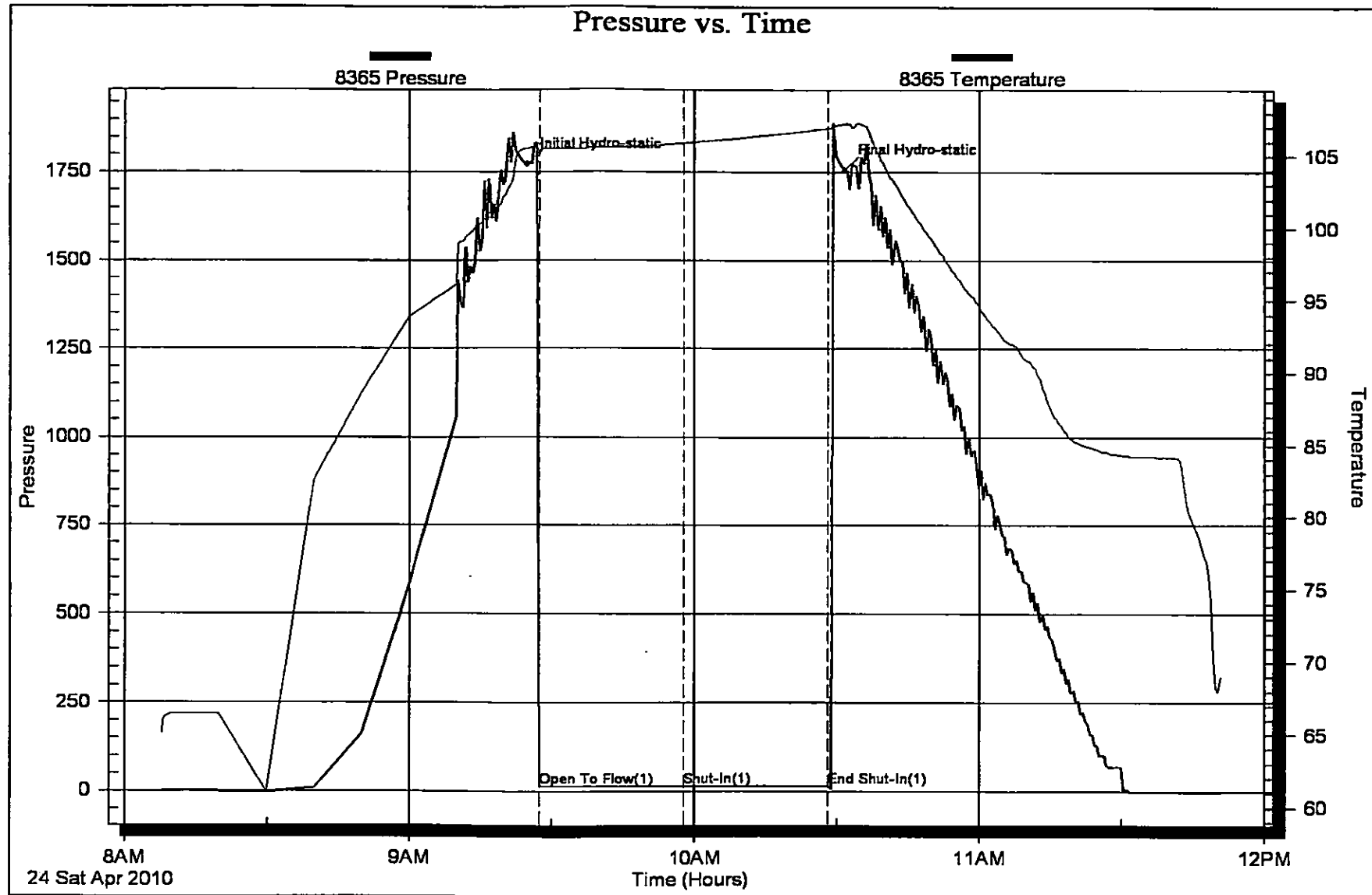
Total Length: ft      Total Volume: bbl

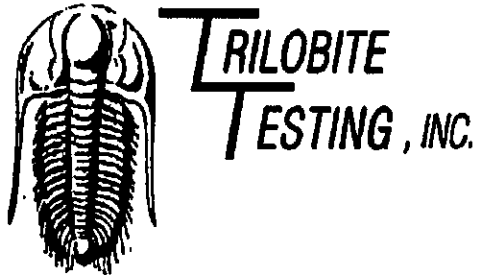
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company LLC**

PO Box 428  
Logan KS 67646

ATTN: Jim Baird

**1-7s-22w Graham KS**

**David Worcester #1-1**

Start Date: 2010.04.25 @ 03:34:05

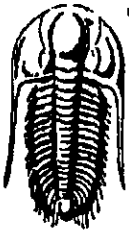
End Date: 2010.04.25 @ 07:47:30

Job Ticket #: 38558                      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

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38558

DST#: 5

ATTN: Jim Baird

Test Start: 2010.04.25 @ 03:34:05

## GENERAL INFORMATION:

Formation: **Congl Sd**

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

Time Tool Opened: 04:58:30

Time Test Ended: 07:47:30

Test Type: **Conventional Straddle**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3743.00 ft (KB) To 3764.00 ft (KB) (TVD)**

Reference Elevations: **2266.00 ft (KB)**

Total Depth: **3822.00 ft (KB) (TVD)**

**2261.00 ft (CF)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

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

Serial #: **8365**                      **Inside**

Press@RunDepth: **59.67 psig @ 3744.01 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.04.25**

End Date: **2010.04.25**

Last Calib.: **2010.04.25**

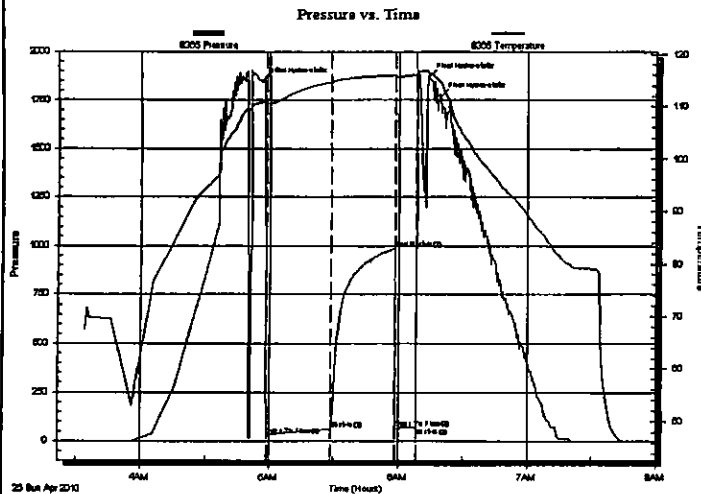
Start Time: **03:34:05**

End Time: **07:47:30**

Time On Btm: **2010.04.25 @ 04:56:00**

Time Off Btm: **2010.04.25 @ 06:14:00**

TEST COMMENT: **IFP-surface bl thru-out  
FFP-no bl  
Times 30-30-10-out**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.24	110.76	Initial Hydro-static
3	27.57	110.46	Open To Flow (1)
33	59.67	114.72	Shut-In(1)
62	987.39	115.98	End Shut-In(1)
63	64.02	115.51	Open To Flow (2)
72	69.09	116.05	Shut-In(2)
78	1871.73	116.48	Final Hydro-static
83	1773.15	114.76	Final Hydro-static

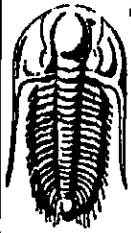
## Recovery

Length (ft)	Description	Volume (bbl)
70.00	SOCM 1%O99%M	0.34

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Company LLC  
PO Box 428  
Logan KS 67646  
ATTN: Jim Baird

David Worcester #1-1  
1-7s-22w Graham KS  
Job Ticket: 38558      DST#: 5  
Test Start: 2010.04.25 @ 03:34:05

**Tool Information**

Drill Pipe:	Length: 3607.00 ft	Diameter: 3.80 inches	Volume: 50.60 bbl	Tool Weight: 2200.00 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: 55000.00 lb
			<b>Total Volume: 51.19 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3743.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	3764.02 ft			
Interval between Packers:	21.02 ft			
Tool Length:	104.03 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3723.00	
Shut In Tool	5.00			3728.00	
Hydraulic tool	5.00			3733.00	
Packer	5.00			3738.00	21.00 Bottom Of Top Packer
Packer	5.00			3743.00	
Stubb	1.00			3744.00	
Recorder	0.01	8365	Inside	3744.01	
Recorder	0.01	6625	Outside	3744.02	
Perforations	16.00			3760.02	
Blank Off Sub	1.00			3761.02	
Blank Spacing	3.00			3764.02	21.02 Tool Interval
Packer	5.00			3769.02	
Stubb	1.00			3770.02	
Perforations	21.00			3791.02	
Recorder	0.01	8652	Below	3791.03	
Blank Spacing	32.00			3823.03	
Bullnose	3.00			3826.03	62.01 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>104.03</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company LLC

David Worcester #1-1

PO Box 428  
Logan KS 67646

1-7s-22w Graham KS

Job Ticket: 38558      DST#: 6

ATTN: Jim Baird

Test Start: 2010.04.25 @ 03:34:05

## 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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	SOCM 1%O99%M	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

