

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
October 2008  
Form Must Be Typed

6/9/12

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  
CONTRACTOR: License # 33575

KCC

JUN 09 2010

CONFIDENTIAL

API No. 15 - 065-23634-00-00  
Spot Description: \_\_\_\_\_  
E2 NW NE NE Sec. 1 Twp. 7 S. R. 22  East  West  
330 Feet from  North /  South Line of Section  
970 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Graham

Name: WW Drilling, LLC  
Wellsite Geologist: Richard Bell  
Purchaser: Coffeyville Resources

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KANSAS CORPORATION COMMISSION

JUN 11 2010

CONSERVATION DIVISION  
WICHITA, KS

Lease Name: Thurlow Well #: 1-1  
Field Name: Wildcat  
Producing Formation: Kansas City

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  
 Gas  ENHR  SIGW  
 CM (Coal Bed Methane)  Temp. Abd.  
 Dry  Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, etc.)

Elevation: Ground: 2239 Kelly Bushing: 2244  
Total Depth: 3791 Plug Back Total Depth: 3745  
Amount of Surface Pipe Set and Cemented at: 207 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1926 Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr.  Conv. to SWD  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled Docket No.: \_\_\_\_\_  
 Dual Completion Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_  
April 1, 2010 April 9, 2010 April 23, 2010  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan AKINS 67810  
(Data must be collected from the Reserve Pit)  
Chloride content: 1900 ppm Fluid volume: 500 bbls  
Dewatering method used: Evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**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: 6/8/10  
Subscribed and sworn to before me this 8<sup>th</sup> day of JUNE, 2010.  
Notary Public: Robert B. Hartman  
Date Commission Expires: 3/29/2011

**KCC Office Use ONLY**  
 Letter of Confidentiality Received 6/9/10  
 If Denied. Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

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

KCC

Operator Name: Baird Oil Company, LLC

Lease Name: Thurlow

JUN 12 2010

Well #: 1-1

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

County: Graham

**CONFIDENTIAL**

**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:

**RAG & MICRO**

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Anhydrite	1891	+353
Topeka	3247	-1003
Heebner	3445	-1201
Toronto	3467	-1223
Lansing	3485	-1241
BKC	3673	-1429
TD	3791	-1547

**CASING RECORD**  New  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 Pipe	12 1/4"	8 5/8"	24	208	Standard	150	3%cc, 2% gel
Production	7 7/8"	5 1/2"	14	3787	60/40 Poz	450	SMD 3/4# flocele

**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	3486-3489	250 gallons 15% MCA	
1	3556-3560	250 gallons 15% MCA	
RECEIVED KANSAS CORPORATION COMMISSION JUN 11 2010 CONSERVATION DIVISION WICHITA, KS			

TUBING RECORD: Size: 2 3/8 Set At: 3735 Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or Enhr. April 26, 2010 Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours: Oil 50 Bbls. Gas 20 Mcf Water 20 Bbls. Gas-Oil Ratio \_\_\_\_\_ Gravity 32

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3486-3560 OA</u>
--	---	---

# SWIFT



Services, Inc.

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



## Invoice

DATE	INVOICE #
4/1/2010	17449

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	Thurlow	Graham	WW Drilling	Oil	Development	Cement 8-5/8" S...	Don

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.) - 206 Feet	1	Job	750.00	750.00
290	D-Air	2	Gallon(s)	35.00	70.00
325	Standard Cement	150	Sacks	11.00	1,650.00
279	Bentonite Gel	3	Sack(s)	20.00	60.00
278	Calcium Chloride	5	Sack(s)	35.00	175.00
581D	Service Charge Cement	150	Sacks	1.50	225.00
583D	Drayage	518	Ton Miles	1.00	518.00
	Subtotal				3,798.00

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KANSAS CORPORATION COMMISSION

JUN 11 2010

CONSERVATION DIVISION  
WICHITA, KS

R 4/5/2010  
7/4/5/2010

Thurlow 190402 3798.00  
Thurlow 1-1 - Pump charges  
Cement + other misc used  
to cement surface casing

4/5/2010  
CK # 9628

**We Appreciate Your Business!**

**Total**

\$3,798.00



CHARGE TO: <i>Baird Oil Company</i>
ADDRESS
CITY, STATE, ZIP CODE

TICKET  
17449

ACC  
 JUN 12 2010  
 CONFIDENTIAL

PAGE	OF
1	1

SERVICE LOCATIONS 1. <i>Hays, KS</i> 2. <i>Ness City, KS</i>	WELL/PROJECT NO. <i>1-1</i>	LEASE <i>Thurlow</i>	COUNTY/PARISH <i>Graham</i>	STATE <i>KS</i>	CITY	DATE <i>7-1-10</i>	OWNER
TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>W4 Drg</i>	RIG NAME/NO.	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>NE Hill City, KS</i>	ORDER NO.		
WELL TYPE <i>oil</i>	WELL CATEGORY <i>Wildcat</i>	JOB PURPOSE <i>Cement 8 5/8" 24 #/ft. Surface</i>	WELL PERMIT NO.	WELL LOCATION			
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	70		mi		5.00	350.00
576 S		1			Pump Charge - Shallow Surface	1		ea	206	75.00	75.00
290		1			D-Aie	2		gal		35.00	70.00
325		2			standard Cement	150		SKs	14100	11.00	1650.00
279		2			Bentonite Gel 2 1/2	300		lbs	3	20.00	60.00
278		2			Calcium Chloride	5		SKs	700	35.00	175.00
581		2			D. Service Charge - Cement	150		SKs		1.50	225.00
583		2			Drayage	518		TM		1.00	518.00

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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

DATE SIGNED *7-1-10*      TIME SIGNED *18:30*       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?				3298.00
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 checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL
				3798.00

SWD for Tax Proj. Well

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket

OPERATOR *[Signature]*      APPROVAL

Thank You!

CUSTOMER *Palmer Oil Co.*

WELL NO. *1-1*

LEASE *Thurman*

JOB TYPE *Cement 8 5/8" Surface*

TICKET NO. *17449*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							On location. Rig running 8 5/8 casing.
	1730							Setup Trs. TD-207 Start Lic casing KB-206 TP 212 24"/Pl.
		5 4 1/2					200 200	Mix 150 lbs Standard cement, 2% Gel, 3% CC.
			36				100 200	Fin cement - Start Displ (12 1/4) Plug Down - Close in.
	1800							Job Complete
								Washing & Pack up
								<i>Franklin</i> Dan, Doug & Shane
								cut. cir to pit
								Done
								KCC JUN 12 2010 CONFIDENTIAL
								RECEIVED KANSAS CORPORATION COMMISSION JUN 11 2010 CONSERVATION DIVISION WICHITA, KS



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



# Invoice

DATE	INVOICE #
4/9/2010	17557

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

KCC • Acidizing  
JUN 12 2010 • Cement  
CONFIDENTIAL • Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-1	Thurlow	Graham	WW Drilling #10	Oil	Development	LongString	Dave
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	5.00	350.00
578D-L	Pump Charge - Long String				1	Job	1,400.00	1,400.00
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00
290	D-Air				2	Gallon(s)	35.00	70.00
402-5	5 1/2" Centralizer				11	Each	55.00	605.00
403-5	5 1/2" Cement Basket				1	Each	200.00	200.00
404-5	5 1/2" Port Collar				1	Each	1,900.00	1,900.00
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	275.00	275.00
411-5	5 1/2" Recipo Scratcher				30	Each	45.00	1,350.00
325	Standard Cement				200	Sacks	12.00	2,400.00
326	60/40 Pozmix (2% Gel)				40	Sacks	9.50	380.00
276	Flocele				50	Lb(s)	1.50	75.00
277	Gilsonite (Coal Seal)				400	Lb(s)	0.40	160.00
283	Salt				1,800	Lb(s)	0.15	270.00
285	CFR-1				150	Lb(s)	4.00	600.00
581D	Service Charge Cement				240	Sacks	1.50	360.00
583D	Drayage				857.22	Ton Miles	1.00	857.22
	Subtotal							12,777.22

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JUN 11 2010  
CONSERVATION DIVISION  
WICHITA, KS

R4/13/2010  
P4/14/2010  
Thurlow 190402 12777.22  
Thurlow 1-1 - Pump charge,  
Cement & other misc expenses  
used to cement production casing

<b>We Appreciate Your Business!</b>	<b>Total</b>	<b>\$12,777.22</b>
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CHARGE TO: BAIRD OIL  
 ADDRESS: [Blank]  
 CITY, STATE, ZIP CODE: [Blank]

TICKET  
17557

PAGE 1 OF 2

KCC  
 JUN 12 2010  
 CONFIDENTIAL

1. SERVICE LOCATIONS FAWS	WELL/PROJECT NO. 1-1	LEASE THURLOW	COUNTY/PARISH GRAHAM	STATE KS	CITY	DATE 04-09-10	OWNER
2. NESS	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. LWWDPLG #10	SHIPPED VIA C.T.	DELIVERED TO 827E HILLCITY	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY Development	JOB PURPOSE CONSIDERING	WELL PERMIT NO. 15-065-23654	WELL LOCATION S1, T7, R22		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.	UM	
575		1			MILEAGE #112	70	MI	5	100	350 00
575		1			Pump Service	1	EA	1400	100	1400 00
221		1			LUB OIL	2	GAZ	25	100	50 00
280		1			FLOCCULANT	500	GAZ	2	50	1250 00
290		1			DARK	2	GAZ	35	100	70 00
402		1			CENTRALIZER	11	EA	55	100	605 00
403		1			CMT BASKET	1	EA	200	100	200 00
404		1			PORT COLLAR 1906 FT	1	EA	1900	100	1900 00
406		1			LATCH DOWN PLUG & JACKET	1	EA	225	100	225 00
407		1			TRUSS FLATTENING 1/4" DIA 2' LONG	1	EA	275	100	275 00
411		1			REC'D SCREWS	30	EA	45	100	1350 00

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 KANSAS CORPORATION COMMISSION  
 JUN 11 2010  
 CONSERVA IUM 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

SIGNED: Richard Ball TIME SIGNED: 04-09-10  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	7675 00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				10	5000 00
WE UNDERSTOOD AND MET YOUR NEEDS?				SUB	7
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				TOTAL	12,777 22
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				SWD d/or TAX	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		4000 Well	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	12,777 22

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

APPROVAL: Daniel Ash

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 17557

CUSTOMER BARRO OIL WELL 1-1, THURLOW DATE 11-09-10 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ CARD NUMBER	LOADING	TIME	DESCRIPTION	WELL		DATE		PAGE	OF
					QTY	UNIT	QTY	UNIT		
325		2		SZD CAT	200	SK			12.00	2400.00
326		2		60-40 p2 286	40	SK			9.50	380.00
276		2		Fluence	50	LB			1.50	75.00
277		2		CONCRETE	400	LB			.40	160.00
283		2		SALT	1800	LB			.15	270.00
285		2		CFR	150	LB			4.00	600.00
S81		2		SERVICE CHARGE	240	SK			1.50	360.00
S23		2		DRIVAGE	857.22	TM			1.00	857.22
				SERVICE CHARGE						
				TOTAL WEIGHT						
				LOADED MILES						
				TOTAL MILES						

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JUN 11 2010  
CONSERVATION DIVISION  
WICHITA, KS

CONTINUATION TOTAL: 10  
5007.22



# SWIFT Services, Inc.

DATE 04-07-10 PAGE NO. 1

WELL NO. 1-1 LEASE THURLOW JOB TYPE CONCRETING TICKET NO. 17557

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0200							ONLOCATION CMT: 200 STD 18" O.S.A.T. 4" O.C.A. 1/4" W 40' 60/40 P.Z. 2" O.C. 10" O.K.S.W.I.T.E. LTD 3751 RTD 3792, SET P.P. 3790, SJ 4260, T.S. 3799 5/2 H.H. NEW, R.C. 4260 TOP # 47, 1926 FT CMT 1-10, 46 BASE 47, RECIPROATE S. 240 CH. 1-10 30EA
	0310							START C.S. & FLOW
	0440							TRG BETTER DROP BALL
	0445							BREAK CIRC, RECIPROATE P.P. 20 FT
	0545		6.0					PUR. RH 1/30 S.S. 60-40
	0550	5.5	15.0		✓		300	W.C. FLUSH
			10.0		✓			FLOC. REC. 21, SOD. C.A.G.
			5.0		✓			W.C. FLUSH
			5.0		✓			CMT: 60-40 P.Z.
			47.0		✓			STD CMT
								1) 200 L.D. AVG, WASHOUT PL
	0615	6.0	0		✓		300	START DRIP
			43.5		✓		300	CMT LOW BOTTOM
			80.0		✓		700	
			85.0		✓		800	
			90.0		✓		900	
	0630	4.5	91.4		✓		1500	LAND R.V.G.
	0635							RESTATE DRY!
								TRIGTS WASHUP.
	0730							RECEIVED KANSAS CORPORATION COMMISSION JUN 11 2010 CONSERVATION DIVISION WICHITA, KS
								JOB COMPLETE THANK YOU! DAVE JOHNSON

KCC  
JUN 12 2010  
CONFIDENTIAL



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



# Invoice

DATE	INVOICE #
4/19/2010	17563

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-1	Thurlow	Graham	Quality Plus Oilfie...	Oil	Development	Port Collar	Dave
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	5.00	350.00
576D-D	Pump Charge - Port Collar				1	Job	1,100.00	1,100.00
290	D-Air				2	Gallon(s)	35.00	70.00
105	5 1/2" Port Collar Tool Rental With Man				1	Each	300.00	300.00
330	Swift Multi-Density Standard (MIDCON II)				210	Sacks	15.00	3,150.00
276	Flocele				56	Lb(s)	1.50	84.00
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				786.31	Ton Miles	1.00	786.31
	Subtotal							6,177.81

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KANSAS CORPORATION COMMISSION  
JUN 11 2010  
CONSERVATION DIVISION  
WICHITA, KS

24/22/2010  
24/22/2010  
Thurlow 190402 6177.81  
Thurlow 1-1 - Pump Charge,  
Cement & other misc. expenses  
used to cement port collar

KCC  
JUN 12 2010  
CONFIDENTIAL  
4/22/2010  
CK#9902

<b>Thank You For Your Business!</b>	<b>Total</b>	\$6,177.81
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CHARGE TO: BAIRD OIL

ADDRESS

CITY, STATE, ZIP CODE

**KCC**  
**JUN 12 2010**  
**CONFIDENTIAL**

TICKET  
 17563

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>HAYS</u>	WELL/PROJECT NO. <u>1-1</u>	LEASE <u>THURLOW</u>	COUNTY/PARISH <u>GRAHAM</u>	STATE <u>KS</u>	CITY	DATE <u>04-19-10</u>	OWNER
2. <u>NESS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>QUALITY PLUS</u>	SHIPPED VIA <u>GT</u>	DELIVERED TO <u>Rm 634E-Sewer Hill City</u>	ORDER NO.	
3.	WELL TYPE <u>OIL</u>	WELL CATEGORY <u>DEVELOP</u>	JOB PURPOSE <u>PORT COLLAR</u>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE #112	70		mi		5.00	350	00
576.0		1			Pump Service	1		EA		1100.00	1100	00
290		1			DAIR	2		EA		35.00	70	00
105		1			PORT COLLAR TAX	1		EA	5 1/2 in	300.00	300	00
330		2			SMD CNT	210		SH		15.00	3150	00
276.		2			FLOCE	56		LB		1.50	84	00
281		2			SERVICE CHG CNT	225		SH		1.50	337	50
283		2			DRAYAGE	786.31		Tm		1.00	786	31

RECEIVED  
 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

*[Signature]*  
 DATE SIGNED 04-19-10 TIME SIGNED 1245  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	6177 81

SWD for Tax Anj. well

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

OPERATOR DAVE BH APPROVAL

Thank You!

**JOB LOG**

**SWIFT Services, Inc.**

DATE 04-19-10 PAGE NO. 1

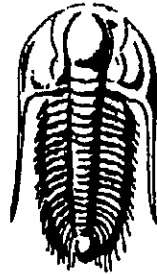
CUSTOMER BAINO OIL WELL NO. 1-1 LEASE THURLOW JOB TYPE PORT COLLAR TICKET NO. 17563

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1245							ON LOCATION
								CMT: 225 SWS SMD 1/4" FLDCELL
								2 3/8" x 5/2 1/4" PORT COLLAR @ 1926
	1:00							START TBLT TOOL
	1:40							LOCATE P.C. @ 1925
	1:45			✓	✓	1000	1000	PSI TEST
								OPEN PC
	1:40	2.5	20	✓		400		INT. RATE
	1:42	3.5	0	✓		500		START CMT @ 11.2"/min
		4.5	30	✓		575		" TO C.M.C
			105.0	✓		700		CIRC CMT TO PIT, MIX 20 SWS @ 14"
			111.0	✓		700		END CMT
		3.5	0	✓		600		START (D/S)
	1:45	5	6.5	✓		600		END
								CLOSE PC
	1:50			✓	✓	1000	1000	PSI TEST
								RUN 125 PIMES
	1:50	2.5	0	✓	✓		200	REN OUT
			6.5		✓			1ST FLAG
			11.0		✓			2ND FLAG
	1:58		19.0		✓			ALL CLEAN
								TOTAL CMT 210
								20 SWS TO PIT!
								ALL TBLT TOOL

RECEIVED  
KANSAS CORPORATION COMMISSION  
JUN 1 2010  
CONSERVATION DIVISION  
WICHITA, KS

KCC  
JUN 12 2010  
CONFIDENTIAL

THANK YOU!  
DAE, JESAB, JASON



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Baird Oil Co., LLC**

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

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

**Thurlow #1-1**

Start Date: 2010.04.04 @ 15:10:14

End Date: 2010.04.04 @ 21:22:08

Job Ticket #: 38125                      DST #: 1

**KCC  
JUN 12 2010  
CONFIDENTIAL**

**RECEIVED  
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

Baird Oil Co., LLC

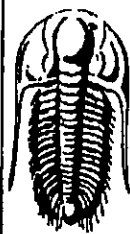
Thurlow #1-1

1-7s-22w Graham KS

DST # 1

Toronto

2010.04.04



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Co., LLC

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

**Thurlow #1-1**

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

Job Ticket: 38125      DST#: 1

Test Start: 2010.04.04 @ 15:10:14

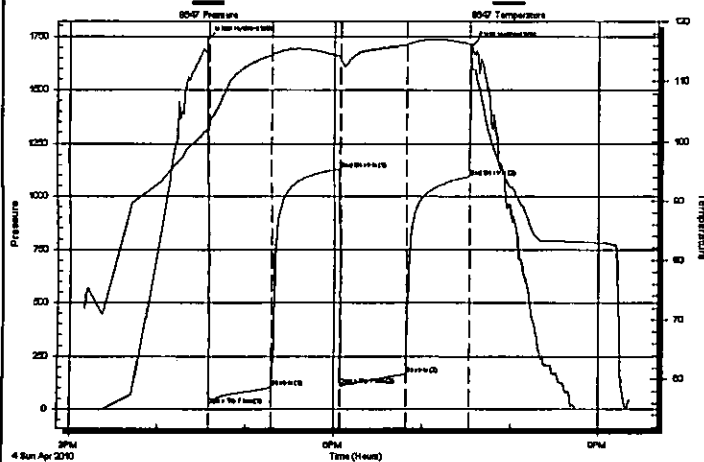
## GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 16:34:39  
 Time Test Ended: 21:22:08  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Brian Fairbank**  
 Unit No: **41**  
 Interval: **3452.00 ft (KB) To 3479.00 ft (KB) (TVD)**  
 Reference Elevations: **2244.00 ft (KB)**  
 Total Depth: **3479.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **KB to GR/CF: 5.00 ft**

**Serial #: 8647**      **Inside**  
 Press@RunDepth: **164.72 psig @ 3456.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2010.04.04**      End Date: **2010.04.04**      Last Calib.: **2010.04.04**  
 Start Time: **15:10:14**      End Time: **21:22:08**      Time On Btm: **2010.04.04 @ 16:33:39**  
 Time Off Btm: **2010.04.04 @ 19:33:08**

**TEST COMMENT:** IFP - BOB 11 min.  
 ISI - sur blow back throughout  
 FFP - BOB 14 min.  
 FSI - sur blow back throughout

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.40	102.13	Initial Hydro-static
1	17.78	102.05	Open To Flow (1)
44	100.53	114.53	Shut-In(1)
90	1127.80	114.30	End Shut-In(1)
91	109.96	113.61	Open To Flow (2)
136	164.72	116.10	Shut-In(2)
178	1092.75	116.31	End Shut-In(2)
180	1708.50	112.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOOM 10%G, 30%O, 60%M	0.30
390.00	G FREE OIL 10%G, 85%O, 5%M	4.90
0.00	40' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38125      DST#: 1

ATTN: Rich Bell

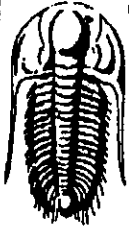
Test Start: 2010.04.04 @ 15:10:14

**Tool Information**

Drill Pipe:	Length: 3322.00 ft	Diameter: 3.80 inches	Volume: 46.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.20 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3452.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:	Tool sild 5' to bottom			

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3437.00	
Hydraulic tool	5.00			3442.00	
Packer	5.00			3447.00	20.00      Bottom Of Top Packer
Packer	5.00			3452.00	
Stubb	1.00			3453.00	
Perforations	3.00			3456.00	
Recorder	0.00	8647	Inside	3456.00	
Recorder	0.00	8371	Outside	3456.00	
Perforations	20.00			3476.00	
Bullnose	3.00			3479.00	27.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>47.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38125      DST#: 1

ATTN: Rich Bell

Test Start: 2010.04.04 @ 15:10:14

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 67.00 sec/qt  
Water Loss: 6.70 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 25 deg API  
Water Salinity: ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	GHOCM 10%G, 30%O, 60%M	0.295
390.00	G FREE OIL 10%G, 85%O, 5%M	4.897
0.00	40' GIP	0.000

Total Length: 450.00ft      Total Volume: 5.192 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

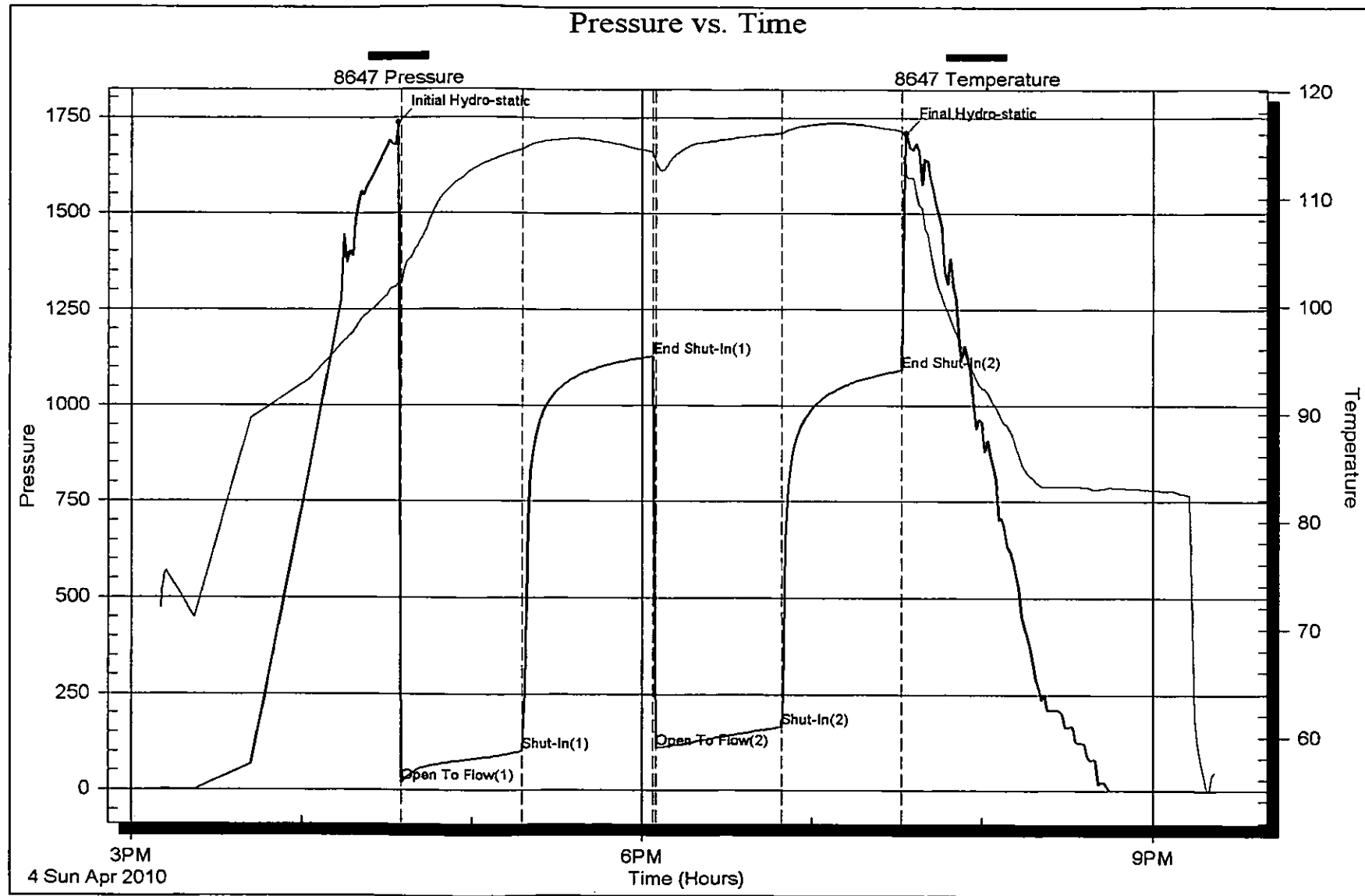
Serial #:

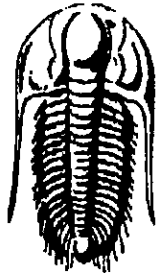
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

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

**Thurlow #1-1**

Start Date: 2010.04.05 @ 03:04:51

End Date: 2010.04.05 @ 08:55:45

Job Ticket #: 38151                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Co., LLC

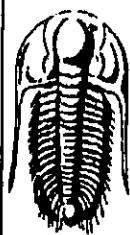
Thurlow #1-1

1-7s-22w Graham KS

DST # 2

LKC "A"

2010.04.05



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38151      DST#: 2

ATTN: Rich Bell

Test Start: 2010.04.05 @ 03:04:51

## GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:16

Time Test Ended: 08:55:45

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3478.00 ft (KB) To 3500.00 ft (KB) (TVD)**

Reference Elevations: 2244.00 ft (KB)

Total Depth: 3500.00 ft (KB) (TVD)

2239.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

**Serial #: 8647**

**Inside**

Press@RunDepth: 335.82 psig @ 3482.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.05

End Date:

2010.04.05

Last Calib.: 2010.04.05

Start Time: 03:04:51

End Time:

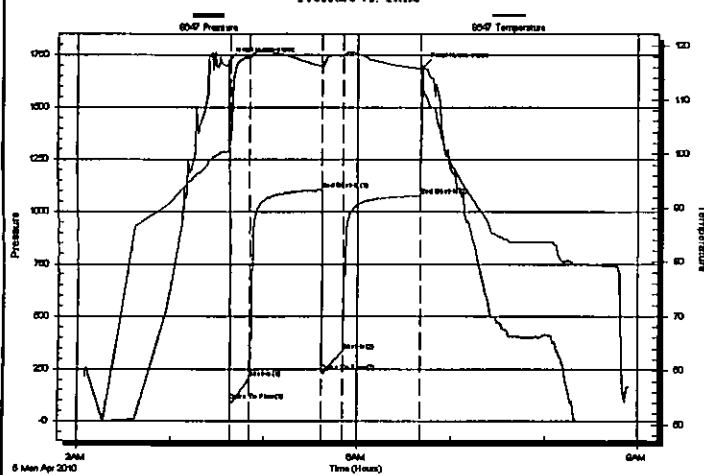
08:55:45

Time On Btm: 2010.04.05 @ 04:37:16

Time Off Btm: 2010.04.05 @ 06:41:46

**TEST COMMENT:** IFP - BOB 45 sec.  
ISI - BOB 8 min.  
FFP - BOB 1 min.  
FSI - BOB 24 min.

Pressure vs. Time



## PRESSURE SUMMARY

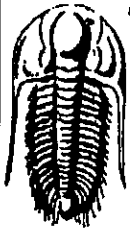
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.65	100.87	Initial Hydro-static
1	95.13	102.12	Open To Flow (1)
14	205.92	117.94	Shut-In (1)
60	1104.33	116.19	End Shut-In (1)
60	235.25	115.58	Open To Flow (2)
74	335.82	118.22	Shut-In (2)
123	1079.11	115.79	End Shut-In (2)
125	1695.71	111.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOOM 5%G, 30%O, 65%M	0.30
60.00	GMOO 5%G, 65%O, 30%M	0.30
750.00	REVERSED OUT OIL	10.49
90.00	FREE OIL 95%O, 5%M	1.26
0.00	1115' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38151

DST#: 2

ATTN: Rich Bell

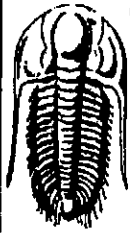
Test Start: 2010.04.05 @ 03:04:51

**Tool Information**

Drill Pipe:	Length: 3353.00 ft	Diameter: 3.80 inches	Volume: 47.03 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 47.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3478.00 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			3463.00	
Hydraulic tool	5.00			3468.00	
Packer	5.00			3473.00	20.00 Bottom Of Top Packer
Packer	5.00			3478.00	
Stubb	1.00			3479.00	
Perforations	3.00			3482.00	
Recorder	0.00	8647	Inside	3482.00	
Recorder	0.00	8371	Outside	3482.00	
Perforations	15.00			3497.00	
Bullnose	3.00			3500.00	22.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38151

**DST#: 2**

ATTN: Rich Bell

Test Start: 2010.04.05 @ 03:04:51

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.70 in<sup>3</sup>

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
60.00	GHOCM 5%G, 30%O, 65%M	0.295
60.00	GMCO 5%G, 65%O, 30%M	0.295
750.00	REVERSED OUT OIL	10.493
90.00	FREE OIL 95%O, 5%M	1.262
0.00	1115' GIP	0.000

Total Length: 960.00 ft

Total Volume: 12.345 bbl

Num Fluid Samples: 0

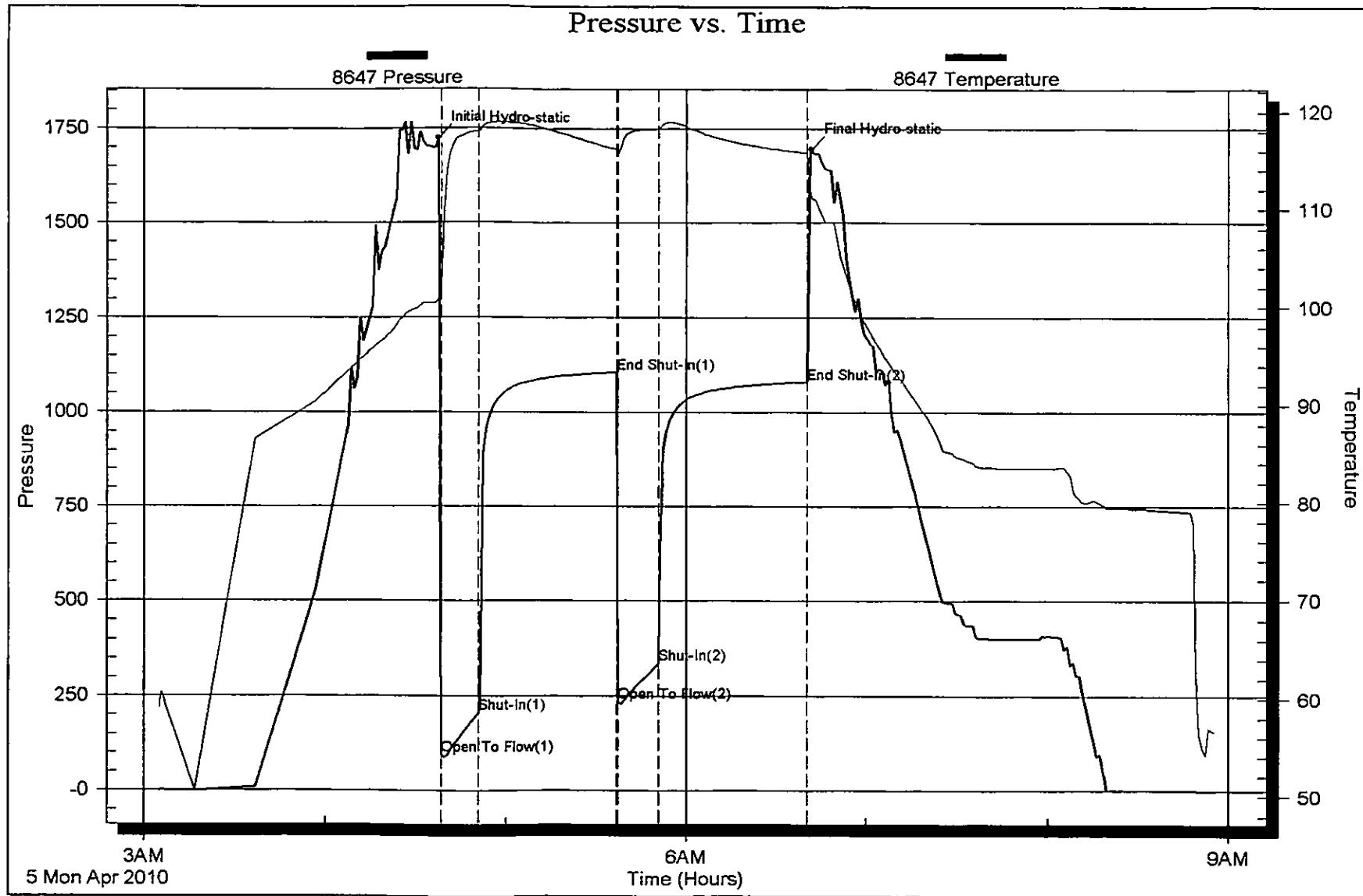
Num Gas Bombs: 0

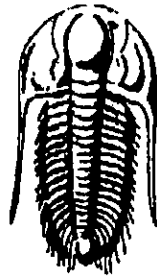
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Baird Oil Co., LLC**

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

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

**Thurlow #1-1**

Start Date: 2010.04.05 @ 14:02:59

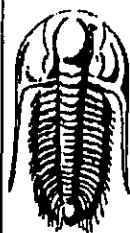
End Date: 2010.04.05 @ 19:55:53

Job Ticket #: 38152                      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 Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

ATTN: Rich Bell

Job Ticket: 38152      DST#: 3

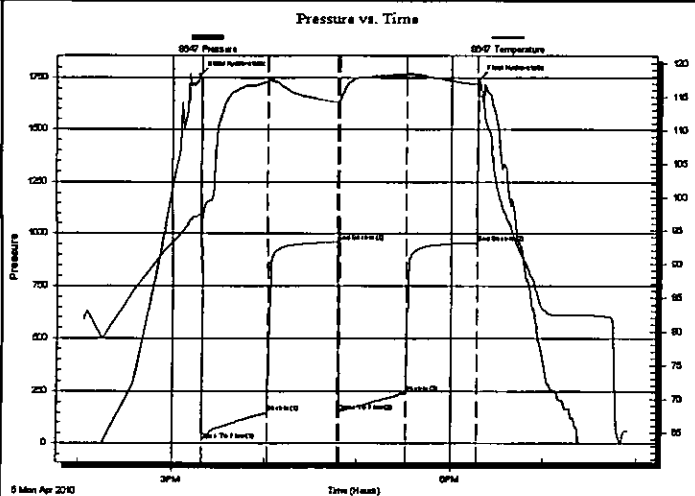
Test Start: 2010.04.05 @ 14:02:59

## GENERAL INFORMATION:

Formation: **LKC "C"**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 15:18:54  
 Time Test Ended: 19:55:53  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Brian Fairbank**  
 Unit No: **41**  
 Interval: **3505.00 ft (KB) To 3521.00 ft (KB) (TVD)**  
 Total Depth: **3521.00 ft (KB) (TVD)**  
 Reference Elevations: **2244.00 ft (KB)**  
**2239.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition:  
**KB to GR/CF: 5.00 ft**

**Serial #: 8647**      Inside  
 Press@RunDepth: **241.24 psig @ 3508.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2010.04.05**      End Date: **2010.04.05**      Last Calib.: **2010.04.05**  
 Start Time: **14:02:59**      End Time: **19:55:53**      Time On Btrt: **2010.04.05 @ 15:17:24**  
 Time Off Btrt: **2010.04.05 @ 18:17:54**

TEST COMMENT: IFP - BOB 16 min.  
 ISI - sur blow back throughout  
 FFP - BOB 16 min.  
 FSI - sur blow back throughout



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.96	97.40	Initial Hydro-static
2	16.96	96.68	Open To Flow (1)
45	148.39	117.31	Shut-In(1)
90	961.33	114.20	End Shut-In(1)
91	152.28	114.15	Open To Flow (2)
134	241.24	118.23	Shut-In(2)
180	957.73	116.90	End Shut-In(2)
181	1743.26	116.12	Final Hydro-static

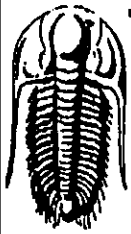
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 10%O, 90%M	0.05
425.00	VSOCMV 3%O, 87%W, 10%M	4.93
90.00	FREE OIL 95%O, 5%M	1.26
0.00	40' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38152

**DST#: 3**

ATTN: Rich Bell

Test Start: 2010.04.05 @ 14:02:59

## Tool Information

Drill Pipe:	Length: 3384.00 ft	Diameter: 3.80 inches	Volume: 47.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 48.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3505.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 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			3490.00	
Hydraulic tool	5.00			3495.00	
Packer	5.00			3500.00	20.00 Bottom Of Top Packer
Packer	5.00			3505.00	
Stubb	1.00			3506.00	
Perforations	2.00			3508.00	
Recorder	0.00	8647	Inside	3508.00	
Recorder	0.00	8371	Outside	3508.00	
Perforations	10.00			3518.00	
Bullnose	3.00			3521.00	16.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38152      DST#: 3

ATTN: Rich Bell

Test Start: 2010.04.05 @ 14:02:59

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 7.50 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 23 deg API  
Water Salinity: 28000 ppm

## Recovery Information

Recovery Table

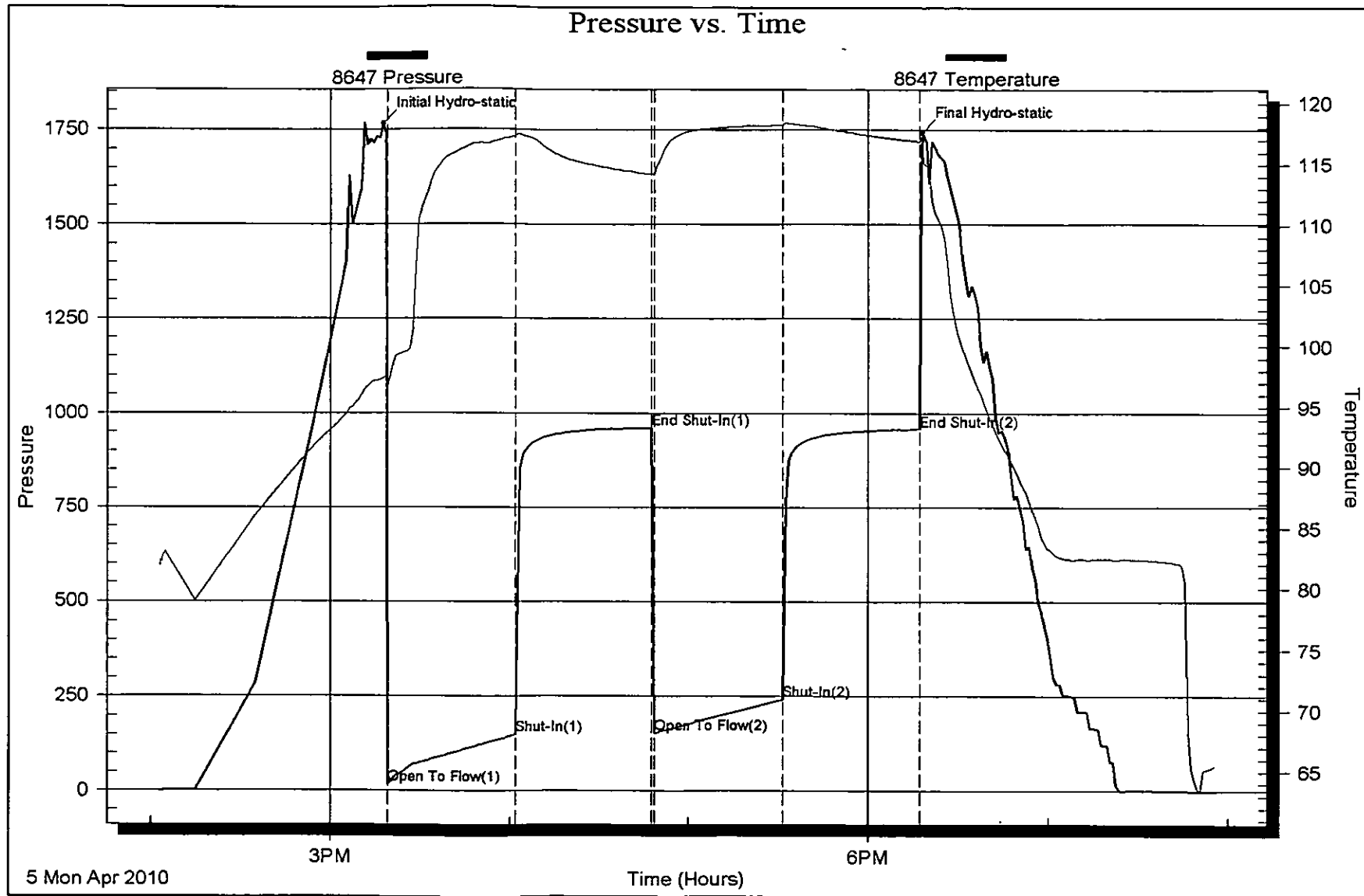
Length ft	Description	Volume bbl
10.00	SOCM 10%O, 90%M	0.049
425.00	VSOCMV 3%O, 87%W, 10%M	4.932
90.00	FREE OIL 95%O, 5%M	1.262
0.00	40' GIP	0.000

Total Length: 525.00 ft      Total Volume: 6.243 bbl

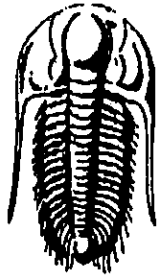
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .275 @ 65F = 28000 ppm chlorides



5 Mon Apr 2010



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

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

**Thurlow #1-1**

Start Date: 2010.04.06 @ 00:53:23

End Date: 2010.04.06 @ 06:45:47

Job Ticket #: 38153                      DST #: 4

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

Printed: 2010.04.19 @ 15:12:40 Page 1

Baird Oil Co., LLC

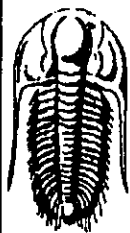
Thurlow #1-1

1-7s-22w Graham KS

DST # 4

LKC "D"

2010.04.06



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Baird Oil Co., LLC

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

**Thurlow #1-1**

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

Job Ticket: 38153      DST#: 4

Test Start: 2010.04.06 @ 00:53:23

### GENERAL INFORMATION:

Formation: **LKC "D"**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 02:26:48  
 Time Test Ended: 06:45:47

Test Type: **Conventional Bottom Hole**  
 Tester: **Brian Fairbank**  
 Unit No: **41**

Interval: **3526.00 ft (KB) To 3543.00 ft (KB) (TVD)**  
 Total Depth: **3543.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2244.00 ft (KB)**  
**2239.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

### Serial #: 8647

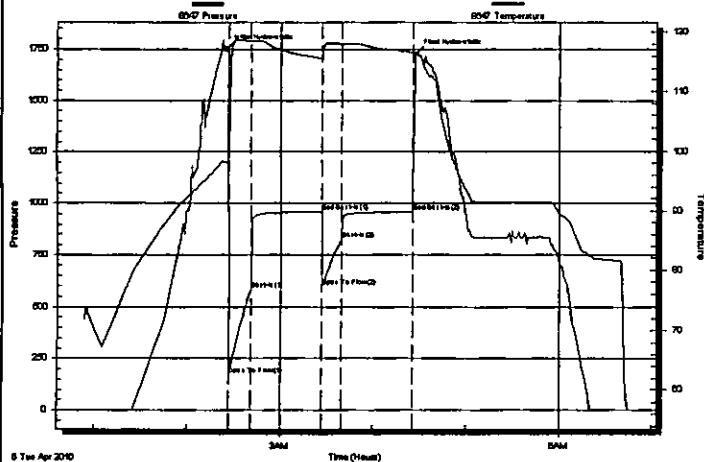
Inside

Press@RunDepth: **823.05 psig @ 3530.00 ft (KB)**  
 Start Date: **2010.04.06**      End Date: **2010.04.06**  
 Start Time: **00:53:23**      End Time: **06:45:47**

Capacity: **8000.00 psig**  
 Last Calib.: **2010.04.06**  
 Time On Btm: **2010.04.06 @ 02:25:18**  
 Time Off Btm: **2010.04.06 @ 04:27:18**

TEST COMMENT: IFP - BOB 45 sec.  
 ISI - 1 1/4" blow back  
 FFP - BOB 45 sec.  
 FSI - no blow back

Pressure vs. Time



### PRESSURE SUMMARY

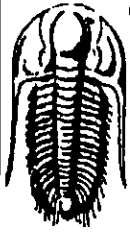
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.19	98.17	Initial Hydro-static
2	170.89	99.43	Open To Flow (1)
16	583.35	118.36	Shut-In(1)
62	960.31	115.67	End Shut-In(1)
62	598.37	116.14	Open To Flow (2)
75	823.05	117.98	Shut-In(2)
121	959.16	116.65	End Shut-In(2)
122	1729.40	116.47	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 60%W, 40%M	0.59
1555.00	reversed out w water	21.79
30.00	GMW 5%G, 85%W, 10%M	0.42

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38153

DST#: 4

ATTN: Rich Bell

Test Start: 2010.04.06 @ 00:53:23

**Tool Information**

Drill Pipe:	Length: 3416.00 ft	Diameter: 3.80 inches	Volume: 47.92 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3526.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 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			3511.00	
Hydraulic tool	5.00			3516.00	
Packer	5.00			3521.00	20.00 Bottom Of Top Packer
Packer	5.00			3526.00	
Stubb	1.00			3527.00	
Perforations	3.00			3530.00	
Recorder	0.00	8647	Inside	3530.00	
Recorder	0.00	8371	Outside	3530.00	
Perforations	10.00			3540.00	
Bullnose	3.00			3543.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>37.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428  
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38153      DST#: 4

ATTN: Rich Bell

Test Start: 2010.04.06 @ 00:53:23

## 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:

40000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.52 in<sup>3</sup>

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 bbbl
120.00	MW 60%W, 40%M	0.590
1555.00	reversed out w ater	21.785
30.00	GMW 5%G, 85%W, 10%M	0.421

Total Length: 1705.00 ft

Total Volume: 22.796 bbl

Num Fluid Samples: 0

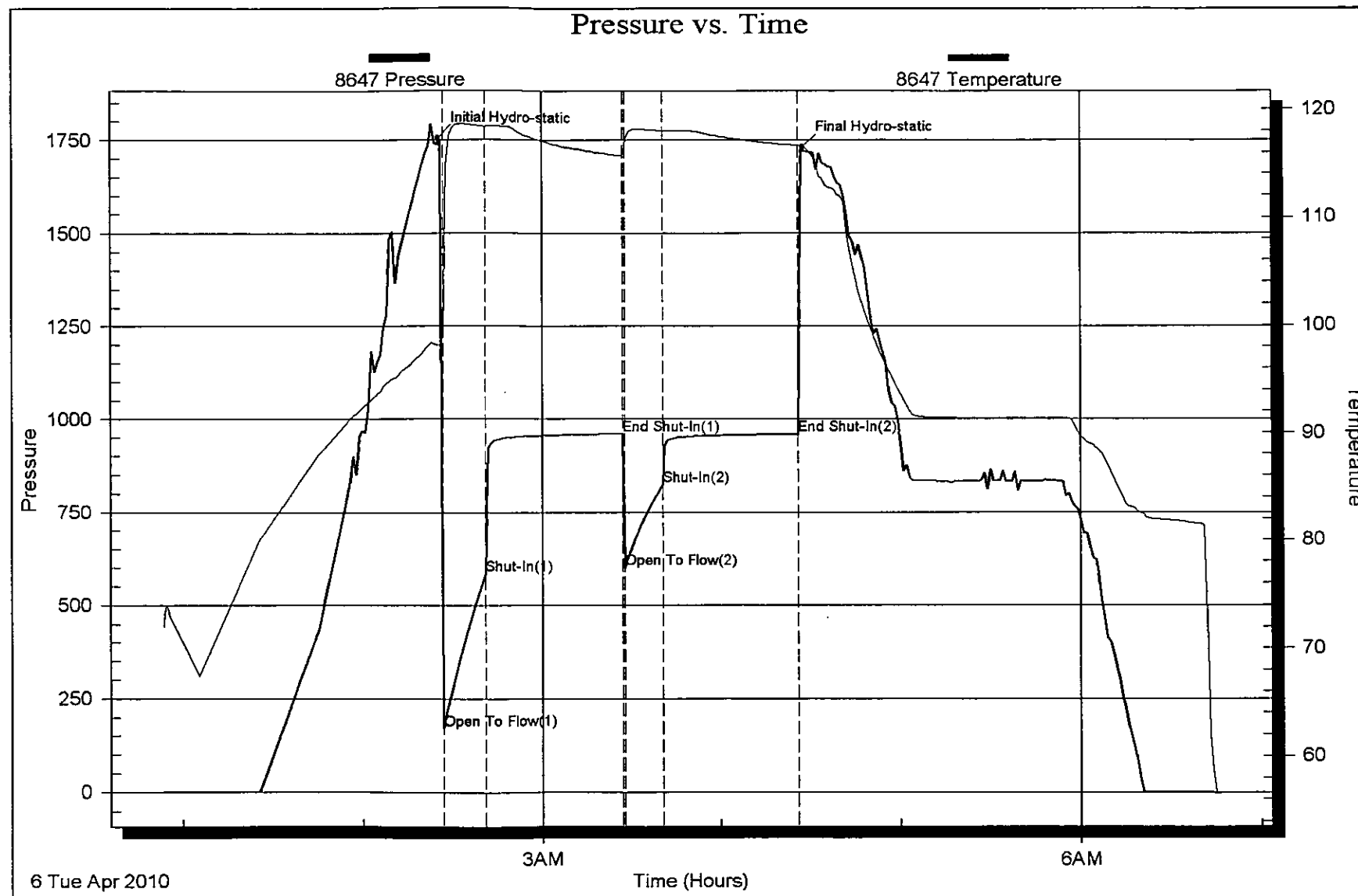
Num Gas Bombs: 0

Serial #:

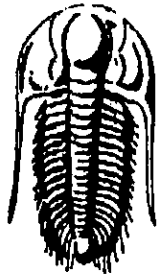
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Baird Oil Co., LLC**

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

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

**Thurlow #1-1**

Start Date: 2010.04.06 @ 12:14:52

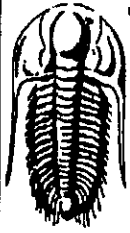
End Date: 2010.04.06 @ 17:57:46

Job Ticket #: 38154                      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 Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38154      DST#: 5

ATTN: Rich Bell

Test Start: 2010.04.06 @ 12:14:52

## GENERAL INFORMATION:

Formation: **LKC "E-F"**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 13:41:17  
 Time Test Ended: 17:57:46

Test Type: **Conventional Bottom Hole**  
 Tester: **Brian Fairbank**  
 Unit No: **41**

Interval: **3543.00 ft (KB) To 3565.00 ft (KB) (TVD)**  
 Total Depth: **3565.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2244.00 ft (KB)**  
**2239.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

## Serial #: 8647

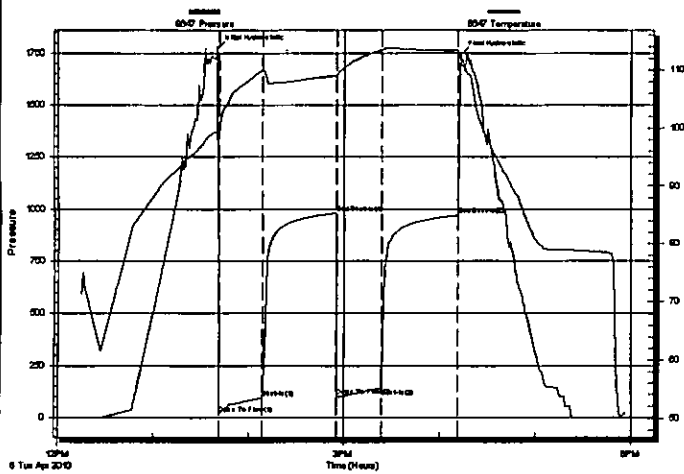
Inside

Press@RunDepth: **140.58 psig @ 3547.00 ft (KB)**  
 Start Date: **2010.04.06**      End Date: **2010.04.06**  
 Start Time: **12:14:52**      End Time: **17:57:46**

Capacity: **8000.00 psig**  
 Last Calib.: **2010.04.06**  
 Time On Btm: **2010.04.06 @ 13:40:17**  
 Time Off Btm: **2010.04.06 @ 16:12:47**

TEST COMMENT: IFP - BOB 9 min.  
 ISI - 2 1/2" blow back throughout  
 FFP - BOB 9 min.  
 FSI - 4 1/2" blow back throughout

Pressure vs. Time



## PRESSURE SUMMARY

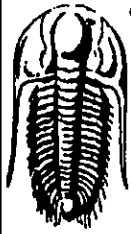
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.44	99.56	Initial Hydro-static
1	18.99	99.16	Open To Flow (1)
29	93.98	110.04	Shut-In(1)
75	979.42	109.05	End Shut-In(1)
76	101.84	108.99	Open To Flow (2)
103	140.58	113.44	Shut-In(2)
151	969.53	113.31	End Shut-In(2)
153	1743.54	111.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GO&MCW 10%G, 5%O, 70%W, 15%M	0.30
105.00	OCM 20%O, 80%M	0.90
160.00	FREE OIL 95%O, 5%M	2.24
0.00	355 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38154      **DST#: 5**

ATTN: Rich Bell

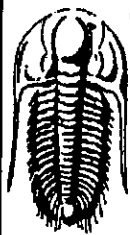
Test Start: 2010.04.06 @ 12:14:52

**Tool Information**

Drill Pipe:	Length: 3416.00 ft	Diameter: 3.80 inches	Volume: 47.92 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 48.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3543.00 ft			Final 42000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3528.00	
Hydraulic tool	5.00			3533.00	
Packer	5.00			3538.00	20.00      Bottom Of Top Packer
Packer	5.00			3543.00	
Stubb	1.00			3544.00	
Perforations	3.00			3547.00	
Recorder	0.00	8647	Inside	3547.00	
Recorder	0.00	8371	Outside	3547.00	
Perforations	15.00			3562.00	
Bullnose	3.00			3565.00	22.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38154

DST#: 5

ATTN: Rich Bell

Test Start: 2010.04.06 @ 12:14:52

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.53 in<sup>3</sup>

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
60.00	GO&MCW 10%G, 5%O, 70%W, 15%M	0.295
105.00	OCM 20%O, 80%M	0.899
160.00	FREE OIL 95%O, 5%M	2.244
0.00	355 GIP	0.000

Total Length: 325.00 ft

Total Volume: 3.438 bbl

Num Fluid Samples: 0

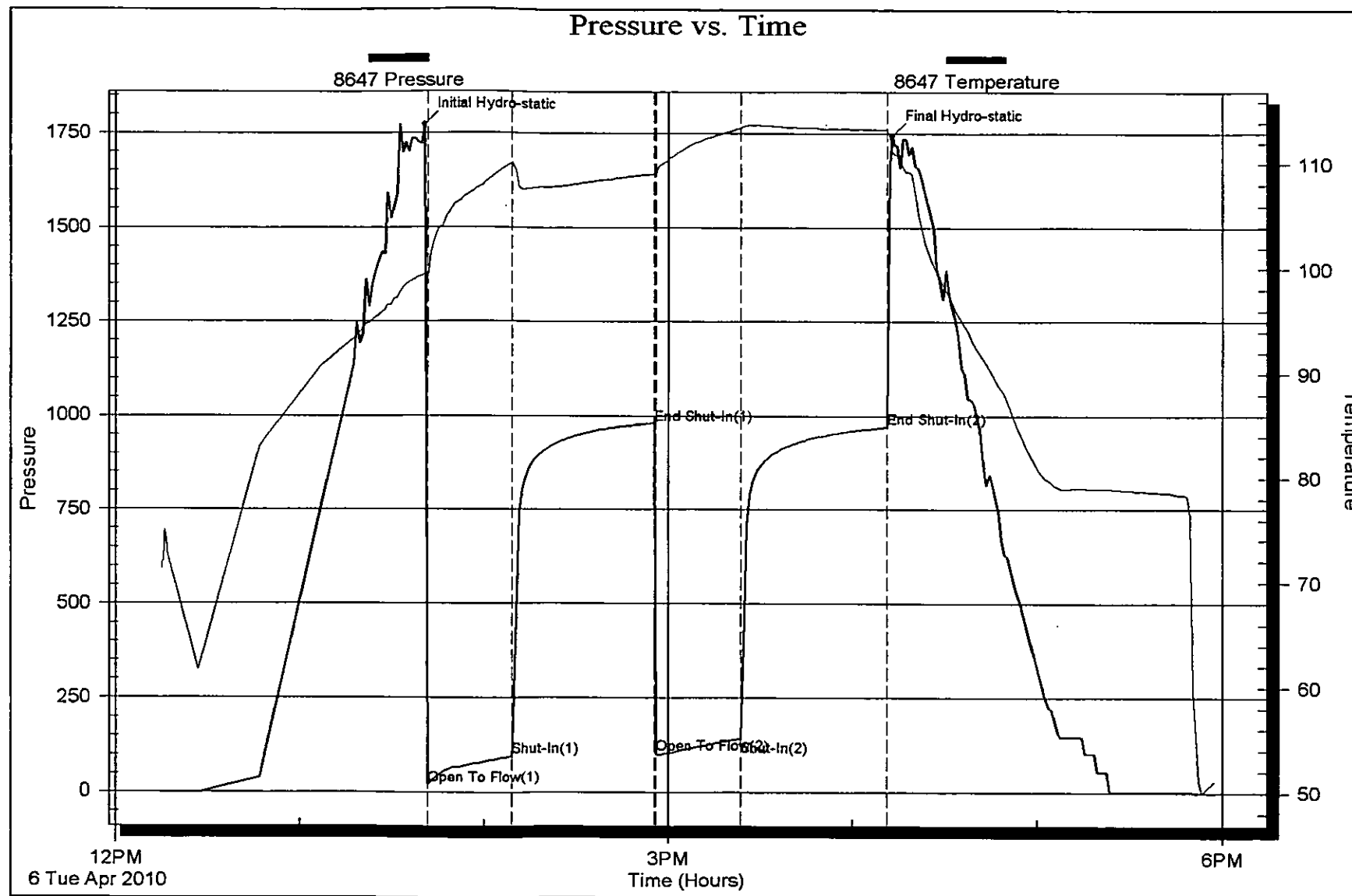
Num Gas Bombs: 0

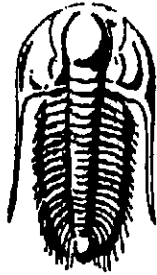
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Baird Oil Co., LLC**

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

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

**Thurlow #1-1**

Start Date: 2010.04.07 @ 01:45:00

End Date: 2010.04.07 @ 05:57:55

Job Ticket #: 38155                      DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Co., LLC

Thurlow #1-1

1-7s-22w Graham KS

DST # 6

LKC "1"

2010.04.07



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Baird Oil Co., LLC

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

**Thurlow #1-1**

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

Job Ticket: 38155      DST#: 6

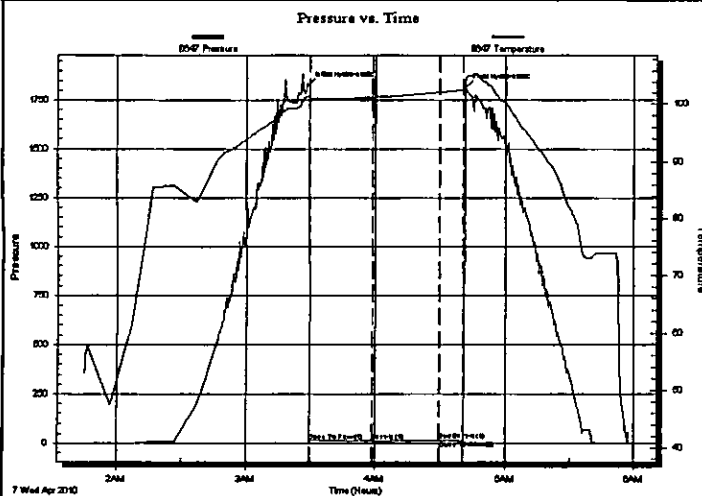
Test Start: 2010.04.07 @ 01:45:00

### GENERAL INFORMATION:

Formation: **LKC "I"**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: **03:29:25**  
 Time Test Ended: **05:57:55**  
 Interval: **3619.00 ft (KB) To 3636.00 ft (KB) (TVD)**  
 Total Depth: **3636.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **KB to GR/CF: 5.00 ft**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Brian Fairbank**  
 Unit No: **41**  
 Reference Elevations: **2244.00 ft (KB)**  
**2239.00 ft (CF)**

**Serial #: 8647**      **Inside**  
 Press@RunDepth: **12.35 psig @ 3623.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2010.04.07**      End Date: **2010.04.07**      Last Calib.: **2010.04.07**  
 Start Time: **01:45:00**      End Time: **05:57:55**      Time On Btm: **2010.04.07 @ 03:28:25**  
 Time Off Btm: **2010.04.07 @ 04:41:25**

**TEST COMMENT:** IFP - 1/4" intermittent blow  
 ISI - no blow back  
 FFP - no blow  
**TIME - 30-30-10**



### PRESSURE SUMMARY

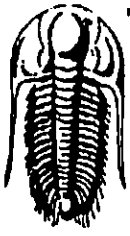
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1827.86	101.43	Initial Hydro-static
1	11.72	100.93	Open To Flow (1)
30	12.35	101.27	Shut-In(1)
61	13.73	102.20	End Shut-In(1)
62	12.64	102.22	Open To Flow (2)
72	13.22	102.60	Shut-In(2)
73	1818.56	104.11	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1.00	SOCM 10%O, 90%M	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38155

**DST#: 6**

ATTN: Rich Bell

Test Start: 2010.04.07 @ 01:45:00

**Tool Information**

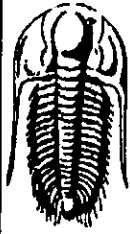
Drill Pipe:	Length: 3509.00 ft	Diameter: 3.80 inches	Volume: 49.22 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 49.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3619.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 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			3604.00	
Hydraulic tool	5.00			3609.00	
Packer	5.00			3614.00	20.00 Bottom Of Top Packer
Packer	5.00			3619.00	
Stubb	1.00			3620.00	
Perforations	3.00			3623.00	
Recorder	0.00	8647	Inside	3623.00	
Recorder	0.00	8371	Outside	3623.00	
Perforations	10.00			3633.00	
Bullnose	3.00			3636.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>37.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38155      DST#: 6

ATTN: Rich Bell

Test Start: 2010.04.07 @ 01:45:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 7.93 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3800.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API:      deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

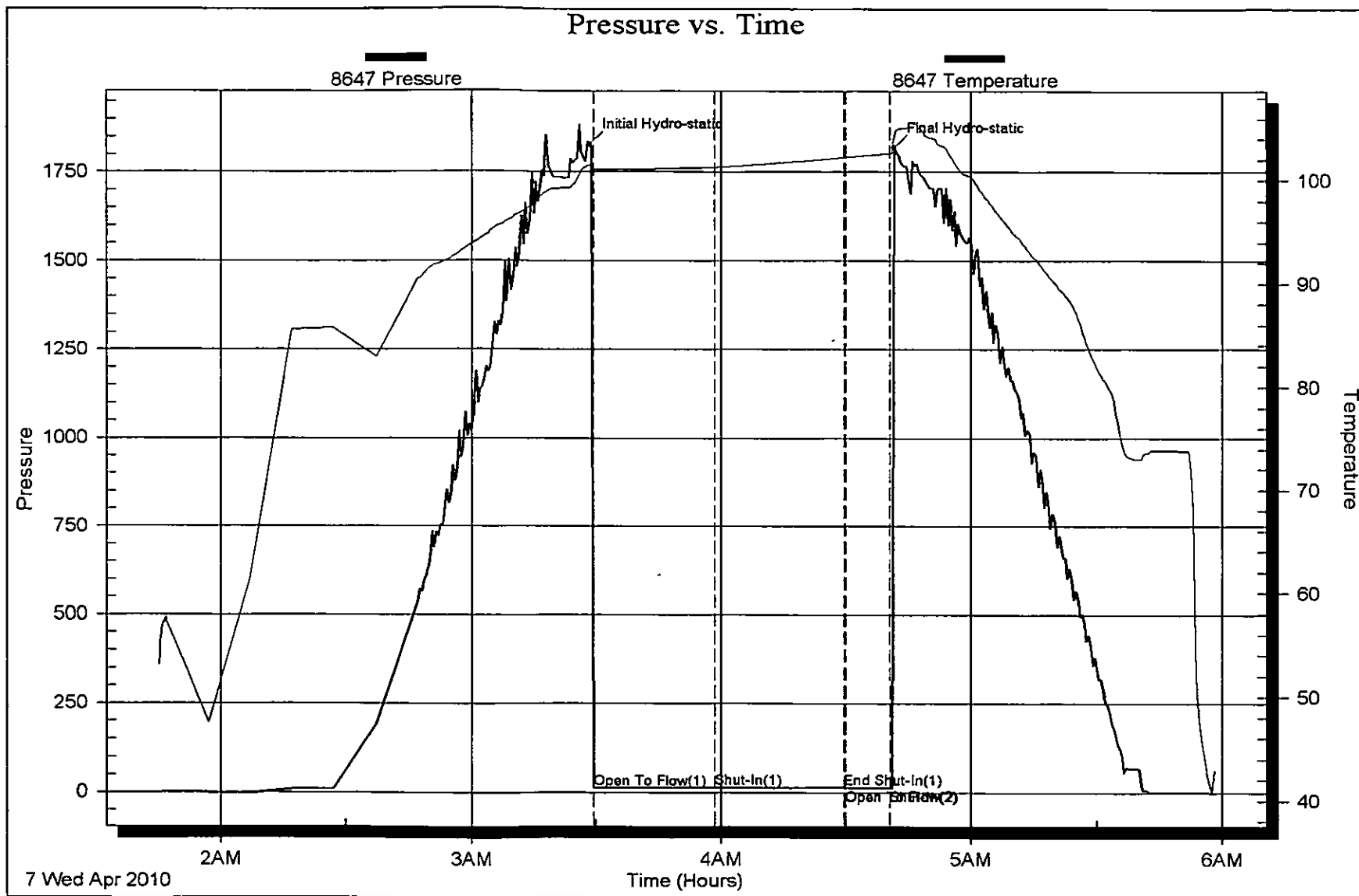
Length ft	Description	Volume bbl
1.00	SOCM 10%O, 90%M	0.005

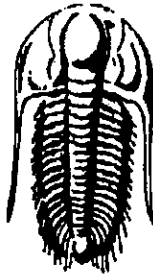
Total Length: 1.00 ft      Total Volume: 0.005 bbl

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 Co., LLC**

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

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

**Thurlow #1-1**

Start Date: 2010.04.07 @ 12:54:44

End Date: 2010.04.07 @ 18:52:14

Job Ticket #: 38156                      DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Co., LLC

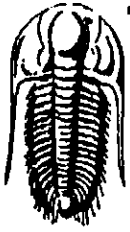
Thurlow #1-1

1-7s-22w Graham KS

DST # 7

LKC "K"

2010.04.07



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Co., LLC

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

**Thurlow #1-1**

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

Job Ticket: 38156

DST#: 7

Test Start: 2010.04.07 @ 12:54:44

## GENERAL INFORMATION:

Formation: **LKC "K"**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 14:27:14  
 Time Test Ended: 18:52:14

Test Type: **Conventional Bottom Hole**  
 Tester: **Brian Fairbank**  
 Unit No: **41**

Interval: **3644.00 ft (KB) To 3664.00 ft (KB) (TVD)**  
 Total Depth: **3664.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2244.00 ft (KB)**  
**2239.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

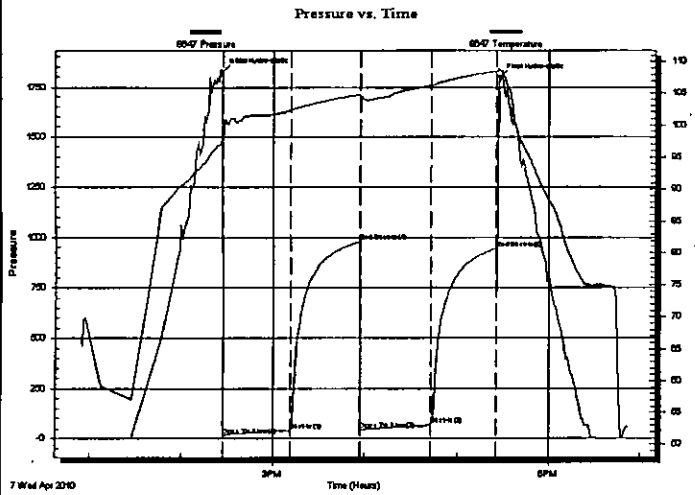
## Serial #: 8647

**Inside**

Press@RunDepth: **66.66 psig @ 3646.00 ft (KB)**  
 Start Date: **2010.04.07** End Date: **2010.04.07**  
 Start Time: **12:54:49** End Time: **18:52:13**

Capacity: **8000.00 psig**  
 Last Calib.: **2010.04.07**  
 Time On Btm: **2010.04.07 @ 14:26:14**  
 Time Off Btm: **2010.04.07 @ 17:27:44**

TEST COMMENT: IFP - weak blow throughout sur - 2"  
 ISI - no blow back  
 FFP - no blow 6 min - 1/2"  
 FSI - no blow back



## PRESSURE SUMMARY

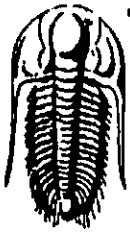
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.15	97.84	Initial Hydro-static
1	16.25	97.77	Open To Flow (1)
45	40.93	102.24	Shut-In(1)
91	978.43	104.82	End Shut-In(1)
91	44.16	104.55	Open To Flow (2)
137	66.66	106.28	Shut-In(2)
180	943.91	108.42	End Shut-In(2)
182	1797.86	108.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 70%W, 30%M	0.30
15.00	VM 20%W, 80%M	0.07

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428  
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38156

DST#: 7

ATTN: Rich Bell

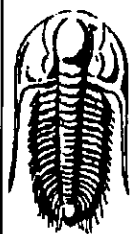
Test Start: 2010.04.07 @ 12:54:44

## Tool Information

Drill Pipe:	Length: 3508.00 ft	Diameter: 3.80 inches	Volume: 49.21 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3644.00 ft			Final 42000.00 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
Shut In Tool	5.00			3629.00	
Hydraulic tool	5.00			3634.00	
Packer	5.00			3639.00	20.00 Bottom Of Top Packer
Packer	5.00			3644.00	
Stubb	1.00			3645.00	
Perforations	1.00			3646.00	
Recorder	0.00	8647	Inside	3646.00	
Recorder	0.00	8371	Outside	3646.00	
Perforations	15.00			3661.00	
Bullnose	3.00			3664.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38156      DST#: 7

ATTN: Rich Bell

Test Start: 2010.04.07 @ 12:54:44

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 59.00 sec/qt  
Water Loss: 7.95 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3800.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 31000 ppm

## Recovery Information

Recovery Table

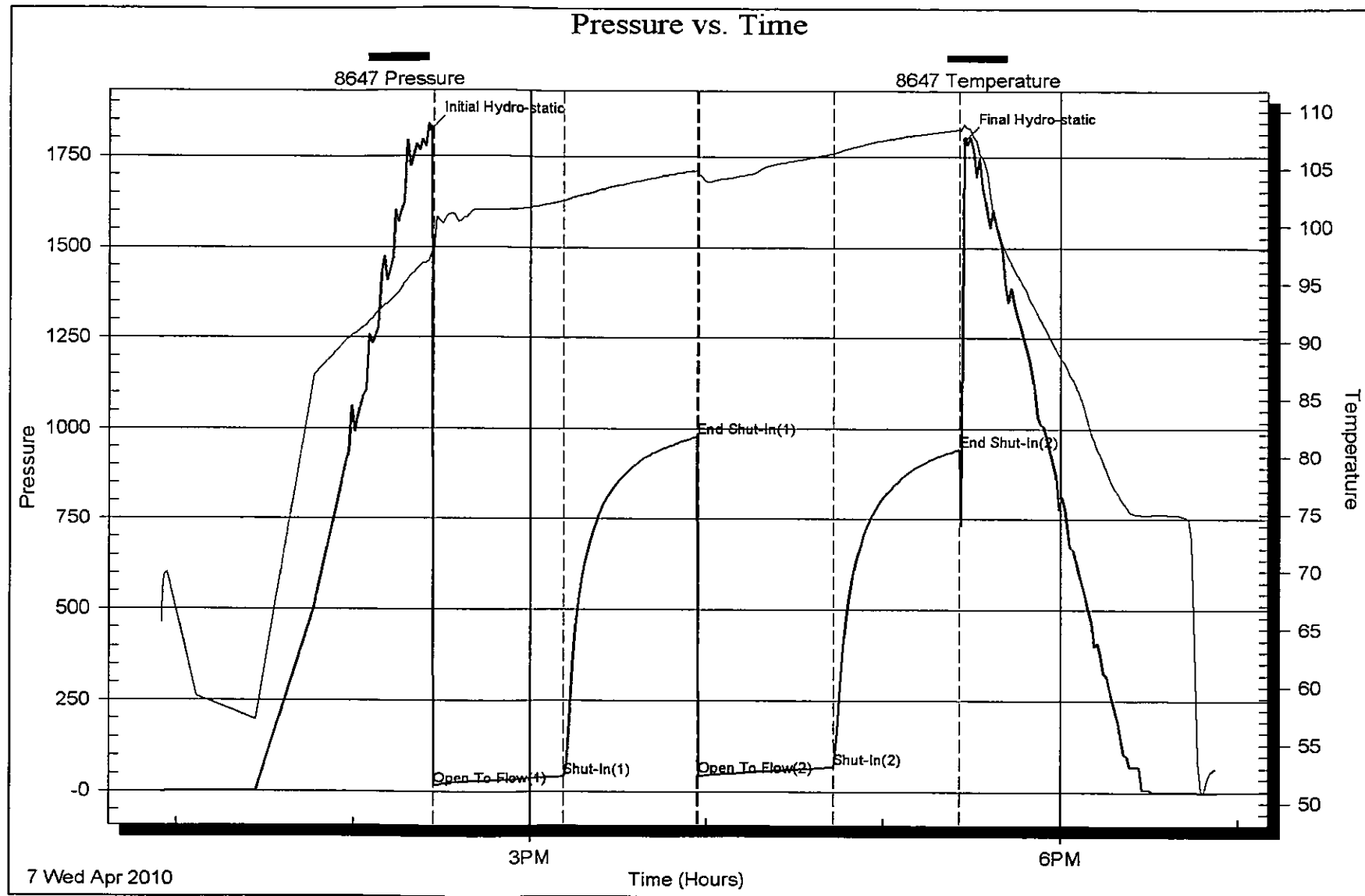
Length ft	Description	Volume bbl
60.00	MW 70%W, 30%M	0.295
15.00	VM 20%W, 80%M	0.074

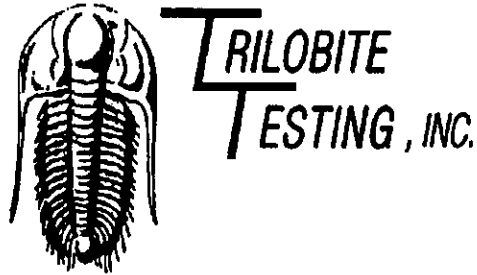
Total Length: 75.00 ft      Total Volume: 0.369 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .314 @ 50F = 31000 ppm chlorides





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

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

**Thurlow #1-1**

Start Date: 2010.04.08 @ 02:00:01

End Date: 2010.04.08 @ 05:57:26

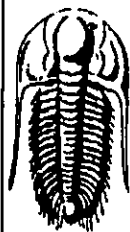
Job Ticket #: 38157                      DST #: 8

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 Co., LLC

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

**Thurlow #1-1**

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

Job Ticket: 38157      DST#: 8

Test Start: 2010.04.08 @ 02:00:01

### GENERAL INFORMATION:

Formation: **Cgl. Sand**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 03:31:56  
 Time Test Ended: 05:57:26  
 Interval: **3719.00 ft (KB) To 3744.00 ft (KB) (TVD)**  
 Total Depth: **3744.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition:      KB to GR/CF: **5.00 ft**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Brian Fairbank**  
 Unit No: **41**  
 Reference Elevations: **2244.00 ft (KB)**  
**2239.00 ft (CF)**

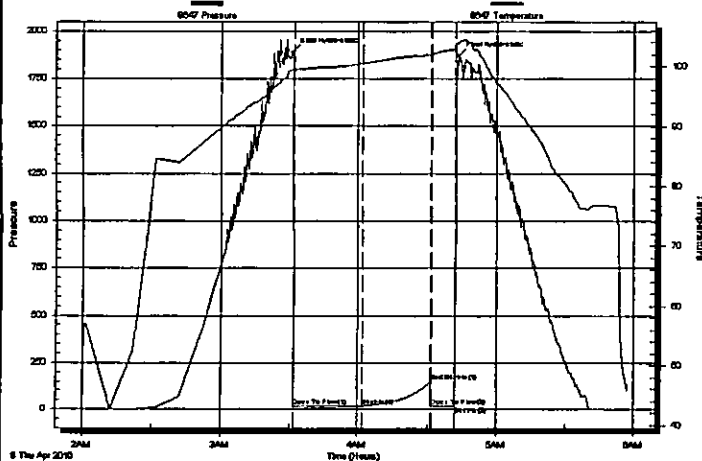
### Serial #: 8647

Inside

Press@RunDepth: **16.67 psig @ 3721.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2010.04.08**      End Date: **2010.04.08**      Last Calib.: **2010.04.08**  
 Start Time: **02:00:01**      End Time: **05:57:26**      Time On Btm: **2010.04.08 @ 03:30:56**  
 Time Off Btm: **2010.04.08 @ 04:42:56**

TEST COMMENT: IFP - 1/4" blow - died 25 min.  
 ISI - no blow back  
 FFP - no blow  
 TIME - 30-30-10

Pressure vs. Time



### PRESSURE SUMMARY

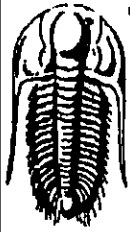
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.24	99.55	Initial Hydro-static
1	15.16	98.90	Open To Flow (1)
31	16.67	100.52	Shut-In(1)
61	148.35	101.98	End Shut-In(1)
61	17.30	101.94	Open To Flow (2)
71	17.48	102.88	Shut-In(2)
72	1872.32	103.66	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2.00	SOCM 10%O, 90%M	0.01

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38157

DST#: 8

ATTN: Rich Bell

Test Start: 2010.04.08 @ 02:00:01

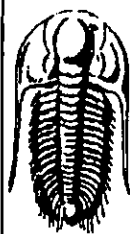
**Tool Information**

Drill Pipe:	Length: 3601.00 ft	Diameter: 3.80 inches	Volume: 50.51 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 51.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3719.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3704.00	
Hydraulic tool	5.00			3709.00	
Packer	5.00			3714.00	20.00 Bottom Of Top Packer
Packer	5.00			3719.00	
Stubb	1.00			3720.00	
Perforations	1.00			3721.00	
Recorder	0.00	8647	Inside	3721.00	
Recorder	0.00	8371	Outside	3721.00	
Perforations	20.00			3741.00	
Bullnose	3.00			3744.00	25.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>45.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38157      DST#: 8

ATTN: Rich Bell

Test Start: 2010.04.08 @ 02:00:01

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 7.57 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3700.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API:      deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

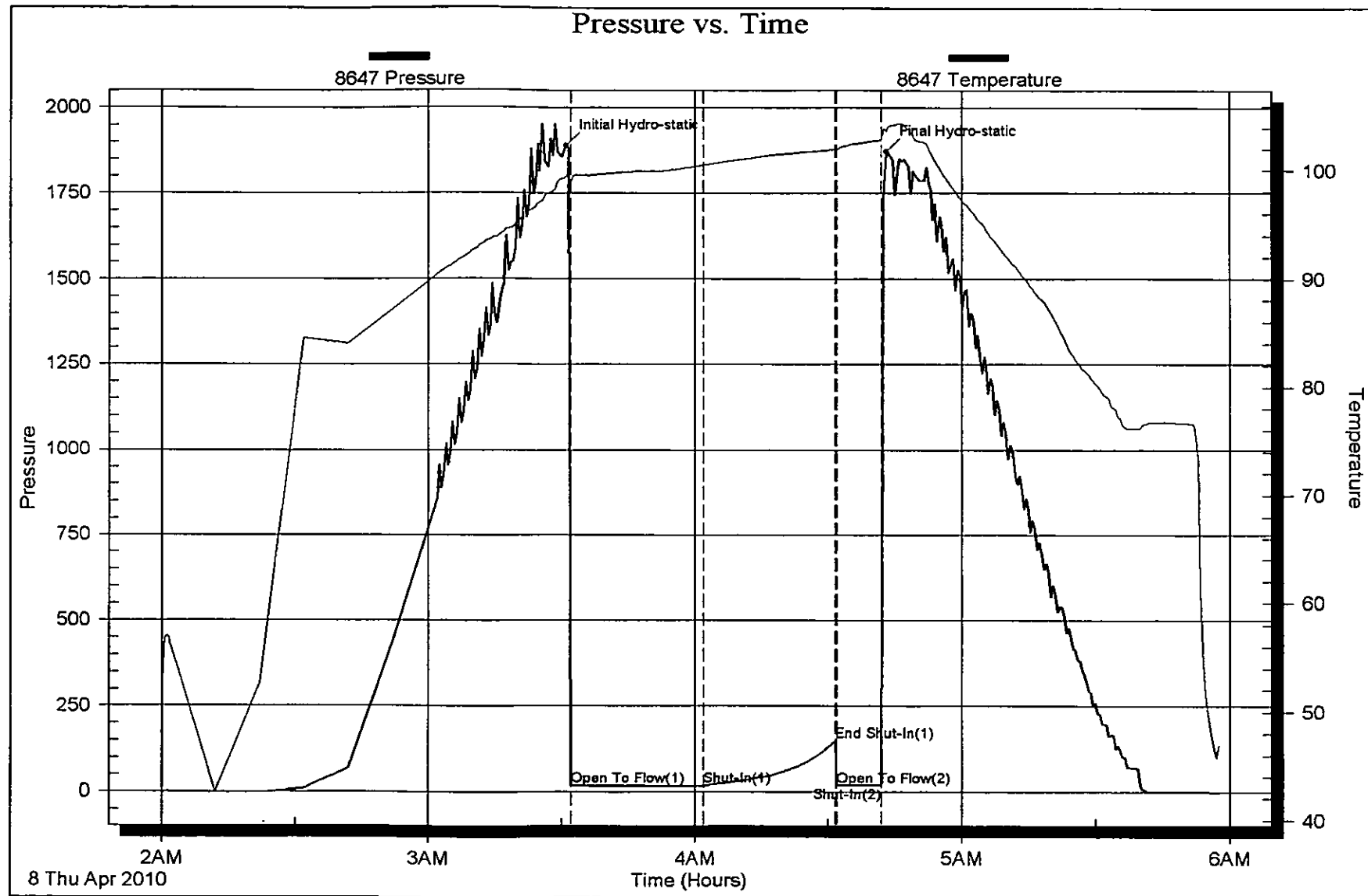
Length ft	Description	Volume bbl
2.00	SOCM 10%O, 90%M	0.010

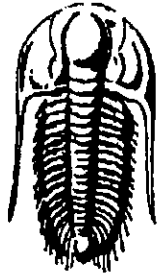
Total Length: 2.00 ft      Total Volume: 0.010 bbl

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 Co., LLC**

PO Box 428  
Logan, KS 67646

ATTN: Rich Bell

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

**Thurlow #1-1**

Start Date: 2010.04.08 @ 16:32:35

End Date: 2010.04.08 @ 21:27:29

Job Ticket #: 38158                      DST #: 9

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2010.04.19 @ 15:15:25 Page 1

Baird Oil Co., LLC

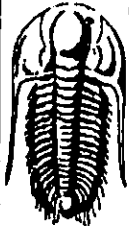
Thurlow #1-1

1-7s-22w Graham KS

DST # 9

Arbuckle

2010.04.08



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Co., LLC

Thurlow #1-1

PO Box 428  
Logan, KS 67646

1-7s-22w Graham KS

Job Ticket: 38158      DST#: 9

ATTN: Rich Bell

Test Start: 2010.04.08 @ 16:32:35

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 17:53:30  
 Time Test Ended: 21:27:29

Test Type: **Conventional Straddle**  
 Tester: **Brian Fairbank**  
 Unit No: **41**

Interval: **3746.00 ft (KB) To 3762.00 ft (KB) (TVD)**  
 Total Depth: **3791.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2244.00 ft (KB)**  
**2239.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

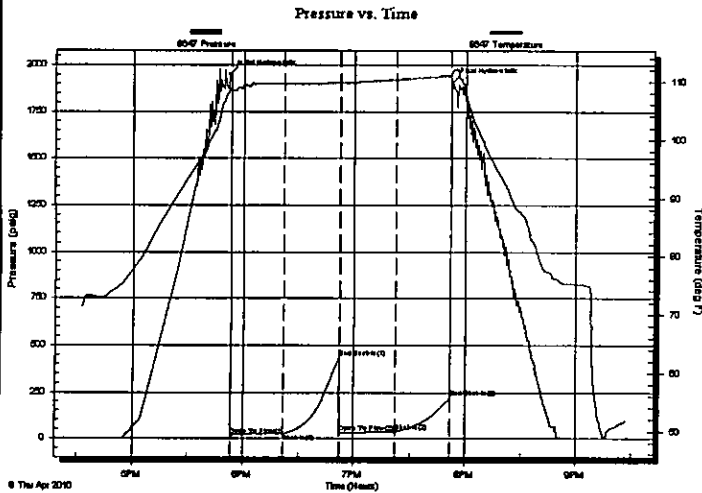
Serial #: **8647**

Inside

Press@RunDepth: **36.88 psig @ 3752.00 ft (KB)**  
 Start Date: **2010.04.08**      End Date: **2010.04.08**  
 Start Time: **16:32:35**      End Time: **21:27:29**

Capacity: **8000.00 psig**  
 Last Calib.: **2010.04.08**  
 Time On Btrr: **2010.04.08 @ 17:52:00**  
 Time Off Btrr: **2010.04.08 @ 19:52:30**

TEST COMMENT: IFP - weak blow throughout 1/4" - 1 1/4"  
 ISI - no blow back  
 FFP - weak blow throughout sur - 1/4"  
 FSI - no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.90	108.45	Initial Hydro-static
2	16.61	108.47	Open To Flow (1)
30	26.48	109.62	Shut-In(1)
60	431.41	109.87	End Shut-In(1)
61	33.43	109.72	Open To Flow (2)
91	36.88	110.35	Shut-In(2)
120	220.53	111.05	End Shut-In(2)
121	1912.98	111.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 15%O, 85%M	0.10
40.00	MO 85%O, 15%M	0.20

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38158

**DST#: 9**

ATTN: Rich Bell

Test Start: 2010.04.08 @ 16:32:35

**Tool Information**

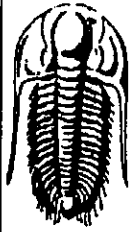
Drill Pipe:	Length: 3633.00 ft	Diameter: 3.80 inches	Volume: 50.96 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 51.56 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3746.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	3762.00 ft			
Interval between Packers:	16.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

**Tool Comments:**

Tool slid 1' to bottom

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3731.00		
Hydraulic tool	5.00			3736.00		
Packer	5.00			3741.00	20.00	Bottom Of Top Packer
Packer	5.00			3746.00		
Stubb	1.00			3747.00		
Perforations	5.00			3752.00		
Recorder	0.00	8647	Inside	3752.00		
Recorder	0.00	8371	Outside	3752.00		
Perforations	5.00			3757.00		
Blank Off Sub	1.00			3758.00		
Blank Spacing	4.00			3762.00	16.00	Tool Interval
Packer	5.00			3767.00		
Stubb	1.00			3768.00		
Perforations	25.00			3793.00		
Recorder	0.00	8657	Below	3793.00		
Bullnose	3.00			3796.00	34.00	Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>70.00</b>					



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Co., LLC

**Thurlow #1-1**

PO Box 428  
Logan, KS 67646

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

Job Ticket: 38158      DST#: 9

ATTN: Rich Bell

Test Start: 2010.04.08 @ 16:32:35

**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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM 15%O, 85%M	0.098
40.00	MO 85%O, 15%M	0.197

Total Length: 60.00 ft      Total Volume: 0.295 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



