



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1106473
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1106473

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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 <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	White-Worcester Unit 1-11
Doc ID	1106473

Tops

Name	Top	Datum
Anhydrite	1825	+378
Base Anhydrite	1857	+346
Topeka	3200	-997
Heebner	3396	-1193
Toronto	3424	-1221
Lansing	3439	-1236
Base Kansas City	3630	-1427
Marmaton	3671	-1468
Arbuckle	3636	-1533
Total Depth	3763	-1560

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 02, 2013

Jim R. Baird
Baird Oil Company LLC
113 W MAIN
PO BOX 428
LOGAN, KS 67646

Re: ACO1
API 15-065-23862-00-00
White-Worcester Unit 1-11
NE/4 Sec.11-07S-22W
Graham County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Jim R. Baird

SWIFT



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



Invoice

DATE	INVOICE #
10/2/2012	22838

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	#1-11	White/Worch...	Graham	WW Drilling #8	Oil	Development	Cement Surface	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	6.00	420.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.) - 217 Feet				1	Job	1,000.00	1,000.00
290	D-Air				2	Gallon(s)	35.00	70.00T
325	Standard Cement				150	Sacks	13.50	2,025.00T
278	Calcium Chloride				5	Sack(s)	40.00	200.00T
279	Bentonite Gel				3	Sack(s)	25.00	75.00T
581D	Service Charge Cement				150	Sacks	2.00	300.00
583D	Drayage				518	Ton Miles	1.00	518.00
	Subtotal							4,608.00
	Sales Tax Graham County						7.55%	178.94
	<p>R 10/8/12 P 10/9/12 Whitwork 19002 4786.94</p> <p>Whit-Worcester Unit 1-11 - pump charge, cement, and other misc used to cement surface casing.</p>							

We Appreciate Your Business!

Total

\$4,786.94



CHARGE TO: Boiled Oil Co. Inc
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET No. **22838**

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Hays, KS WELL/PROJECT NO. _____ LEASE White Lake West Unit COUNTY/PARISH Graham STATE KS DATE 10-2-12 OWNER _____
 2. Ness City, KS TICKET TYPE SALES CONTRACTOR WIS DTE RIG NAME/NO. #8 SHIPPED VIA CT DELIVERED TO NE/HELL CO, KS ORDER NO. _____
 3. _____ WELL TYPE _____ WELL CATEGORY _____ JOB PURPOSE _____ WELL PERMIT NO. _____ WELL LOCATION _____
 4. _____ REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 110	70.241				600	42000
576 S		1			Rump Charge - east Skidlaw Surface	100		217	FF	100000	100000
298		1			D-Air	200				3500	7000
385		2			Standard Cement	150	Sks	1400	Lbs	1350	202500
278		2			Calcium Chloride	5	Sks	700	Lbs	2000	20000
279		2			Benforst Gel	3	Sks	300	Lbs	2500	7500
581		2			Service Charge	150	Sks			200	30000
583		2			Drayage	70	Mi	518	TW/14800	Lbs	51800

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 10-2-12 TIME SIGNED 1800 A.M. P.M.
 Signature: [Handwritten Signature]

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

SURVEY

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? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 340800
 TAX 7.55%
 TOTAL 47869

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR [Signature] APPROVAL _____
 Thank You

JOB LOG

SWIFT Services, Inc.

DATE 10-2-12 PAGE NO. 1

CUSTOMER Barril Oil Co, Inc WELL NO. 1-11 LEASE White/Wardchester Unit JOB TYPE Permit Surface TICKET NO. 22838

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1745							TD-218' No location - Rig Drg Setup Tools. TP-223' KB to 217' Rig run 8 5/8 24#/ft CG to 217' Rig circ / chain down casing Fin circ - Hank to Swift
		4 1/2	3				200	Start 3 BBI H ₂ O ahead
		4 1/2						Start 150 sts steel cent 2 1/2 gal 3 1/2 cc.
		4 1/2	36					Fin cent - start Displ - 12 1/2 BBI
	1945		12 1/2				200	Fin Displ. close in @ Head Release Tool psi. Washup & Breakup 20 sts cent circ to Pit
	2000							Job Complete
								Thanks Alan, Brian & Jeremy

SWIFT



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



Invoice

DATE	INVOICE #
10/9/2012	22861

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	#1-11	Wait-Worces...	Graham	WW Drilling Rig #8	SWD	Development	LongString - Plu...	Nick

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	75	Miles	6.00	450.00
578D-L	Pump Charge - Long String	1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)	2	Gallon(s)	25.00	50.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
290	D-Air	4	Gallon(s)	35.00	140.00T
402-5	5 1/2" Centralizer	8	Each	70.00	560.00T
403-5	5 1/2" Cement Basket	2	Each	250.00	500.00T
405-5	5 1/2" Formation Packer Shoe	1	Each	1,400.00	1,400.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	250.00	250.00T
330	Swift Multi-Density Standard (MIDCON II)	350	Sacks	16.50	5,775.00T
276	Flocele	100	Lb(s)	2.00	200.00T
581D	Service Charge Cement	350	Sacks	2.00	700.00
583D	Drayage	1,283	Ton Miles	1.00	1,283.00
	Subtotal				13,433.00
	SWD &/Or Injection Well, Exempt From Sales Tax			0.00%	0.00

R 10/15/12
P 10/16/12
whit worc 190402 13,433.00
white/worces unit 1-11 SWD - pump
charge, cement, + other misc.
used to cement production casing.

We Appreciate Your Business!	Total	\$13,433.00
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CHARGE TO: **Barnd O.I. Co.**
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET No **22861**

PAGE 1 OF 2

SERVICE LOCATIONS
 1. **Hays, KS**
 2. **Ness City, KS**
 3.
 4.

WELL/PROJECT NO. **#1-11** LEASE **Wait-Worcester** COUNTY/PARISH **Grigham** STATE **KS** DATE **10-9-12** OWNER **Sane**

TICKET TYPE SERVICE CONTRACTOR **W & W Rig #8** RIG NAME/NO. **W & W Rig #8** SHIPPED VIA **CT** DELIVERED TO **Location** ORDER NO.
 SALES WELL CATEGORY **Development** JOB PURPOSE **longstring** **Playback** WELL PERMIT NO. WELL LOCATION

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575						75					6.00	450.00
578					Pump Charge (Longstring)	1	ea				1500.00	1500.00
221					KEL	2	gal				25.00	50.00
281					Dr Mud Flush	500	gal				1.25	625.00
290					Dr D-Ar	4	gal				35.00	140.00
402					Centralizers	2	ea				70.00	140.00
403					Baskets	2	ea				250.00	500.00
405					Formation Pro Shore	1	ea				1400.00	1400.00
406					L.D. Plug + Baffle	1	ea				250.00	250.00

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 **Richard Shell** DATE SIGNED **10-9-12** TIME SIGNED **1745**

A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

UN-DECIDED	DIS-AGREE	PAGE TOTAL	TOTAL
		1	13,433.00
		2	13,433.00
		Subtotal	7958.00
		SWD dr	13,433.00
		TAX	13,433.00
		TOTAL	13,433.00

SWIFT OPERATOR: **Mark P. Perdue** APPROVAL: **Mark P. Perdue**

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

Thank You

JOB LOG

SWIFT Services, Inc.

DATE 10-9-12 PAGE NO.

CUSTOMER Baird Oil Co WELL NO. #1-11 LEASE Wait/Worcester JOB TYPE Plug Back/Longstring TICKET NO. 22861

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11:30							on loc w/ FE RTD 3763' D.P. 3716'
	12:20	5	0					start wtr start cont 50 sks SMD @ 1.3 #
			10/0					cent. 1, 3, 5, 7, 9, 11, 13, 28 Bask 14, 29
			17/0					
			31/0					
	12:30		35					
								Balanced TOOH w/ D.P. 5 1/2" x 14 # x 1841' x 44'
	15:30							start F.E.
	16:20							Break Circ & Set Pkr. Shoe
	16:40	2.5	7					Plug R.H. 30 sks SMD
	16:45	5	0				150	start Mud Flush
		5	12/0				150	start KCl Flush
		5	20/0				150	start 125 sks SMD @ 11.2 #
		5	69/0				150	start 75 sks SMD @ 12.7 #
		5	35/0				150	start 50 sks SMD @ 13 #
		5	17/0				150	start 50 sks SMD @ 14.5 #
	17:20		13					End Cement wash Pkr
								Drop L.D. Plug
	17:27	6	0				150	start Displacement
		5	22				250	Circ Cement
	17:35		44				500 / 1100	Land Plug
								circ 35 sks to pit
								Thank you
								Nick, David E. & Flint



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

TICKET CONTINUATION

TICKET No. 22861

CUSTOMER *Baird Oil Co* WELL *#1-11 Unit West* DATE *10-9-12* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE		AMOUNT
		LOC	ACCT	DF			QTY.	UM	QTY.	UM			
330		2				SMD Seat	350	cks	Eq		16.50	5775.00	
276		2				Flocele	100	tr			2.00	200.00	
581		2				SERVICE CHARGE					2.00	700.00	
583		2				MILEAGE CHARGE					1.00	1283.00	
						TOTAL WEIGHT							
						LOADED MILES							
						CUBIC FEET							
						TON MILES							

CONTINUATION TOTAL 7958.00

A.P.I. # 15-065-23862-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC
 LEASE White-Worcester Unit # 1-11
 FIELD _____
 LOCATION 330' ENL + 105' FEL
 SEC 11 TWSP 7S RGE 22W
 COUNTY Graham STATE Kansas

ELEVATION
 KB 2203'
 DF 2201'
 GL 2198'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR W/W Drilling Rig # 8
 SPUD 10-2-12 COMP 10-9-12
 SAMPLES SAVED FROM 3170' TO R.T.D.

CASING
 Surface 8 5/8" @ 218'
 Production 5 1/2" to 1831'
 ELECTRIC LOGS
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>2. log</u>				
<u>Anhydrite</u>	<u>1830</u>	<u>1825 +</u>	<u>378</u>	<u>+ 368</u>			
<u>Base Anhydrite</u>	<u>1861</u>	<u>1857 +</u>	<u>346</u>	<u>+ 336</u>			
<u>Topeka</u>	<u>3201</u>	<u>3200 -</u>	<u>997</u>	<u>- 995-1004</u>			
<u>Heebner</u>	<u>3397</u>	<u>3396 -</u>	<u>1193</u>	<u>-1195-1203</u>			
<u>Toronto</u>	<u>3425</u>	<u>3424 -</u>	<u>1221</u>	<u>-1220-1225</u>			
<u>Lansing</u>	<u>3440</u>	<u>3439 -</u>	<u>1236</u>	<u>-1234-1242</u>			
<u>Base Kansas City</u>	<u>3631</u>	<u>3630 -</u>	<u>1427</u>	<u>-1422-1427</u>			
<u>Warmatan</u>	<u>3672</u>	<u>3671 -</u>	<u>1468</u>	<u>-1465-1470</u>			
<u>Arbuckle</u>	<u>3737</u>	<u>3636 -</u>	<u>1533</u>	<u>-1540</u>			
<u>Total Depth</u>	<u>3764</u>	<u>3763 -</u>	<u>1560</u>	<u>-1578-1558</u>			

REFERENCE WELLS

- ^a Baird O. Co. LLC, White #1-11, 710' ENL + 1230' FEL Sec. 11-7S-22W
- ^b Black Diamond O. Co. Inc, White #1, 470' ENL + 1900' FEL Sec. 11-7S-22W
- ^c
- ^d

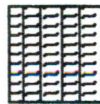
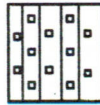



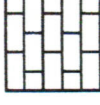
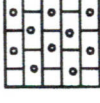
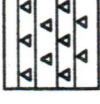

REMARKS

This well ran 2 feet lower to 6 feet higher on the casing top than the reference wells. After evaluating all data it was decided production casing would be cemented to the Anhydrite. The well will be used for saltwater disposal.

Richard B. Bell
10-19-12

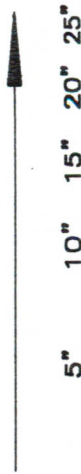
7502

LEGEND

- 
Anhydrite
- 
Salt
- 
Sandstone
- 
Shale
- 
Carb sh
- 
Limestone
- 
Ool.Lime
- 
Chert
- 
Dolomite

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



DEPTH

1020

40

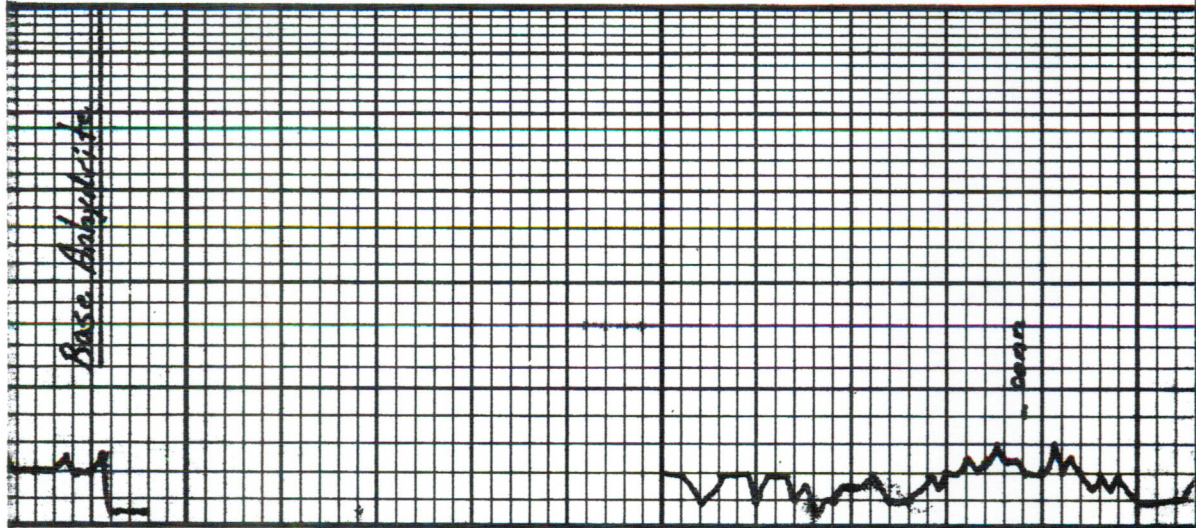
LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

LOG 7710



60

3100

20

40



Shi 906 Tr. 600 5th

11 11 11

Samples are lagged
good samples

can. test. m. l. g. v. s. e. s. r.

LS: wh. - gry. m. l. d. f. s. l. f. d. n. s.

SPSS gry. fr. gn. unconsol
m. d. n. g. N.S.O.

sh: gry, brn, yel

LS: wh. to cky - f. x. l. n. f. s. l. f.
d. n. s.

LS: wh. to cky - f. x. l. n. Tr. S. l. i.
ool PP P S. i. g. l. a. u. c. S. p. k. s.
N.S.O.

LS: wh. to cky - f. x. l. n. d. n. s.

LS: th - gry f. s. l. f. d. n. s.

LS: wh. to s. l. i. cky - f. x. l. n.
PP N.S.O.

LS: wh. to cky - f. x. l. n. - f. s. l. f.
PP P. r. i. a. b. l. e. N.S.O. - T. r. A. w. h.

LS: wh. to s. l. i. s. u. c. - f. e. l. o. p. p.
inc. d. n. y. w. h. o. t. e.

Same Tr. f. a. s. s. i. n. c. l. u. s.

LS: wh. to s. l. i. s. u. c. - f. e. l. o. p. p.



60

80

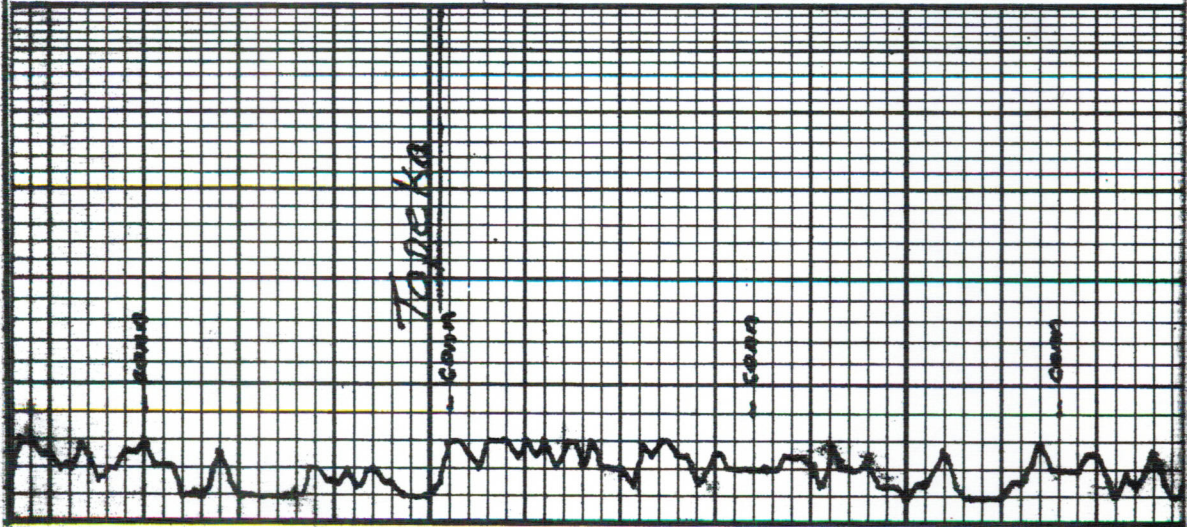
3200

20

40

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80



Tape Ka

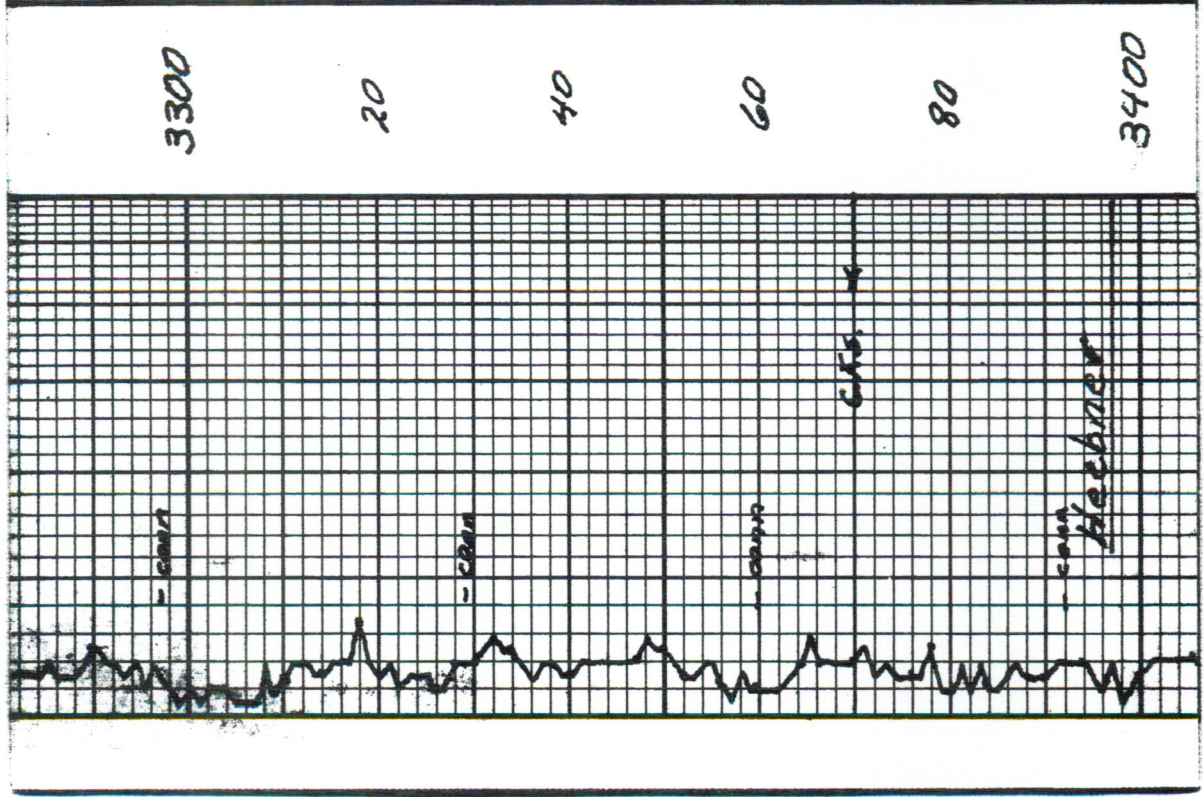
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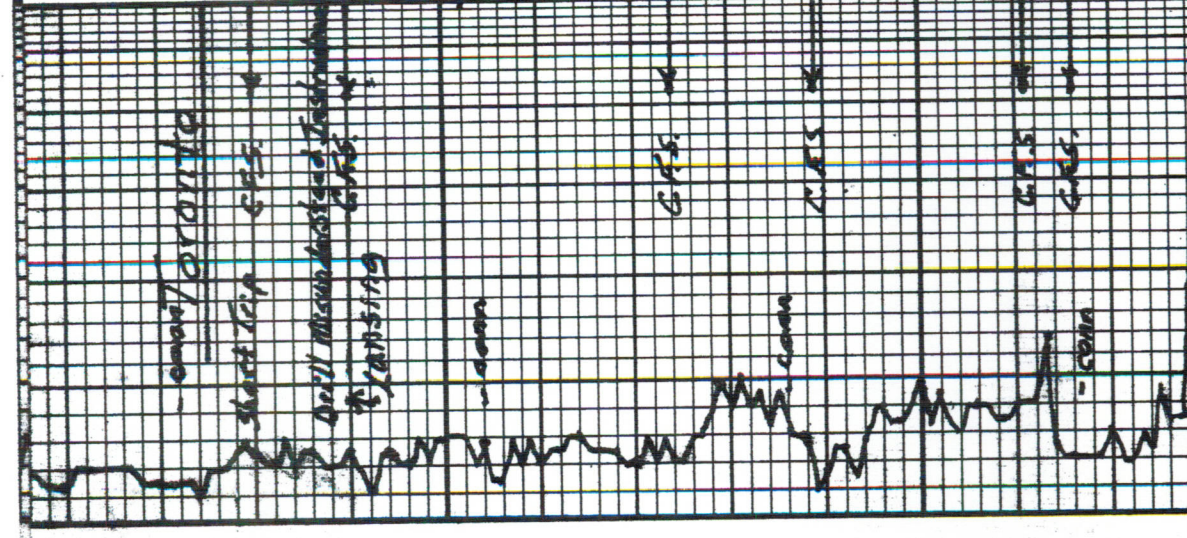
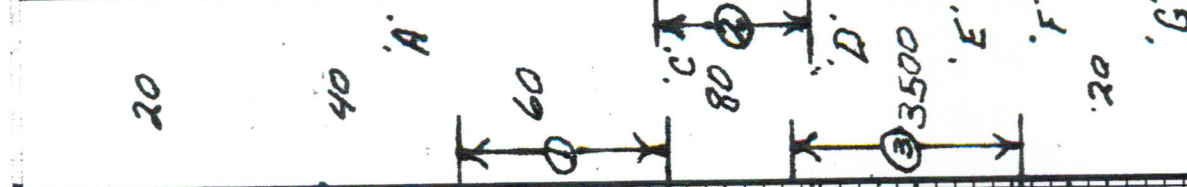
3300	<p>LS: wh to fx in dns</p> <p>LS: wh to tr. cky - Suc - fcln ppp NS.a T A wh to</p> <p>sh = brn, gry</p> <p>LS: wh to fx in Tr. oöl ppp NS.O. Tr D wh or Sh: BIK Carb LS: tr - gry fsl f dns</p> <p>LS: wh to fx in sl. oöl tr. ppc spks tr. fr. sept d Q Sta Tr pp fio. fr ad or</p> <p>LS: wh to sl cky. fclndns NS.O.</p> <p>LS: wh to cky - fcln sl. oöl w sl. fass. inclns. ppp NS.C. Tr A wh</p> <p>ag. Sh: gry</p> <p>LS: a a</p> <p>Sh: BIK Carb.</p> <p>LS: tr - gry fsl f dns</p>
20	
40	
60	
80	
3400	



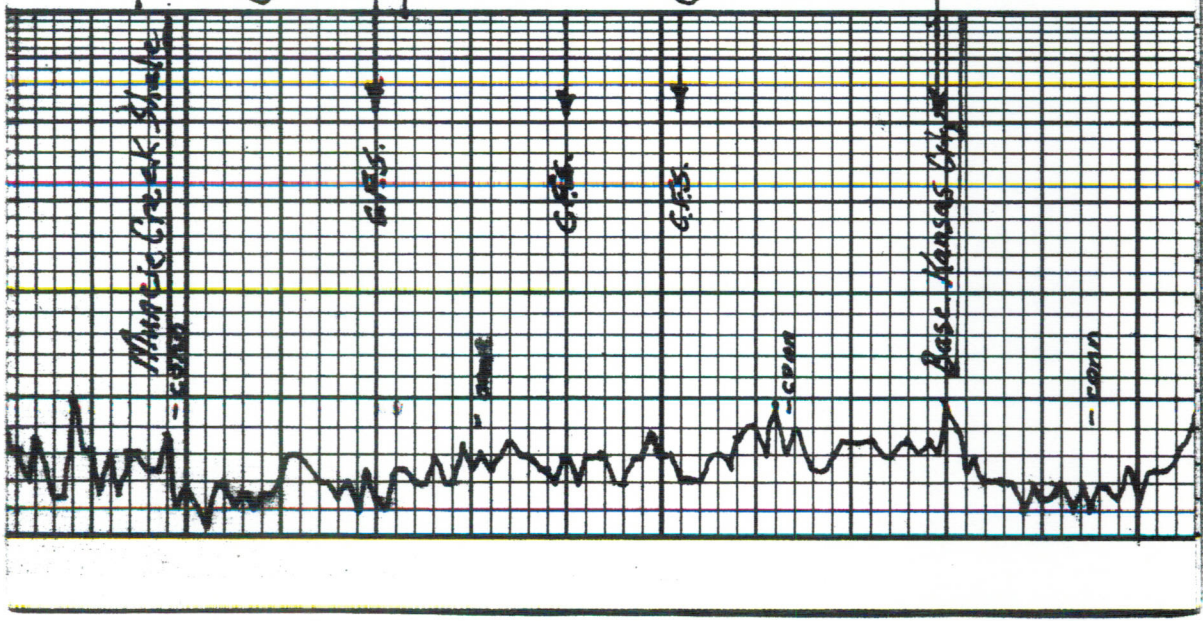
Strap 3488.90
Board 3486.80

Diff. 2.10
 Incline @ 3474 - 1°
 Trilobite Testing
 DST #1 3462-3474
 45-45-45-45
 IF: B.O.B. in 42 min
 ISI: No blow
 FF: WK blow incr. to 8 1/4"
 FSI: No blow
 Recovery: 20' G.I.P.
 234' total fluid
 5' W.C.O. 60% 352 W
 5% M
 105.50 MCW 27.0 682W
 124' MCW 92% W, 8% M
 MVD: 1697-1686 ft
 FP: 11-90/93-126 ft
 BNP: 623-610 ft
 BH Temp: 117°F.
 Chlorides: 92,000 ppm
 DST #2 3473-3489
 45-45-45-45
 IF: B.O.B. in 34 1/2 min.
 ISI: No blow
 FF: wk blow incr. to 10"
 FSI: No blow
 Recovery: 280' Total
 10' O.I. 126,962.0, 32 M
 85' Wtr. 515.0. 982W, 42 M

Shibra, grey
 LS: wh. to fcn Tr. sl: oil
 pr. pp & mostly dns N.S.O.
 Sh. wh. to fcn Tr. sol. vugs
 Tr. fr. spid 0.5th in vugs
 No oil
 LS: wh. to cky fcn dns
 LS: grey fs/f dns
 sh. grey, brn
 LS: wh. to fcn Tr. oil w/ fcs
 incl. 9d pp & vug spid
 0.5th - fr. 0.5th pp floating
 f. strong odor, 20' to 25'
 Shibra, grey
 LS: wh. to fcn sl: oil - sub
 oil pr. pp & fr. 0.5th
 pp f. 0.5th
 LS: wh. to cky fcn Tr. isol.
 vugs Tr. at spid 0.5th Tr
 floating f. a. oil
 LS: wh. to cky fcn Tr. pp &
 Tr. at spid 0.5th
 1 pc oil
 LS: wh. to sl: cky fcn Tr
 isol. vugs. N.S.O.



oil
 gas
 water



40	AS: wh to sl: cky-fxln shippative N.S.O. 2 wh tr
60	sh: blk carb AS: tn-gry mlt fsh das sh: brn, gry
80	AS: wh to sl: cky-fxln oil pp # - japat # Lt. O. 5 ft pp # m f. Q pt. odor
3600	sh: brn, gry AS: wh to cky - microxln V. das N.S.O.
20	AS: wh to cky - fxln V.R.T. sl. oil pr. pp # pr. Lt. O. 5 ft N.F.O. No odor
40	sh: brn, gry AS: wh to sl: cky - fxln tr oil shippative N.S.O. pr. Lt. O. 5 ft tr. floating R.O. fr. odor
	AS: wh to sl: cky - fxln oil pp # tr. floating R.O. fr. odor
	sh: brn, gry, grn
	AS: wh to cky - fxln das

MID: 1702-1697#
 FP: 13-101/104-144#
 BHP: 615-602#
 BHTemp: 121°F
 Chlorides 95,000 ppm
 DST#3 3487'-3511'
 Mistun packer failure
 45-30-30-20
 IF: wk blow incr. to 1 3/4"
 FF: wk blow incr. to 1"
 Recovery: 15' OCM
 1270, 88% M
 MID: 1748-1691#
 FP: 12-20/23-26#
 BHP: 868-183#
 BHTemp: 106°F
 DST#5 3573'-3629'
 45-45-45-45
 IF: wk blow incr. to 4 3/4"
 ISF: No blow
 FF: wk blow incr. to 1 3/4"
 FSI: No blow
 Recovery: 145' Mud
 oil scum on top
 MID: 1767-1679#
 FP: 20-62/67-84#
 BHP: 941-747#
 BHTemp: 112°F
 DST#6 3694'-3702'
 30-30 pulled Tool

IF: surface blow size in
 14 min.
 Recovery: 2' Mud
 Hyd: 1850-1821#
 FP: 17-19#
 BHP: 18#
 BHTemp: 106°F

N.S.O.	Sh: gry, brn, grn
	LS: whtn fsh. ln. shi. oil das
	N.S.O.
	Sh: brn, gry
	LS: whtn fsh. tr. sand emed
	das. N.S.O. incr. cky
	SS chr. - frast. md. gn. consol
	md-ang. lt. O sat pp F.O.
	No odor
	Sh: brn
	Sh: brn Tr Δ or
	Sh: brn Tr. LS: tn fsh ln dr
	Sh: brn Tr Δ gry
	Dol: whtn fsh. mela sp. a
	incl. scat drk spid 0.5 in
	pp f. a. f. h. odor lot of barren
	SAME
	Dol: aa deer str

60

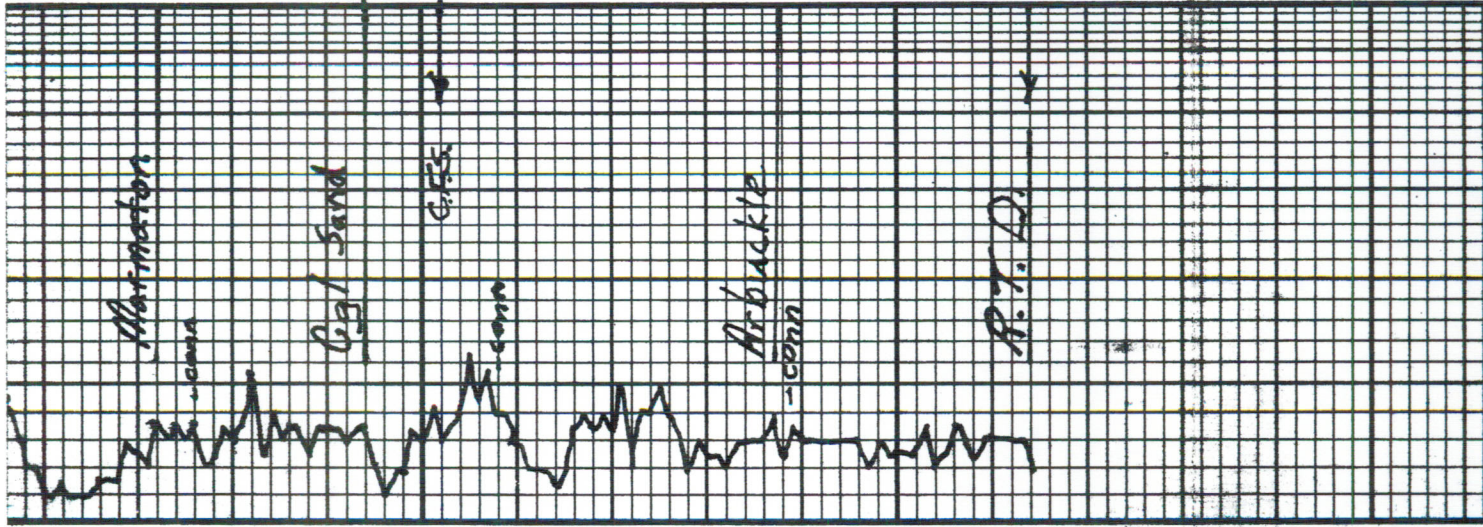
80

3700

20

40

60



Marmaton

G. Sand

G.F.F.

Arbuckle

P.T.D.



DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

11-7s-22w Graham,KS

White-Worcester Unit #1-1

Start Date: 2012.10.05 @ 20:53:00

End Date: 2012.10.06 @ 03:30:00

Job Ticket #: 48233 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.10 @ 11:12:43

Baird Oil Company, LLC

White-Worcester Unit #1-1

11-7s-22w Graham,KS

DST # 1

LKC "C"

2012.10.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

ATTN: Richard Bell

Job Ticket: 48233

DST#: 1

Test Start: 2012.10.05 @ 20:53:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:27:30

Time Test Ended: 03:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 3452.00 ft (KB) To 3474.00 ft (KB) (TVD)

Reference Elevations: 2203.00 ft (KB)

Total Depth: 3474.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 126.12 psig @ 3453.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.05

End Date:

2012.10.06

Last Calib.:

2012.10.06

Start Time:

20:53:05

End Time:

03:29:59

Time On Btm:

2012.10.05 @ 22:27:00

Time Off Btm:

2012.10.06 @ 01:31:30

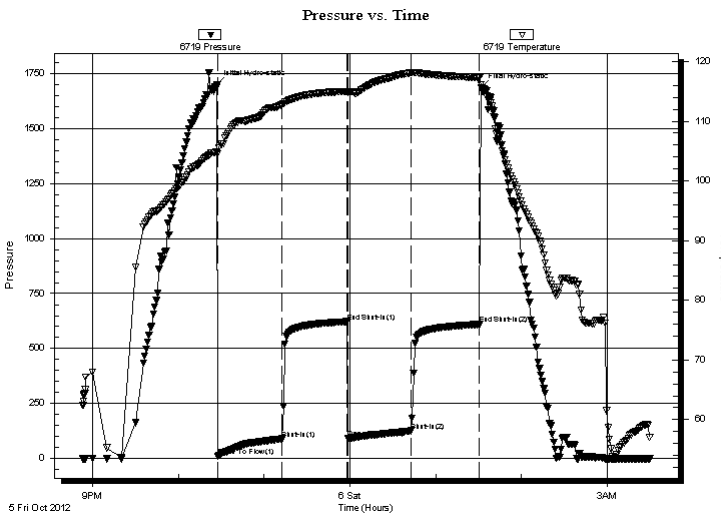
TEST COMMENT: 45 - IF: Blow built to BOB (11") in 42 min.

45 - IS: No blow back

45 - FF: Blow built to 8 1/4"

45 - FS: No blow back

PRESSURE SUMMARY



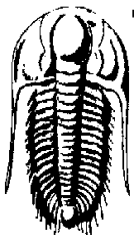
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1697.09	104.92	Initial Hydro-static
1	11.40	104.49	Open To Flow (1)
46	90.14	112.76	Shut-In(1)
91	622.50	114.98	End Shut-In(1)
92	92.68	114.88	Open To Flow (2)
136	126.12	118.12	Shut-In(2)
183	609.93	117.35	End Shut-In(2)
185	1685.66	116.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	SMCW w/trace oil 92%w, 8% m	0.61
105.00	SO/MCW 68%w, 30% m, 2% o	1.47
5.00	WCO 60% o, 35% w, 5% m	0.07
0.00	GIP = 20'	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

White-Worcester Unit #1-1

11-7s-22w Graham, KS

Job Ticket: 48233 **DST#: 1**

Test Start: 2012.10.05 @ 20:53:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:27:30

Time Test Ended: 03:30:00

Interval: 3452.00 ft (KB) To 3474.00 ft (KB) (TVD)

Total Depth: 3474.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Reference Elevations: 2203.00 ft (KB)

2198.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320 **Outside**

Press @ RunDepth: psig @ 3453.00 ft (KB)

Start Date: 2012.10.05 End Date: 2012.10.06

Start Time: 20:53:05 End Time: 03:29:29

Capacity: 8000.00 psig

Last Calib.: 2012.10.06

Time On Btm:

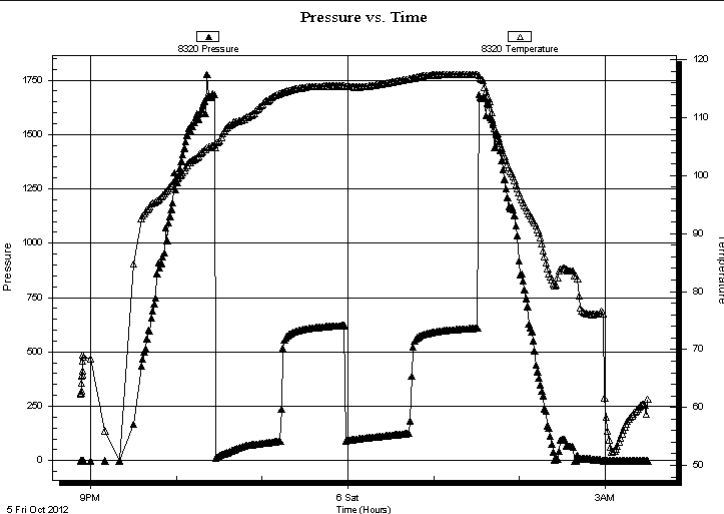
Time Off Btm:

TEST COMMENT: 45 - IF: Blow built to BOB (11") in 42 min.

45 - IS: No blow back

45 - FF: Blow built to 8 1/4"

45 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
124.00	SMCW w/trace oil 92%w, 8%m	0.61
105.00	SO/MCW 68%w, 30%m, 2%o	1.47
5.00	WCO 60%o, 35%w, 5%m	0.07
0.00	GIP = 20'	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

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

ATTN: Richard Bell

Job Ticket: 48233

DST#: 1

Test Start: 2012.10.05 @ 20:53:00

Tool Information

Drill Pipe:	Length: 3330.00 ft	Diameter: 3.80 inches	Volume: 46.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 47.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3452.00 ft			Final 47000.00 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			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	
Recorder	0.00	6719	Inside	3453.00	
Recorder	0.00	8320	Outside	3453.00	
Perforations	18.00			3471.00	
Bullnose	3.00			3474.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

Job Ticket: 48233 **DST#: 1**

ATTN: Richard Bell

Test Start: 2012.10.05 @ 20:53:00

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:	92000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.94 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

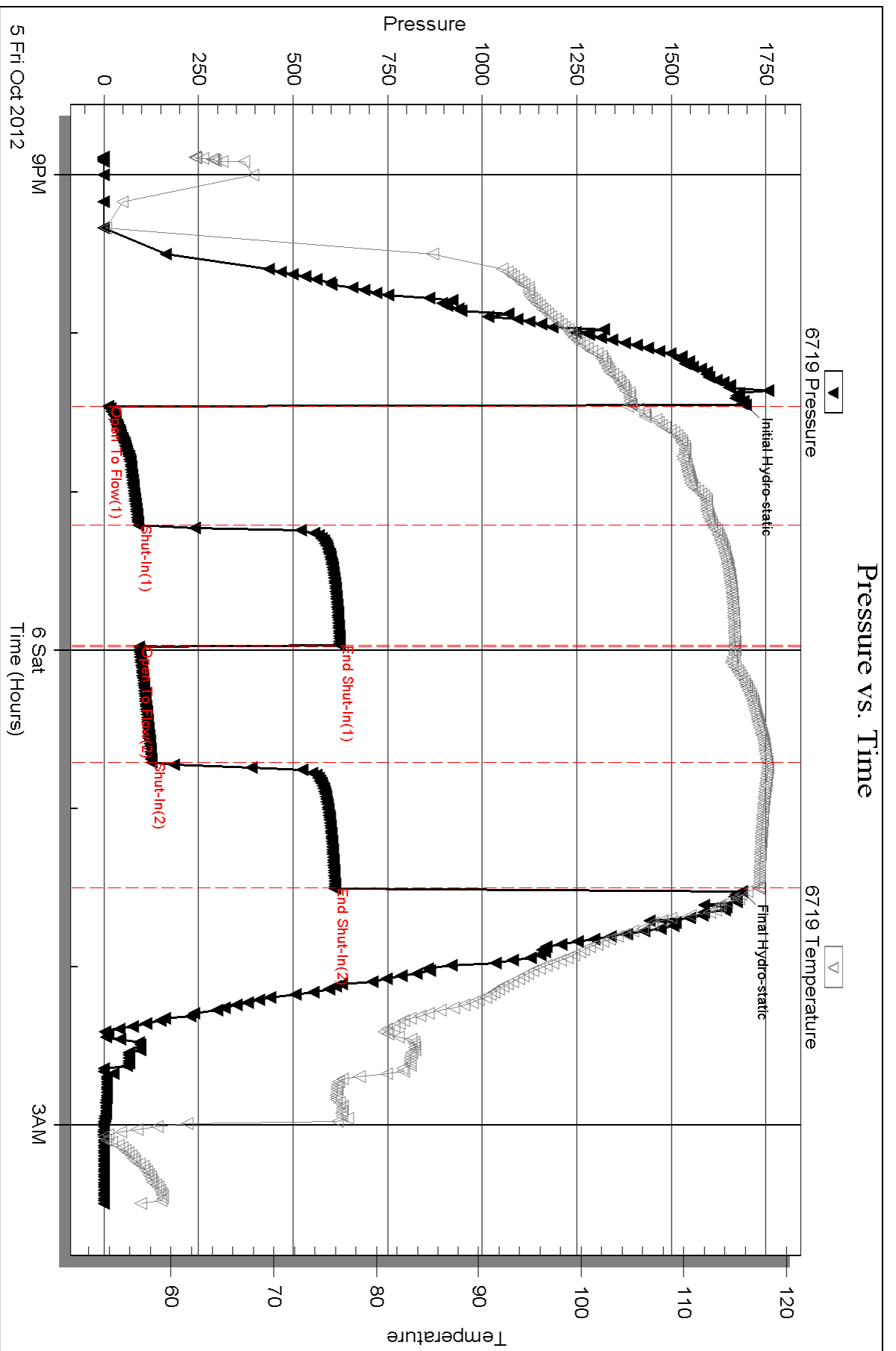
Length ft	Description	Volume bbl
124.00	SMCW w/trace oil 92%w , 8%m	0.610
105.00	SO/MCW 68%w , 30%m, 2%o	1.473
5.00	WCO 60%o, 35%w , 5%m	0.070
0.00	GIP = 20'	0.000

Total Length: 234.00 ft Total Volume: 2.153 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .150 ohms @ 40.3 deg F

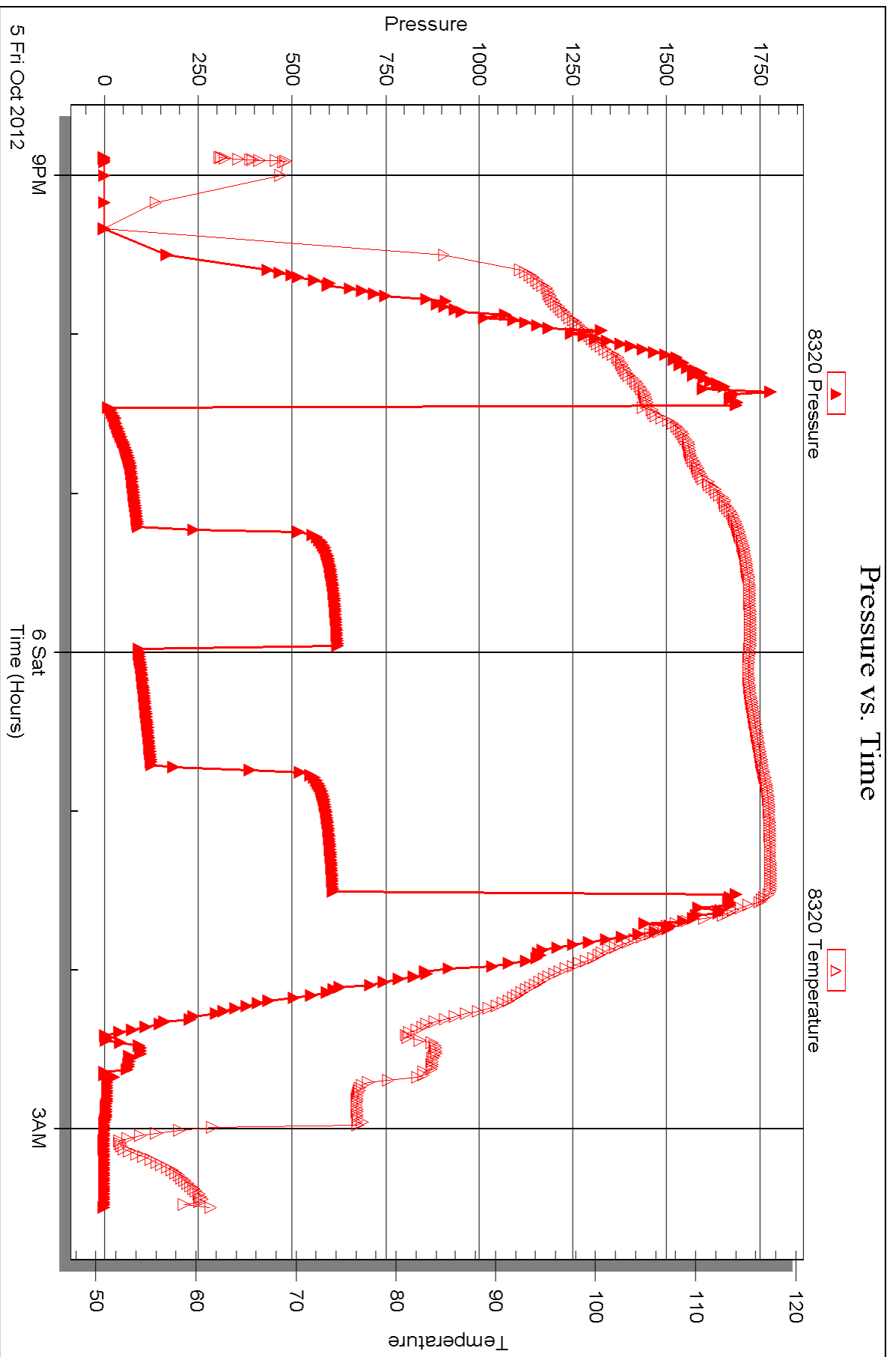


Serial #: 8320

Outside Baird Oil Company, LLC

11-7-s-22w Graham,KS

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48233

Printed: 2012.10.10 @ 11:12:48



DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

11-7s-22w Graham,KS

White-Worcester Unit #1-1

Start Date: 2012.10.06 @ 09:21:00

End Date: 2012.10.06 @ 15:50:00

Job Ticket #: 48234 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.10 @ 11:11:51

Baird Oil Company, LLC

White-Worcester Unit #1-1

11-7s-22w Graham,KS

DST # 2

LKC "D"

2012.10.06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

ATTN: Richard Bell

Job Ticket: 48234

DST#: 2

Test Start: 2012.10.06 @ 09:21:00

GENERAL INFORMATION:

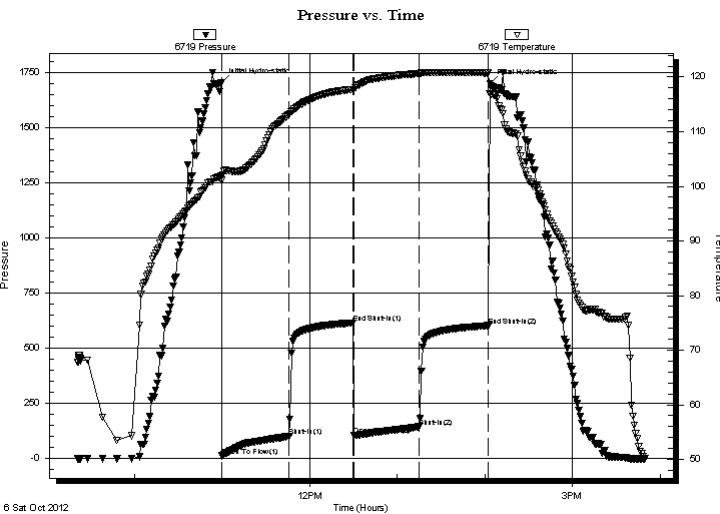
Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:00:00
 Time Test Ended: 15:50:00
 Interval: **3473.00 ft (KB) To 3489.00 ft (KB) (TVD)**
 Total Depth: 3489.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 2203.00 ft (KB)
 2198.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 143.96 psig @ 3474.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.06 End Date: 2012.10.06 Last Calib.: 2012.10.06
 Start Time: 09:21:05 End Time: 15:49:59 Time On Btm: 2012.10.06 @ 10:59:30
 Time Off Btm: 2012.10.06 @ 14:03:30

TEST COMMENT: 45 - IF: Blow built to BOB (11") in 34 1/2 min.
 45 - IS: No blow back
 45 - FF: Blow built to 10"
 45 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.84	101.82	Initial Hydro-static
1	12.70	101.12	Open To Flow (1)
47	101.17	113.18	Shut-In(1)
90	614.54	117.73	End Shut-In(1)
91	104.13	117.64	Open To Flow (2)
136	143.96	120.62	Shut-In(2)
183	602.18	120.73	End Shut-In(2)
184	1697.30	116.99	Final Hydro-static

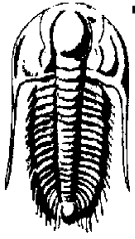
Recovery

Length (ft)	Description	Volume (bbl)
185.00	MCW w/trace oil 90%w, 10%m	1.47
85.00	Water w/trace oil 96%w, 4%m	1.19
10.00	Oil 96%o, 3%m, 1%g	0.14

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

White-Worcester Unit #1-1

11-7s-22w Graham, KS

Job Ticket: 48234 **DST#: 2**

Test Start: 2012.10.06 @ 09:21:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:00:00

Time Test Ended: 15:50:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3473.00 ft (KB) To 3489.00 ft (KB) (TVD)

Reference Elevations: 2203.00 ft (KB)

Total Depth: 3489.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 3474.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.06 End Date: 2012.10.06

Last Calib.: 2012.10.06

Start Time: 09:21:05 End Time: 15:48:59

Time On Btm:

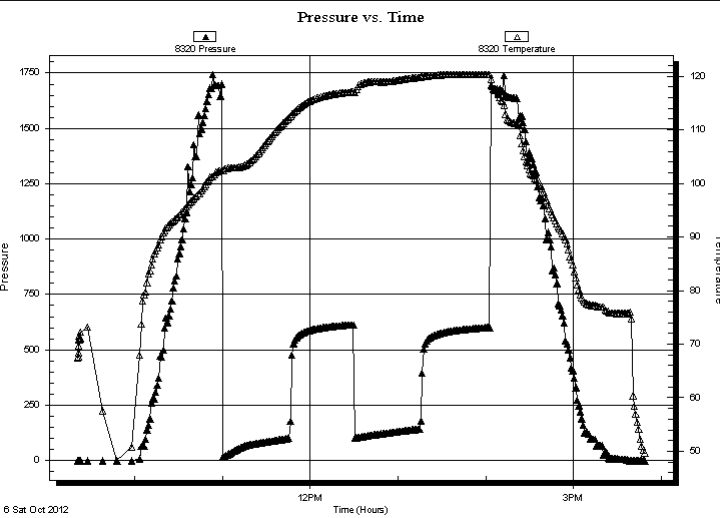
Time Off Btm:

TEST COMMENT: 45 - IF: Blow built to BOB (11") in 34 1/2 min.

45 - IS: No blow back

45 - FF: Blow built to 10"

45 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
185.00	MCW w/trace oil 90%w, 10%m	1.47
85.00	Water w/trace oil 96%w, 4%m	1.19
10.00	Oil 96%o, 3%m, 1%g	0.14

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

Job Ticket: 48234

DST#: 2

ATTN: Richard Bell

Test Start: 2012.10.06 @ 09:21:00

Tool Information

Drill Pipe:	Length: 3363.00 ft	Diameter: 3.80 inches	Volume: 47.17 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3473.00 ft			Final 47000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3458.00	
Hydraulic tool	5.00			3463.00	
Packer	5.00			3468.00	20.00 Bottom Of Top Packer
Packer	5.00			3473.00	
Stubb	1.00			3474.00	
Recorder	0.00	6719	Inside	3474.00	
Recorder	0.00	8320	Outside	3474.00	
Perforations	12.00			3486.00	
Bullnose	3.00			3489.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

Job Ticket: 48234

DST#: 2

ATTN: Richard Bell

Test Start: 2012.10.06 @ 09:21:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

95000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.93 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	MCW w/trace oil 90%w , 10%m	1.465
85.00	Water w/trace oil 96%w , 4%m	1.192
10.00	Oil 96%o, 3%m, 1%g	0.140

Total Length: 280.00 ft Total Volume: 2.797 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 27.8 api @ 50 deg F Corrected Gravity = 28.8 api

RW = .129 ohms @ 45.1 deg F Chlorides = 95,000 ppm

Serial #: 6719

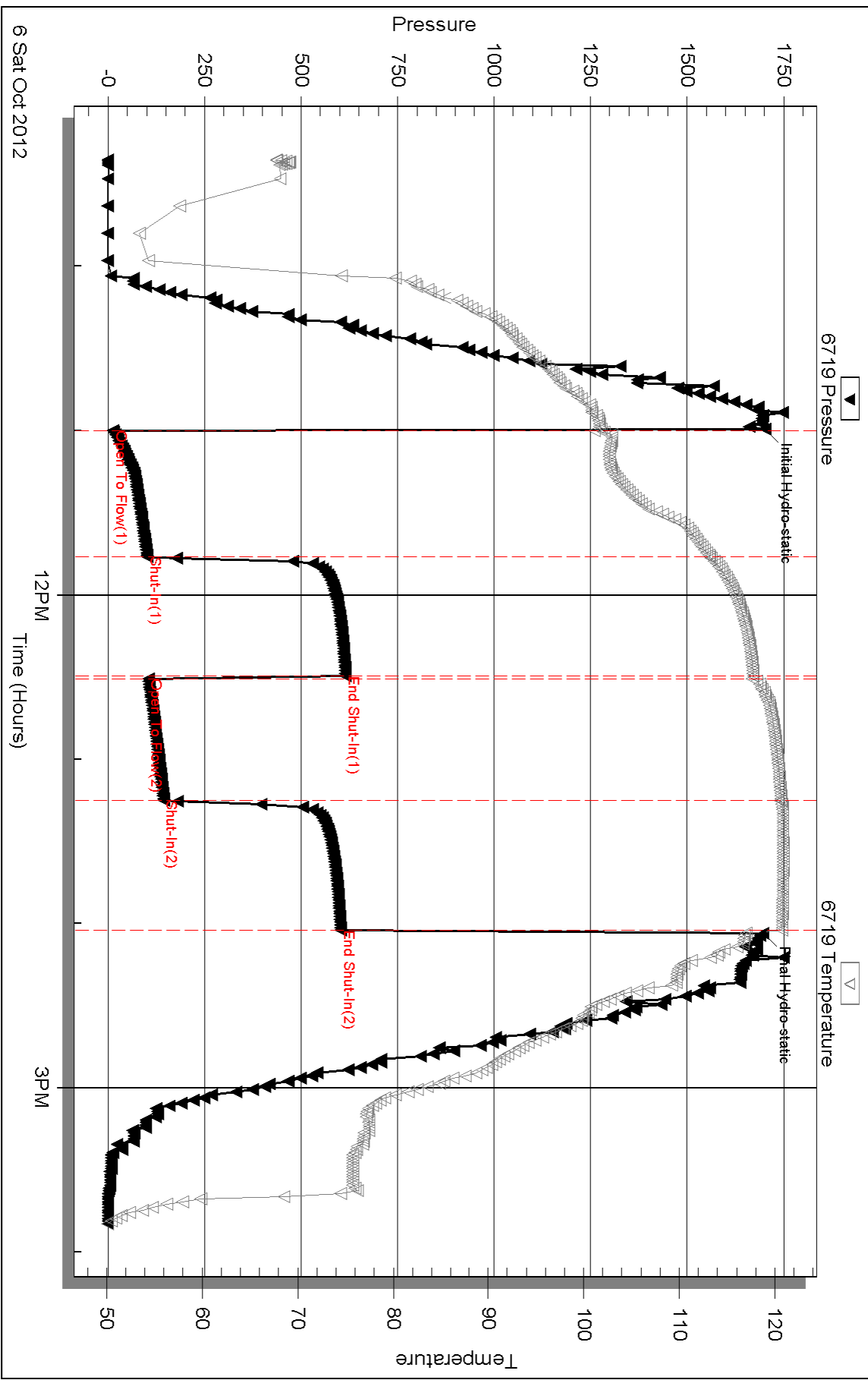
Inside

Baird Oil Company, LLC

11-7-s-22w Graham,KS

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48234

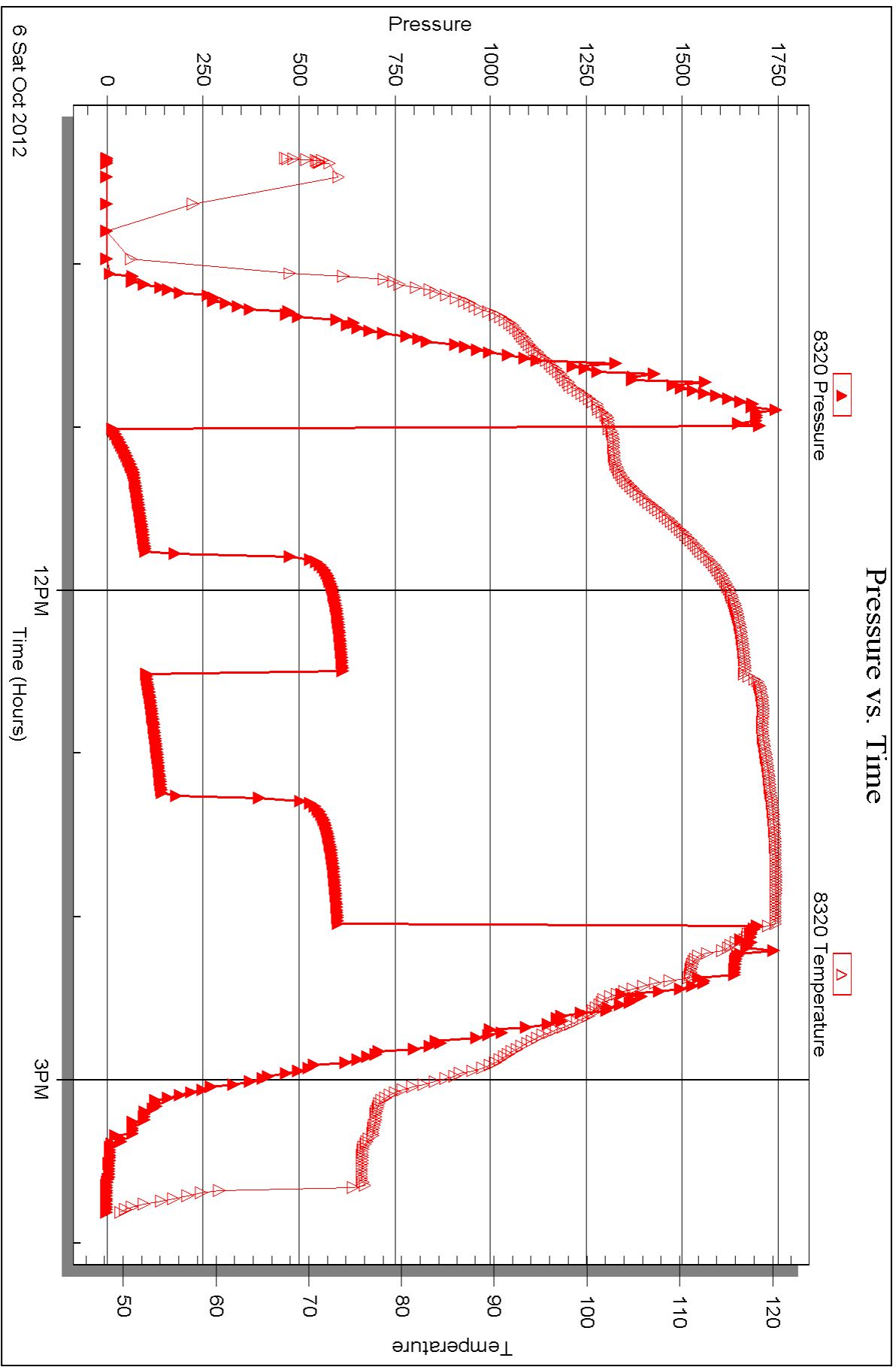
Printed: 2012.10.10 @ 11:11:56

Serial #: 8320

Outside Baird Oil Company, LLC

11-7-s-22w Graham,KS

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

11-7s-22w Graham,KS

White-Worcester Unit #1-1

Start Date: 2012.10.06 @ 21:27:00

End Date: 2012.10.07 @ 01:21:00

Job Ticket #: 48235 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.10 @ 11:10:56

Baird Oil Company, LLC

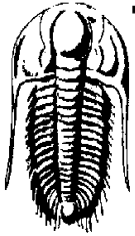
White-Worcester Unit #1-1

11-7s-22w Graham,KS

DST # 3

LKC " F "

2012.10.06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC
 PO Box 428
 Logan, KS 67646
 ATTN: Richard Bell

White-Worcester Unit #1-1
11-7s-22w Graham,KS
 Job Ticket: 48235 **DST#: 3**
 Test Start: 2012.10.06 @ 21:27:00

GENERAL INFORMATION:

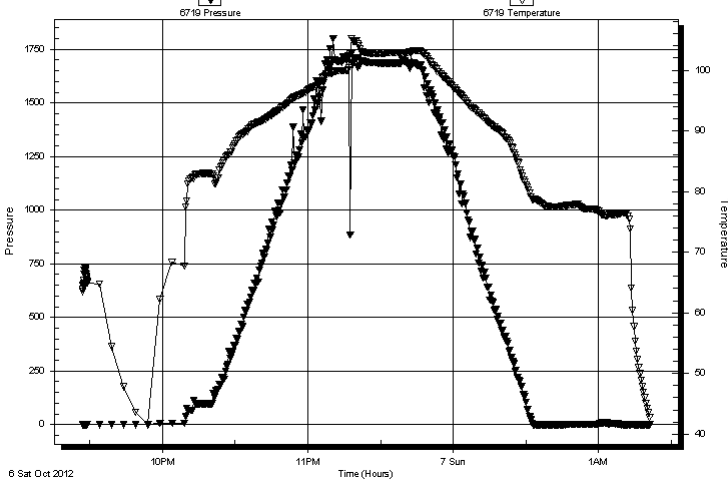
Formation: LKC " F "	
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 23:17:00	Tester: Jim Svaty
Time Test Ended: 01:21:00	Unit No: 57
Interval: 3487.00 ft (KB) To 3511.00 ft (KB) (TVD)	Reference Elevations: 2203.00 ft (KB)
Total Depth: 3511.00 ft (KB) (TVD)	2198.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press @ RunDepth: psig @ 3488.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.10.06 End Date: 2012.10.07	Last Calib.: 2012.10.07
Start Time: 21:27:05 End Time: 01:21:00	Time On Btm:
	Time Off Btm:

TEST COMMENT: Packers Failed Miss Run

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

White-Worcester Unit #1-1

11-7s-22w Graham,KS

Job Ticket: 48235 **DST#: 3**

Test Start: 2012.10.06 @ 21:27:00

GENERAL INFORMATION:

Formation: **LKC " F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:17:00

Time Test Ended: 01:21:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 57

Interval: 3487.00 ft (KB) To 3511.00 ft (KB) (TVD)

Reference Elevations: 2203.00 ft (KB)

Total Depth: 3511.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8320 Outside

Press @ Run Depth: psig @ 3488.00 ft (KB)

Start Date: 2012.10.06

End Date: 2012.10.07

Capacity: 8000.00 psig

Last Calib.: 2012.10.07

Start Time: 21:27:05

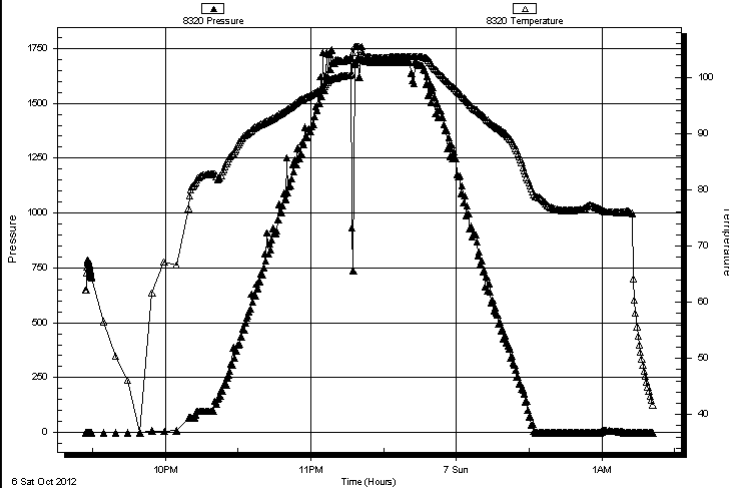
End Time: 01:20:58

Time On Btm:

Time Off Btm:

TEST COMMENT: Packers Failed Miss Run

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

Job Ticket: 48235

DST#: 3

ATTN: Richard Bell

Test Start: 2012.10.06 @ 21:27:00

Tool Information

Drill Pipe:	Length: 3361.00 ft	Diameter: 3.80 inches	Volume: 47.15 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 47.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3487.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3472.00	
Hydraulic tool	5.00			3477.00	
Packer	5.00			3482.00	20.00 Bottom Of Top Packer
Packer	5.00			3487.00	
Stubb	1.00			3488.00	
Recorder	0.00	6719	Inside	3488.00	
Recorder	0.00	8320	Outside	3488.00	
Perforations	20.00			3508.00	
Bullnose	3.00			3511.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

Job Ticket: 48235

DST#: 3

ATTN: Richard Bell

Test Start: 2012.10.06 @ 21:27:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Miss Run

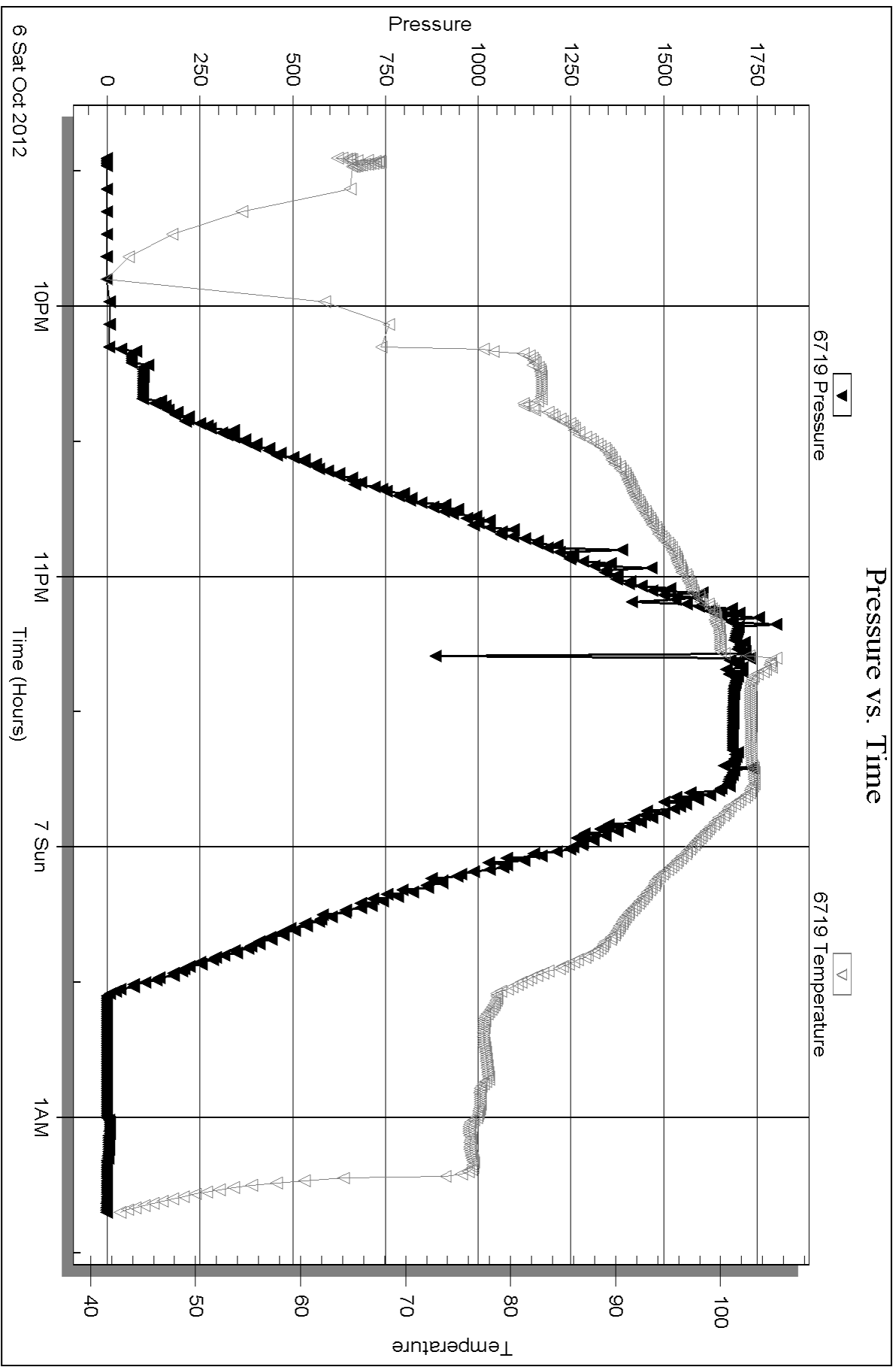
Serial #: 6719

Inside

Baird Oil Company, LLC

11-7-s-22w Graham,KS

DST Test Number: 3

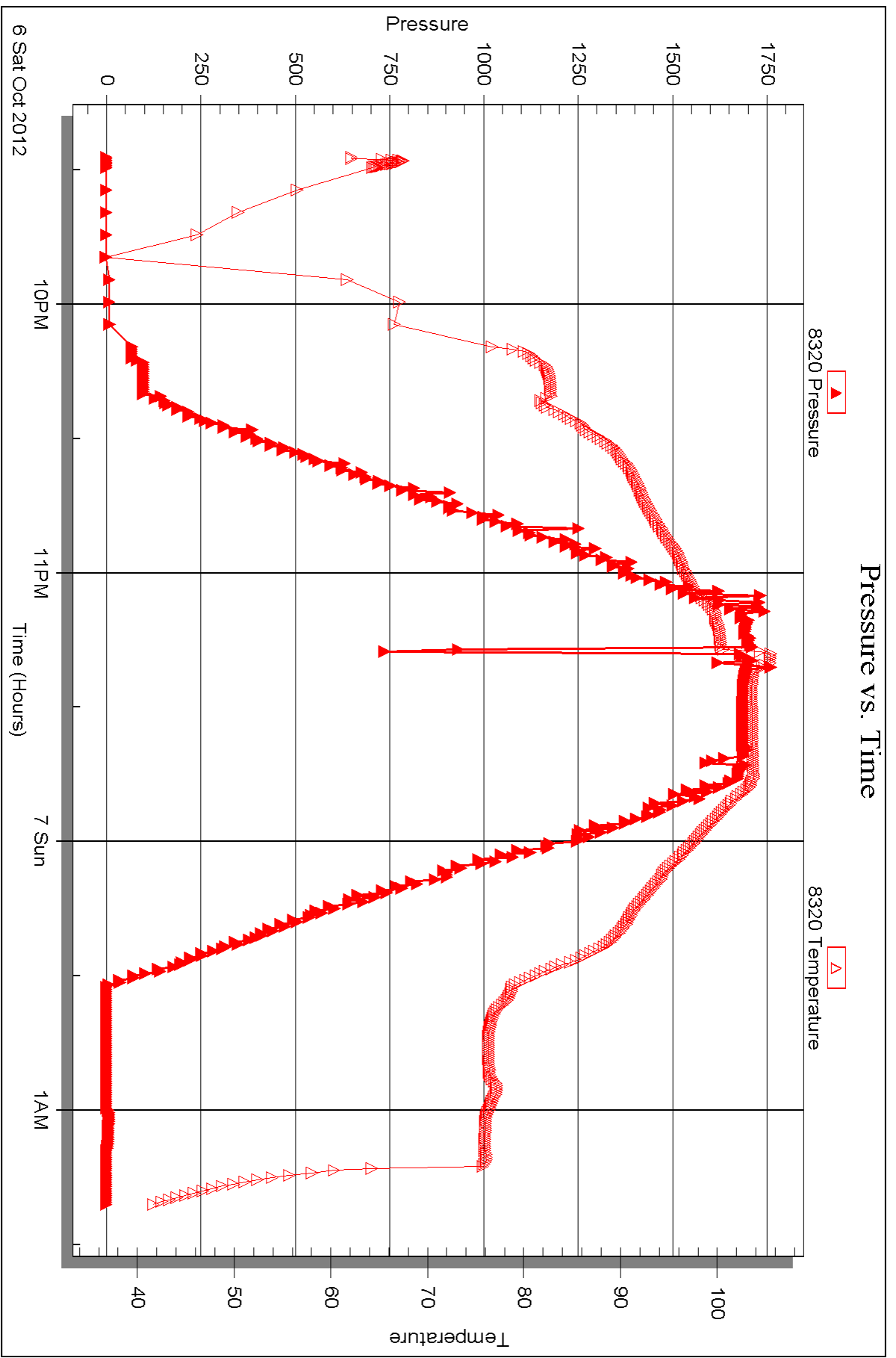


Serial #: 8320

Outside Baird Oil Company, LLC

11-7-s-22w Graham,KS

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48235

Printed: 2012.10.10 @ 11:11:01



DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

11-7s-22w Graham,KS

White-Worcester Unit #1-1

Start Date: 2012.10.07 @ 11:02:00

End Date: 2012.10.07 @ 16:15:00

Job Ticket #: 48236 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.10 @ 11:09:30

Baird Oil Company, LLC

White-Worcester Unit #1-1

11-7s-22w Graham,KS

DST # 4

LKC " H "

2012.10.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

White-Worcester Unit #1-1

11-7s-22w Graham,KS

Job Ticket: 48236

DST#: 4

Test Start: 2012.10.07 @ 11:02:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:42:30

Time Test Ended: 16:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 57

Interval: 3545.00 ft (KB) To 3570.00 ft (KB) (TVD)

Reference Elevations: 2203.00 ft (KB)

Total Depth: 3474.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 26.16 psig @ 3546.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.07

End Date:

2012.10.07

Last Calib.: 2012.10.07

Start Time: 11:02:05

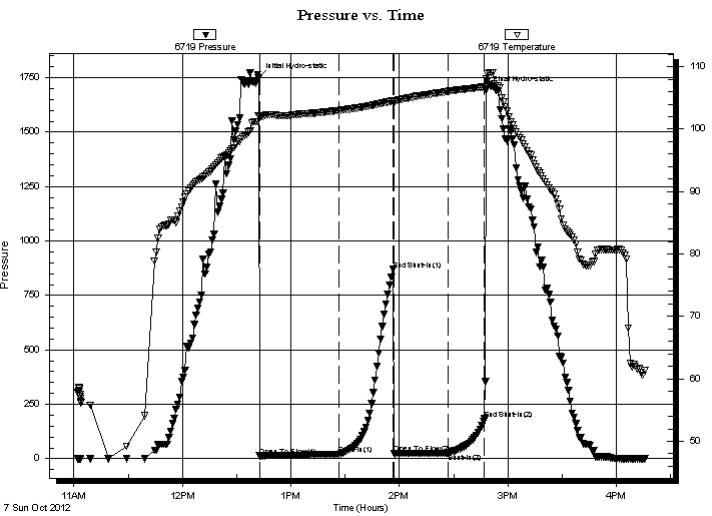
End Time:

16:15:29

Time On Btm: 2012.10.07 @ 12:42:00

Time Off Btm: 2012.10.07 @ 14:48:00

TEST COMMENT: 45-IFP- Surface Blow Building to 1 1/4" In 43 min
30-ISIP- No Blow
30-FFP- Surface Blow Building to 1" In 30 min
20-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.22	102.12	Initial Hydro-static
1	12.62	102.06	Open To Flow (1)
45	20.83	103.00	Shut-In(1)
75	868.43	104.52	End Shut-In(1)
75	23.82	104.36	Open To Flow (2)
105	26.16	106.05	Shut-In(2)
125	183.50	106.79	End Shut-In(2)
126	1691.05	108.13	Final Hydro-static

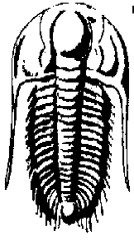
Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 12%o 88%m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company, LLC
PO Box 428
Logan, KS 67646
ATTN: Richard Bell

White-Worcester Unit #1-1
11-7s-22w Graham,KS
Job Ticket: 48236 **DST#: 4**
Test Start: 2012.10.07 @ 11:02:00

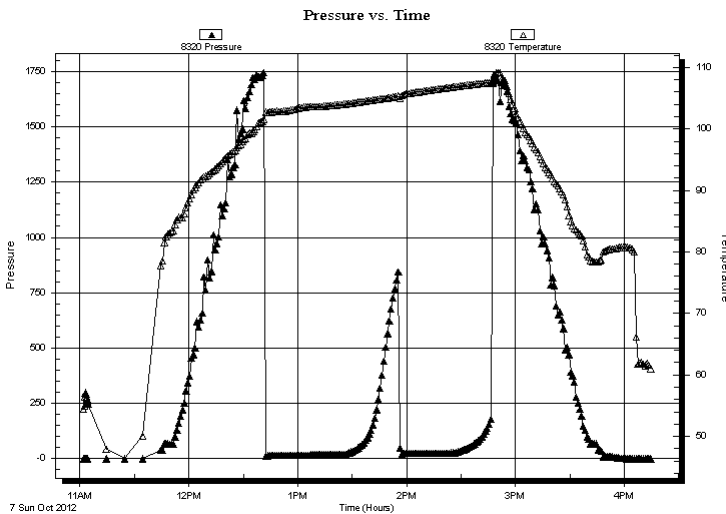
GENERAL INFORMATION:

Formation: **LKC " H "**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 12:42:30 Tester: Jim Svaty
Time Test Ended: 16:15:00 Unit No: 57
Interval: 3545.00 ft (KB) To 3570.00 ft (KB) (TVD) Reference Elevations: 2203.00 ft (KB)
Total Depth: 3474.00 ft (KB) (TVD) 2198.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8320 Outside

Press @ Run Depth: psig @ 3546.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.10.07 End Date: 2012.10.07 Last Calib.: 2012.10.07
Start Time: 11:02:05 End Time: 16:14:58 Time On Btm:
Time Off Btm:

TEST COMMENT: 45-IFP- Surface Blow Building to 1 1/4" In 43 min
30-ISIP- No Blow
30-FFP- Surface Blow Building to 1" In 30 min
20-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 12%o 88%m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

ATTN: Richard Bell

Job Ticket: 48236

DST#: 4

Test Start: 2012.10.07 @ 11:02:00

Tool Information

Drill Pipe:	Length: 3426.00 ft	Diameter: 3.80 inches	Volume: 48.06 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume: 48.67 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3545.00 ft			Final	45000.00 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			3530.00	
Hydraulic tool	5.00			3535.00	
Packer	5.00			3540.00	20.00 Bottom Of Top Packer
Packer	5.00			3545.00	
Stubb	1.00			3546.00	
Recorder	0.00	6719	Inside	3546.00	
Recorder	0.00	8320	Outside	3546.00	
Perforations	21.00			3567.00	
Bullnose	3.00			3570.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

Job Ticket: 48236

DST#: 4

ATTN: Richard Bell

Test Start: 2012.10.07 @ 11:02:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 12%o 88%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

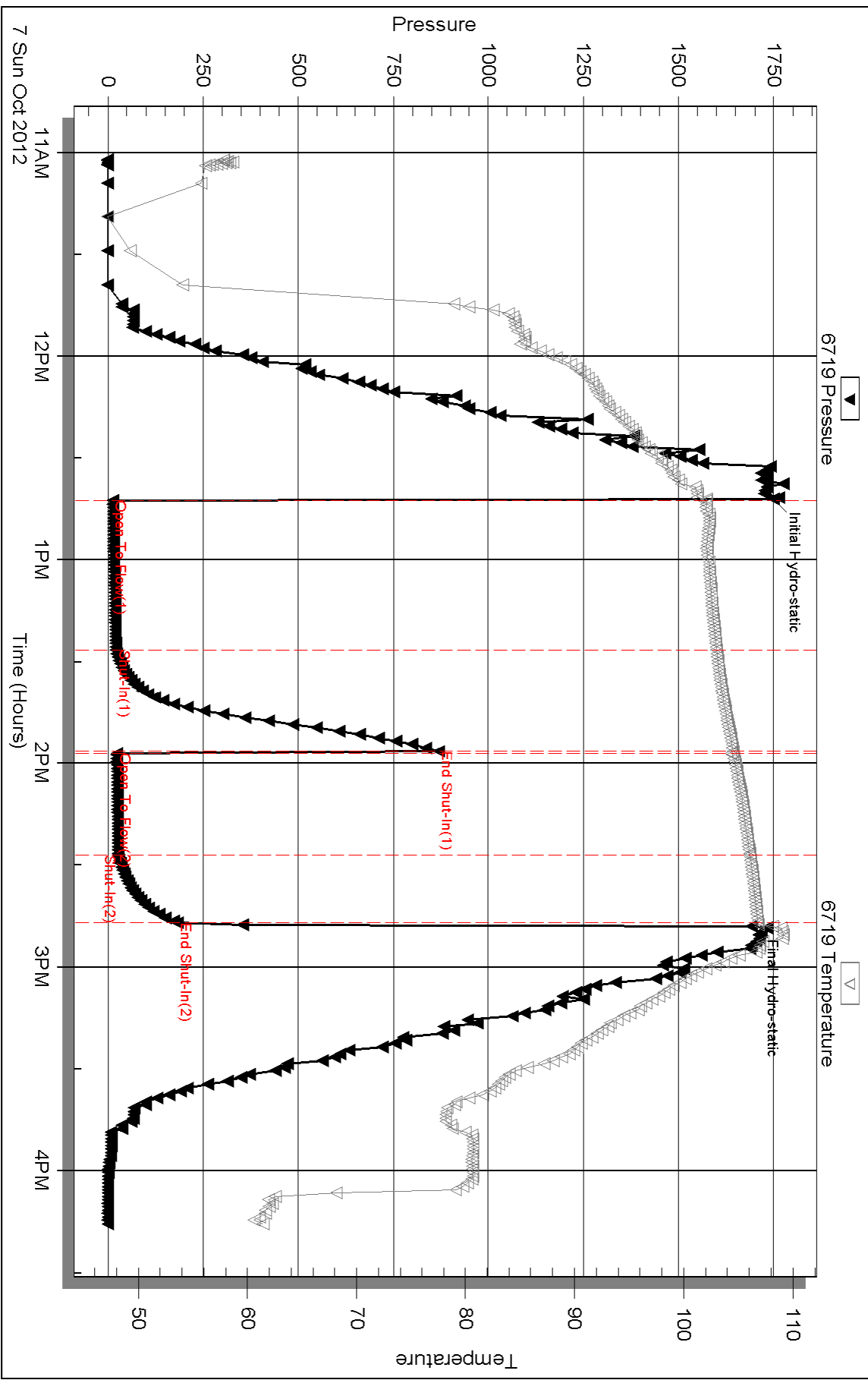
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

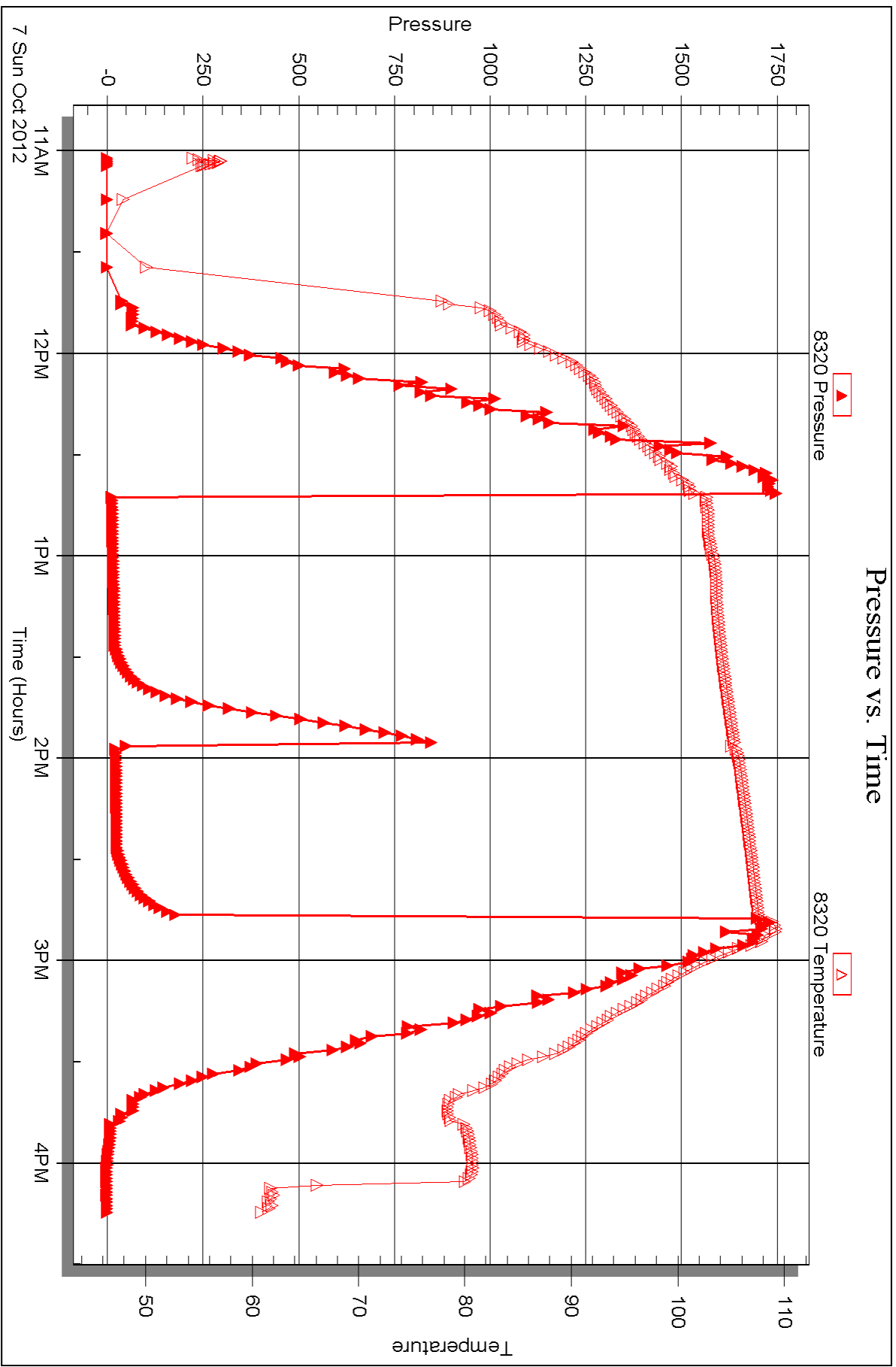


Serial #: 8320

Outside Baird Oil Company, LLC

11-7-s-22w Graham,KS

DST Test Number: 4





DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

11-7s-22w Graham,KS

White-Worcester Unit #1-1

Start Date: 2012.10.08 @ 01:33:00

End Date: 2012.10.08 @ 08:12:00

Job Ticket #: 48237 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.10 @ 11:08:36

Baird Oil Company, LLC

White-Worcester Unit #1-1

11-7s-22w Graham,KS

DST # 5

LKC " I & J "

2012.10.08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

ATTN: Richard Bell

Job Ticket: 48237

DST#: 5

Test Start: 2012.10.08 @ 01:33:00

GENERAL INFORMATION:

Formation: **LKC " I & J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:27:00

Time Test Ended: 08:12:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 57

Interval: 3573.00 ft (KB) To 3629.00 ft (KB) (TVD)

Reference Elevations: 2203.00 ft (KB)

Total Depth: 3629.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 84.13 psig @ 3574.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.08 End Date: 2012.10.08

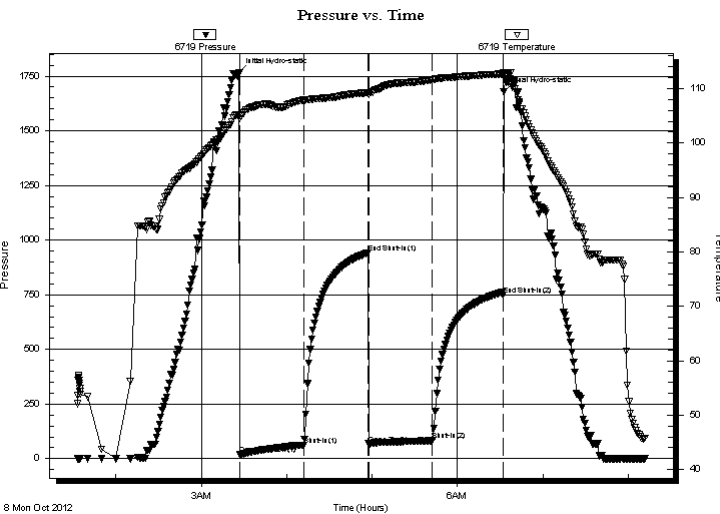
Last Calib.: 2012.10.08

Start Time: 01:33:05 End Time: 08:11:59

Time On Btm: 2012.10.08 @ 03:26:30

Time Off Btm: 2012.10.08 @ 06:32:30

TEST COMMENT: 45-IFP- Surface Blow Building to 4 3/4". In 45 min
45-ISIP- No Blow
45-FFP- Surface Blow in 2min Building to 1 3/4"
45-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1767.27	105.08	Initial Hydro-static
1	20.57	104.47	Open To Flow (1)
46	62.52	107.88	Shut-In(1)
91	941.85	109.22	End Shut-In(1)
91	67.68	108.98	Open To Flow (2)
136	84.13	111.68	Shut-In(2)
186	747.69	112.66	End Shut-In(2)
186	1679.81	112.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	MUD 100% Trace of Oil	0.90

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

ATTN: Richard Bell

Job Ticket: 48237

DST#: 5

Test Start: 2012.10.08 @ 01:33:00

GENERAL INFORMATION:

Formation: **LKC " I & J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:27:00

Time Test Ended: 08:12:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 57

Interval: 3573.00 ft (KB) To 3629.00 ft (KB) (TVD)

Reference Elevations: 2203.00 ft (KB)

Total Depth: 3629.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 3574.00 ft (KB)

Start Date: 2012.10.08

End Date:

2012.10.08

Start Time: 01:33:05

End Time:

08:12:29

Capacity: 8000.00 psig

Last Calib.:

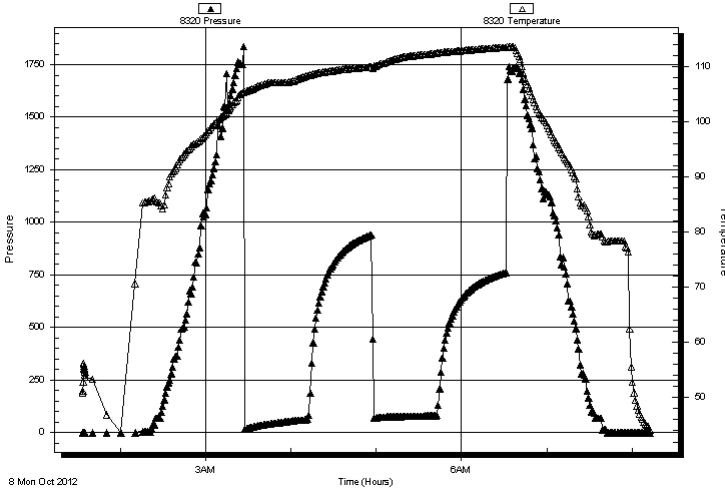
2012.10.08

Time On Btm:

Time Off Btm:

TEST COMMENT: 45-IFP- Surface Blow Building to 4 3/4". In 45 min
45-ISIP- No Blow
45-FFP- Surface Blow in 2min Building to 1 3/4"
45-FSIP- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
145.00	MUD 100% Trace of Oil	0.90

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

ATTN: Richard Bell

Job Ticket: 48237

DST#: 5

Test Start: 2012.10.08 @ 01:33:00

Tool Information

Drill Pipe:	Length: 3457.00 ft	Diameter: 3.80 inches	Volume: 48.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3573.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	76.00 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			3558.00	
Hydraulic tool	5.00			3563.00	
Packer	5.00			3568.00	20.00 Bottom Of Top Packer
Packer	5.00			3573.00	
Stubb	1.00			3574.00	
Recorder	0.00	6719	Inside	3574.00	
Recorder	0.00	8320	Outside	3574.00	
Perforations	18.00			3592.00	
Change Over Sub	1.00			3593.00	
Blank Spacing	32.00			3625.00	
Change Over Sub	1.00			3626.00	
Bullnose	3.00			3629.00	56.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

Job Ticket: 48237

DST#: 5

ATTN: Richard Bell

Test Start: 2012.10.08 @ 01:33:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
145.00	MUD 100% Trace of Oil	0.904

Total Length: 145.00 ft Total Volume: 0.904 bbl

Num Fluid Samples: 0

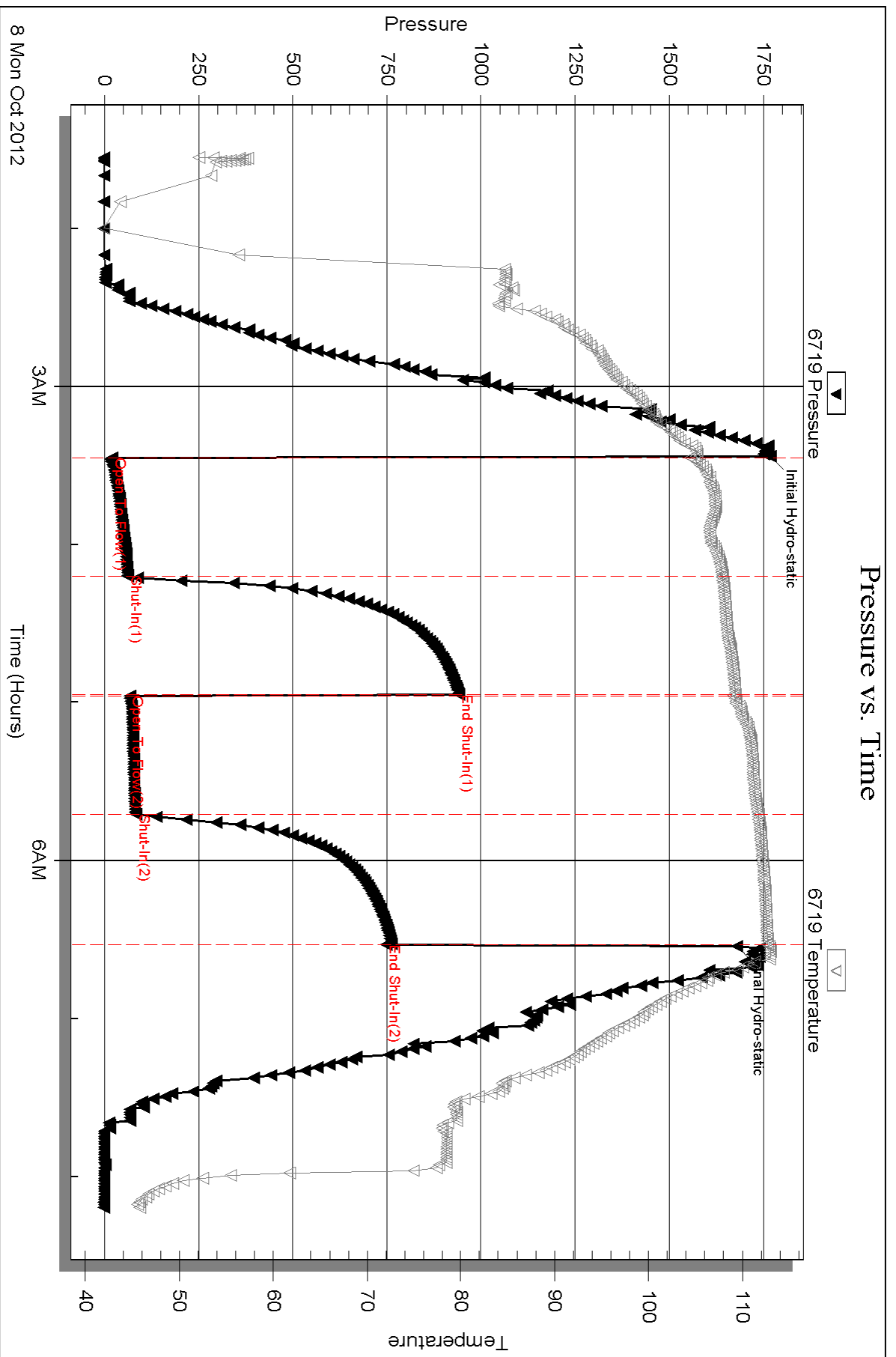
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

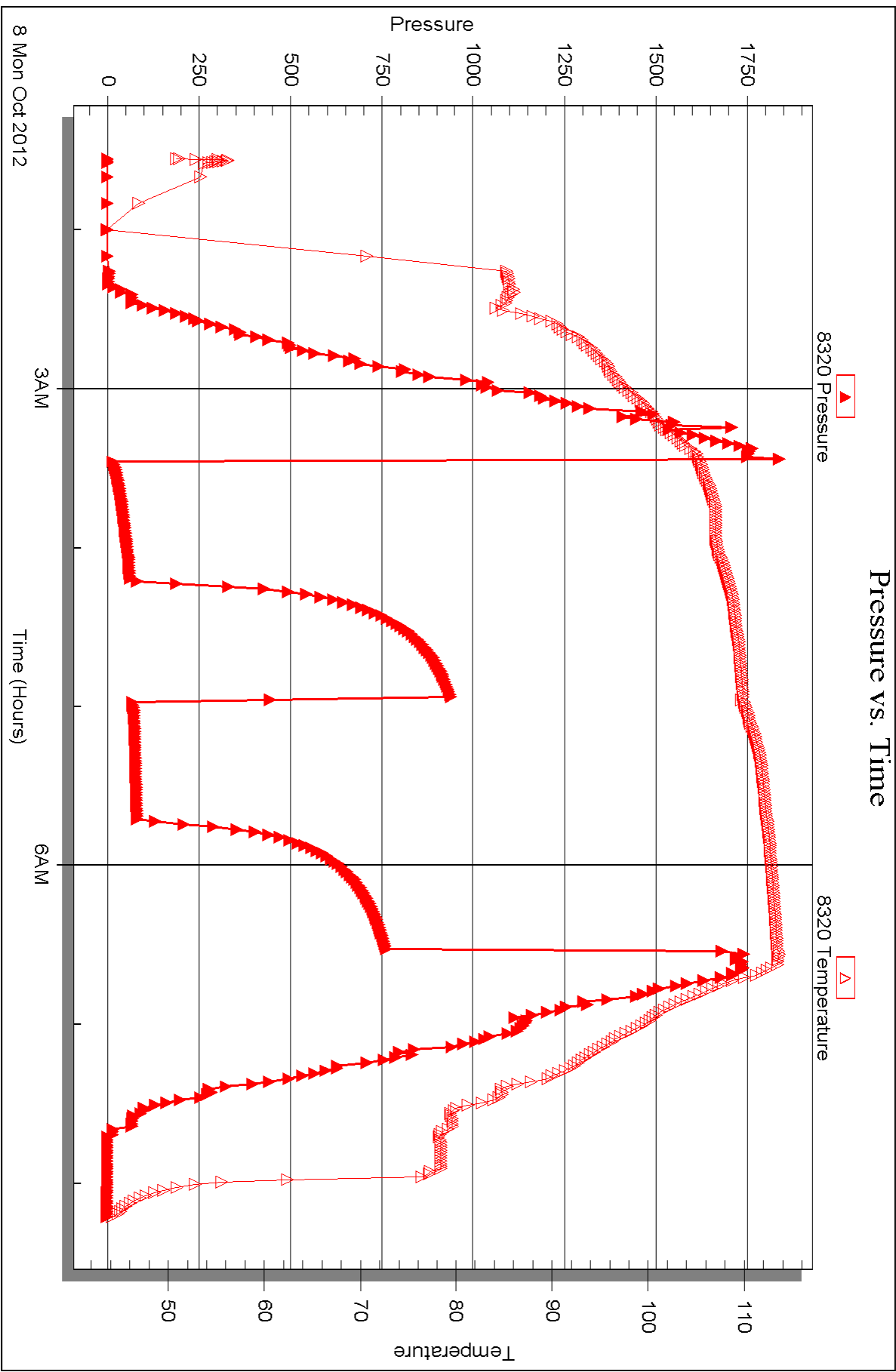


Serial #: 8320

Outside Baird Oil Company, LLC

11-7-s-22w Graham,KS

DST Test Number: 5





DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

11-7s-22w Graham,KS

White-Worcester Unit #1-1

Start Date: 2012.10.08 @ 17:00:00

End Date: 2012.10.08 @ 21:33:00

Job Ticket #: 48238 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.10 @ 11:07:39

Baird Oil Company, LLC

White-Worcester Unit #1-1

11-7s-22w Graham,KS

DST # 6

Conglomerate Sand

2012.10.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

ATTN: Richard Bell

Job Ticket: 48238

DST#: 6

Test Start: 2012.10.08 @ 17:00:00

GENERAL INFORMATION:

Formation: **Conglomerate Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:05:30

Time Test Ended: 21:33:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 57

Interval: 3694.00 ft (KB) To 3702.00 ft (KB) (TVD)

Reference Elevations: 2203.00 ft (KB)

Total Depth: 3474.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 19.34 psig @ 3695.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.08

End Date:

2012.10.08

Last Calib.:

2012.10.08

Start Time: 17:00:05

End Time:

21:33:29

Time On Btm:

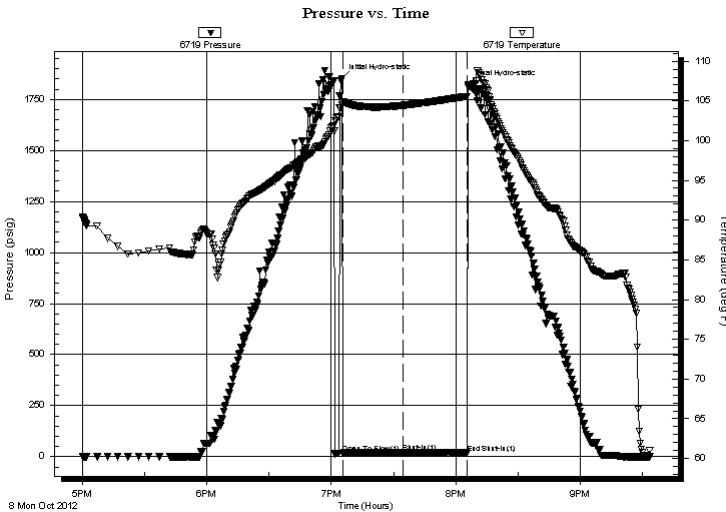
2012.10.08 @ 19:05:00

Time Off Btm:

2012.10.08 @ 20:06:00

TEST COMMENT: 30-IFP- Surface Blow Died in 14 min
30-ISIP- No Blow
Pulled

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1850.47	104.52	Initial Hydro-static
1	17.94	104.54	Open To Flow (1)
30	19.34	104.44	Shut-In(1)
61	18.10	105.59	End Shut-In(1)
61	1821.69	106.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	MUD 100%	0.01

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

ATTN: Richard Bell

Job Ticket: 48238

DST#: 6

Test Start: 2012.10.08 @ 17:00:00

GENERAL INFORMATION:

Formation: **Conglomerate Sand**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 19:05:30

Tester: Jim Svaty

Time Test Ended: 21:33:00

Unit No: 57

Interval: 3694.00 ft (KB) To 3702.00 ft (KB) (TVD)

Reference Elevations: 2203.00 ft (KB)

Total Depth: 3474.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8320

Outside

Press @ Run Depth: psig @ 3695.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.08

End Date:

2012.10.08

Last Calib.:

2012.10.08

Start Time: 17:00:05

End Time:

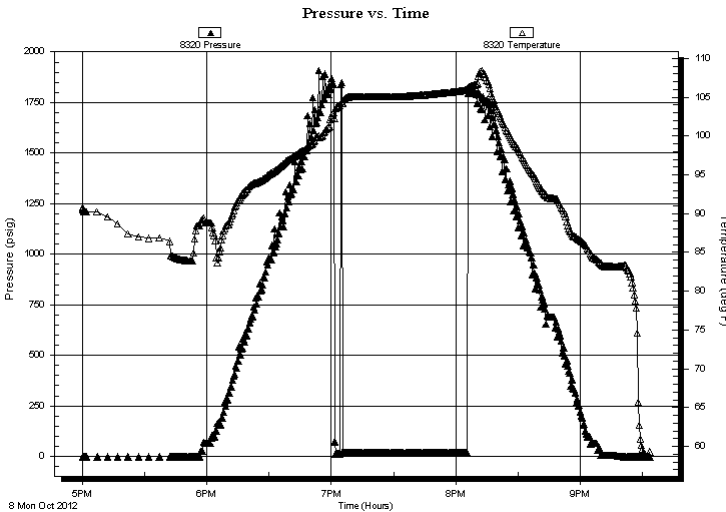
21:33:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP- Surface Blow Died in 14 min
30-ISIP- No Blow
Pulled

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
2.00	MUD 100%	0.01

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

Job Ticket: 48238

DST#: 6

ATTN: Richard Bell

Test Start: 2012.10.08 @ 17:00:00

Tool Information

Drill Pipe:	Length: 3584.00 ft	Diameter: 3.80 inches	Volume: 50.27 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 50.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3694.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	28.00 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			3679.00	
Hydraulic tool	5.00			3684.00	
Packer	5.00			3689.00	20.00 Bottom Of Top Packer
Packer	5.00			3694.00	
Stubb	1.00			3695.00	
Recorder	0.00	6719	Inside	3695.00	
Recorder	0.00	8320	Outside	3695.00	
Perforations	4.00			3699.00	
Bullnose	3.00			3702.00	8.00 Bottom Packers & Anchor
Total Tool Length:	28.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

White-Worcester Unit #1-1

PO Box 428
Logan, KS 67646

11-7s-22w Graham,KS

Job Ticket: 48238

DST#: 6

ATTN: Richard Bell

Test Start: 2012.10.08 @ 17:00:00

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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	MUD 100%	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:

Serial #: 6719

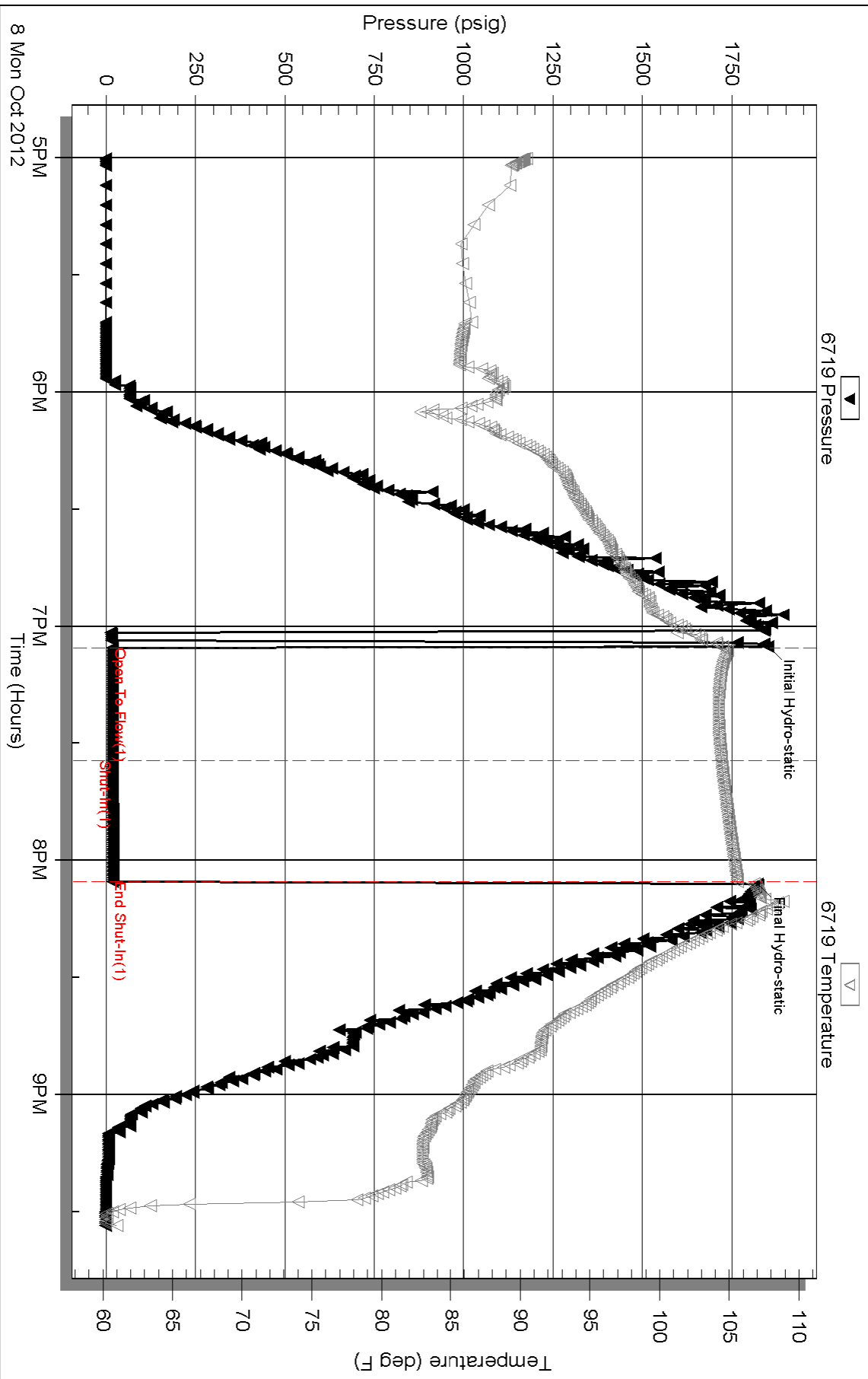
Inside

Baird Oil Company, LLC

11-7-s-22w Graham,KS

DST Test Number: 6

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48238

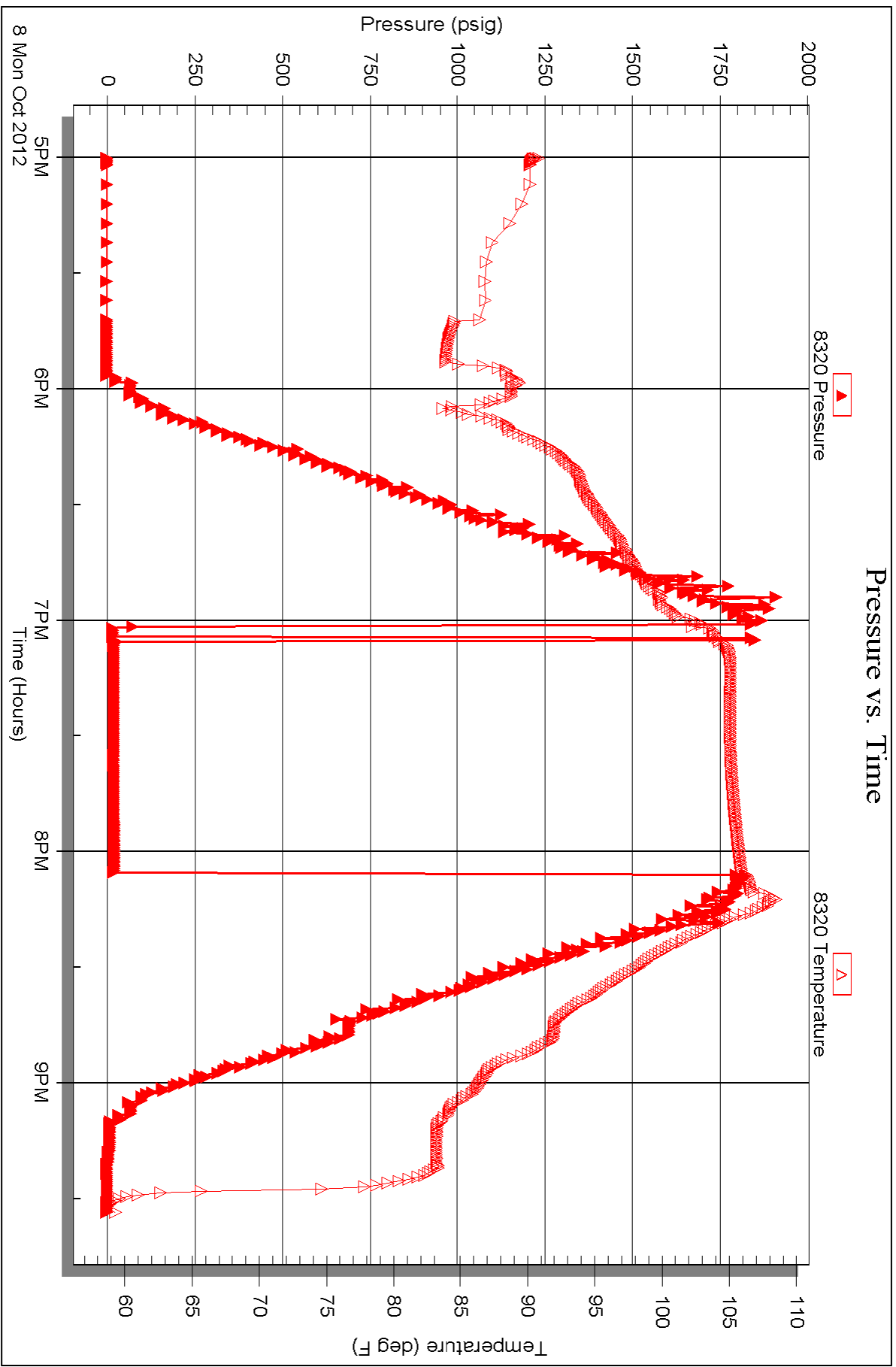
Printed: 2012.10.10 @ 11:07:43

Serial #: 8320

Outside Baird Oil Company, LLC

11-7-s-22w Graham,KS

DST Test Number: 6





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48233

Well Name & No. White - Worcester Unit #1-1 Test No. 1 Date 10-5-12
 Company Baird Oil Company LLC Elevation 2303 KB 22298 GL
 Address 113 W. Main PO Box 428 Logan KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #8
 Location: Sec. 11 Twp. 7S Rge. 22w Co. Graham State KS

Interval Tested 3452-3474 Zone Tested LKC "C"
 Anchor Length 22 Drill Pipe Run 3330 Mud Wt. 8.9
 Top Packer Depth 3447 Drill Collars Run 124 Vis 58
 Bottom Packer Depth 3452 Wt. Pipe Run - WL 6.0
 Total Depth 3474 Chlorides 2000 ppm System LCM 2

Blow Description IF: Blow built to BOB (11") in 42 min.
ISI: No blowback
FF: Blow built to 8 1/4"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>WCO</u>	<u>-</u>	<u>60</u>	<u>35</u>	<u>5</u>
<u>105</u>	<u>SO/mcw</u>	<u>-</u>	<u>2</u>	<u>68</u>	<u>30</u>
<u>124</u>	<u>SMCW w/trace oil</u>	<u>%gas trace</u>	<u>%oil 92</u>	<u>%water 8</u>	<u>%mud</u>
<u>Rec</u>	<u>Feet of GIP=20'</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 234 BHT 117 Gravity - API RW .150 @ 40.3 °F Chlorides 92,000 ppm

(A) Initial Hydrostatic 1697 Test 1150 T-On Location 20:10
 (B) First Initial Flow 11 Jars T-Started 20:53
 (C) First Final Flow 90 Safety Joint T-Open 22:27
 (D) Initial Shut-In 623 Circ Sub NA T-Pulled 1:30
 (E) Second Initial Flow 93 Hourly Standby T-Out 3:05
 (F) Second Final Flow 126 Mileage 134RT 207.70 Comments _____
 (G) Final Shut-In 610 Sampler _____
 (H) Final Hydrostatic 1686 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1357.70
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1357.70

Approved By Richard Bell Our Representative James Windes

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48234

Well Name & No. White - Worcester Unit #1-1 Test No. 2 Date 10-6-12
 Company Baird Oil Company, LLC Elevation 2303 KB 2298 GL
 Address 113 W. Main PO Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #8
 Location: Sec. 11 Twp. 7S Rge. 22W Co. Graham State KS

Interval Tested 3473 - 3489 Zone Tested LKC "D"
 Anchor Length 16 Drill Pipe Run 3363 Mud Wt. 8.9
 Top Packer Depth 3468 Drill Collars Run 124 Vis 52
 Bottom Packer Depth 3473 Wt. Pipe Run - WL 6.0
 Total Depth 3489 Chlorides 2000 ppm System LCM 1 1/2

Blow Description IF: Blow built to BOB (11") in 34 1/2 min.
ISI: No blowback
FF: Blow built to 10"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Oil</u>	<u>1</u>	<u>96</u>	<u>-</u>	<u>3</u>
<u>85</u>	<u>Water w/trace of oil</u>	<u>-</u>	<u>trace</u>	<u>96</u>	<u>4</u>
<u>185</u>	<u>MCW w/trace of oil</u>	<u>-</u>	<u>trace</u>	<u>90</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 280 BHT 121 Gravity 28.8 API RW 129 @ 45.1 °F Chlorides 95,000 ppm

(A) Initial Hydrostatic 1702 Test * 1150 T-On Location 8:45
 (B) First Initial Flow 13 Jars T-Started 9:21
 (C) First Final Flow 101 Safety Joint T-Open 11:00
 (D) Initial Shut-In 615 Circ Sub *NA T-Pulled 14:02
 (E) Second Initial Flow 104 Hourly Standby T-Out 15:45
 (F) Second Final Flow 144 Mileage 134RT 207.70 Comments _____
 (G) Final Shut-In 602 Sampler _____
 (H) Final Hydrostatic 1697 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1357.70

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1357.70
 MP/DST Disc't _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Approved By Richard Bell

Our Representative James Winder

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48235

Well Name & No. White-Worcester Unit # 1-1 Test No. 3 Date 10-6-12
 Company Baird Oil Co. LLC Elevation 2303 KB 2298 GL
 Address 113 W. Main Box 428 Logan Ks. 67646
 Co. Rep / Geo. Rich Bell Rig WW #8
 Location: Sec. 11 Twp. 7^s Rge. 22^w Co. Drahan State Ks

Interval Tested 3487-3511 Zone Tested LKC "F"
 Anchor Length 24 Drill Pipe Run 3361 Mud Wt. 9.1
 Top Packer Depth 3482 Drill Collars Run 124 Vis 50
 Bottom Packer Depth 3487 Wt. Pipe Run 0 WL 6.4
 Total Depth 3511 Chlorides 2200 ppm System LCM 2
 Blow Description IFP - Packer Failure
FSIP -
FFP -
FSIP -

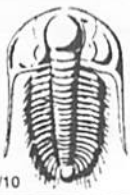
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic _____ Test 950 _____ T-On Location 21:00
 (B) First Initial Flow _____ Jars _____ T-Started 21:27
 (C) First Final Flow _____ Safety Joint _____ T-Open 23:17
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 23:25
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 01:21
 (F) Second Final Flow _____ Mileage 207.70 _____ Comments Miss Run
 (G) Final Shut-In _____ Sampler _____ Ruined Shale Packer _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Packer _____
 Shale Packer _____ Extra Copies _____
 Initial Open _____ Extra Packer _____ Sub Total 0
 Initial Shut-In _____ Extra Recorder _____ Total 1157.70
 Final Flow _____ Day Standby _____ MP/DST Disc't _____
 Final Shut-In _____ Accessibility _____
 Sub Total 1157.70

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48236

Well Name & No. White-Worcester Unit #1-1 Test No. 4 Date 10-7-12
 Company Baird Oil Co. LLC Elevation 2303 KB 2298 GL
 Address 113 W. MAIN Box 428 Logan Ks. 67646
 Co. Rep / Geo. Rich Bell Rig WW-8
 Location: Sec. 11 Twp. 7^s Rge. 22^w Co. Graham State Ks

Interval Tested 3545-3570 Zone Tested LKC "H"
 Anchor Length 25 Drill Pipe Run 3426 Mud Wt. 9.1
 Top Packer Depth 3540 Drill Collars Run 124 Vis 50
 Bottom Packer Depth 3545 Wt. Pipe Run 0 WL 6.4
 Total Depth 3570 Chlorides 2200 ppm System LCM 2

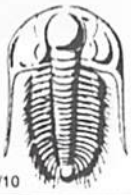
Blow Description IFP - Surface Blow Building To 1/4 in. IN 43 min.
ISIP - No Blow
FFP - Surface Blow Building To 1 in. IN 30 min.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
15	OCM	12		88	

Rec Total 15 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1748 Test 1150 T-On Location 10:42
 (B) First Initial Flow 12 Jars _____ T-Started 11:02
 (C) First Final Flow 20 Safety Joint _____ T-Open 12:42
 (D) Initial Shut-In 868 Circ Sub _____ T-Pulled 14:47
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 16:15
 (F) Second Final Flow 26 Mileage 207.70 Comments _____
 (G) Final Shut-In 183 Sampler _____
 (H) Final Hydrostatic 1691 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1357.70
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 20 Sub Total 1357.70

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained directly or indirectly, through the use of equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48237

Well Name & No. White-Worcester Unit#1-1 Test No. 5 Date 10-8-12
 Company Baird Oil Co. LLC Elevation 2203 KB 2198 GL
 Address 113 W. MAIN Box 428 Logan KS, 67646
 Co. Rep / Geo. Rich Bell Rig WW-8
 Location: Sec. 11 Twp. 7^s Rge. 22^w Co. Graham State KS

Interval Tested 3573-3629 Zone Tested LKC "F-L"
 Anchor Length 56 Drill Pipe Run 3457 Mud Wt. 9.2
 Top Packer Depth 3568 Drill Collars Run 124 Vis 55
 Bottom Packer Depth 3573 Wt. Pipe Run 0 WL 6.4
 Total Depth 3629 Chlorides 2400 ppm System LCM 1

Blow Description IFP - Surface Blow Building to 4 3/4 in. In 45 min.
ISIP - No Blow
FFP - Surface Blow in 2 min. Building to 1 3/4 in.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>145</u>	<u>MUD (Trace of Oil)</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 145 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1767 Test 1150 T-On Location 01:00
 (B) First Initial Flow 20 Jars _____ T-Started 01:33
 (C) First Final Flow 62 Safety Joint _____ T-Open 03:27
 (D) Initial Shut-In 941 Circ Sub _____ T-Pulled 06:27
 (E) Second Initial Flow 67 Hourly Standby _____ T-Out 08:12
 (F) Second Final Flow 84 Mileage 207.70 Comments _____
 (G) Final Shut-In 747 Sampler _____
 (H) Final Hydrostatic 1679 Straddle _____

Initial Open 45 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 45 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1357.70
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1357.70

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48238

Well Name & No. White-Worcester Unit #1-1 Test No. 6 Date 10-8-12
 Company Baird Oil Co. LLC Elevation 2203 KB 2198 GL
 Address 113 W. MAIN Box 428 Logan Ks. 67646
 Co. Rep / Geo. Rich Bell Rig WW-8
 Location: Sec. 11 Twp. 7^s Rge. 22^w Co. Graham State KS

Interval Tested 3694-3702 Zone Tested Conglomerate Sand
 Anchor Length 8 Drill Pipe Run 3584 Mud Wt. 9.2
 Top Packer Depth 3689 Drill Collars Run 124 Vis 55
 Bottom Packer Depth 3694 Wt. Pipe Run 0 WL 6.4
 Total Depth 3702 Chlorides 2400 ppm System LCM 1
 Blow Description IFP - Surface Blow Dried in 14min.
IFP - No Blow
IFP - pulled.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1850 Test 1150 T-On Location 16:42
 (B) First Initial Flow 17 Jars _____ T-Started 17:00
 (C) First Final Flow 19 Safety Joint _____ T-Open 19:05
 (D) Initial Shut-In 18 Circ Sub _____ T-Pulled 20:05
 (E) Second Initial Flow - Hourly Standby _____ T-Out 21:33
 (F) Second Final Flow - Mileage 207.70 Comments _____
 (G) Final Shut-In - Sampler _____
 (H) Final Hydrostatic 1821 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow pull
 Final Shut-In _____

Sub Total 1357.70 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.