



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1230102
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: _____

1230102

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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	Smith Family Trust 1-18
Doc ID	1230102

Tops

Name	Top	Datum
Anhydrite	1797	+373
Base Anhydrite	1830	+340
Topeka	3158	-988
Heebner	3368	-1198
Toronto	3390	-1220
Lansing	3407	-1237
Base Kansas City	3594	-1424
Arbuckle	3695	-1525
Total Depth	3760	-1590

Global Cementing LLC

18048 I-70 Road
Russell, KS 67665

Invoice

Date	Invoice #
9/26/2014	1485

Bill To
BAIRD OIL COMPANY LLC PO BOX 428 LOGAN,KS 67646

P.O. No.	Terms	Project
SMITH FAMILY T...	Net 30	

Quantity	Description	Rate	Amount
150	COMMON	16.75	2,512.50
5	CALCIUM	59.00	295.00
3	GEL	23.50	70.50
158	HANDLING	2.10	331.80
	BULK MILEAGE	489.80	489.80
1	TRI-PLEX PUMP CHARGE FOR SURFACE	1,250.00	1,250.00
62	PUMP TRUCK MILEAGE	6.50	403.00
62	PICKUP	2.50	155.00
	DEDUCT 15% FROM TOTAL IF PAID WITHIN 30 DAYS OF INVOICE GRAHAM CO	7.15%	0.00
<p><i>R10/2/2014</i> <i>P9/30/2014</i> <i>Smith 18 190402 5507.60</i> <i>Smith Family Trust 1-18- Pump charge,</i> <i>Cement + other misc. used to cement</i> <i>surface casing.</i></p>			

Thank you for your business.

Phone #	Fax #	E-mail
785-324-2658	785-445-3526	

Total

\$5,507.60

GLOBAL CEMENTING, L.L.C.

1485

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell KS

DATE <u>9-26-14</u>	SEC. <u>K5</u>	TWP. <u>7S</u>	RANGE <u>21W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>6:43 PM</u>
LEASE <u>Smith Family</u> WELL #. <u>118</u> LOCATION						COUNTY <u>Graham Co</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR W.W Drilling Rig #12

TYPE OF JOB Surface

HOLE SIZE 12 3/4 T.D. 230A

CASING SIZE 8 3/4 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Cody

01 HELPER Budd

BULK TRUCK

B1 DRIVER Budd

BULK TRUCK

DRIVER

REMARKS:

Ran 5 joints of 8 3/4 casing + landing joint EST

Circulation Hook-up pumped 150 sks circulated

Cement Displaced 13 bbs of #20 shut in at

200 psi

CHARGE TO: Barred Oil Co.

STREET

CITY STATE ZIP

Global Cementing, L.L.C.,
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Walter Brown

SIGNATURE Walter Brown

OWNER

CEMENT AMOUNT ORDERED 150 sks con 30 cc 2 1/2 gal

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE 31 1/2 @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

SWIFT



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



Invoice

DATE	INVOICE #
10/7/2014	26814

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	#1-18	Smith Family...	Graham	Bach Well Service	Oil	Development	Port Collar	Nick

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	6.00	420.00
576D-D	Pump Charge - Port Collar - 1821 Feet	1	Job	1,500.00	1,500.00
290	D-Air	3	Gallon(s)	42.00	126.00T
105	Port Collar Tool Rental With Man	1	Each	350.00	350.00T
107	Stripper Head Rental Per Day	1	Each	250.00	250.00T
330	Swift Multi-Density Standard (MIDCON II)	215	Sacks	18.50	3,977.50T
276	Flocele	50	Lb(s)	2.50	125.00T
581D	Service Charge Cement	225	Sacks	2.00	450.00
583D	Drayage	770	Ton Miles	1.00	770.00
	Subtotal				7,968.50
	Sales Tax Graham County			7.15%	345.24
	<i>R10/10/2014</i>				
	<i>P10/10/2014</i>				
	<i>Smith 18 190402 7938.71</i>				
	<i>Smith Family Trust 1-18 - Pump Charge, Cement + other misc. expenses used to Cement port collar</i>				
	<i>Smith 18 190402 375.03</i>				
	<i>Smith Family Trust 1-18 - Rental of port collar + man when cementing port collar</i>				
				<i>10/10/2014</i>	
				<i>CK#14834</i>	

We Appreciate Your Business!	Total	\$8,313.74
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CHARGE TO: Baird Oil Co
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET 26814

PAGE 1 OF 1

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

WELL/PROJECT NO. #1-18
 LEASE Smith Family Trust
 COUNTY/PARISH Graham
 STATE KS
 CITY _____

TICKET TYPE SERVICE
 SALES
 CONTRACTOR Back Well Service
 RIG NAME/NO. _____

WELL TYPE 0'1'
 WELL CATEGORY Development
 JOB PURPOSE Part Collar

INVOICE INSTRUCTIONS _____

DATE 10-7-14
 ORDER NO. _____
 OWNER Same

WELL LOCATION _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1				#111	70	m.			6.00	420.00
578D		1			Pump Charge (Part Collar)		100		1821'		1500.00	150000.00
290		1			D. Air		3	psl			42.00	126.00
105		1			Part Collar Tool Rental w/ man		1	ea			350.00	350.00
107		1			Stripper Head		1	ea			250.00	250.00
330		2			SMD Cement		215	skts			18.50	3977.50
276		2			Flacole		50	#			2.50	125.00
581		2			Cement Service Charge		225	skts			2.00	450.00
583		2			Drayage		720	TM			1.00	720.00

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.

REMIT PAYMENT TO:

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

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

DATE SIGNED 10-7-14 TIME SIGNED 11
 A.M. P.M.

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	7968	500
TOTAL	6313	7

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

SWIFT OPERATOR Michelle APPROVAL _____

Thank You

JOB LOG

SWIFT Services, Inc.

DATE 10-7-14 PAGE NO. 1

CUSTOMER Baird Oil Co WELL NO. #1-18 LEASE Smith Family Trust JOB TYPE Port Cellar TICKET NO. 26814

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							on loc w/ P.C. Tool
								2 3/8" x 5 1/2"
								P.C. 1821'
								T.H. w/ P.C. Tool
								Locate P.C.
	1030						1000	Test Csg
								Open P.C.
	1035	4	5				450	Take rate & check for blow
	1040	5	0				700	start mud
	1055	5	80/0				700	start water
	1056	5	5/0				700	start Cement
	1117	5	107				700	circ. Cement/Raise weight
	1118	5	112/0				700	End Cement/start Displacement
	1120		6				800	Cement Displaced
								close P.C.
	1125						1000	Test Csg
								Run 5jts
	1130	3	0				250	Reverse out
	1135		15					Hole Clean
	1140							T.O.H. w/ P.C. Tool
								215 sks SMD
								Circ 20 sks to pit
								Thank you
								Nick, David E., Austin, & Jared

SWIFT



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



Invoice

DATE	INVOICE #
10/4/2014	26811

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	#1-18	Smith Family...	Graham	WW Drilling	Oil	Development	LongString	Nick

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	6.00	420.00
578D-L	Pump Charge - Long String - 3760 Feet	1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)	2	Gallon(s)	25.00	50.00T
280	Flocheck 21	500	Gallon(s)	3.00	1,500.00T
290	D-Air	3	Gallon(s)	42.00	126.00T
402-5	5 1/2" Centralizer	12	Each	70.00	840.00T
403-5	5 1/2" Cement Basket	1	Each	300.00	300.00T
404-5	5 1/2" Port Collar	1	Each	2,900.00	2,900.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	375.00	375.00T
411-5	5 1/2" Recipo Scratcher	30	Each	50.00	1,500.00T
195	High Connection Fee - 10 Feet Or More Above Rig Floor	1	Each	250.00	250.00T
325	Standard Cement	200	Sacks	14.50	2,900.00T
326	60/40 Pozmix (2% Gel)	40	Sacks	11.50	460.00T
276	Flocele	50	Lb(s)	2.50	125.00T
277	Gilsonite (Coal Seal)	400	Lb(s)	0.75	300.00T
283	Salt	1,550	Lb(s)	0.20	310.00T
285	CFR-1	100	Lb(s)	4.50	450.00T
581D	Service Charge Cement	240	Sacks	2.00	480.00
583D	Drayage	846.5	Ton Miles	1.00	846.50
	Subtotal				15,907.50
	Sales Tax Graham County			7.15%	905.26

R10/8/2014
P 10/10/2014
Smith 18 190402 16,812.76
Smith Family Trust 1-18- Pump charge,
Cement + other misc. expenses used to
cement production casing

We Appreciate Your Business!

Total

\$16,812.76



CHARGE TO: Baird O.I.C.
 ADDRESS:
 CITY, STATE, ZIP CODE

TICKET 268111

PAGE 1 OF 2

1. Hays, Ks. WELL/PROJECT NO. E1-18 LEASE Smith Family Trust Graham COUNTY/PARISH STATE KS CITY
 2. Ness City, Ks. CONTRACTOR W W #12 RIG NAME/NO. W W #12 DELIVERED TO location
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE longstring WELL PERMIT NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
575		1				#111	70	mi			6.00	420.00
578		1			Pump Charge (longstring)		1.00		3760	'	1500.00	1500.00
221		1			KCL		2.00	gal			25.00	50.00
280		1			Flochock-21		500	gal			3.00	1500.00
290		1			D-Air		3	gal			42.00	126.00
402		1			Centralizers		12	ea	5 1/2'		70.00	840.00
403		1			Baske		1	ea			300.00	300.00
404		1			Part Cellar		1	ea			2900.00	2900.00
406		1			LD Plug & Bldg		1	ea			225.00	225.00
407		1			Insert Float Shoe w/Bill		1	ea			375.00	375.00
411		1			Recipio Scratcher		30	ea			50.00	1500.00
195		1			High Connection Fee		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
 DATE SIGNED 10-4-14 TIME SIGNED 8:00
 AM PM

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?
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	1	0.36	100.00
PAGE 2	2	587.9	587.9
Graham TAX 7.15%		15,907.5	905.2
TOTAL		16,812.7	

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

Thank You



Services, Inc.

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

TICKET CONTINUATION

TICKET No. 26811

CUSTOMER *Baird Oil Co.*

WELL *A-18 Smith Family Tract*

DATE *10-4-14*

PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	UM		
325		2				Standard Cement	200	SKS	14.50	2900.00
326		2				9420 mix 2% gel	40	PKS	11.50	460.00
276		2				Floccle	50	#	2.50	125.00
277		2				Gilsonite	400	#	35	300.00
283		2				Salt	1530	#	20	310.00
285		2				CFR-1	100	#	4.50	450.00
581		2				SERVICE CHARGE			2.00	480.00
583		2				MILEAGE CHARGE			1.00	846.50
						TOTAL WEIGHT				
						LOADED MILES				
						CUBIC FEET				
						TON MILES				

CONTINUATION TOTAL 5871.00

JOB LOG

SWIFT Services, Inc.

DATE 10-4-14 PAGE NO. 1

CUSTOMER Baird Oil Co. WELL NO. #1-18 LEASE Smith Family Trust JOB TYPE Long string TICKET NO. 26811

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1215							on loc w/ FE
								RTD 3760' LTD 3760'
								5 1/2" X 14# X 3758' X 21'
								Cent 1-11, 45
								Bank 46
								PC 46 @ 1831'
	1415							Start FE
	1545							Break Circ.
	1700	2	7					Plug H 30 sks 60% Poz 2% gel
	1710	5	0			200		start KCL flush 10 bbl
	1702	5	10/0			200		start Flocheck-21 500gal
	1704	5	12/0			200		start KCL flush 10 bbl
	1706	5	10/0			200		start 10 sks 60% Poz 2% gel
	1707	5	5/0			200		start 200 sks Standard 18% Salt
	1715		43					End Cement
								Wash P&H
								Drapt. D. Plug
	1734	6	0			200		start Displacement
	1744	5	60			450		Catch Cement
	1756		91			400/1400		Land Plug
								Releas Pressure
								Float Held

Thank you
 Nick, David E, Austin & Craig

APT # 15-065-24063-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC
 LEASE Smith Family Trust #1-18
 FIELD Worcester East
 LOCATION 1330' FNL + 890' FNL
 SEC 18 TWP 7S RGE 21W
 COUNTY Graham STATE Kansas

ELEVATION
 KB 2170'
 DF 2168'
 GL 2162'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR WWD Drilling Rig #12
 SPUD 9-26-14 COMP 10-4-14
 SAMPLES SAVED FROM 3100' TO R.T.D

CASING
 Surface 8 5/8" @ 229'
 Production 5 1/2"

ELECTRIC LOGS
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOC	DATUM	A	B	C	D
			<u>Klog</u>	●	●		
<u>Anhydrite</u>	<u>1798</u>	<u>1797</u>	<u>+ 373</u>	<u>+ 373</u>			
<u>Base Anhydrite</u>	<u>1831</u>	<u>1830</u>	<u>+ 340</u>	<u>+ 342</u>			
<u>Topeka</u>	<u>3158</u>	<u>3158</u>	<u>- 988</u>	<u>- 984</u>	<u>- 989</u>		
<u>Heebner</u>	<u>3368</u>	<u>3368</u>	<u>- 1198</u>	<u>- 1193</u>	<u>- 1197</u>		
<u>Toronto</u>	<u>3390</u>	<u>3390</u>	<u>- 1220</u>	<u>- 1215</u>	<u>- 1219</u>		
<u>Lansing</u>	<u>3407</u>	<u>3407</u>	<u>- 1237</u>	<u>- 1231</u>	<u>- 1235</u>		
<u>Base Kansas City</u>	<u>3594</u>	<u>3594</u>	<u>- 1424</u>	<u>- 1418</u>	<u>- 1427</u>		
<u>Arbuckle</u>	<u>3695</u>	<u>3695</u>	<u>- 1525</u>	<u>- 1495</u>	<u>N.R.</u>		
<u>Total Depth</u>	<u>3760</u>	<u>3760</u>	<u>- 1590</u>	<u>- 1599</u>	<u>- 1535</u>		

REFERENCE WELLS

- ^A Baird Oil Co., Esther Worcester #5-13, 2270' FSL + 620' FEL Sec. 13-7S-22W
- ^B Black Diamond, Fusillo #1, 950' FNL + 1740' FEL, Sec. 18-7S-21W
- ^C
- ^D

REMARKS

This well ran structurally favorable on the Arbuckle top with other producers in the area. Encouraging results on DST #6 warranted the cementing of production casing to further test the well. The Arbuckle should be tested from 3695' to 3706'.

Richard P. Bell
10-4-14

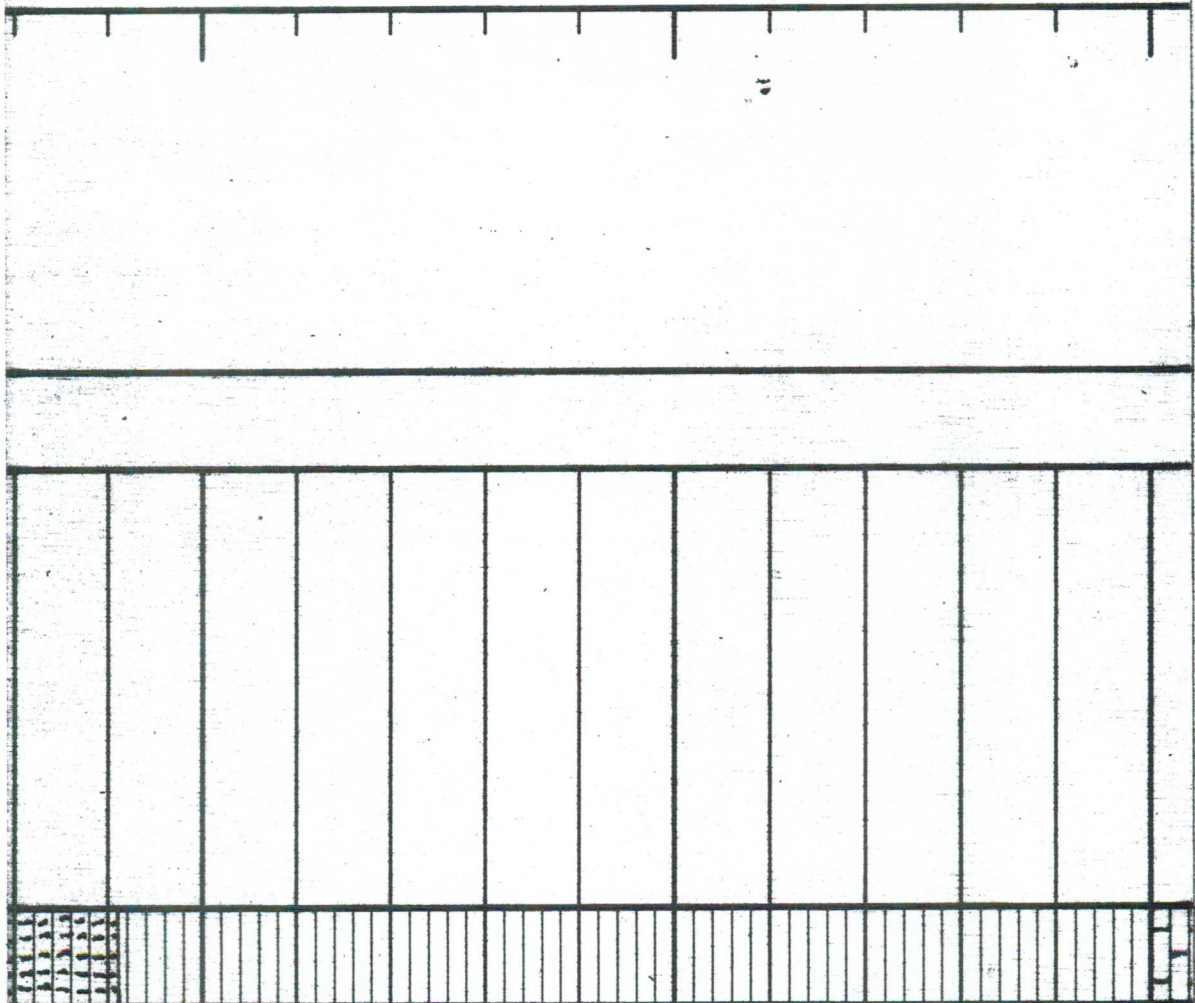
7502

LEGEND

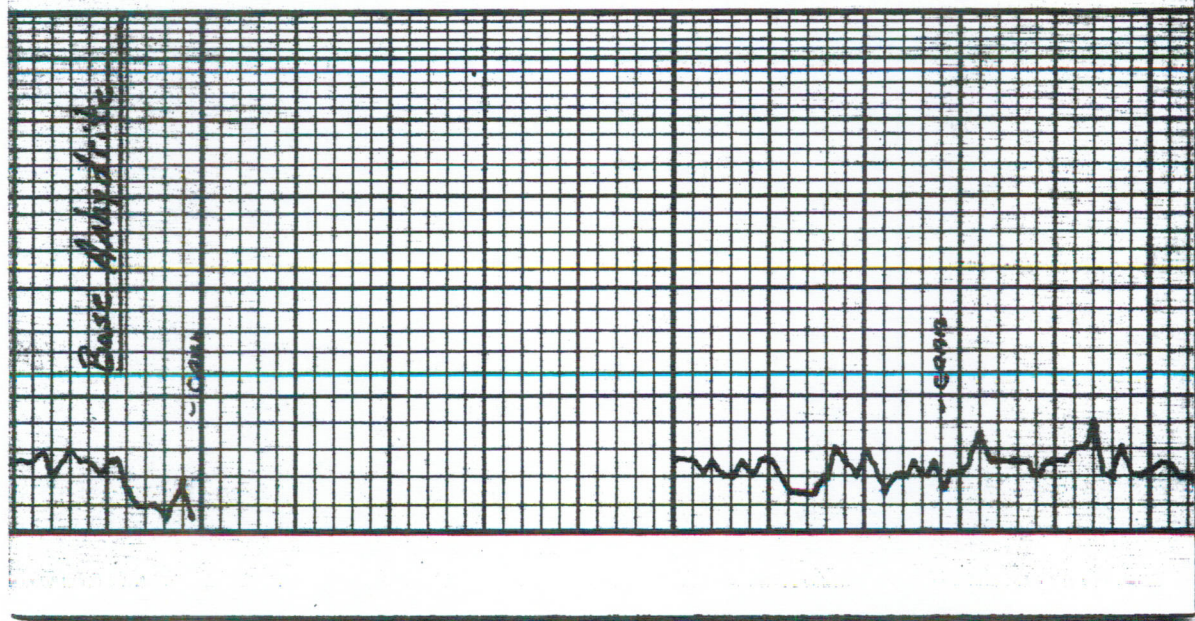
- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Ool. Lime
- Chert
- Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	1800				

LOG 7710



40 3000 20 40





a.a.	LS: wh-trn sl: cky-fs/f dms N.S.O.
	LS: trn-gr/mtd fs/f dms
	LS: wh-trn sl: cky-fs/f pp φ N.S.O.
	LS: wh-trn fs/lm-fs/f fsly ody fs: includes pp φ N.S.O. 1 Δ trn wh-trn
	LS: wh-trn v. cky-fs/lm-sl: fs/f pp φ Δ trn wh-trn
	LS: wh-trn sl: cky-fs/lm dms
	LS: gr: fs/f dms Sh: brn sl: cky LS: trn-brn mly fs/f dms Sh: gr: sl: cky
	Sh: brn sl: cky
	LS: wh-trn cky-fs/lm tr: pp φ fs: riable N.S.O.
	LS: wh-trn fs/lm pp φ-tr. V9 φ N.S.O.

3200

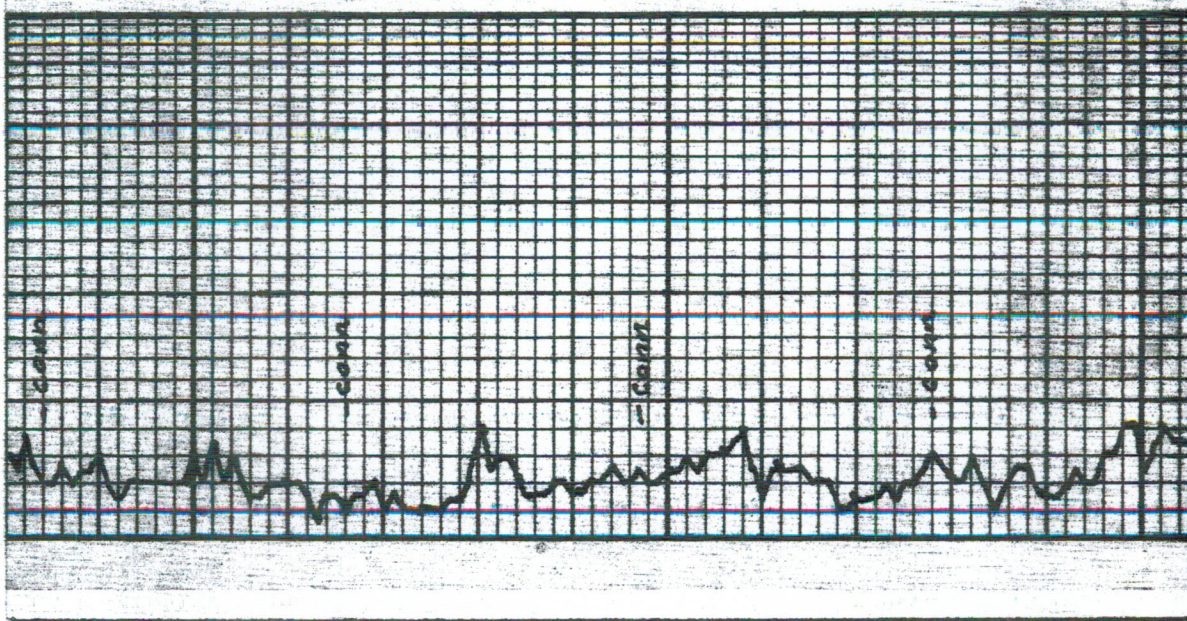
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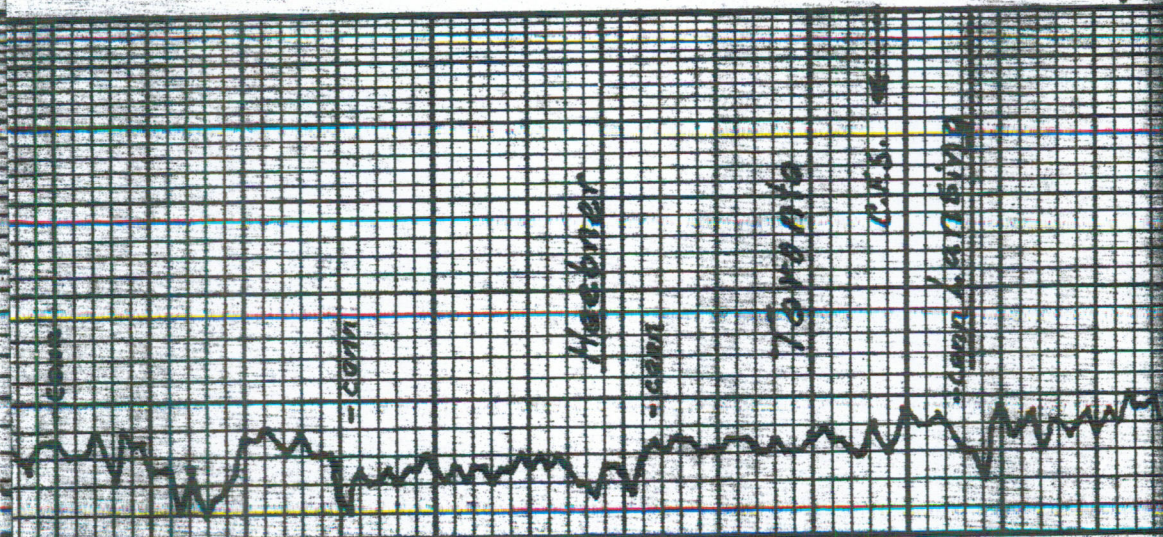
40

60

80

3300





LS: wh - tn - lt. gry sli. cky - fs/f dms	Sh: blk Carb
LS: tn - brn - fs/f dms	LS: wh - tn - fs/f pp @ - 70 usrp
LS: wh - tn - fs/f pp @ - 70 usrp	Tn: drk thick @ 5th
No odor Δ TN	
LS: tn - lt. gry - fs/f dms	
LS: wh - tn - gry cky - fs/f dms	
LS: wh - tn - lt. gry cky - fs/f dms	
LS: wh - tn - fs/f pp @ thick dms	
LS: tn - fs/f dms	
Sh: gry slty	
Sh: brn slty	
LS: wh - tn - cky - fs/f dms	
LS: tn - gry	
Sh: brn + gry	
LS: wh - tn - fs/f pp @ dms	
Tn: sub bot N.S.O.	
LS: wh - tn - fs/f dms	

20

40

60

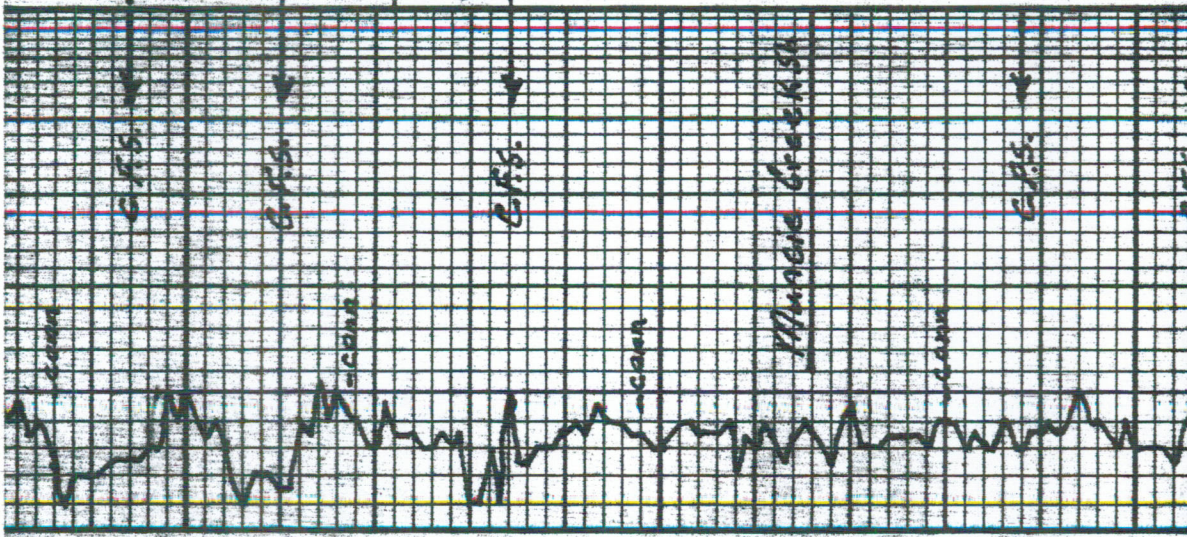
80

3400

A

20

Strap 3468.21
 Beard 3467.44
 Diff. .77
 Incline @ 3444' 3/4"
 Tribric Testing
 DST #1 3423'-2444'
 30-30-30-30
 21 min



① 40 C
 ③ 60 D
 ③ 80 F
 3500
 20
 40
 I

Sh. gry + brn	LS: wh. to fcln - msh. includ Tr. gy @ dk. thick flanging. F.O. brk @ sat. str. odor. A. gry
LS: wh. to fcln dms	LS: wh. to fcln dms
LS: tm-h. gry-brn fcln dms N.S.O.	LS: tm-h. gry-brn fcln dms N.S.O.
LS: wh. to fcln oil in part v. gy @ dk. rainbow sp. brk @ sat. pp F.O. v. fl. odor	LS: wh. to fcln oil in part v. gy @ dk. rainbow sp. brk @ sat. pp F.O. v. fl. odor
LS: wh. - crm sl: cky. fcln Tr. sub oil dms N.S.O. A. wh.	LS: wh. - crm sl: cky. fcln Tr. sub oil dms N.S.O. A. wh.
a.a.	a.a.
Sh: blk Carb	Sh: blk Carb
Sh: gry silty	Sh: gry silty
LS: wh. to fcln - fs. fcln pr. ht. spid @ str. R.T. pp F.O. on crushing. No odor	LS: wh. to fcln - fs. fcln pr. ht. spid @ str. R.T. pp F.O. on crushing. No odor
LS: fm. gry silty dms	LS: fm. gry silty dms
Sh: brn silty-gry	Sh: brn silty-gry
LS: wh. to fcln - silty silty dms at. spid @ str. pp F.O. on crushing	LS: wh. to fcln - silty silty dms at. spid @ str. pp F.O. on crushing

FP: wk blow, max. to 7%
 PSI: dk blow
 Recovery: 290 Total
 2. C.O.
 40' MW 20% W, 80% M
 100' MW 90% W, 10% M
 12' MW 40% W, 60% M
 Hyd: 1699-1594#
 FP: 15-97/100-144#
 BHP: 770-765#
 BHTemp: 109°F.
 Chlorides: 90,000ppm

DST #2 3444'-3460'
 15-30-30-30
 IT: B.O.B. in 6 min.
 ITI: No blow
 FP: B.O.B. in 8 min.
 FSI: No blow
 Recovery: 584 Total
 5' C.O.
 93' MW 40% W, 60% M
 124' MW 70% W, 30% M
 362' MW 95% W, 5% M
 Hyd: 1719-1634#
 FP: 23-141/154-296#
 BHP: 791-784#
 BHTemp: 111°F.

DST #3 3472'-3484'
 15-45-30-45
 IT: B.O.B. in 3 min.
 ITI: 28 min. wk blow
 FP: B.O.B. in 4 min.
 FSI: wk blow
 Recovery: 806 Total
 2' C.O.
 804' MW 70% W, 30% M
 Hyd: 1728-1686#
 FP: 62-200/226-415#
 BHP: 801-783#

BHTemp: 111°F.
 Chlorides: 80,000 ppm

DST#4 3635-3670'
 30-30-0-0
 IF: 1/8" blow
 FSI: No blow
 Pulled tool

Recovery:
 3' OC M 57.0, 95% M
 HYD: 1809-1764#
 FP: 21-21#
 BNP: 31#
 BHTemp: 101°F.

DST#5 3634'-3722'
 Packer Failure

Straddle Test

DST#6 3657'-3730'
 45-45-45-45
 IF: B.O.B. in 7 min.
 FSI: 4 1/2" return blow
 FF: B.O.B. in 14 min.
 FSI: 3" return blow
 Recovery: 445' Total
 241' G.O. 2076, 80% O

Sh: brn 5 by 4 gry

LS: wh-k sh. clay-fs/f pr. pp
 Pr. H. 0.5% RT. P.F.O. No odor

Sh: brn 4 gry

LS: wh-crm fcln det pr. pp
 Spnd 0.5% RT. P.F.O.
 No odor

LS: wh-k fcln dms N.S.O.
 Tr glauc spks

Sh: brn 4 gry

"

LS: tan-brn fcln dms N.S.O.

Sh: brn

LS: wh-k -brn fcln dms N.S.O.

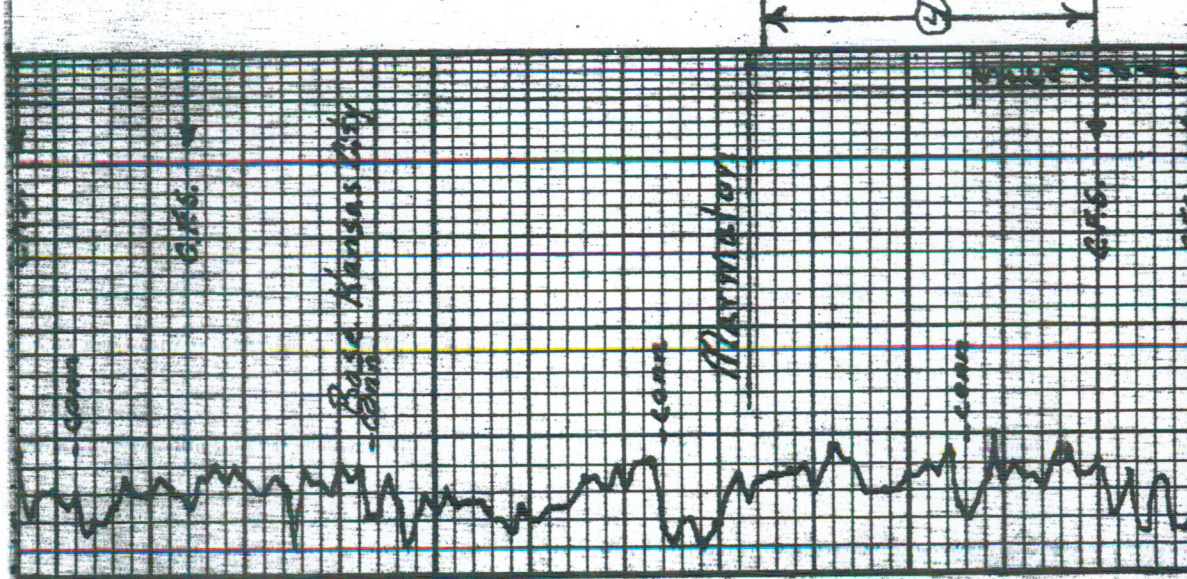
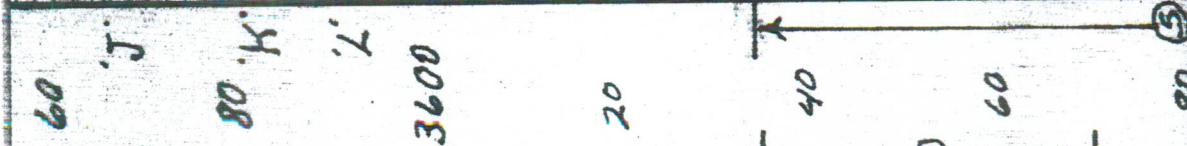
Sh: brn

LS: wh-k sh. sdy fcln vgy φ
 fr spnd 0.5% P.F.O. No odor

SS: fm. gn. fonsol. clt. rnd.
 ingrain φ 0.5% Tr. P.O.

LS: wh-k fcln-fs/f vgy φ det
 0.5% Tr. P.O. No odor

Sh: brn 4 gry



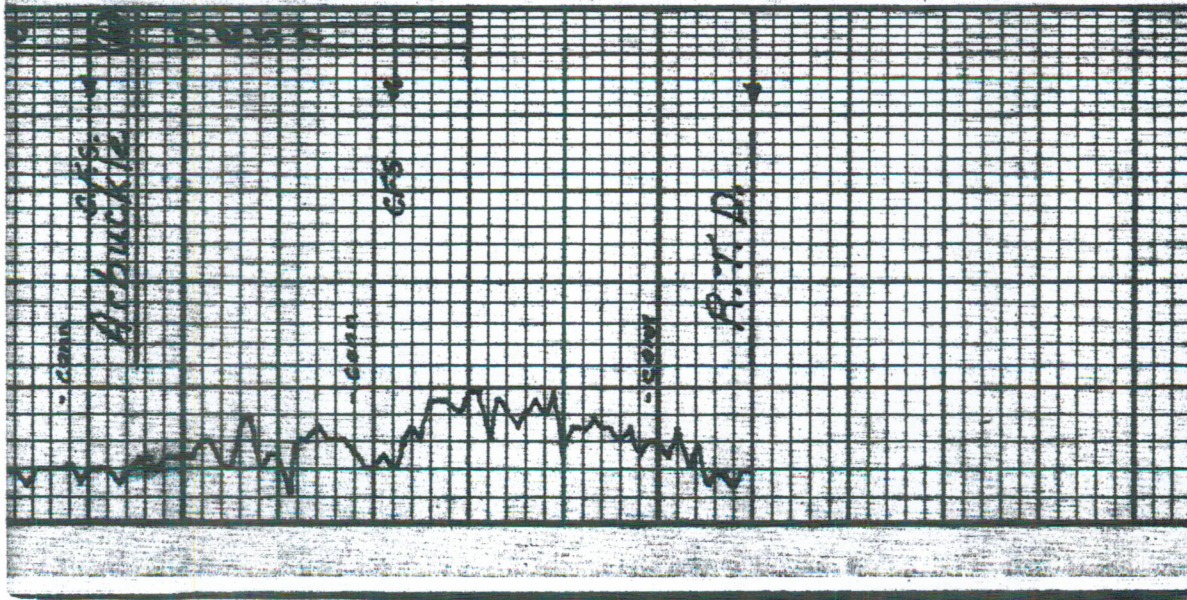
Base Kansas City

Perm

NYA: 1782-1769 #
 FP: 90-167/170-200 #
 BHP: 700-597 #
 BNTemp: 109 °F.
 Gravity: 24 - API.

Sk: brn, gry + grn	
Sl: brn T.A. Yel	
Dol: wh. to pt. fch. - main incl. @ 15% to 20% above H dk @ sat pp floating F. @ glauc. spks fr. odor	✓
Dol: wh. to inc. fch. decr 5% fr. odor	✓
Dol: wh. to fch. incl. @ mostly barren fr. odor	
Dol: wh. to fch. dns T. 5% from above	
Dol: wh. to fch. - main pr incl. @ inc. glauc. spks T. 5% to 10%	
Dol: to. lt. gry fch. T. main incl. @ N.S.P. glauc. spks.	

3700
 20
 40
 60





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.09.30 @ 07:28:00

End Date: 2014.09.30 @ 14:42:30

Job Ticket #: 59360 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.07 @ 15:11:35



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Baird Oil Co Inc

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Smith Family Trust #1-18

18-7s-21w Graham, KS

Job Ticket: 59360

DST#: 1

Test Start: 2014.09.30 @ 07:28:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:54:00

Time Test Ended: 14:42:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3423.00 ft (KB) To 3444.00 ft (KB) (TVD)

Reference Elevations: 2170.00 ft (KB)

Total Depth: 3444.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8940

Outside

Press@RunDepth: 144.32 psig @ 3426.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.30

End Date:

2014.09.30

Last Calib.:

2014.09.30

Start Time:

07:28:05

End Time:

14:42:29

Time On Btm:

2014.09.30 @ 10:53:45

Time Off Btm:

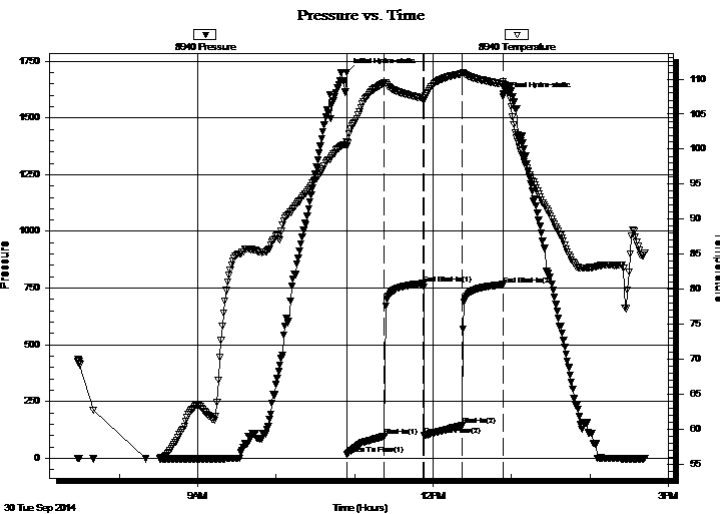
2014.09.30 @ 12:53:30

TEST COMMENT: 30 - IF- B.O.B. in 21 minutes

30 - IS- No blow

30 - FF- 7 1/2" blow

30 - FS- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.29	101.04	Initial Hydro-static
1	15.92	100.42	Open To Flow (1)
29	97.76	109.45	Shut-In(1)
59	770.42	107.28	End Shut-In(1)
60	100.26	106.96	Open To Flow (2)
89	144.32	110.77	Shut-In(2)
120	765.42	109.29	End Shut-In(2)
120	1594.31	109.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	WM, 40%W, 60%M	0.30
186.00	MW, 10%M, 90%W	2.08
40.00	WM - Oil spots, 20%W, 80%M	0.56
2.00	Free Oil, 100%O	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 59360

DST#: 1

ATTN: Richard Bell

Test Start: 2014.09.30 @ 07:28:00

Tool Information

Drill Pipe:	Length: 3286.00 ft	Diameter: 3.80 inches	Volume: 46.09 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: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 46.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3423.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3403.00	
Shut In Tool	5.00			3408.00	
Hydraulic tool	5.00			3413.00	
Packer	5.00			3418.00	21.00 Bottom Of Top Packer
Packer	5.00			3423.00	
Stubb	1.00			3424.00	
Perforations	2.00			3426.00	
Recorder	0.00	8648	Inside	3426.00	
Recorder	0.00	8940	Outside	3426.00	
Perforations	15.00			3441.00	
Bullnose	3.00			3444.00	21.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59360 **DST#: 1**

ATTN: Richard Bell

Test Start: 2014.09.30 @ 07:28:00

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:

90000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	WM, 40%W, 60%M	0.305
186.00	MW, 10%M, 90%W	2.081
40.00	WM - Oil spots, 20%W, 80%M	0.561
2.00	Free Oil, 100%O	0.028

Total Length: 290.00 ft Total Volume: 2.975 bbl

Num Fluid Samples: 0

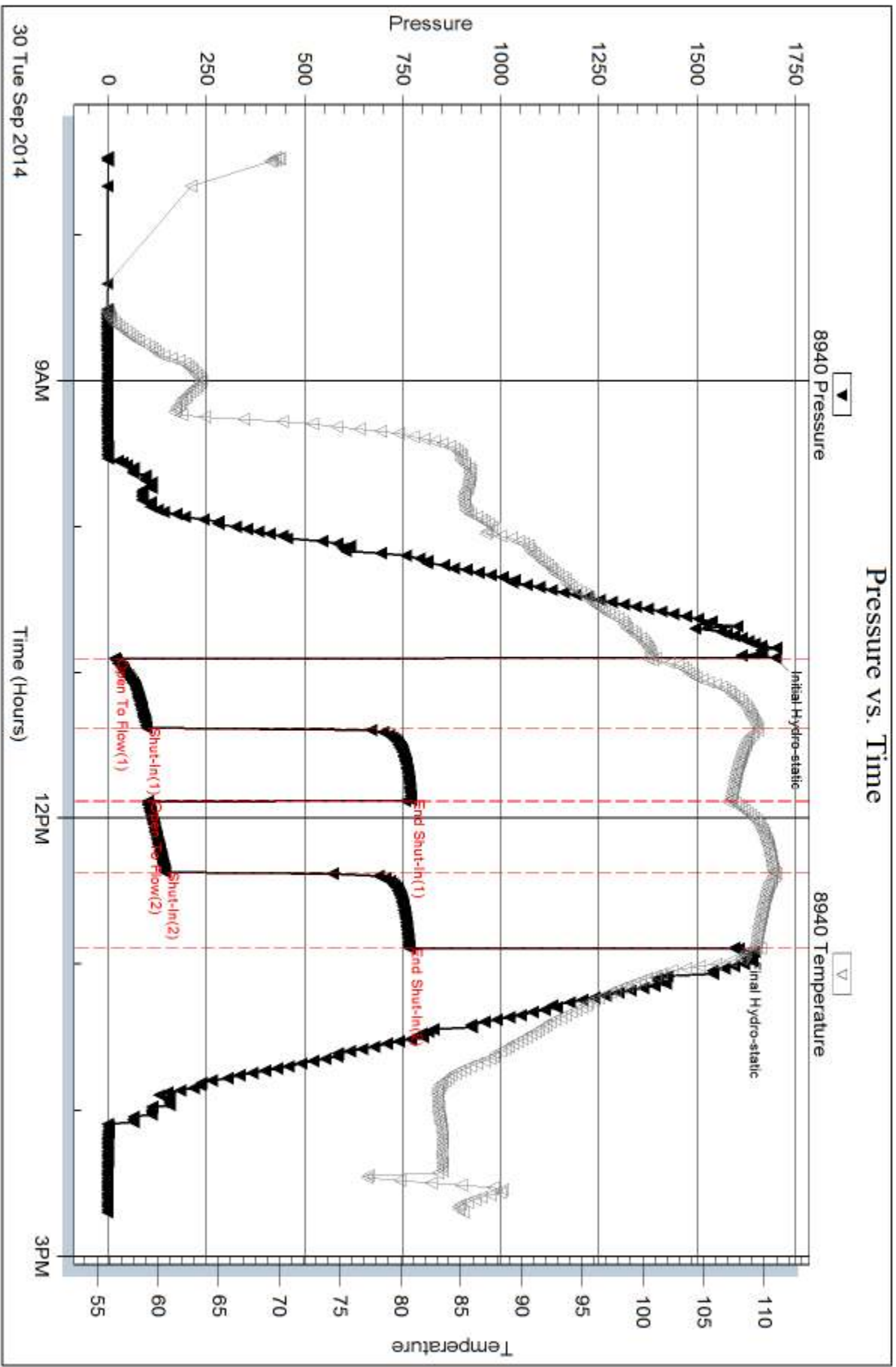
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Salinity: .07 @ 85 Degrees = 90000





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.09.30 @ 19:58:00

End Date: 2014.10.01 @ 02:46:00

Job Ticket #: 59361 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.07 @ 15:10:58



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co Inc

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Smith Family Trust #1-18

18-7s-21w Graham, KS

Job Ticket: 59361

DST#: 2

Test Start: 2014.09.30 @ 19:58:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:50:45

Time Test Ended: 02:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3444.00 ft (KB) To 3460.00 ft (KB) (TVD)

Reference Elevations: 2170.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 296.56 psig @ 3447.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.30

End Date:

2014.10.01

Last Calib.: 2014.10.01

Start Time: 19:58:05

End Time:

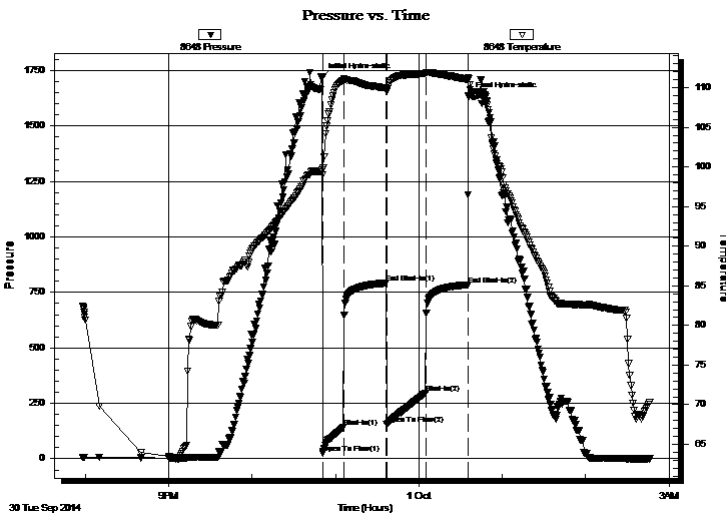
02:45:59

Time On Btm: 2014.09.30 @ 22:50:30

Time Off Btm: 2014.10.01 @ 00:35:45

TEST COMMENT: 15 - IF- B.O.B. in 6 minutes
30 - IS- No return
30 - FF- B.O.B. in 8 minutes
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.95	99.66	Initial Hydro-static
1	23.79	98.99	Open To Flow (1)
16	141.99	110.92	Shut-In(1)
46	791.70	109.94	End Shut-In(1)
47	154.60	109.59	Open To Flow (2)
75	296.56	111.79	Shut-In(2)
105	784.98	111.05	End Shut-In(2)
106	1634.73	111.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
362.00	MW, 5%M, 95%W	3.98
124.00	MW, 30%M, 70%W	1.74
93.00	WM - Oil spots, 40%W, 60%M	1.30
5.00	Free Oil - Thick oil, 100%O	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 Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59361

DST#: 2

ATTN: Richard Bell

Test Start: 2014.09.30 @ 19:58:00

Tool Information

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.80 inches	Volume: 46.53 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: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 47.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3444.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 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
Change Over Sub	1.00			3424.00	
Shut In Tool	5.00			3429.00	
Hydraulic tool	5.00			3434.00	
Packer	5.00			3439.00	21.00 Bottom Of Top Packer
Packer	5.00			3444.00	
Stubb	1.00			3445.00	
Perforations	2.00			3447.00	
Recorder	0.00	8648	Inside	3447.00	
Recorder	0.00	8940	Outside	3447.00	
Perforations	10.00			3457.00	
Bullnose	3.00			3460.00	16.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59361

DST#: 2

ATTN: Richard Bell

Test Start: 2014.09.30 @ 19:58:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
362.00	MW, 5%M, 95%W	3.985
124.00	MW, 30%M, 70%W	1.739
93.00	WM - Oil spots, 40%W, 60%M	1.305
5.00	Free Oil - Thick oil, 100%O	0.070

Total Length: 584.00 ft

Total Volume: 7.099 bbl

Num Fluid Samples: 0

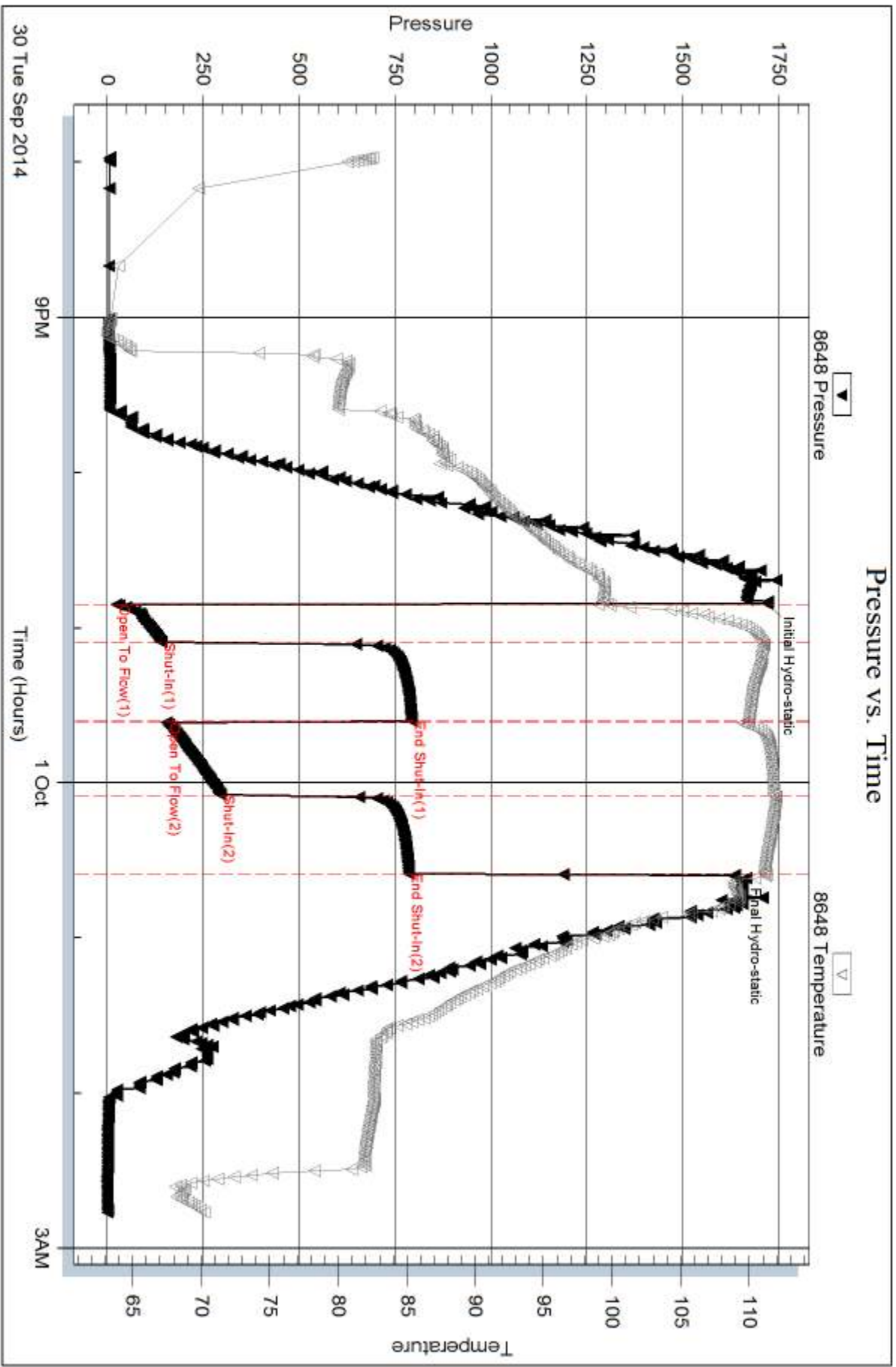
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

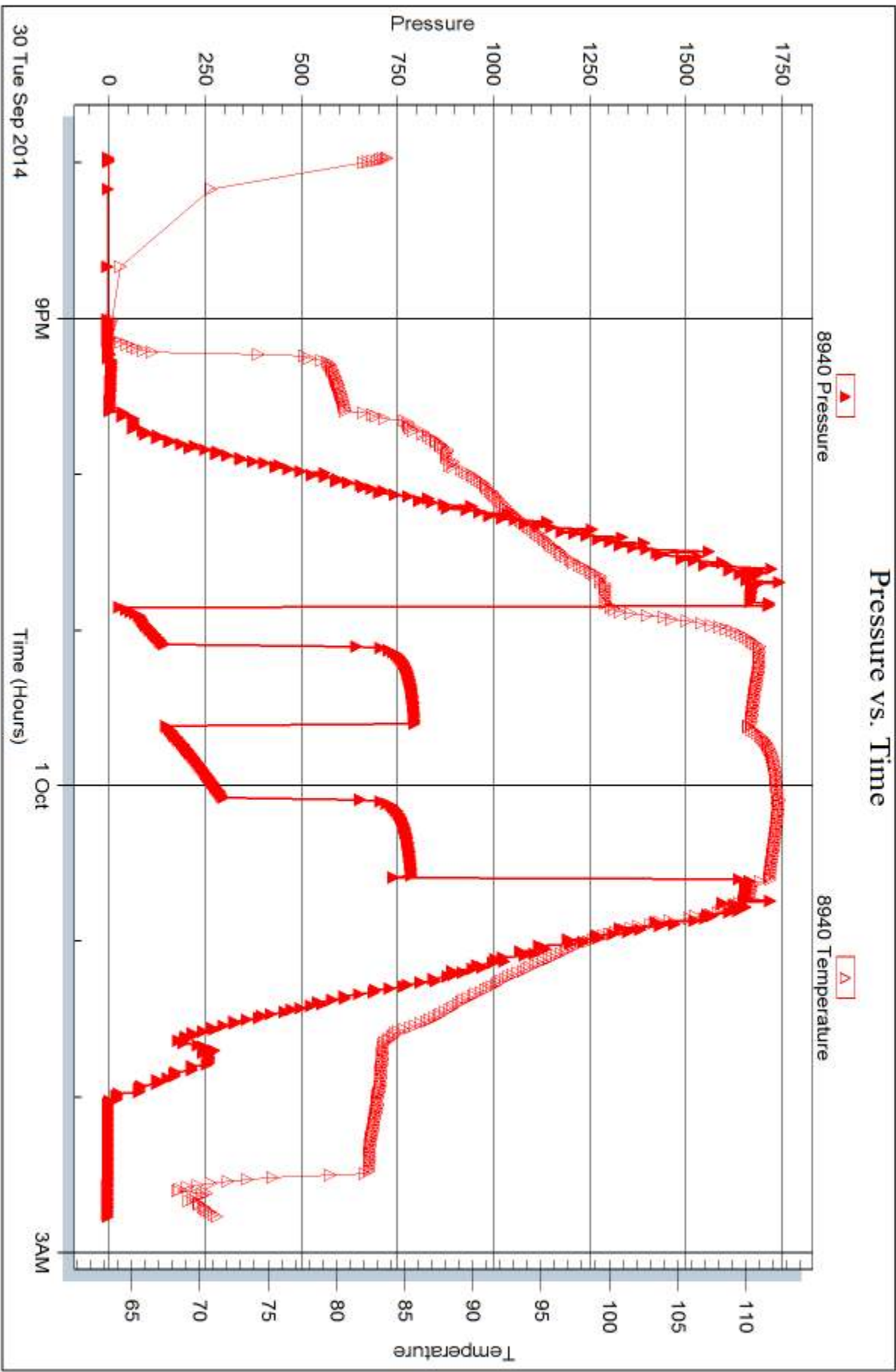


Serial #: 8940

Outside Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.10.01 @ 08:58:00

End Date: 2014.10.01 @ 15:26:00

Job Ticket #: 59362 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.07 @ 15:10:35

Baird Oil Co Inc
Smith FamilyTrust #1-18
18-7s-21w Graham,KS
DST # 3
LKC "F"
2014.10.01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Baird Oil Co Inc

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Smith Family Trust #1-18

18-7s-21w Graham, KS

Job Ticket: 59362

DST#: 3

Test Start: 2014.10.01 @ 08:58:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:11:15

Time Test Ended: 15:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3472.00 ft (KB) To 3484.00 ft (KB) (TVD)

Total Depth: 3484.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2170.00 ft (KB)

2162.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 415.54 psig @ 3476.00 ft (KB)

Start Date: 2014.10.01

End Date:

2014.10.01

Start Time: 08:58:05

End Time:

15:25:59

Capacity: 8000.00 psig

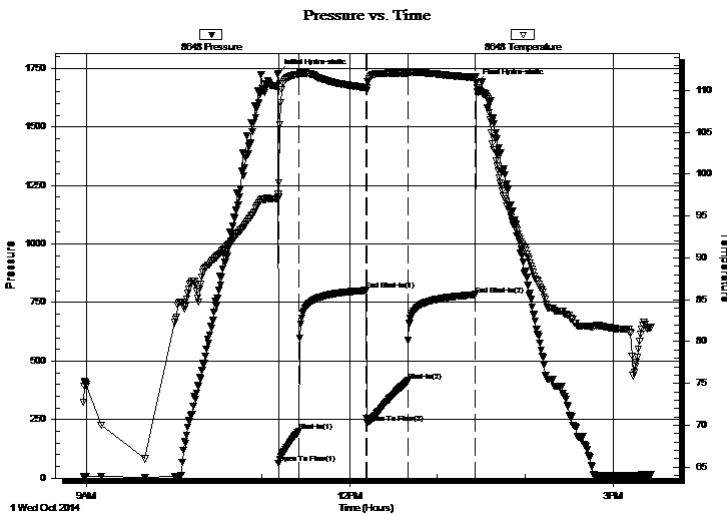
Last Calib.: 2014.10.01

Time On Btm: 2014.10.01 @ 11:11:00

Time Off Btm: 2014.10.01 @ 13:26:30

TEST COMMENT: 15 - IF- B.O.B. in 3 minutes
45 - IS- Surface return, died in 28 minutes
30 - FF- B.O.B. in 4 minutes
45 - FS- Surface return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.90	97.65	Initial Hydro-static
1	62.87	97.23	Open To Flow (1)
14	200.84	111.94	Shut-In(1)
61	801.65	110.36	End Shut-In(1)
61	236.09	110.30	Open To Flow (2)
89	415.54	112.09	Shut-In(2)
135	783.69	111.55	End Shut-In(2)
136	1686.55	111.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
804.00	MW, 30%M, 70%W	10.18
2.00	Free Oil, 100%O	0.03

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 Co Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 59362

DST#: 3

ATTN: Richard Bell

Test Start: 2014.10.01 @ 08:58:00

Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 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:	30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	56000.00 lb
			<u>Total Volume: 47.55 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3472.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	33.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3452.00	
Shut In Tool	5.00			3457.00	
Hydraulic tool	5.00			3462.00	
Packer	5.00			3467.00	21.00 Bottom Of Top Packer
Packer	5.00			3472.00	
Stubb	1.00			3473.00	
Perforations	3.00			3476.00	
Recorder	0.00	8648	Inside	3476.00	
Recorder	0.00	8940	Outside	3476.00	
Perforations	5.00			3481.00	
Bullnose	3.00			3484.00	12.00 Bottom Packers & Anchor

Total Tool Length: 33.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59362

DST#: 3

ATTN: Richard Bell

Test Start: 2014.10.01 @ 08:58:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
804.00	MW, 30%M, 70%W	10.185
2.00	Free Oil, 100%O	0.028

Total Length: 806.00 ft Total Volume: 10.213 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8648

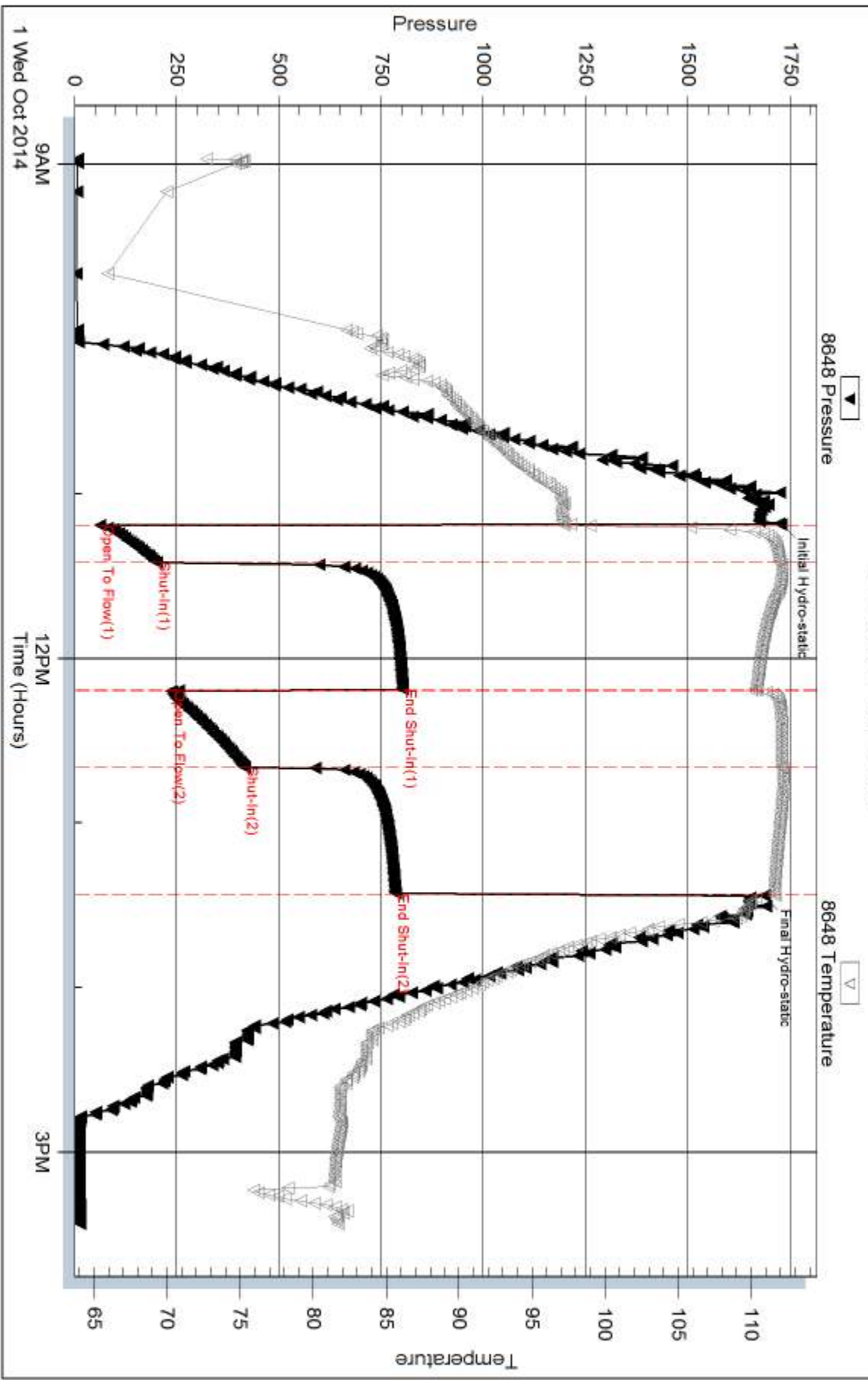
Inside

Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 59362

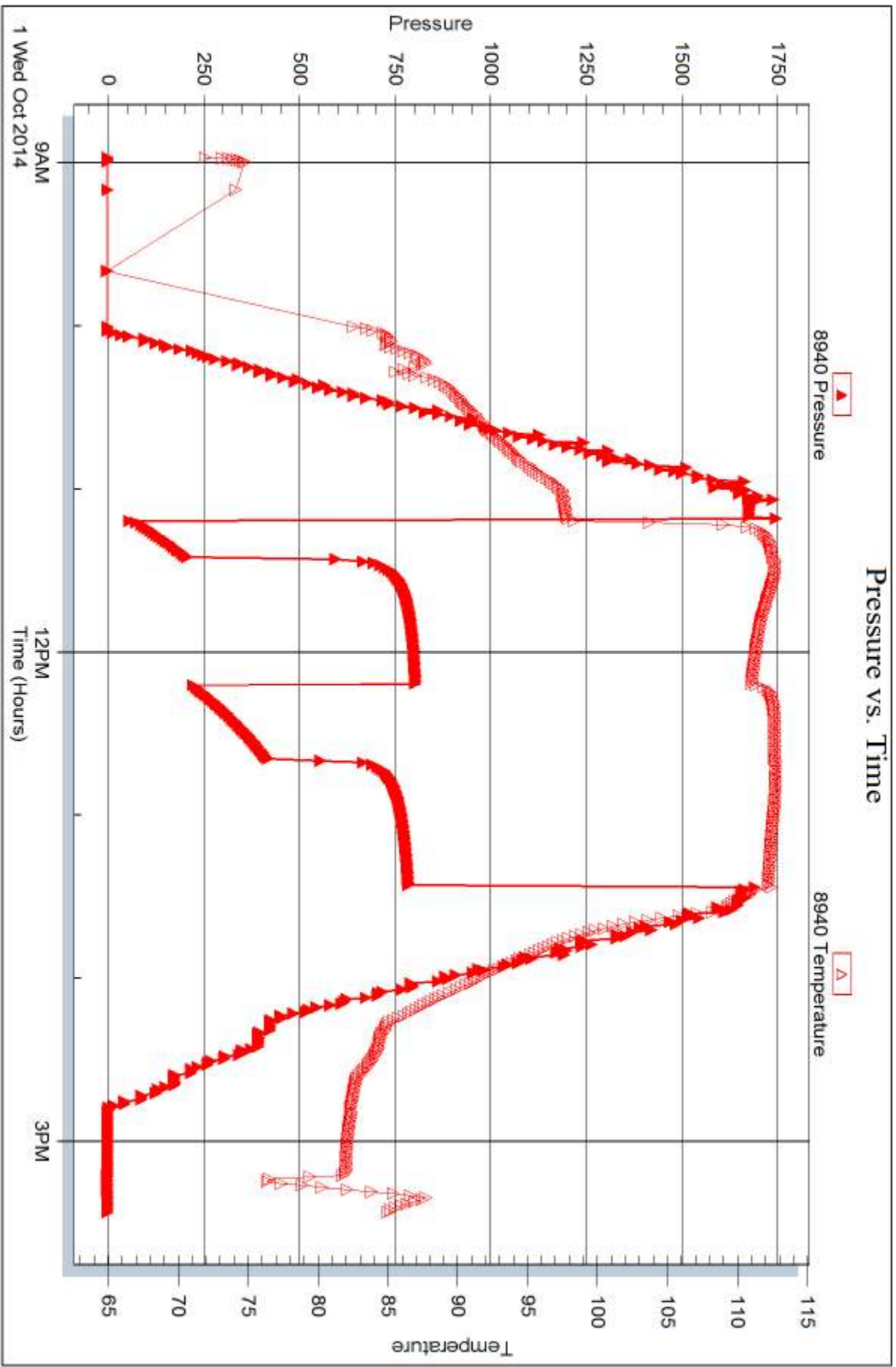
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Serial #: 8940

Outside Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 59362

Printed: 2014, 10, 07 @ 15:10:36



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.10.02 @ 11:27:00

End Date: 2014.10.02 @ 16:18:00

Job Ticket #: 59363 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.07 @ 15:10:14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co Inc

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Smith FamilyTrust #1-18

18-7s-21w Graham,KS

Job Ticket: 59363

DST#: 4

Test Start: 2014.10.02 @ 11:27:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:22:45

Time Test Ended: 16:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3635.00 ft (KB) To 3670.00 ft (KB) (TVD)

Reference Elevations: 2170.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 21.34 psig @ 3639.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.02

End Date:

2014.10.02

Last Calib.:

2014.10.02

Start Time: 11:27:05

End Time:

16:17:59

Time On Btm:

2014.10.02 @ 13:22:30

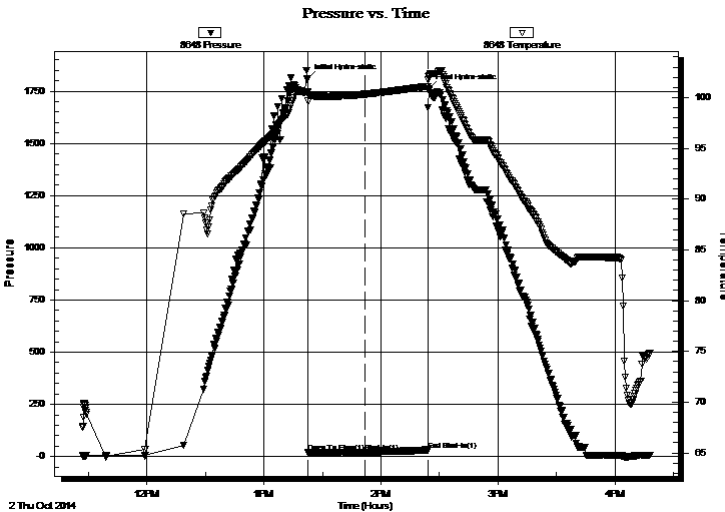
Time Off Btm:

2014.10.02 @ 14:24:30

TEST COMMENT: 30 - IF- 1/8" Blow
30 - IS- No return

*****PULLED TOOL*****

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1809.60	100.54	Initial Hydro-static
1	21.52	99.63	Open To Flow (1)
30	21.34	100.33	Shut-In(1)
62	31.34	101.10	End Shut-In(1)
62	1764.33	102.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	VSOCM, 5%O, 95%M	0.01

* 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 Co Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 59363

DST#: 4

ATTN: Richard Bell

Test Start: 2014.10.02 @ 11:27:00

Tool Information

Drill Pipe:	Length: 3506.00 ft	Diameter: 3.80 inches	Volume: 49.18 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: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 49.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3635.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3615.00	
Shut In Tool	5.00			3620.00	
Hydraulic tool	5.00			3625.00	
Packer	5.00			3630.00	21.00 Bottom Of Top Packer
Packer	5.00			3635.00	
Stubb	1.00			3636.00	
Perforations	3.00			3639.00	
Recorder	0.00	8648	Inside	3639.00	
Recorder	0.00	8940	Outside	3639.00	
Perforations	28.00			3667.00	
Bullnose	3.00			3670.00	35.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59363

DST#: 4

ATTN: Richard Bell

Test Start: 2014.10.02 @ 11:27:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	VSOCM, 5%O, 95%M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Thick oil

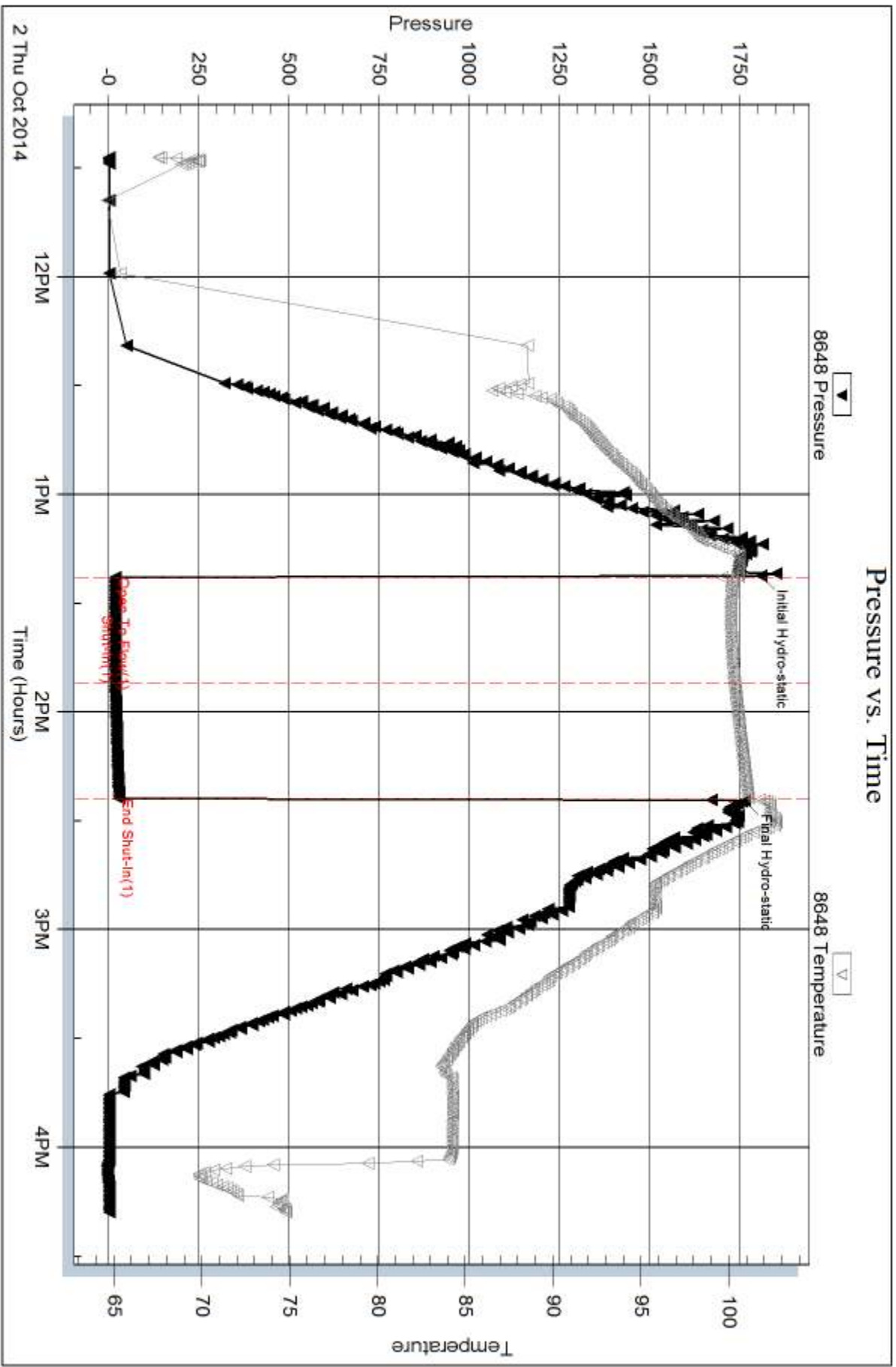
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Inside

Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 4

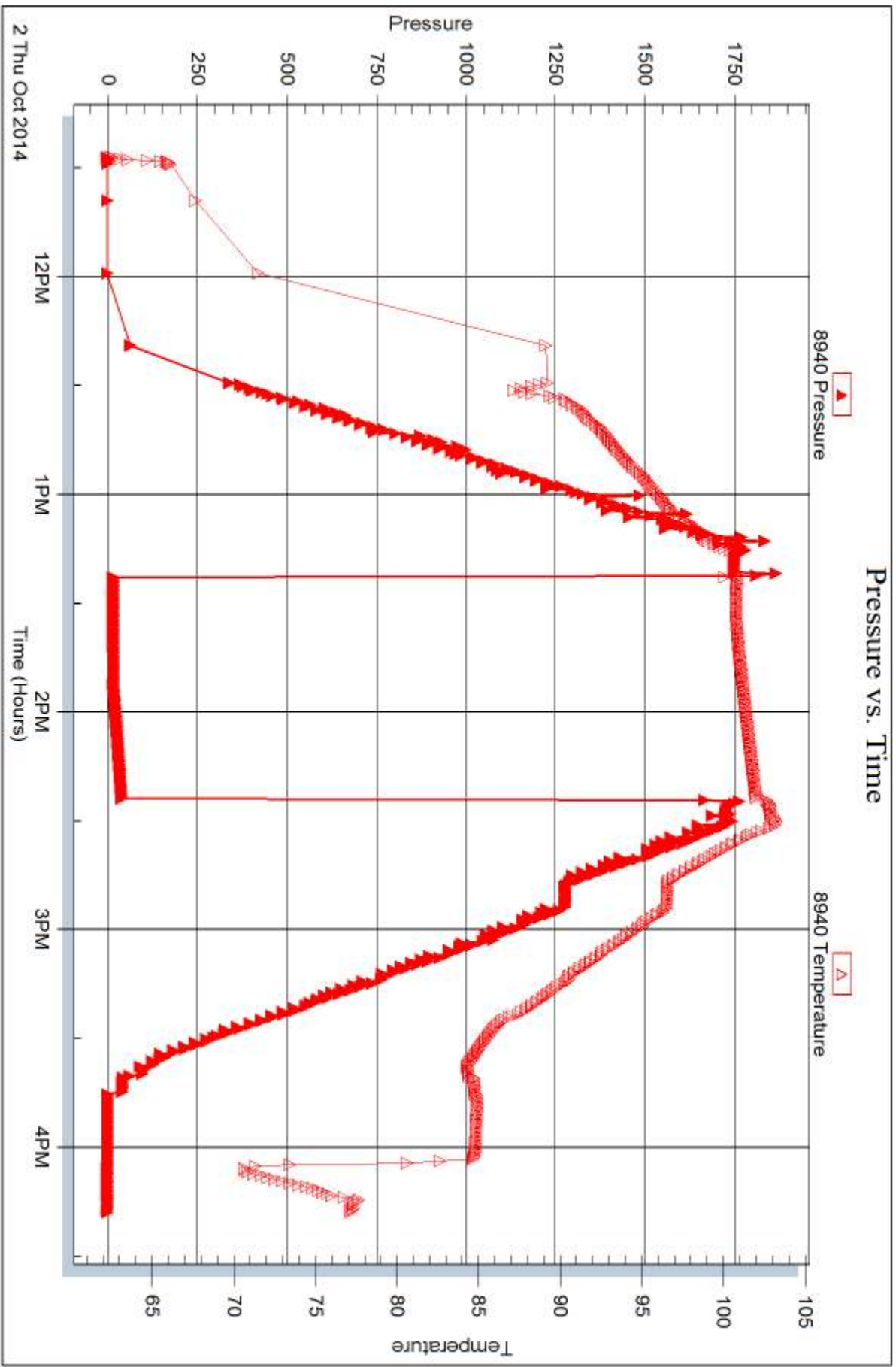


Serial #: 8940

Outside Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 59363

Printed: 2014, 10, 07 @ 15:10:15



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.10.03 @ 00:19:00

End Date: 2014.10.03 @ 06:14:15

Job Ticket #: 59364 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.07 @ 15:09:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 59364

DST#: 5

ATTN: Richard Bell

Test Start: 2014.10.03 @ 00:19:00

Tool Information

Drill Pipe:	Length: 3506.00 ft	Diameter: 3.80 inches	Volume: 49.18 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: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 49.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3634.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3614.00	
Shut In Tool	5.00			3619.00	
Hydraulic tool	5.00			3624.00	
Packer	5.00			3629.00	21.00 Bottom Of Top Packer
Packer	5.00			3634.00	
Stubb	1.00			3635.00	
Perforations	3.00			3638.00	
Change Over Sub	1.00			3639.00	
Drill Pipe	62.00			3701.00	
Change Over Sub	1.00			3702.00	
Recorder	0.00	8648	Inside	3702.00	
Recorder	0.00	8940	Outside	3702.00	
Perforations	17.00			3719.00	
Bullnose	3.00			3722.00	88.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59364

DST#: 5

ATTN: Richard Bell

Test Start: 2014.10.03 @ 00:19:00

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: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
464.00	Mud, with oil specs	5.416

Total Length: 464.00 ft Total Volume: 5.416 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

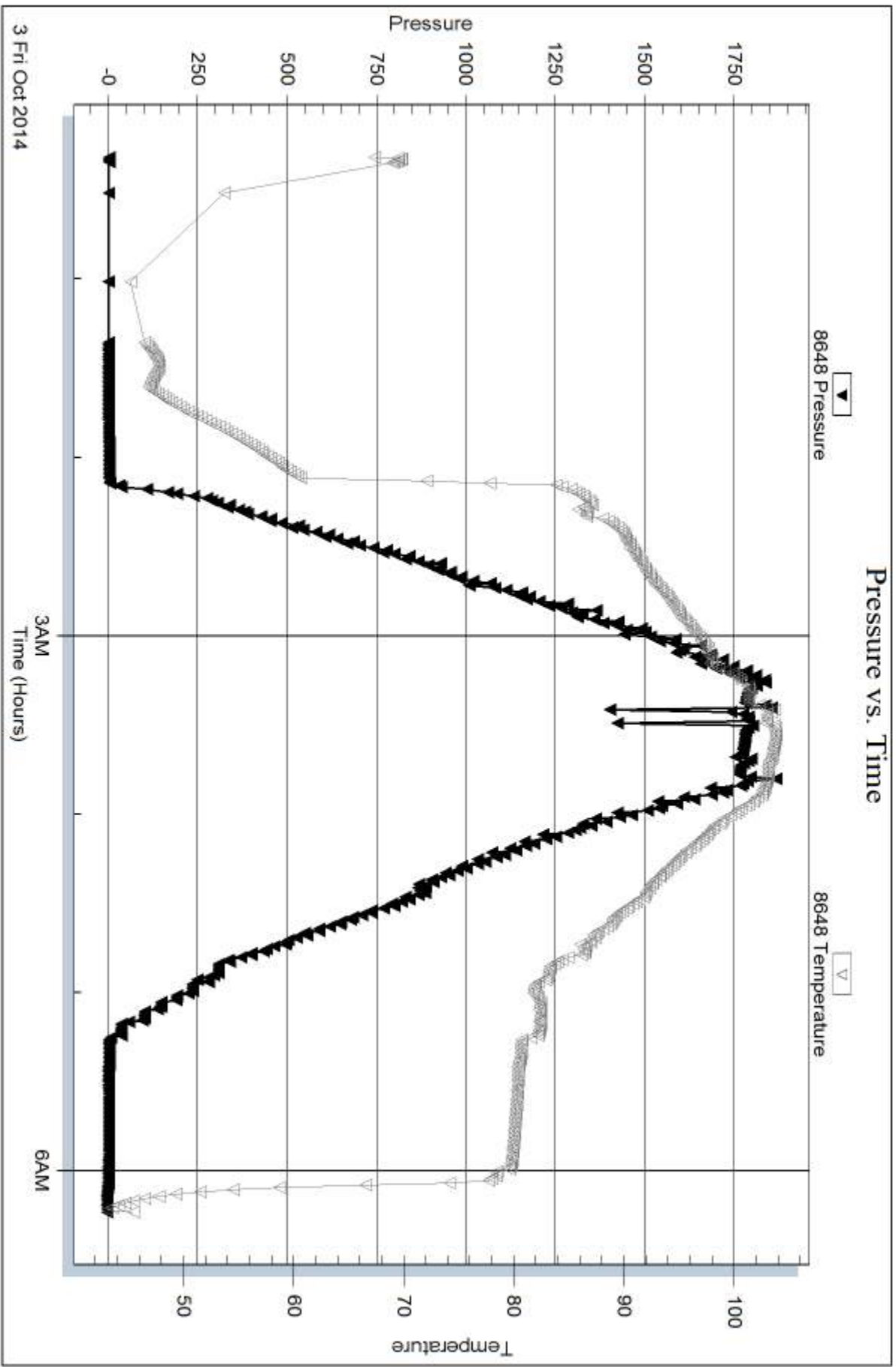
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Inside

Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 59364

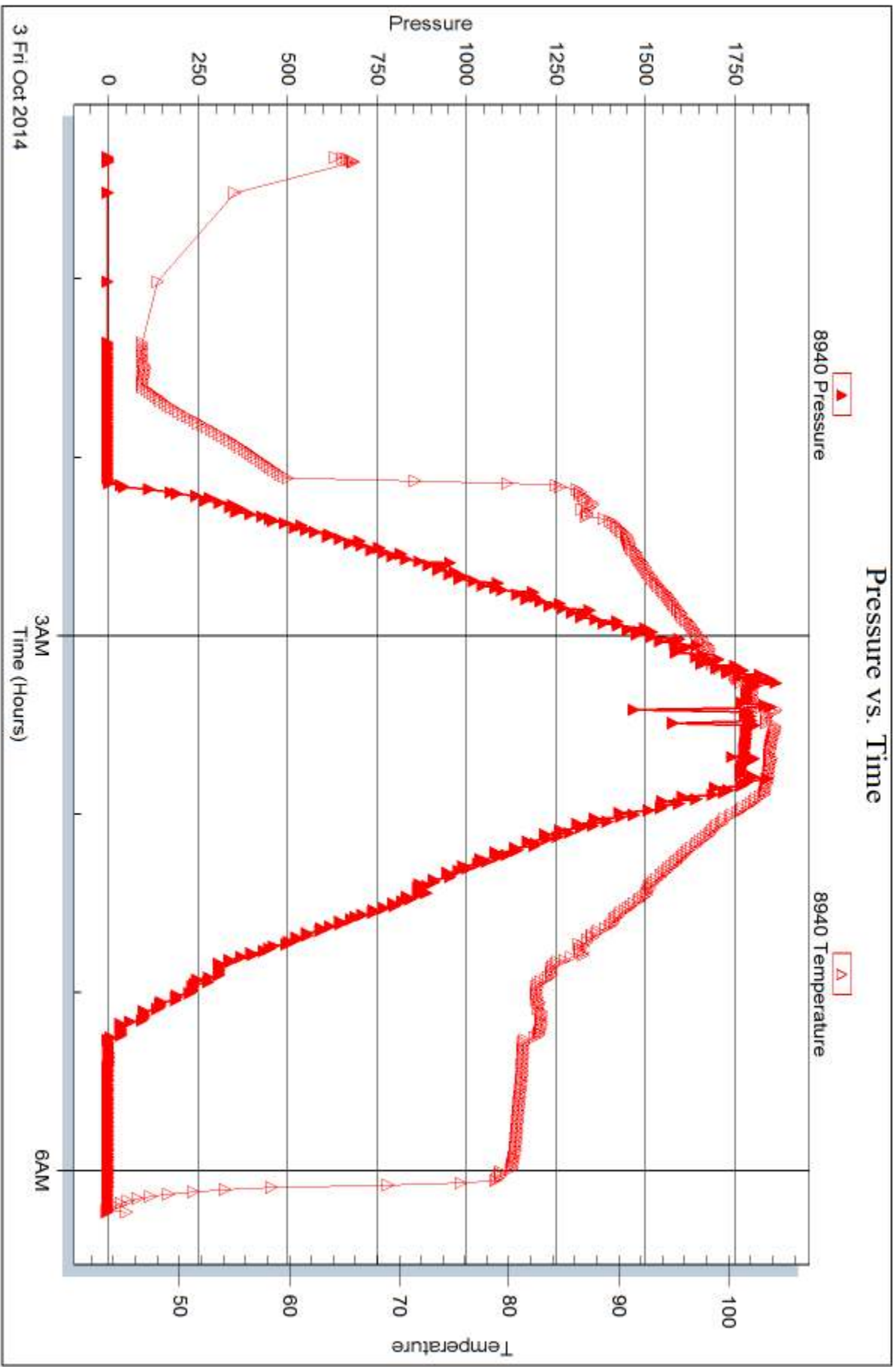
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Serial #: 8940

Outside Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 59364

Printed: 2014, 10, 07 @ 15:09:53



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.10.03 @ 20:57:00

End Date: 2014.10.04 @ 06:04:30

Job Ticket #: 60728 DST #: 6

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.07 @ 15:09:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Baird Oil Co Inc

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Smith Family Trust #1-18

18-7s-21w Graham, KS

Job Ticket: 60728

DST#: 6

Test Start: 2014.10.03 @ 20:57:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:21:30

Time Test Ended: 06:04:30

Test Type: Conventional Straddle (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 3657.00 ft (KB) To 3730.00 ft (KB) (TVD)

Reference Elevations: 2170.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8647

Inside

Press@RunDepth: 200.38 psig @ 3658.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.03

End Date:

2014.10.04

Last Calib.: 2014.10.04

Start Time: 20:57:01

End Time:

06:04:30

Time On Btm: 2014.10.04 @ 00:17:00

Time Off Btm: 2014.10.04 @ 03:21:30

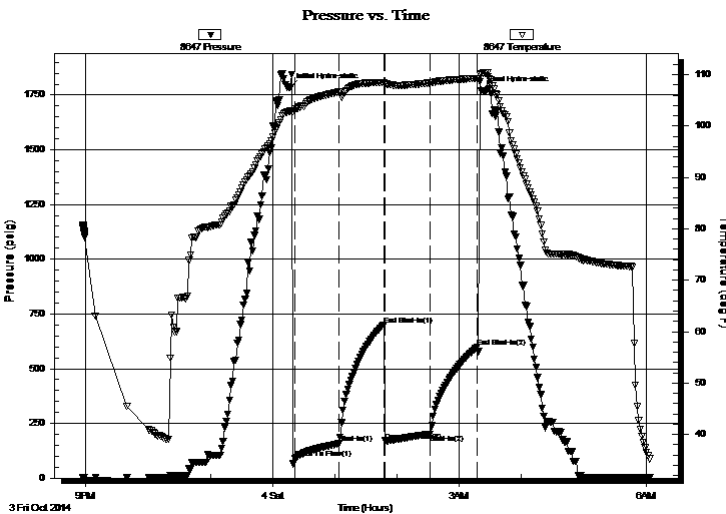
TEST COMMENT: 45 - IF - Opened w/ surface blow , built to B.o.B in 7 min.

45 - ISI - Return built to 4 1/2"

45 - FF - Blow built to B.o.B in 14 min.

45 - FSI - REturn built to 3"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.89	102.88	Initial Hydro-static
5	90.42	103.03	Open To Flow (1)
47	157.45	106.57	Shut-In(1)
90	700.63	108.41	End Shut-In(1)
92	170.85	108.28	Open To Flow (2)
135	200.38	108.40	Shut-In(2)
180	597.90	109.26	End Shut-In(2)
185	1769.24	110.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
204.00	OCM 70% m, 30% o	1.76
241.00	GO 80% o, 20% g	3.38

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 60728

DST#: 6

ATTN: Richard Bell

Test Start: 2014.10.03 @ 20:57:00

Tool Information

Drill Pipe:	Length: 3537.00 ft	Diameter: 3.80 inches	Volume: 49.61 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.67 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.67 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3657.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	3766.00 ft			
Interval between Packers:	109.00 ft			
Tool Length:	137.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3630.00	
Shut In Tool	5.00			3635.00	
Hydraulic tool	5.00		Inside	3640.00	
Jars	5.00			3645.00	
Safety Joint	3.00			3648.00	
Packer	5.00			3653.00	28.00 Bottom Of Top Packer
Packer	4.00			3657.00	
Stubb	1.00			3658.00	
Recorder	0.00	8647	Inside	3658.00	
Recorder	0.00	8372	Outside	3658.00	
Perforations	5.00			3663.00	
Change Over Sub	1.00			3664.00	
Drill Pipe	63.00			3727.00	
Change Over Sub	1.00			3728.00	
Perforations	4.00			3732.00	
Blank Off Sub	1.00			3733.00	
Packer - Shale	5.00			3738.00	
Recorder	0.00	8321	Below	3738.00	
Perforations	25.00			3763.00	
Bullnose	3.00			3766.00	109.00 Bottom Packers & Anchor

Total Tool Length: 137.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 60728

DST#: 6

ATTN: Richard Bell

Test Start: 2014.10.03 @ 20:57:00

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: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
204.00	OCM 70% _m , 30% _o	1.762
241.00	GO 80% _o , 20% _g	3.381

Total Length: 445.00 ft Total Volume: 5.143 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 25 @ 55 Corrected = 24

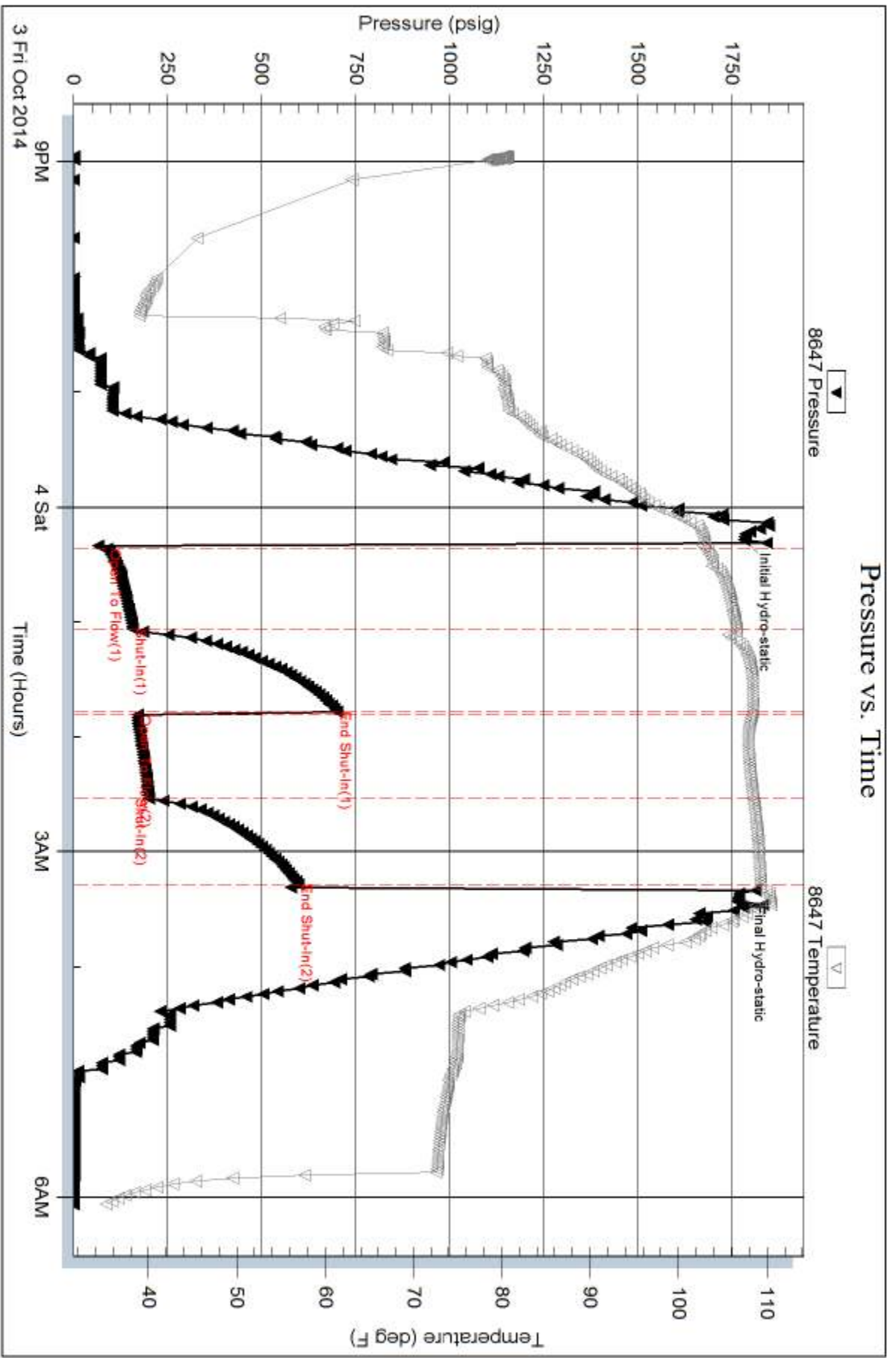
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Inside

Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 6

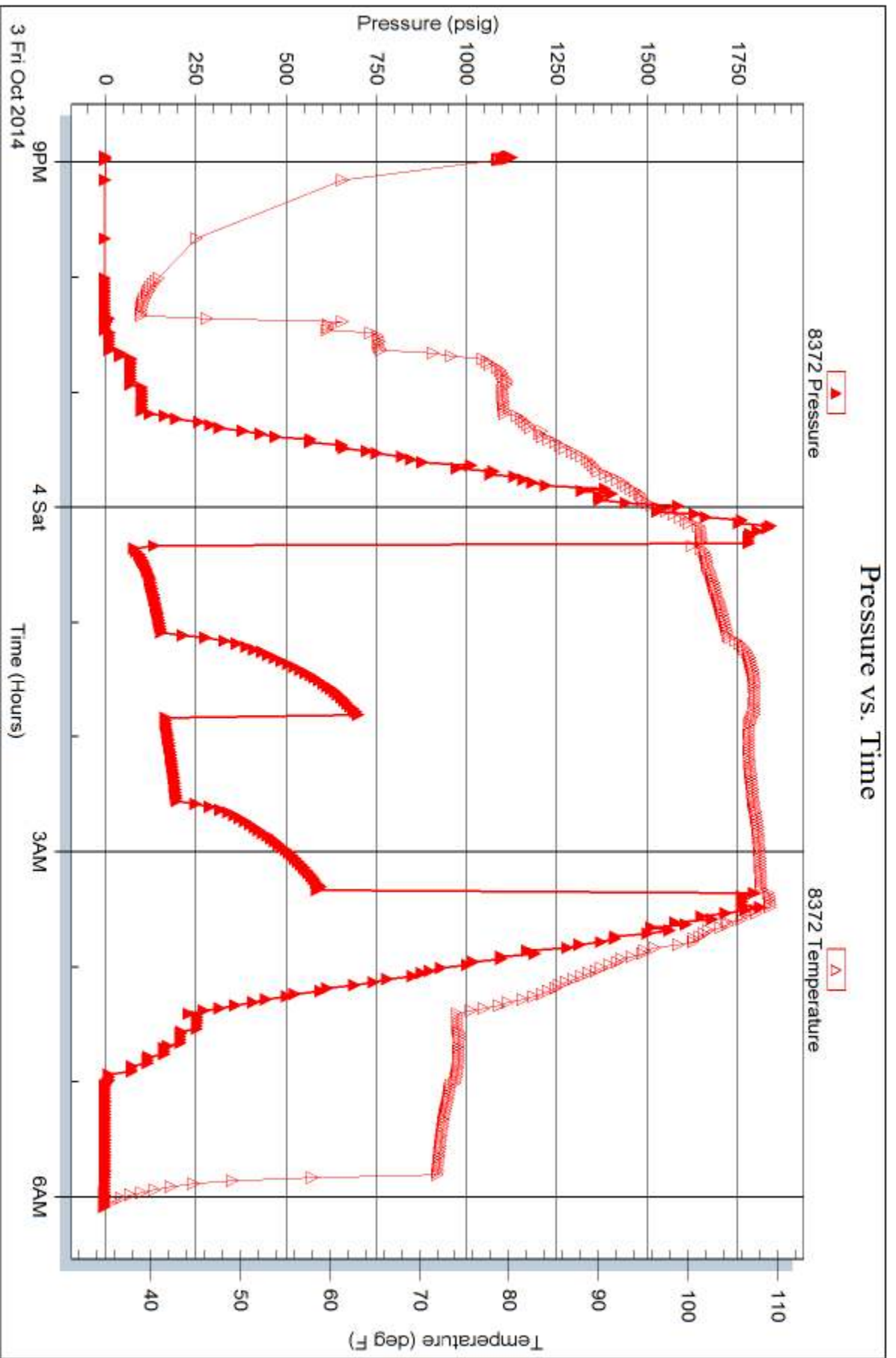


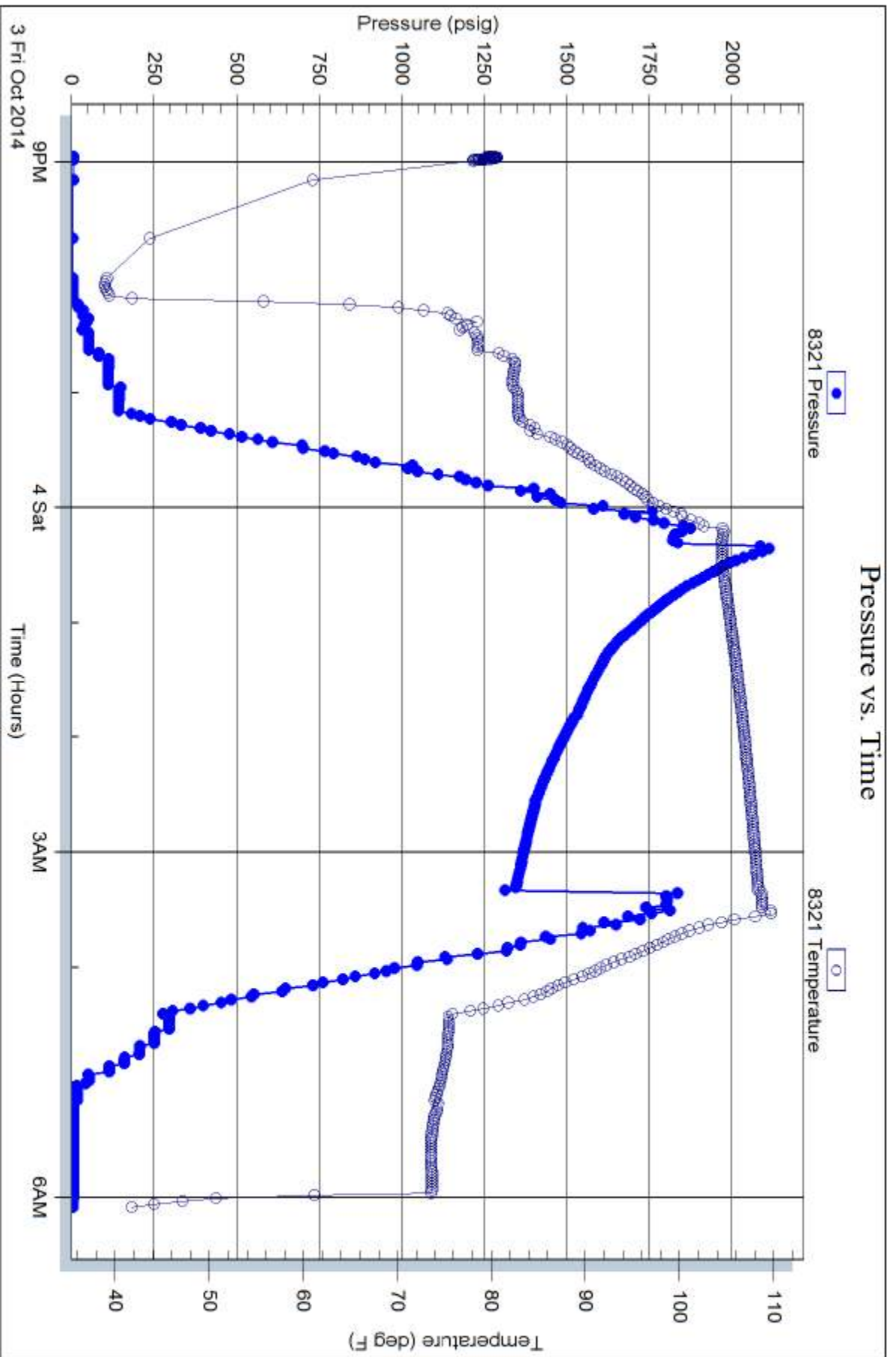
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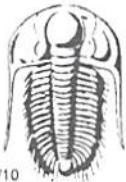
Outside Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 6







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59360

4/10

Well Name & No. Smith Family Trust 1-18 Test No. 1 Date 9-30-14
 Company Baird Oil Company Inc Elevation 2170 KB 2162 GL
 Address Po Box 428, Logan KS, 67646
 Co. Rep / Geo. Richard Bell Rig WW12
 Location: Sec. 18 Twp. 7S Rge. 21W Co. Graham State KS

Interval Tested 3423-3444 Zone Tested LKC "C"
 Anchor Length 21' Drill Pipe Run 3286' Mud Wt. 8.6
 Top Packer Depth 3418 Drill Collars Run 120' Vis 59
 Bottom Packer Depth 3423 Wt. Pipe Run — WL 7.2
 Total Depth 3444 Chlorides 700 ppm System LCM

Blow Description IF - B.O.B. in 21 minutes
ISI - No return
FF - 7 1/2" blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>WM</u>		<u>40</u>	<u>60</u>	
<u>186</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>40</u>	<u>WM - oil spots</u>		<u>20</u>	<u>80</u>	
<u>2</u>	<u>Free oil</u>	<u>100</u>			

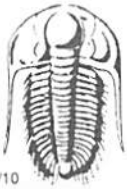
Rec Total 290' BHT 109° Gravity — API RW .07 @ 85° F Chlorides 90,000 ppm

(A) Initial Hydrostatic 1699 Test 1150 T-On Location 0709
 (B) First Initial Flow 15 Jars _____ T-Started 0728
 (C) First Final Flow 97 Safety Joint _____ T-Open 10.55
 (D) Initial Shut-In 770 Circ Sub _____ T-Pulled 12.55
 (E) Second Initial Flow 100 Hourly Standby _____ T-Out 1444
 (F) Second Final Flow 144 Mileage 124RT 192.20 Comments _____
 (G) Final Shut-In 765 Sampler _____
 (H) Final Hydrostatic 1594 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1342.20
 Final Shut-In 30 Accessibility _____ MP/DST Disc't _____
 Sub Total 1342.20

Approved By _____ Our Representative Cody Bell

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59361

Well Name & No. Smith Family Trust 1-18 Test No. 2 Date 9-30-14
 Company Baird Oil Company Inc Elevation 2170 KB 2162 GL
 Address Po Box 428, Logan KS, 67646
 Co. Rep / Geo. Richard Bell Rig WW12
 Location: Sec. 18 Twp. 7S Rge. 21W Co. Graham State ks

Interval Tested 3444-3460 Zone Tested LKC "D"
 Anchor Length 16 Drill Pipe Run 3317' Mud Wt. 9.2
 Top Packer Depth 3439 Drill Collars Run 120' Vis 56
 Bottom Packer Depth 3444 Wt. Pipe Run - WL 7.6
 Total Depth 3460 Chlorides 1,000 ppm System LCM 2#

Blow Description IF-B.O.B. in 6 minutes
ISI - No returns
FF-B.O.B. in 8 minutes
FST - No returns

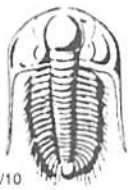
Rec	Feet of	%gas	%oil	%water	%mud
362	MW		95	5	
124	MW		70	30	
93	WM - oil spots		40	60	
5	Free oil - Thick	100			

Rec Total 584' BHT 111° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1719 Test 1150 T-On Location 1949
 (B) First Initial Flow 23 Jars - T-Started 1958
 (C) First Final Flow 141 Safety Joint - T-Open 2253
 (D) Initial Shut-In 791 Circ Sub - T-Pulled 1238
 (E) Second Initial Flow 154 Hourly Standby - T-Out 0247
 (F) Second Final Flow 296 Mileage 124RT 192.20 Comments -
 (G) Final Shut-In 784 Sampler -
 (H) Final Hydrostatic 1634 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Initial Open 15 Extra Recorder - Sub Total 0
 Initial Shut-In 30 Day Standby - Total 1342.20
 Final Flow 30 Accessibility - MP/DST Disc't -
 Final Shut-In 30 Sub Total 1342.20

Approved By _____ Our Representative Cody Bell

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59362

Well Name & No. Smith Family Trust 1-18 Test No. 3 Date 10-1-14
 Company Baird oil Company Inc Elevation 2170 KB 2162 GL
 Address Po Box 428, Logan KS, 67646
 Co. Rep / Geo. Richard Bell Rig WW12
 Location: Sec. 18 Twp. 7s Rge. 21w Co. Graham State KS

Interval Tested 3472-3484 Zone Tested LKC "F"
 Anchor Length 12' Drill Pipe Run 3348' Mud Wt. 9.2
 Top Packer Depth 3467 Drill Collars Run 120' Vis 56
 Bottom Packer Depth 3472 Wt. Pipe Run — WL 7.6
 Total Depth 3484 Chlorides 1,000 ppm System LCM 2 #

Blow Description IF - B.O.B. in 3 minutes
ISI - surface return, died in 28 minutes
FF - B.O.B. in 4 minutes
FSI -

Rec	Feet of	%gas	%oil	%water	%mud
<u>804</u>	<u>MW</u>			<u>20</u>	<u>30</u>
<u>2</u>	<u>Free oil</u>		<u>100</u>		

Rec Total 806' BHT 1110 Gravity — API RW 1.85 @ 80 °F Chlorides 80,000 ppm

(A) Initial Hydrostatic <u>1728</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0846</u>
(B) First Initial Flow <u>62</u>	<input type="checkbox"/> Jars	T-Started <u>0858</u>
(C) First Final Flow <u>200</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1111</u>
(D) Initial Shut-In <u>801</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1326</u>
(E) Second Initial Flow <u>236</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1526</u>
(F) Second Final Flow <u>415</u>	<input checked="" type="checkbox"/> Mileage <u>124RT</u> 192.20	Comments
(G) Final Shut-In <u>783</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1686</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1342.20</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1342.20</u>	

Approved By _____ Our Representative Cody B. [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59363

4/10

Well Name & No. Smith Family Trust 1-18 Test No. 4 Date 10-2-14
 Company Baird Oil Company Inc Elevation 2170 KB 2162 GL
 Address PO Box 428, Logan KS, 67646
 Co. Rep / Geo. Richard Bell Rig WW12
 Location: Sec. 18 Twp. 7s Rge. 21w Co. Graham State KS

Interval Tested 3635 - 3670 Zone Tested Marmaton
 Anchor Length 35' Drill Pipe Run 3506' Mud Wt. 9.0
 Top Packer Depth 3630 Drill Collars Run 120' Vis 55
 Bottom Packer Depth 3635 Wt. Pipe Run - WL 7.2
 Total Depth 3670 Chlorides 2,400 ppm System LCM 2#

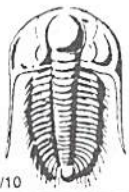
Blow Description ±F - 1/8" blow
ISI - No return
FX -
FX - pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>VSGCM</u>	<u>5</u>		<u>95</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 3' BHT 101° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1809 Test 1150 T-On Location 1113
 (B) First Initial Flow 21 Jars _____ T-Started 1127
 (C) First Final Flow 21 Safety Joint _____ T-Open 1322
 (D) Initial Shut-In 31 Circ Sub _____ T-Pulled 1422
 (E) Second Initial Flow - Hourly Standby _____ T-Out 1618
 (F) Second Final Flow - Mileage 124 RT 192.20 Comments _____
 (G) Final Shut-In - Sampler _____
 (H) Final Hydrostatic 1764 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1342.20
 Final Flow Pulled tool Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1342.20

Approved By _____ Our Representative Cody Bell
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59364

Well Name & No. Smith Family Trust 1-18 Test No. 5 Date 10-3-14
 Company Baird Oil Company Inc Elevation 2170 KB 2162 GL
 Address Po Box 428, Logan KS, 67646
 Co. Rep / Geo. Richard Bell Rig WW12
 Location: Sec. 18 Twp. 7S Rge. 21W Co. Graham State KS

Interval Tested 3634-3722 Zone Tested Arbuckle
 Anchor Length 88' Drill Pipe Run 3506' Mud Wt. 9.0
 Top Packer Depth 3629 Drill Collars Run 120' Vis 55
 Bottom Packer Depth 3634 Wt. Pipe Run - WL 7.2
 Total Depth 3722 Chlorides 2,400 ppm System LCM 2

Blow Description ~~FF~~ - Opened tool, Packer Failure
~~FF~~ - Pulled tool
~~FF~~

Rec	Feet of	%gas	%oil	%water	%mud
<u>464</u>	<u>Mud - oil specs</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 464 BHT - Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic Test 950
 (B) First Initial Flow Jars
 (C) First Final Flow Safety Joint
 (D) Initial Shut-In Circ Sub
 (E) Second Initial Flow Hourly Standby
 (F) Second Final Flow Mileage 124RT 192.20
 (G) Final Shut-In Sampler
 (H) Final Hydrostatic Straddle

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

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

T-On Location 1204
 T-Started 1219
 T-Open 0324
 T-Pulled 0340
 T-Out 0614

Sub Total 0
 Total 1142.20
 MP/DST Disc't _____

Approved By _____
 Our Representative Andy Bell
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60728**

Well Name & No. Smith Family Trust #1-18 Test No. #6 Date 10-3-14
 Company Baird Oil Co., Inc. Elevation 2170 KB 2162 GL
 Address P.O. Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 18 Twp. 7S Rge. 21W Co. Graham State KS

Interval Tested 3657-3730 Zone Tested Arbuckle
 Anchor Length 73' Drill Pipe Run 3537 Mud Wt. 9
 Top Packer Depth 3652 Drill Collars Run 120.67 Vis 55
 Bottom Packer Depth 3657 Wt. Pipe Run — WL 7.2
 Total Depth 3760 Chlorides 2400 ppm System LCM 2

Blow Description IF- Opened w/ surface blow, built to B.o.B in 7 min.
ISI- Return built to 4 1/2"
FF- Blow built to B.o.B in 14 min.
FSI- Return built to 3"

Rec	Feet of	%gas	%oil	%water	%mud
<u>241</u>	<u>GO</u>	<u>20</u>	<u>80</u>		
<u>204</u>	<u>OCM</u>		<u>30</u>		<u>70</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 445 BHT 109 Gravity 24 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 1782 Test 1150 T-On Location 7:45 PM
 (B) First Initial Flow 90 Jars 250 T-Started 8:57 PM
 (C) First Final Flow 157 Safety Joint 75 T-Open 12:21 AM
 (D) Initial Shut-In 700 Circ Sub _____ T-Pulled 3:21 AM
 (E) Second Initial Flow 170 Hourly Standby _____ T-Out 6:08 AM
 (F) Second Final Flow 200 Mileage 173 R.T. 192.20 Comments _____
 (G) Final Shut-In 597 Sampler _____
 (H) Final Hydrostatic 1769 Straddle 600 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 2267.20
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 2267.20

Approved By _____ Our Representative Baird Oil

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.