



Confidentiality Requested:

Yes No

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: _____



1152913

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	Esslinger Ranch Inc 2-27
Doc ID	1152913

Tops

Name	Top	Datum
Anhydrite	2008	+320
Base Anhydrite	2036	+292
Topeka	3315	-987
Heebner	3518	-1190
Toronto	3544	-1216
Lansing	3562	-1234
Base Kansas City	3746	-1418
Arbuckle	3815	-1487
Reagan Sand	3881	-1553
Wea. Granite	3900	-1572
Total Depth	3929	-1601

Summary of Changes

Lease Name and Number: Esslinger Ranch Inc 2-27

API/Permit #: 15-137-20640-00-00

Doc ID: 1152913

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	05/06/2013	07/24/2013
Date of First or Resumed Production or SWD or Enhr		4/19/2013
Disposition Of Gas - Vented	No	Yes
Liner Run?		No
Method Of Completion - Perf	No	Yes
Perf_Depth_1		3727-3730
Perf_Material_1		1000 gal 15% MCA
Perf_Record_1		3727-3730
Perf_Shots_1		4
Producing Method Pumping	No	Yes

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Production - Barrels Oil		20
Production - Oil Gravity		35
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1132435	../../../../kcc/detail/operatorEditDetail.cfm?docID=1152913
Tubing Packer At		NONE
Tubing Record - Set At		3870
Tubing Size		2 3/8



CONFIDENTIAL

WELL COMPLETION FORM

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

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	Esslinger Ranch Inc 2-27
Doc ID	1132435

Tops

Name	Top	Datum
Anhydrite	2008	+320
Base Anhydrite	2036	+292
Topeka	3315	-987
Heebner	3518	-1190
Toronto	3544	-1216
Lansing	3562	-1234
Base Kansas City	3746	-1418
Arbuckle	3815	-1487
Reagan Sand	3881	-1553
Wea. Granite	3900	-1572
Total Depth	3929	-1601

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

April 10, 2013

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

Re: ACO1
API 15-137-20640-00-00
Esslinger Ranch Inc 2-27
SW/4 Sec.27-03S-22W
Norton 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 #
4/2/2013	23961

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	#2-27	Esslinger Ra...	Norton	WW Drilling #12	Oil	Development	LongString	Nick

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	6.00	480.00
578D-L	Pump Charge - Long String - 3930 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)	2.50	1,250.00T
290	D-Air	3	Gallon(s)	35.00	105.00T
402-5	5 1/2" Centralizer	11	Each	70.00	770.00T
403-5	5 1/2" Cement Basket	1	Each	250.00	250.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	350.00	350.00T
404-5	5 1/2" Port Collar	1	Each	2,400.00	2,400.00T
411-5	5 1/2" Recipo Scratcher	30	Each	45.00	1,350.00T
325	Standard Cement	200	Sacks	13.50	2,700.00T
326	60/40 Pozmix (2% Gel)	40	Sacks	11.00	440.00T
276	Flocele	50	Lb(s)	2.00	100.00T
277	Gilsonite (Coal Seal)	40	Lb(s)	0.75	30.00T
283	Salt	1,550	Lb(s)	0.20	310.00T
285	CFR-1	100	Lb(s)	4.00	400.00T
581D	Service Charge Cement	240	Sacks	2.00	480.00
583D	Drayage	953	Ton Miles	1.00	953.00
	Subtotal				14,168.00
	Sales Tax Norton County			7.05%	758.23
	<p style="text-align: center;">R4/8/2013 P4/8/2013 Esslin27 190402 14926 23 Esslinger Ranch Inc 2-27 - Pump Charge, Cement & other misc expenses used to cement production casing</p>				

We Appreciate Your Business!

Total

\$14,926.23



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

TICKET No **23961**

CITY, STATE, ZIP CODE

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Hays, KS</u>	WELL/PROJECT NO. <u>#2-27</u>	LEASE <u>Esslinger Ranch Lease</u>	COUNTY/PARISH <u>Norton</u>	STATE <u>KS</u>	CITY	DATE <u>4-2-13</u>	OWNER <u>same</u>
2. <u>Ness City, KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>W.D. #12</u>	RIG NAME/NO.	SHIPPED VIA <u>ET</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Longstring</u>		WELL PERMIT NO.	WELL LOCATION	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM	QTY.		
575						800	mi			6.00	4800.00
578					Pump Charge (Longstring)	1	ea	3930	'	1500.00	1500.00
221					RCL	2	pa			25.00	50.00
280					Flackcheck-21	5	cbal			2.50	1250.00
290					D-Air	3	pa			35.00	105.00
402					Controlizers	11	pa		5 1/2"	70.00	770.00
403					Basket	1	ea			250.00	250.00
408					LD Plug + Baby	1	ea			250.00	250.00
409					Inserf Float Shoe w/ P11	1	ea			350.00	350.00
407					Part Collar	1	ea			2400.00	2400.00
411					Receipo Seatchers	30	ea			45.00	1350.00

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 Bille
 DATE SIGNED 4-2-13 TIME SIGNED 0525 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?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1	8755.00
PAGE 2	541.30
Subtotal 1	14168.00
Norton TAX 7.05%	758.22
TOTAL	14,926.22



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

TICKET CONTINUATION

TICKET No. 23961

CUSTOMER: Baird O. / Co.
WELL: #2-27 Esslinger Ranch Inc

DATE: 4-2-13
PAGE: 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
325		2				200	SKS			15.50	2700.00	
326 326		2			Standard Cement	40	SHS			11.00	440.00	
276		2			400 Pozex 20 bag 1	50	#	4	#	2.00	100.00	
277		2			Coal/sea/	40	#	10	#	75	30.00	
283		2			591T	1550	#	18	#	20	310.00	
285		2			CFR-1	100	#	1/2	%	4.00	400.00	
581		2			SERVICE CHARGE					2.00	480.00	
583		2			MILEAGE CHARGE					1.00	953.00	
					TOTAL WEIGHT	23824						
					LOADED MILES	80						
					CUBIC FEET							
					TON MILES							

CONTINUATION TOTAL 5413.00

JOB LOG

SWIFT Services, Inc.

DATE 4-2-13 PAGE NO.

CUSTOMER Baird Oil Co WELL NO. # 2-27 LEASE Esslinger Ranch Inc JOB TYPE Longstring TICKET NO. 23961

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2230							on loc w/FE RTD 3930' LTD 3929' 5 1/2" x 14 # x 3937' x 45' Cent. 1-10, 41 Bask 42 P.C. 42 @ 2049' Scratchers 3ea 1-10
	2355							start FE
	0130							Break Circ.
	0230	2.5	7					Plug AH 30sks 60/40 Poz.
	0235	5	0				200	start 15 bbl KCL Flush
	0238	5	15/0					start 500 gal Flocheck
	0240	5	12/0					start 5 bbl KCL flush
	0241	5	5/0					start 10sks 60/40 Poz
	0242	5	5/0					start 200sks Standard 18% salt
	0251		43					End Cement Wash P&L Drop LD Plug
	0258	6	0				200	start Displacement
	0308	5	62				250	Catch Cement
	0315		95				700 / 1500	Card Plug. Release Pressure Float Held

Thank you

Nick, David E., Flint, JJ

SWIFT



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



Invoice

DATE	INVOICE #
4/4/2013	23963

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	#2-27	Esslinger Ra...	Norton	Alliance Well Ser...	Oil	Development	Port Collar	Nick

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	6.00	480.00
576D-D	Pump Charge - Port Collar - 2049 Feet	1	Job	1,250.00	1,250.00
290	D-Air	2	Gallon(s)	35.00	70.00T
105	Port Collar Tool Rental With Man	1	Each	350.00	350.00T
330	Swift Multi-Density Standard (MIDCON II)	180	Sacks	16.50	2,970.00T
276	Flocele	50	Lb(s)	2.00	100.00T
581D	Service Charge Cement	225	Sacks	2.00	450.00
583D	Drayage	880	Ton Miles	1.00	880.00
	Subtotal				6,550.00
	Sales Tax Norton County			7.05%	246.05
	<p style="text-align: center;">R4/9/2013 P4/9/2013</p> <p>Esstin 27 190402 6421.37 Esslinger Ranch Inc 2-27 - Pump charge, Cement + other misc expenses used to cement port collar</p> <p>Esstin 27 190402 374.68 Esslinger Ranch Inc 2-27 - Rental of port Collar + man when cementing port collar</p> <p style="text-align: right;">4/9/2013 CK#13286</p>				

We Appreciate Your Business!

Total

\$6,796.05



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

TICKET
 No. 23963

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Hays, KS WELLS/PROJECT NO. #2-27 LEASE Esslinger Brothers COUNTY/PARISH Norton STATE KS CITY
 2. Ness City, KS CONTRACTOR Alliance Well Service RIG NAME/NO. CT location SHIPPED VIA TRUCK DELIVERED TO WELL PERMIT NO. DATE 4-4-13 OWNER same
 3. WELLS TYPE Oil WELL CATEGORY Development JOB PURPOSE Part Collar ORDER NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #111	80	M			6.00	480.00
576D					Pump Charge (Part Collar)	1	ea	2049		1250.00	1250.00
290					D-Air	2	ea	1		35.00	70.00
105					Part Collar Tool Rental w/ pump	1	ea			350.00	350.00
330					SMD Cement	180	sk			16.30	2920.00
276					Fluore	50	#			2.00	100.00
581					Cement Service Charge	225	sk			2.00	450.00
583					Drayage	880	TN			1.00	880.00

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 DATE SIGNED 4-4-13 TIME SIGNED 11:00 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?
 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 550.00
 Norton TAX 246.00
 TOTAL 6796.00

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

JOB LOG

SWIFT Services, Inc.

DATE 4-4-13 PAGE NO. 1

CUSTOMER

Paired Oil Co

WELL NO. #

2-27

LEASE

Esslinger Ranch Inc

JOB TYPE

Part Collar

TICKET NO.

23963

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							on loc setup Trk
	0815							TIM w PC, Tool Locate P.C.
	0930						1000	Test Csg to 1000 Psi
	0935	3	3				250	Open P.C. Take injection rate
	0945	3.5	0				400	Start Mud 80bb
		4	80/0				400	start water
		4	5/0				400	Start SMD Cement
		4	88				400	Circ Cement/Raise Weight
		4	93/0				400	End Cement/start Displacement
	1035		7				450	Cement Displaced
	1040						1000	Close P.C. Test Csg. to 1000 Psi
	1050	3	0				150	Run 5jts
	1055		15					Reverse out Hole Clean
								5ks 180 cement circ 20 sks to Pit
								Thank you
								Nick, David E. & Flint



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 3/29/2013
 Invoice # 6491
 P.O.#:
 Due Date: 4/28/2013
 Division: Russell

Invoice

Contact:
 Baird Oil
 Address/Job Location:
 PO Box 428
 Logan, US 67646

Reference:
 ESSLINGER RANCH 2-27

Description of Work:
 SURFACE JOB

R 3/29/13
 P 3/29/13
 Esslin 27 190402 4152.22

Esslinger Ranch Inc 2-27- pump charge,
 cement, and other misc used to cement
 surface casing.

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	150	\$ 2,042.23	Yes				
Pump Truck Mileage-Job to Nearest Camp	60	\$ 650.13	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	60	\$ 380.43	No				
Bulk Truck Matl-Material Service Charge	158	\$ 343.09	No				
Calcium Chloride	5	\$ 258.73	Yes				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,719.01
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (707.85)

SubTotal for Taxable Items:	\$ 2,000.88
SubTotal for Non-Taxable Items:	\$ 2,010.28
Total:	\$ 4,011.16
Tax:	\$ 141.06

7.05% Norton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,152.22
Applied Payments:
Balance Due: \$ 4,152.22

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

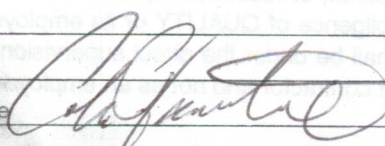
Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 6491

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-26	27	3	22	NORTON	KANSAS		5:30 pm
Lease ESSLINGER RANCH				Well No. 2-27		Owner BARR	
Contractor W.W #12				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job SURFACE				Charge To BARR Oil			
Hole Size 12 1/4"		T.D. 220'		Street P.O. Box 428			
Csg. 8 5/8"		Depth 218'		City LOGAN State KS, 67646			
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Tool		Depth		Cement Amount Ordered 150 Com - 3% - 2% gel			
Cement Left in Csg.		Shoe Joint 15'		Meas Line Displace 13 BLS			
EQUIPMENT				Common 150			
Pumptrk # 16	No.	Cementer		Poz. Mix			
		Helper TRAVIS		Gel. 3			
Bulktrk # 13	No.	Driver		Calcium 5			
		Driver BILLY		Hulls			
Bulktrk DIU	No.	Driver		Salt			
		Driver DISCO		Flowseal			
JOB SERVICES & REMARKS				Kol-Seal			
Remarks:				Mud CLR 48			
Rat Hole				CFL-117 or CD110 CAF 38			
Mouse Hole				Sand			
Centralizers				Handling 158			
Baskets				Mileage			
D/V or Port Collar				FLOAT EQUIPMENT			
CEMENT DID CIRCULATE!				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
THANK YOU!				Pumptrk Charge Surface			
				Mileage 60			
X Signature 				Tax			
				Discount			
				Total Charge			

A.P.T.# 15-137-20640

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, Inc.
LEASE Esslinger Ranch, Inc. # 2-27
FIELD _____
LOCATION 2015' FSL + 2235' FWL
SEC 27 TWSP 35 RGE 22W
COUNTY Norton STATE Kansas

ELEVATION
KB 2328'
DF 2326'
GL 2320'
Depths Measured From
Log KB Drilling KB

CONTRACTOR WWD Drilling Rig # 12
SPUD 3-26-13 COMP 4-3-13
SAMPLES SAVED FROM 3300' TO R.T.D.

CASING
Surface 8 5/8" @ 219'
Production 5 1/2" @ 3924'

ELECTRIC LOGS
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>R log</u>				
<u>Anhydrite</u>	<u>2011</u>	<u>2008</u>	<u>+ 320</u>	<u>+ 319</u>			
<u>Base Anhydrite</u>	<u>2039</u>	<u>2036</u>	<u>+ 292</u>	<u>+ 288</u>			
<u>Tapoka</u>	<u>3317</u>	<u>3315</u>	<u>- 987</u>	<u>- 987</u>			
<u>Heebner</u>	<u>3520</u>	<u>3518</u>	<u>- 1190</u>	<u>- 1195</u>			
<u>Toronto</u>	<u>3546</u>	<u>3544</u>	<u>- 1216</u>	<u>- 1220</u>			
<u>Lansing</u>	<u>3563</u>	<u>3562</u>	<u>- 1234</u>	<u>- 1239</u>			
<u>Base Kansas City</u>	<u>3747</u>	<u>3746</u>	<u>- 1418</u>	<u>- 1424</u>			
<u>Arbuckle</u>	<u>3817</u>	<u>3815</u>	<u>- 1487</u>	<u>- 1489</u>			
<u>Reagan Sand</u>	<u>3883</u>	<u>3881</u>	<u>- 1553</u>	<u>- 1555</u>			
<u>Wea. Granite</u>	<u>3902</u>	<u>3900</u>	<u>- 1572</u>	<u>- 1579</u>			
<u>Total Depth</u>	<u>3930</u>	<u>3929</u>	<u>- 1601</u>	<u>- 1621</u>			

REFERENCE WELLS

A Baird Oil Co., Esslinger Ranch, Inc. #1-27, 735' FSL + 2645' FEL Sec. 27-35-22W

B

C

D

Port Celler @ 2049'

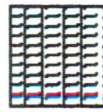
REMARKS

This well ran structurally 4 feet higher on the Lansing top than the reference well. Due to the favorable structural position and D.S.T.#6 results it was decided production casing would be cemented to further test the well. The zones from 3808'-3812' and 3726'-3730' should be tested before abandoning the well.

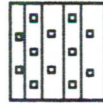
Richard B. Bell
4-3-13

7502

LEGEND



Anhydrite



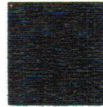
Salt



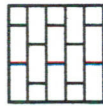
Sandstone



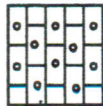
Shale



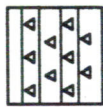
Carb sh



Limestone



Ool. Lime



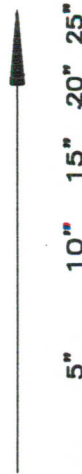
Chert



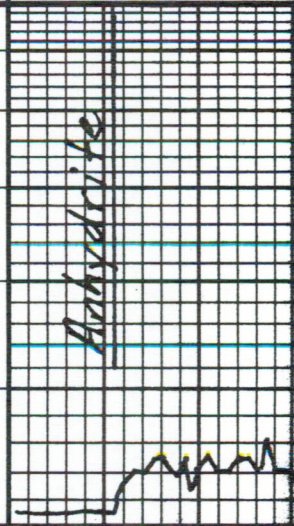
Dolomite

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



Anhydrite



LITHOLOGY



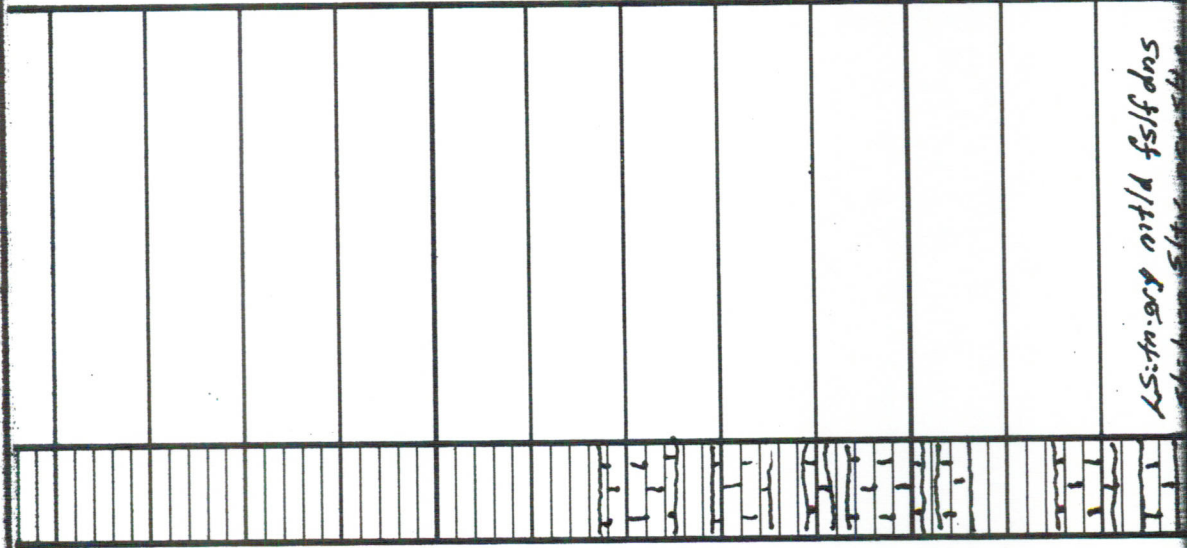
SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

LOG 7710

Samples are lagged
good samples



Secondary nit/d fossils

60

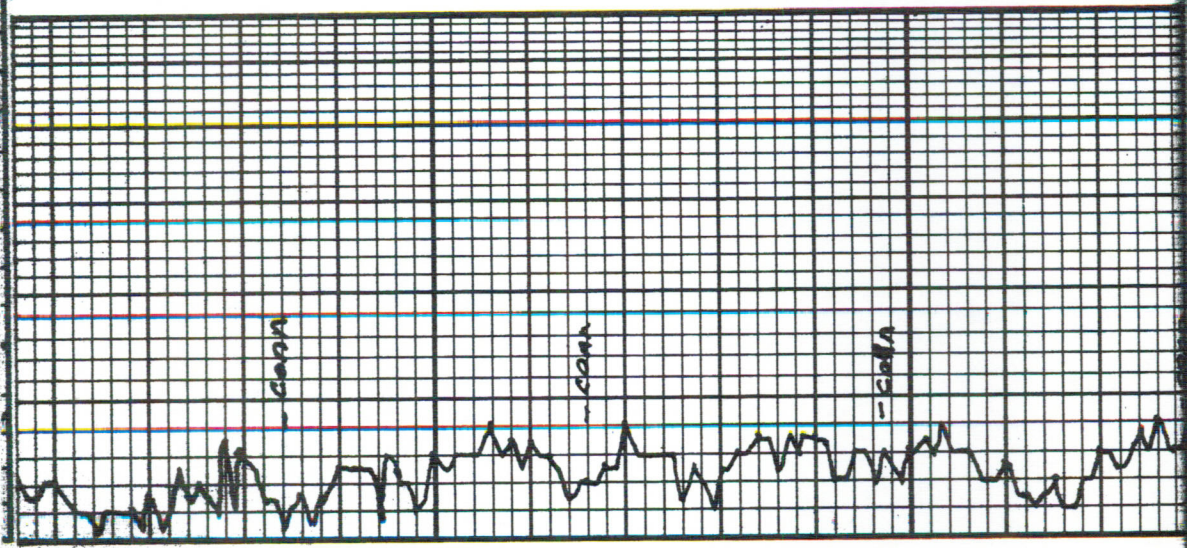
80

3200

20

40

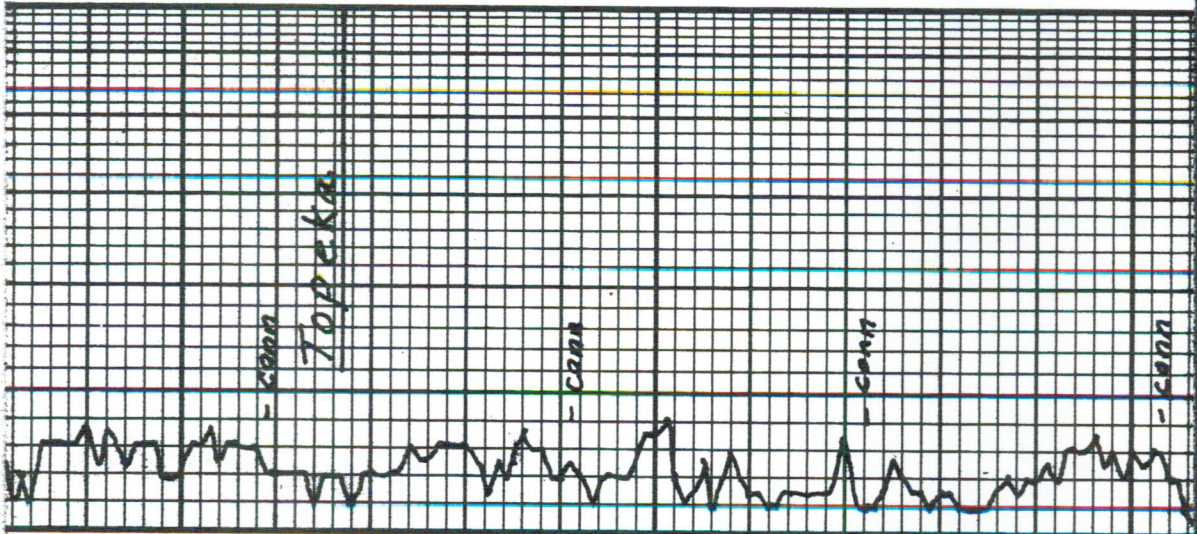
60



CASA

CANA

CALA



3300

20

40

60

80

3400

Ls: tn-gry fxlndns

Ls: wh-tn sli.cky-fxlndns
Fr Δ wh N.S.A.

Ls: tn-gry fxlndns
dms
sh: gry, brn, fr. blk carb

Ls: wh-tn sli.cky-fxlndns
No Y's & N.S.O.

Ls: wh-tn incr. cky-fxlndns
dms

Ls: tn-gry fxlndns
sh: brn sHx, gry

Ls: wh-tn sli.cky-fxlndns
pp & -in part & N.S.O.

ss gry fr. gn-consol. ingrad
& N.S.O.
sh: brn sHx, gry

Ls: wh-tn cky-fxlndns
pp & N.S.A. Δ ty wh-tn
or

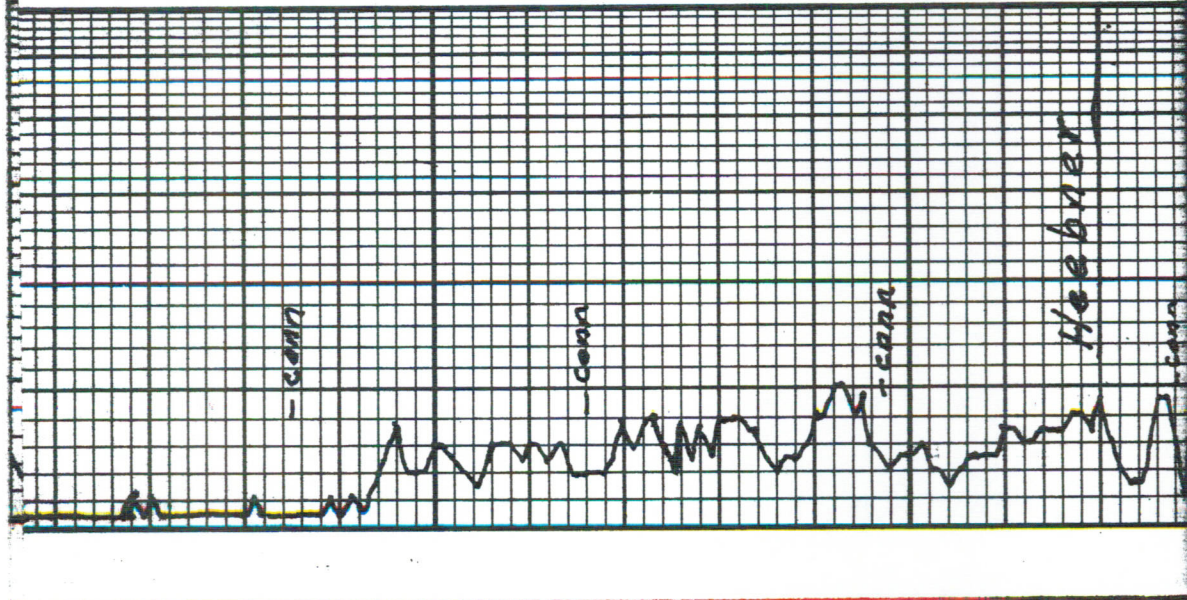
Ls: wh-tn sli.cky-fxlndns
pp & N.S.A.

Ls: wh-tn gry cky-fxlndns
sh: blk sli.cky fxlndns
pp & N.S.A.

sh: brn sHx, DRY
Ls: a.

incr. in: brn, gry			
Sh: brn slty + gry sky SS: gry v. fn. gn. consol in gran @ NSA			
v. shly: brn slty			
LS: tn fcln pr PP @ N.S.O.			
Sh: brn slty			
LS: tn-gry fcln No Vis @ NSA			
Tr blk Carb 5k			
LS: tn-brn fcln dms			
LS: tn fcln friable PPP N.S.O.			
Sh: brn, gry			
LS: wh-tu cky-fcln dms Sl: pyritic PP @ N.S.O.			
LS: wh-tu cky-fcln dms N.S.O.			
Sh: blk Carb LS: tn fs lf dms			

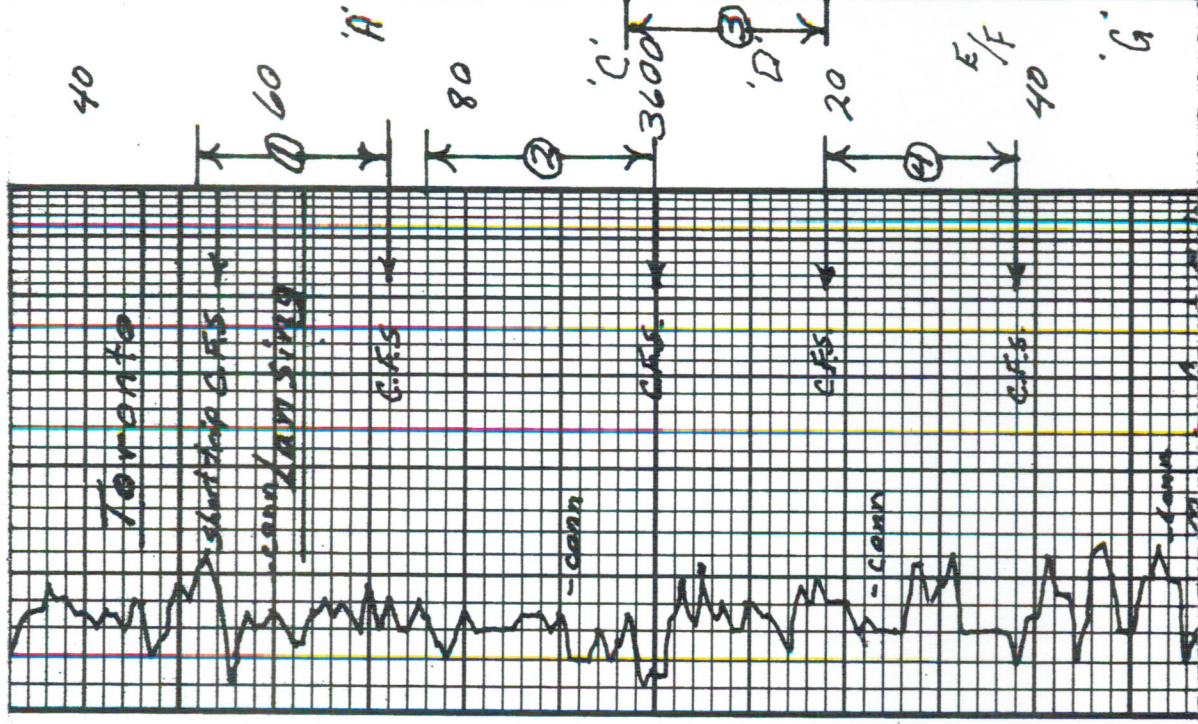
20
40
60
80
3500
20



Strap 3592.70'
Board 3591.46'
Diff 1.24'
Incline @ 3572' 3/4°
Tri-lobite Testing
DST #1 3552'-3572'
30-30-0-0-C
TF: surface flow

Recovery: 15' Mud
 Hyd: 1785-1745#
 FP: 10-21#
 BHP: 1203#
 BHTemp: 92°F.
 DST#2 3676'-3600'
 45-45-45-45
 IF: wk blow incr. to 3"
 ISI: No blow
 FF: wk blow incr. to 1/2"
 FSI: No blow
 Recovery: 125' Total
 5'M w/o: 15PKS
 60' MCW 70%W, 30%M
 60' WCM 46%W, 55%M
 Hyd: 1801-1744#
 FP: 12-45/48-70#
 BHP: 1192-1147#
 BHTemp: 94°F.
 DST#3 3597'-3618'
 45-45-45-45
 IF: wk blow incr. to 3"
 ISI: No blow
 FF: wk blow incr. to 1"
 FSI: No blow
 Recovery: 65' Total
 5' MCW 90%W, 10%M
 60' MCW 80%W, 20%M
 Hyd: 1829-1815#
 FP: 14-39/42-63#
 BHP: 1159-1112#
 BHTemp: 94°F.

LS: brn. gry fs/f dns	Sh: brn, gry	LS: wh. tn sli. chy-fch w/yr fss. incho. pp & N.S.O.	Sh: brn	LS: wh. tn sli. chy-fch sli. oil pp. pptd. Lt. Sp. d. O str. pptd. pptd. on crushing v. fr. odor	LS: wh. tn sli. chy-fch dns	Sh: brn, blue sly	LS: wh. tn chy-fch oil pp & Lt. fr. pptd. O str. pp. f.o. on crushing. No odor dry tn. gry Tr. Tery str Sh: Lrn, gry	LS: wh. tn sli. chy-fch pp & Vgy pptd. rainbow S.O. drk pptd. O str. pp. f.o. ft odor Δ gry, tn	Sh: brn, gry	LS: wh. tn chy-fch oil w/fss incho. pptd. drk pptd. O str pp. f.o. No odor Δ gry	LS: wh. tn chy-fch dns Δ wk N.S.O.	LS: wh. tn sli. chy-fch dns pptd. pptd. O str. N.S.O.
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DST# 4 3618'-3638'
 30-30-0-0
 IF: surface blow
 Recovery: 5' Mud
 Hyd: 1842-1808#
 FP: 12-19#
 BHP: 1240#
 BHTemp: 90°F.

DST# 5 3683'-3715'
 30-30-0-0
 IF: surface blow
 Recovery: 5' Mud
 Hyd: 1900-1876#
 FP: 13-14#
 BHP: 21#
 BHTemp: 92°F.

DST# 6 3713'-3736'
 45-45-45-45
 IF: B.O.B. in 17 1/2 min.
 ISI: wk blow incr. to 11
 FF: B.O.B. in 21 min.
 FSI: wk blow incr. to 13 1/4
 Recovery: 155' G.I.P.
 340' Total fluid
 30' G.O. 67% G, 33% O
 190' MCGO 14% G, 77% O
 7% M
 60' OCM 67% G, 18% O,
 77% M
 60' WG+OCM 13% G.

100% air - low air
 0 to - 0.5
 sh: blk carb
 LS: gry mtd fsl/dns
 sh: brn, gry
 LS: wh-tn-lt. gry chy-fsh
 17. fsl/dns N.S.O.

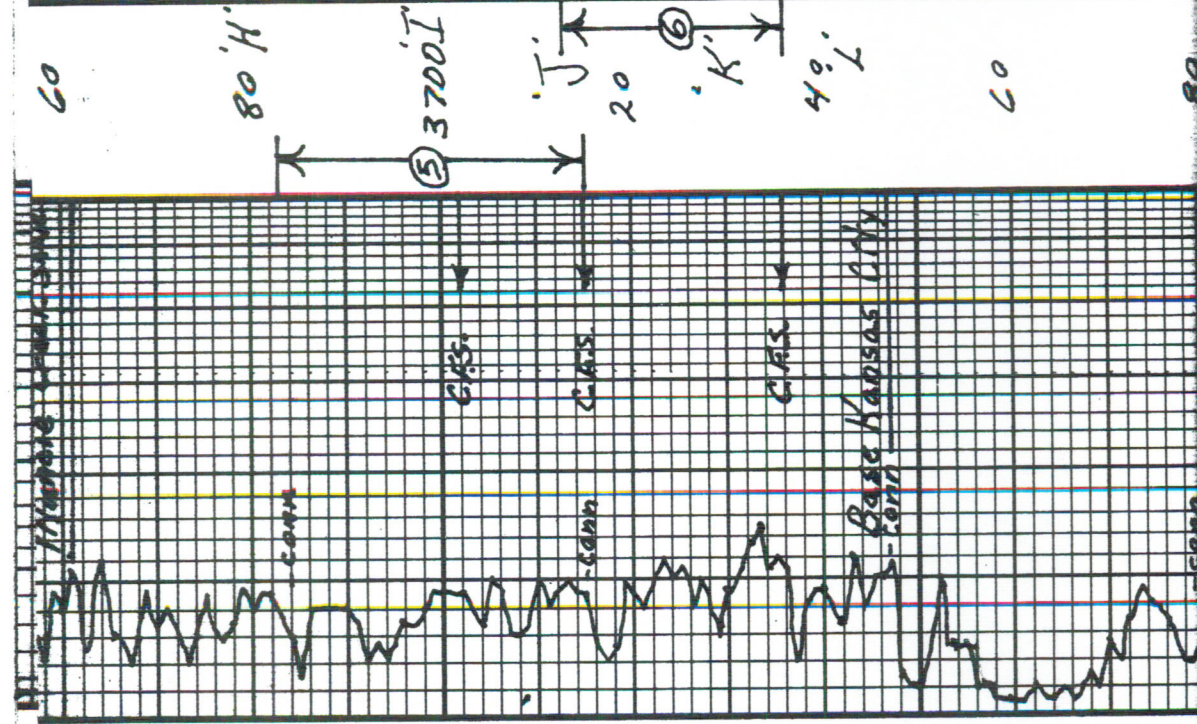
sh: brn, gry
 LS: tn-brn fsh/dns
 N.S.O.

sh: brn
 LS: tn fsl/dns in part
 fr. sptd o str pp fo
 minbow s.g. fr asph
 No odor

sh: brn, gry
 LS: tn fsh-fsl/dns
 in part o str
 PP.F.O. No odor
 sh: brn, gry

LS: wh-tn chy-fsh/dns
 N.S.O.

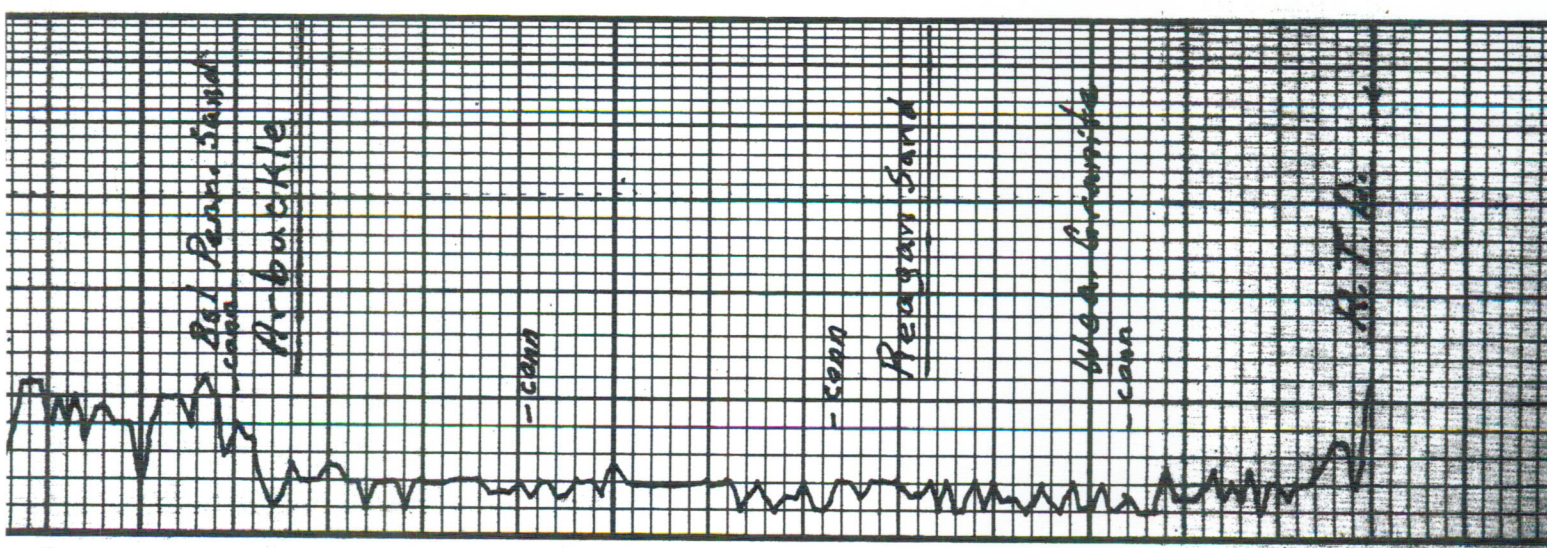
sh: brn, gry
 sh: brn, gry
 Tr. LS: wh-tn fsh/dns
 sh: brn



HY# 1875-1813#
 FP: 19-96/103-132#
 BHP: 1036-286#
 BHTemp: 98°F
 Gravity: 31.2° A.P.I.

12: 14-18-100 1010 75H d.s. N.S.O.	Sh: brn, dry
SS: ch. frst. fr. gr. sand in gr. of 1/4-1/2" sst. as pl spks pp. o. on c. m. shg No odor	LS: wh. to cky. fch. sdy
Dol: in fch. - mica in wh. glauc. spks N.S.O.	SS: ch. frst. fr. gr. sand in gr. of 1/4-1/2" sst. as pl spks pp. o. on c. m. shg No odor
Dol: a.a. w/ glauc. spks	Sh: brn. Tr. wea. granite N.S.O.
Dol: wh. to brn. fch. mica in wh. glauc. spks N.S.O.	a.a.
Same	Quartz, biotite, feldspar incr. Rtz. biot. felds.
Dol: a.a. Tr. large Qtz gr embedded cfr-frosted Tr biotite spks	
Dol: a.a. Qtz unconsol coars gr. cfr-frosted angular - sub-rnd biotite spks N.S.O.	
Trashy sample lot L.C.M.	
SS: md gr - coar gr. frosted ang - rnd N.S.O.	
Sh: brn	
SS: md gr - coar gr. frosted ang - rnd N.S.O.	
Sh: brn. Tr. wea. granite N.S.O.	
a.a.	
Quartz, biotite, feldspar incr. Rtz. biot. felds.	

3800
 20
 40
 60
 80
 3900
 20
 40





DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

27-3s-22w Norton,KS

Esslinger Ranch Inc #2-27

Start Date: 2013.03.30 @ 05:36:00

End Date: 2013.03.30 @ 09:43:30

Job Ticket #: 50619 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:58:29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

ATTN: Richard Bell

Job Ticket: 50619

DST#: 1

Test Start: 2013.03.30 @ 05:36:00

GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:22:45

Time Test Ended: 09:43:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 57

Interval: 3552.00 ft (KB) To 3572.00 ft (KB) (TVD)

Reference Elevations: 2328.00 ft (KB)

Total Depth: 3572.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 21.48 psig @ 3553.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.30

End Date:

2013.03.30

Last Calib.:

2013.03.30

Start Time:

05:36:05

End Time:

09:43:30

Time On Btm:

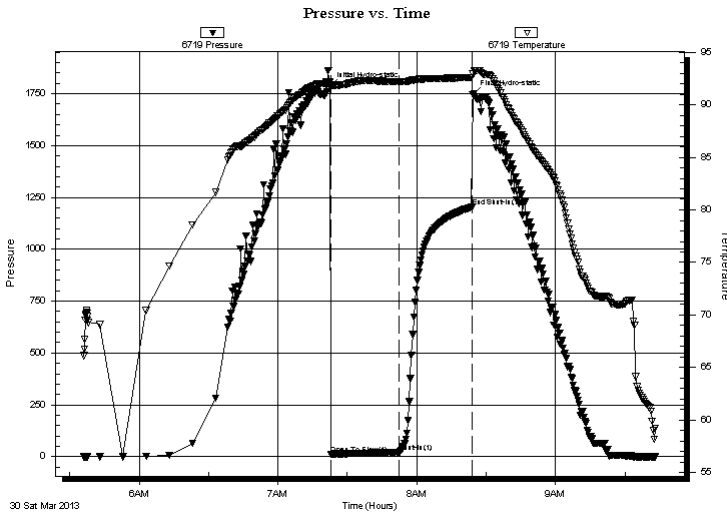
2013.03.30 @ 07:22:30

Time Off Btm:

2013.03.30 @ 08:24:15

TEST COMMENT: 30 IF - Surface blow
30 ISI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1784.55	92.16	Initial Hydro-static
1	10.19	91.63	Open To Flow (1)
30	21.48	92.20	Shut-In(1)
62	1202.96	92.60	End Shut-In(1)
62	1745.27	92.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud - 100%M	0.07

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

Esslinger Ranch Inc #2-27

27-3s-22w Norton, KS

Job Ticket: 50619

DST#: 1

Test Start: 2013.03.30 @ 05:36:00

GENERAL INFORMATION:

Formation: **LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:22:45

Time Test Ended: 09:43:30

Interval: 3552.00 ft (KB) To 3572.00 ft (KB) (TVD)

Total Depth: 3572.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 57

Reference Elevations: 2328.00 ft (KB)

2320.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8320 **Outside**

Press @ Run Depth: psig @ 3553.00 ft (KB)

Start Date: 2013.03.30

End Date:

2013.03.30

Start Time: 05:36:05

End Time:

09:43:15

Capacity: 8000.00 psig

Last Calib.:

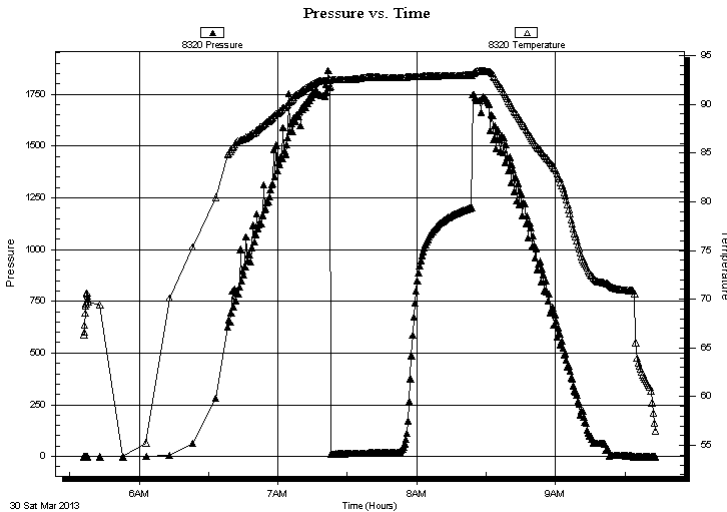
2013.03.30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - Surface blow
30 ISI - No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud - 100%M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 50619

DST#: 1

ATTN: Richard Bell

Test Start: 2013.03.30 @ 05:36:00

Tool Information

Drill Pipe:	Length: 3439.00 ft	Diameter: 3.80 inches	Volume: 48.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 48.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3552.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3537.00	
Hydraulic tool	5.00			3542.00	
Packer	5.00			3547.00	20.00 Bottom Of Top Packer
Packer	5.00			3552.00	
Stubb	1.00			3553.00	
Recorder	0.00	6719	Inside	3553.00	
Recorder	0.00	8320	Outside	3553.00	
Perforations	16.00			3569.00	
Bullnose	3.00			3572.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 50619

DST#: 1

ATTN: Richard Bell

Test Start: 2013.03.30 @ 05:36:00

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: 53.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud - 100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

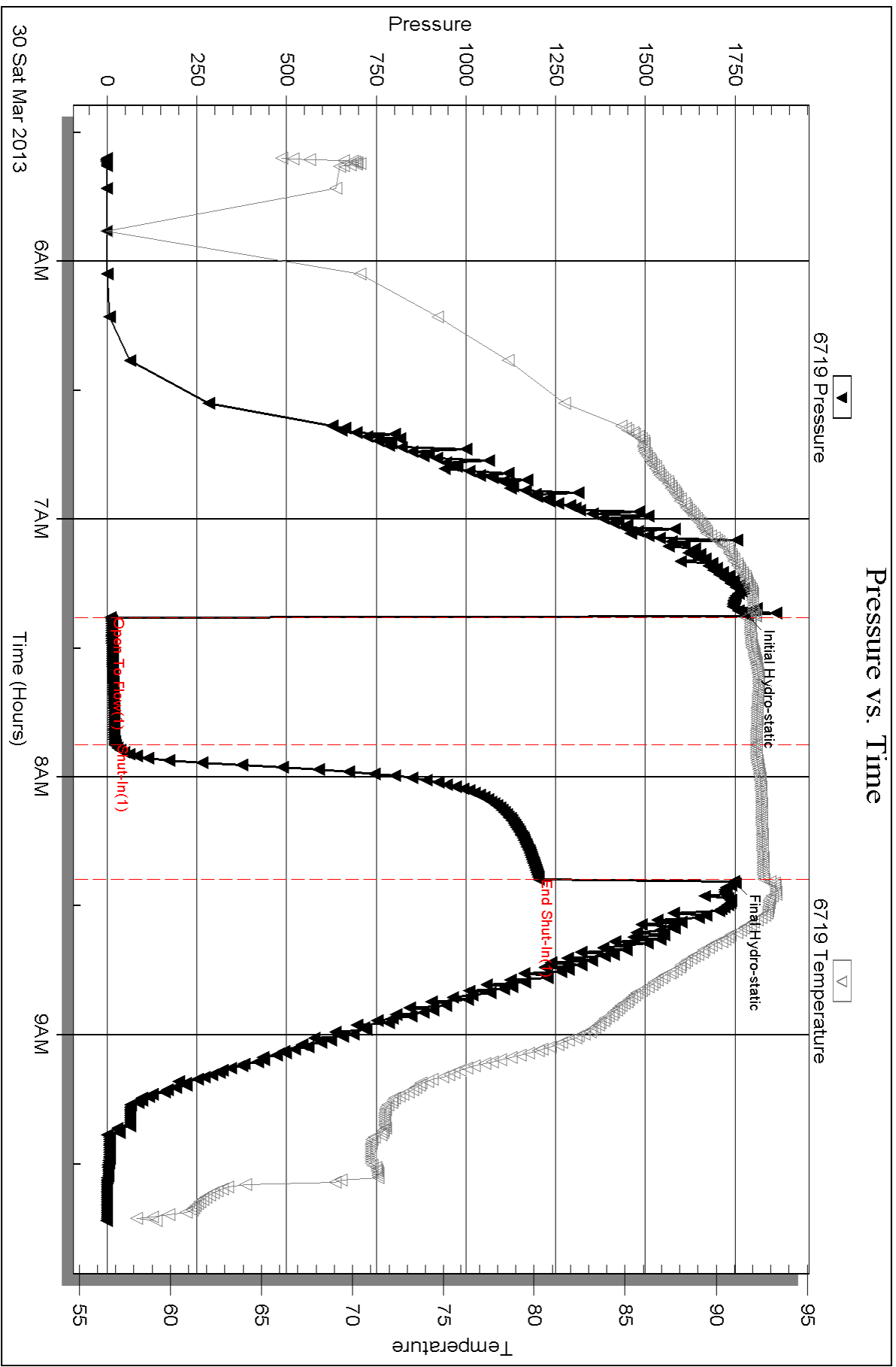
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

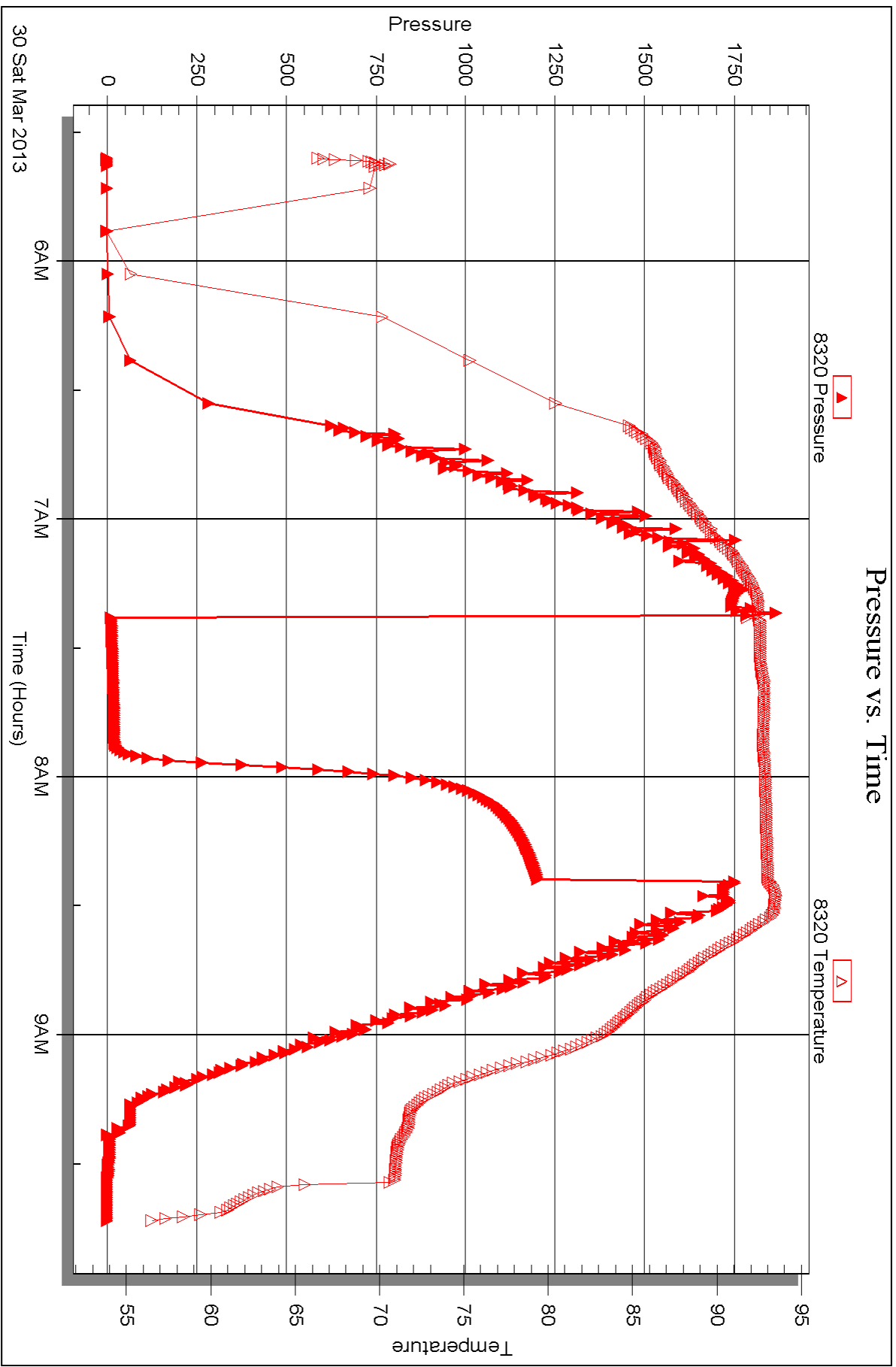


Serial #: 8320

Outside Baird Oil Company, LLC

27-3s-22w Norton, KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

27-3s-22w Norton,KS

Esslinger Ranch Inc #2-27

Start Date: 2013.03.30 @ 15:26:00

End Date: 2013.03.30 @ 21:48:45

Job Ticket #: 50620 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:57:13

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

27-3s-22w Norton,KS

DST # 2

LKC " C "

2013.03.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton, KS

ATTN: Richard Bell

Job Ticket: 50620

DST#: 2

Test Start: 2013.03.30 @ 15:26:00

GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:51:30

Time Test Ended: 21:48:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 57

Interval: 3576.00 ft (KB) To 3600.00 ft (KB) (TVD)

Reference Elevations: 2328.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8320 Outside

Press @ Run Depth: 70.03 psig @ 3577.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.30

End Date: 2013.03.30

Last Calib.: 2013.03.30

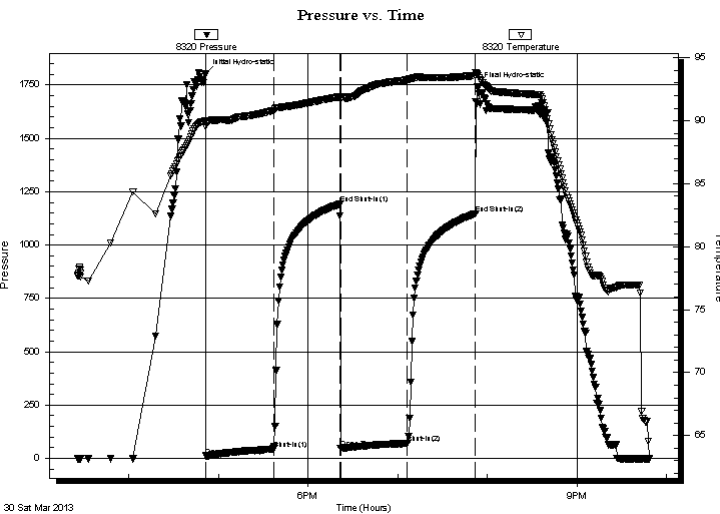
Start Time: 15:26:05

End Time: 21:48:44

Time On Btm: 2013.03.30 @ 16:51:15

Time Off Btm: 2013.03.30 @ 19:53:15

TEST COMMENT: 45 IF - Surface blow built to 3"
45 ISI - No return
45 FF - Surface blow started @ 9 mins built to 1 1/2"
45 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1801.73	89.97	Initial Hydro-static
1	11.75	89.55	Open To Flow (1)
46	45.14	90.83	Shut-In(1)
90	1191.68	91.90	End Shut-In(1)
91	47.86	91.71	Open To Flow (2)
136	70.03	93.24	Shut-In(2)
181	1146.72	93.58	End Shut-In(2)
182	1743.79	93.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM - 45%W - 55%M	0.30
60.00	MCW - 30%M - 70%W	0.30
5.00	Mud w/oil spots - 100%M	0.06

* 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

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 50620

DST#: 2

ATTN: Richard Bell

Test Start: 2013.03.30 @ 15:26:00

Tool Information

Drill Pipe:	Length: 3440.00 ft	Diameter: 3.80 inches	Volume: 48.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3576.00 ft			Final 42000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3561.00	
Hydraulic tool	5.00			3566.00	
Packer	5.00			3571.00	20.00 Bottom Of Top Packer
Packer	5.00			3576.00	
Stubb	1.00			3577.00	
Recorder	0.00	6719	Inside	3577.00	
Recorder	0.00	8320	Outside	3577.00	
Perforations	20.00			3597.00	
Bullnose	3.00			3600.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 50620

DST#: 2

ATTN: Richard Bell

Test Start: 2013.03.30 @ 15:26:00

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:

13000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	WCM - 45%W - 55%M	0.295
60.00	MCW - 30%M - 70%W	0.295
5.00	Mud w /oil spots - 100%M	0.061

Total Length: 125.00 ft Total Volume: 0.651 bbl

Num Fluid Samples: 0

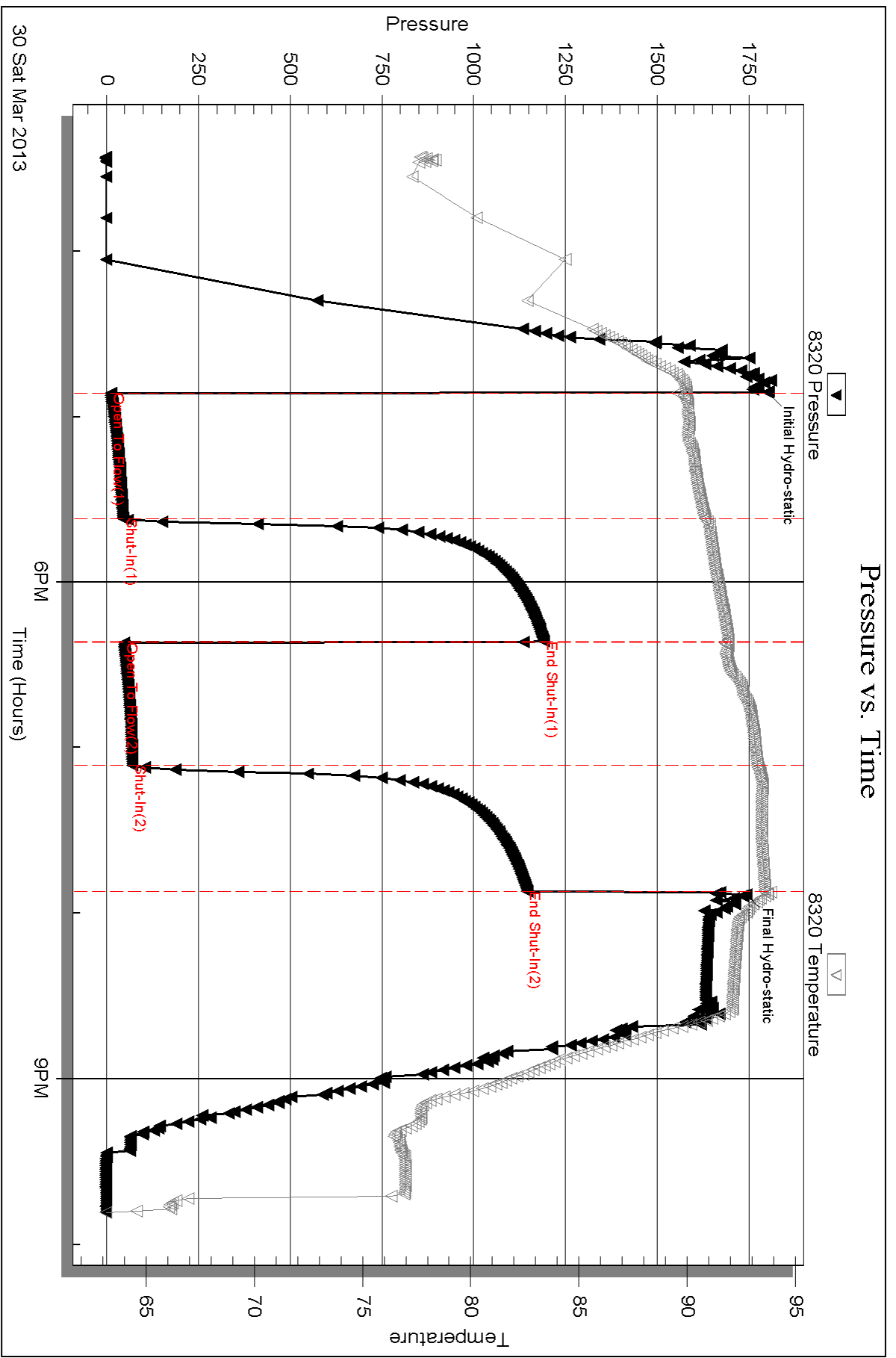
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .552 @ 62 DEG F



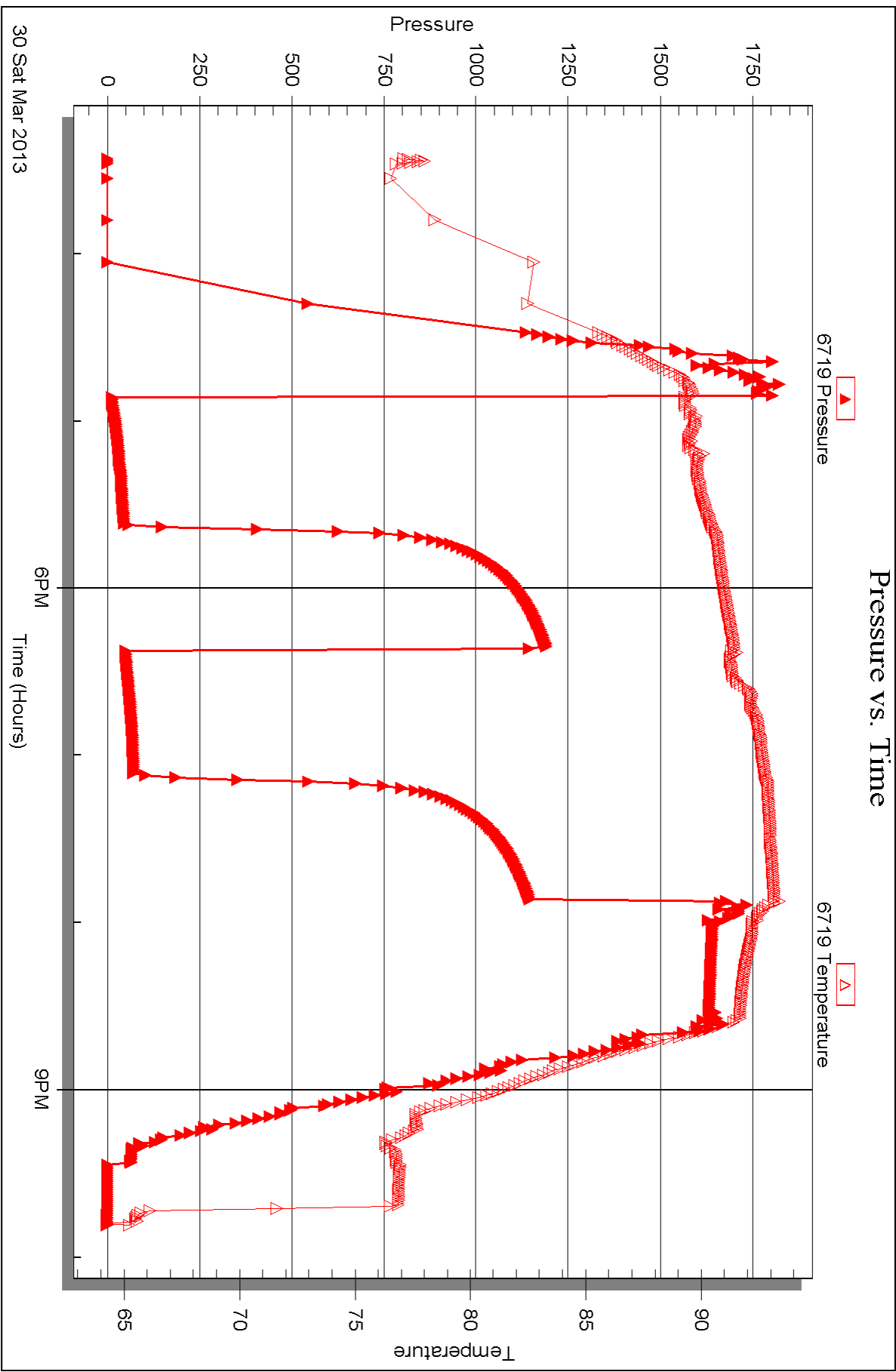
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Inside

Baird Oil Company, LLC

27-3s-22w Norton KS

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

27-3s-22w Norton,KS

Esslinger Ranch Inc #2-27

Start Date: 2013.03.31 @ 04:15:00

End Date: 2013.03.31 @ 10:17:00

Job Ticket #: 50621 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:56:06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

ATTN: Richard Bell

Job Ticket: 50621

DST#: 3

Test Start: 2013.03.31 @ 04:15:00

GENERAL INFORMATION:

Formation: **LCK " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:49:30

Time Test Ended: 10:17:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 57

Interval: 3597.00 ft (KB) To 3618.00 ft (KB) (TVD)

Reference Elevations: 2328.00 ft (KB)

Total Depth: 3618.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 63.44 psig @ 3598.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.31

End Date:

2013.03.31

Last Calib.: 2013.03.31

Start Time: 04:15:05

End Time:

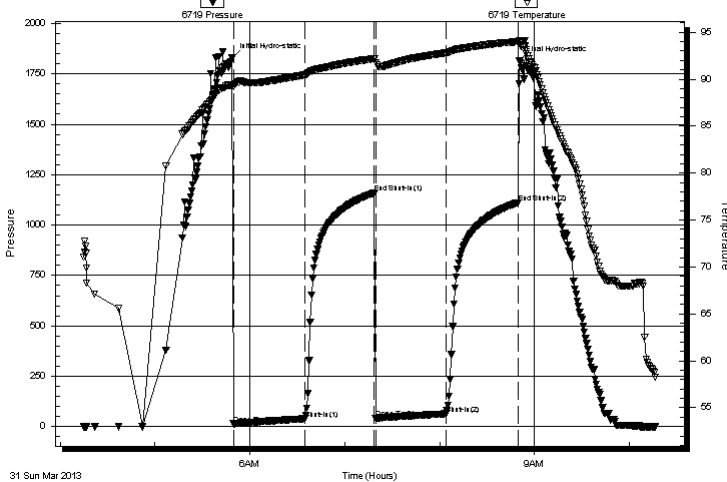
10:16:59

Time On Btm: 2013.03.31 @ 05:49:00

Time Off Btm: 2013.03.31 @ 08:50:30

TEST COMMENT: 45 IF - 1/4" blow built to 3"
45 ISI - No return
45 FF - Surface blow started @ 12 mins built to 1"
45 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1829.35	89.43	Initial Hydro-static
1	13.61	89.27	Open To Flow (1)
46	39.19	90.45	Shut-In(1)
90	1159.22	92.19	End Shut-In(1)
91	42.40	91.74	Open To Flow (2)
135	63.44	92.79	Shut-In(2)
181	1111.75	93.99	End Shut-In(2)
182	1814.82	93.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW - 20%M - 80%W	0.30
5.00	MCW - 10%M - 90%W	0.02

* 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

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 50621

DST#: 3

ATTN: Richard Bell

Test Start: 2013.03.31 @ 04:15:00

Tool Information

Drill Pipe:	Length: 3469.00 ft	Diameter: 3.80 inches	Volume: 48.66 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3597.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3582.00	
Hydraulic tool	5.00			3587.00	
Packer	5.00			3592.00	20.00 Bottom Of Top Packer
Packer	5.00			3597.00	
Stubb	1.00			3598.00	
Recorder	0.00	6719	Inside	3598.00	
Recorder	0.00	8320	Outside	3598.00	
Perforations	17.00			3615.00	
Bullnose	3.00			3618.00	21.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 50621

DST#: 3

ATTN: Richard Bell

Test Start: 2013.03.31 @ 04:15:00

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:

11000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCW - 20%M - 80%W	0.295
5.00	MCW - 10%M - 90%W	0.025

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

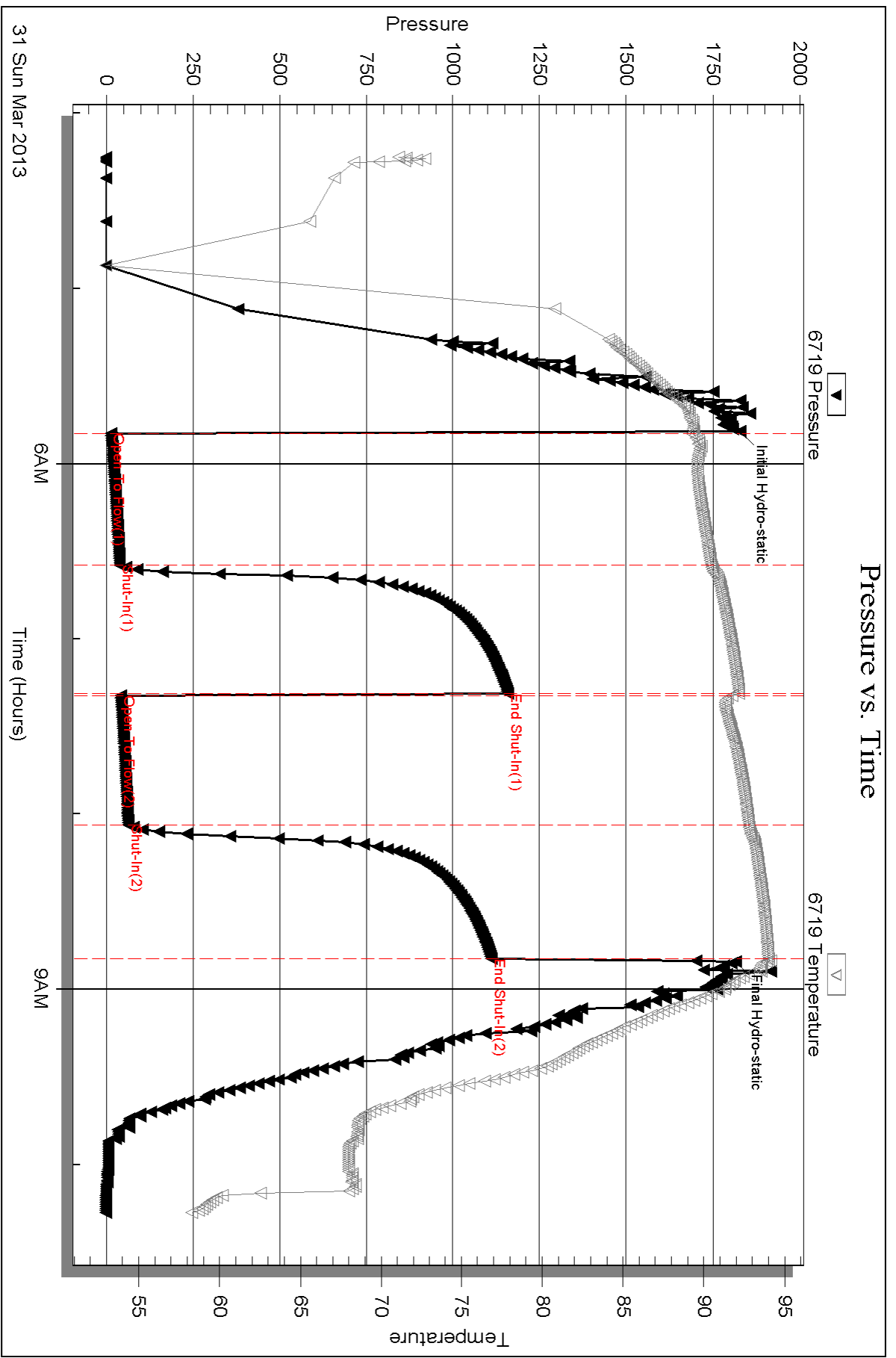
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 496' GIP

RW = .328 @ 52 DEG F



31 Sun Mar 2013

6AM

Time (Hours)

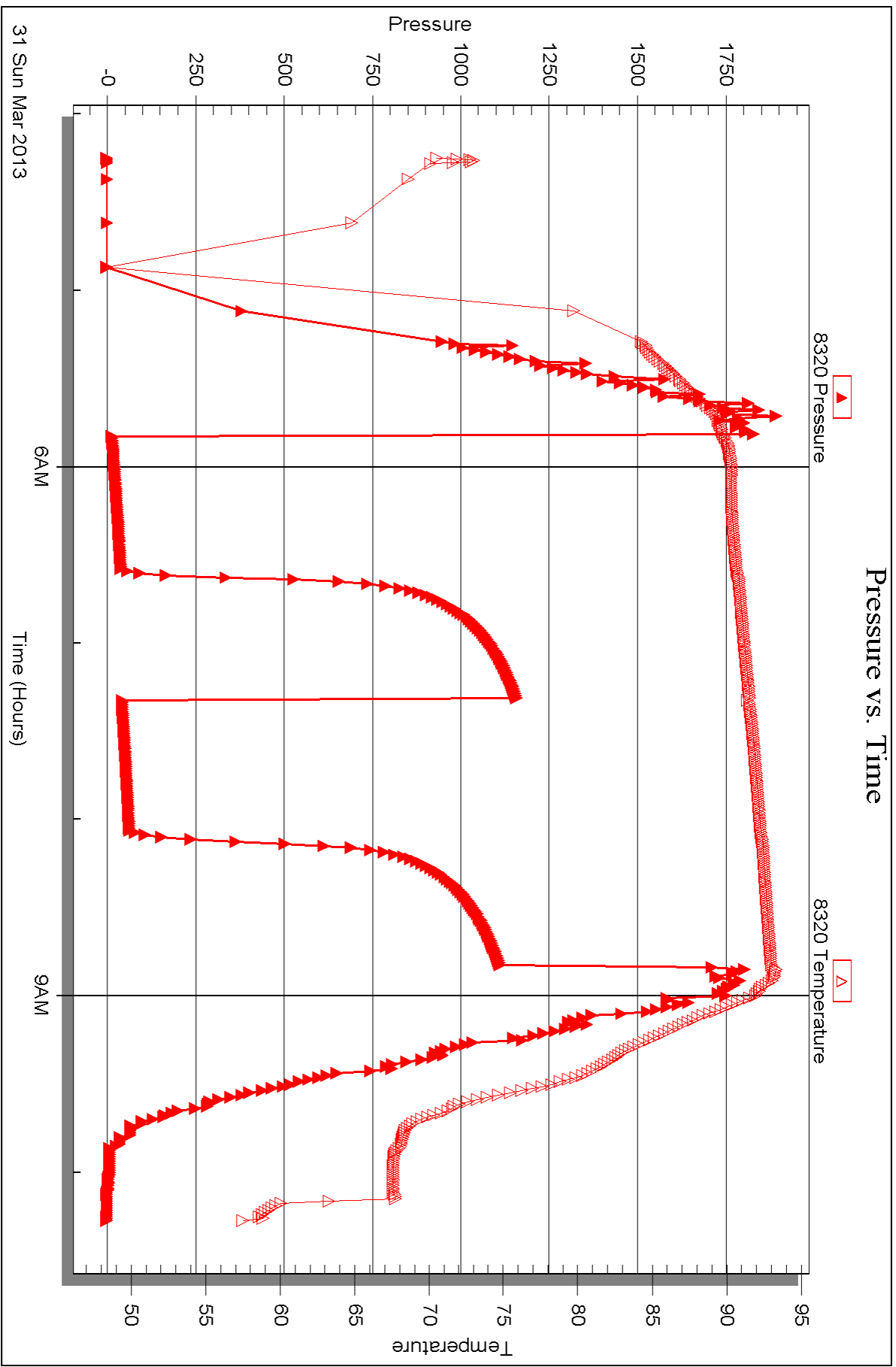
9AM

Serial #: 8320

Outside Baird Oil Company, LLC

27-3s-22w Norton, KS

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 50621

Printed: 2013.04.04 @ 14:56:09



DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

27-3s-22w Norton,KS

Esslinger Ranch Inc #2-27

Start Date: 2013.03.31 @ 16:13:00

End Date: 2013.03.31 @ 20:15:00

Job Ticket #: 50622 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:54:38

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

27-3s-22w Norton,KS

DST # 4

LKC " F "

2013.03.31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

ATTN: Richard Bell

Job Ticket: 50622

DST#: 4

Test Start: 2013.03.31 @ 16:13:00

GENERAL INFORMATION:

Formation: **LKC " F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:48:30

Time Test Ended: 20:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 57

Interval: 3618.00 ft (KB) To 3638.00 ft (KB) (TVD)

Reference Elevations: 2328.00 ft (KB)

Total Depth: 3638.00 ft (KB) (TVD)

2320.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press @ RunDepth: 19.02 psig @ 3619.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.31

End Date:

2013.03.31

Last Calib.:

2013.03.31

Start Time: 16:13:05

End Time:

20:15:00

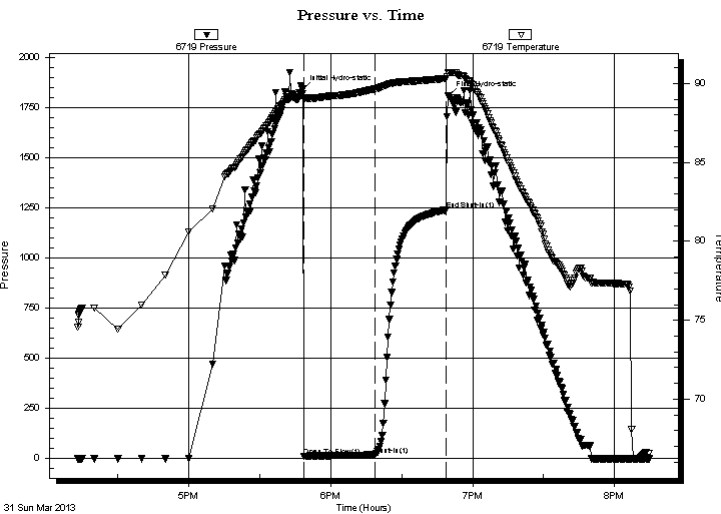
Time On Btm:

2013.03.31 @ 17:48:15

Time Off Btm:

2013.03.31 @ 18:49:45

TEST COMMENT: 30 IF - Weak surface blow started @ 5 mins
30 ISI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.56	89.37	Initial Hydro-static
1	11.91	89.08	Open To Flow (1)
31	19.02	89.66	Shut-In(1)
61	1239.58	90.33	End Shut-In(1)
62	1808.07	90.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100%M	0.02

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

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 50622

DST#: 4

ATTN: Richard Bell

Test Start: 2013.03.31 @ 16:13:00

Tool Information

Drill Pipe:	Length: 3502.00 ft	Diameter: 3.80 inches	Volume: 49.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 49.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3618.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3603.00	
Hydraulic tool	5.00			3608.00	
Packer	5.00			3613.00	20.00 Bottom Of Top Packer
Packer	5.00			3618.00	
Stubb	1.00			3619.00	
Recorder	0.00	6719	Inside	3619.00	
Recorder	0.00	8320	Outside	3619.00	
Perforations	16.00			3635.00	
Bullnose	3.00			3638.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 50622

DST#: 4

ATTN: Richard Bell

Test Start: 2013.03.31 @ 16:13:00

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: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

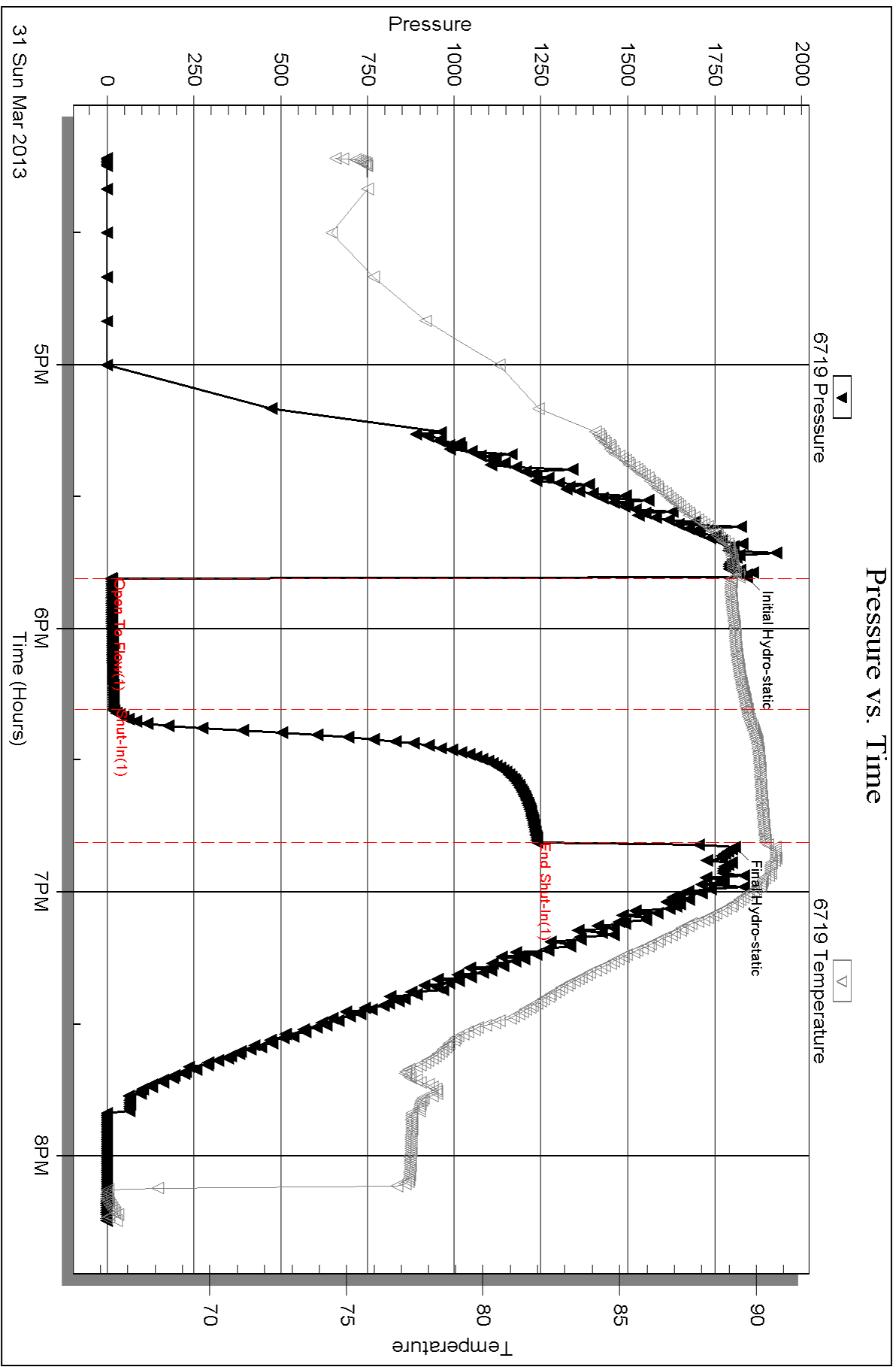
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

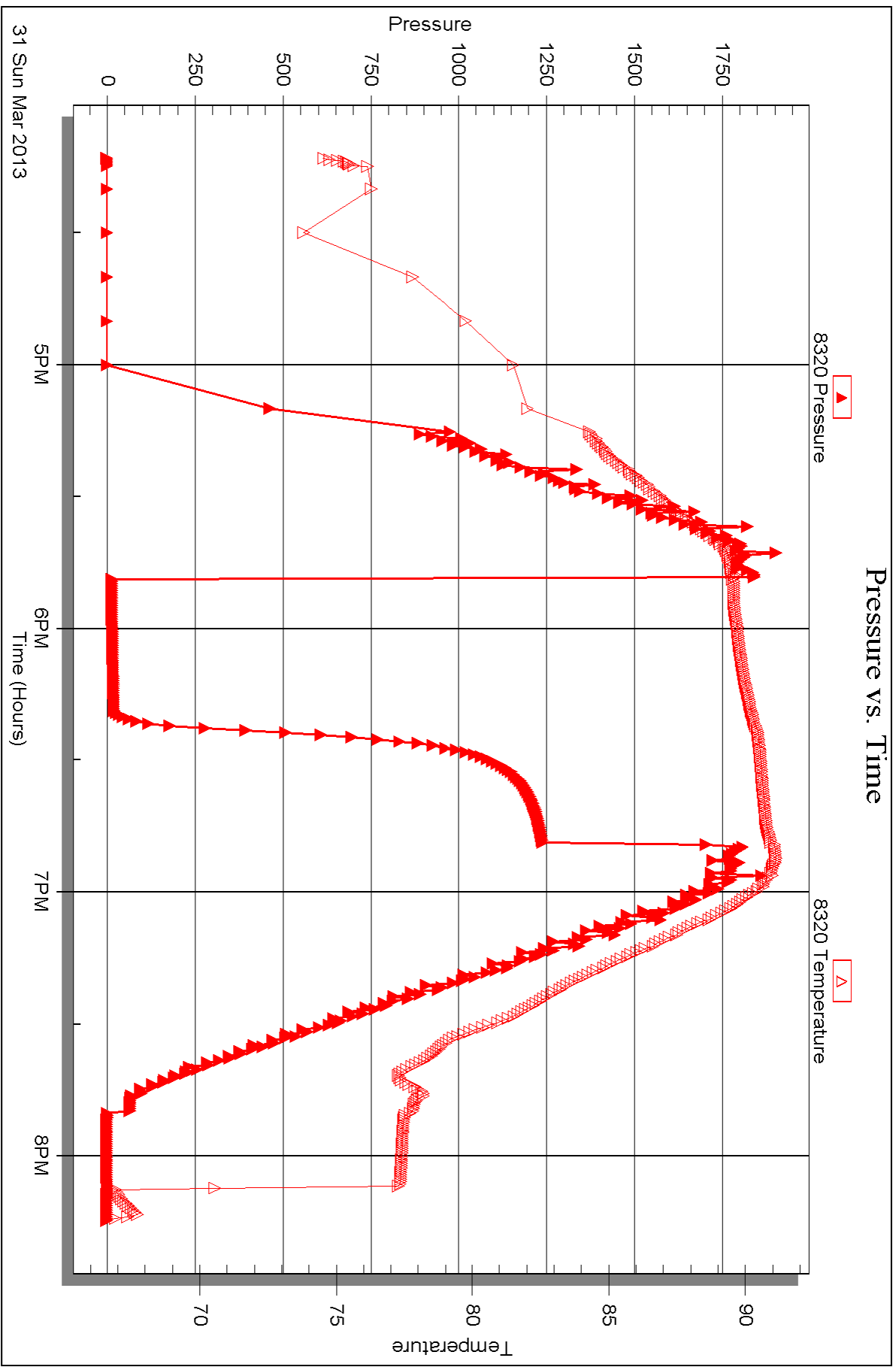


Serial #: 8320

Outside Baird Oil Company, LLC

27-3s-22w Norton, KS

DST Test Number: 4





DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

27-3s-22w Norton,KS

Esslinger Ranch Inc #2-27

Start Date: 2013.04.01 @ 07:53:00

End Date: 2013.04.01 @ 12:07:45

Job Ticket #: 50623 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:50:11

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

27-3s-22w Norton,KS

DST # 5

LKC: J "

2013.04.01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

ATTN: Richard Bell

Job Ticket: 50623

DST#: 5

Test Start: 2013.04.01 @ 07:53:00

GENERAL INFORMATION:

Formation: **LKC" J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:48:00

Time Test Ended: 12:07:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 57

Interval: 3683.00 ft (KB) To 3715.00 ft (KB) (TVD)

Total Depth: 3715.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2328.00 ft (KB)

2320.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 13.51 psig @ 3684.00 ft (KB)

Start Date: 2013.04.01

End Date:

2013.04.01

Start Time: 07:53:05

End Time:

12:07:45

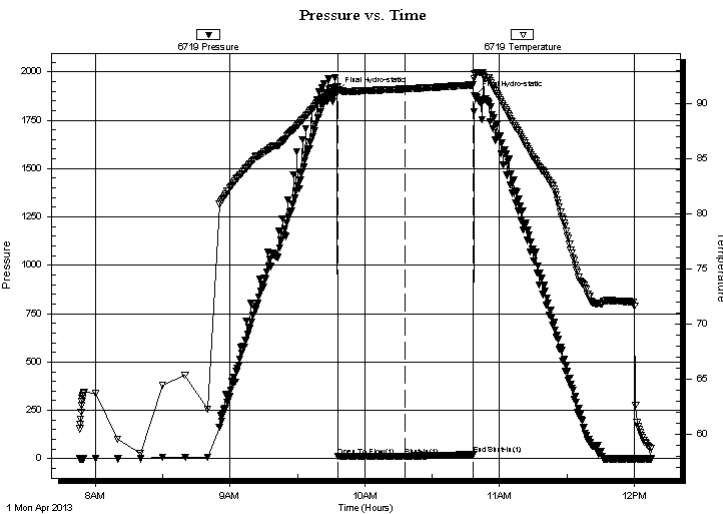
Capacity: 8000.00 psig

Last Calib.: 2013.04.01

Time On Btm:

Time Off Btm: 2013.04.01 @ 09:47:45

TEST COMMENT: 30 IF - Weak surface blow built to 1/16" started dieing back @ 14 mins died back to surface blow
30 ISI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.89	91.56	Final Hydro-static
1	12.97	91.25	Open To Flow (1)
31	13.51	91.34	Shut-In(1)
61	20.98	91.70	End Shut-In(1)
62	1876.04	92.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /oil spots - 100%M	0.02

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

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 50623

DST#: 5

ATTN: Richard Bell

Test Start: 2013.04.01 @ 07:53:00

Tool Information

Drill Pipe:	Length: 3563.00 ft	Diameter: 3.80 inches	Volume: 49.98 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 50.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3683.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 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			3668.00	
Hydraulic tool	5.00			3673.00	
Packer	5.00			3678.00	20.00 Bottom Of Top Packer
Packer	5.00			3683.00	
Stubb	1.00			3684.00	
Recorder	0.00	6719	Inside	3684.00	
Recorder	0.00	8320	Outside	3684.00	
Perforations	28.00			3712.00	
Bullnose	3.00			3715.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 50623

DST#: 5

ATTN: Richard Bell

Test Start: 2013.04.01 @ 07:53:00

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:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w /oil spots - 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

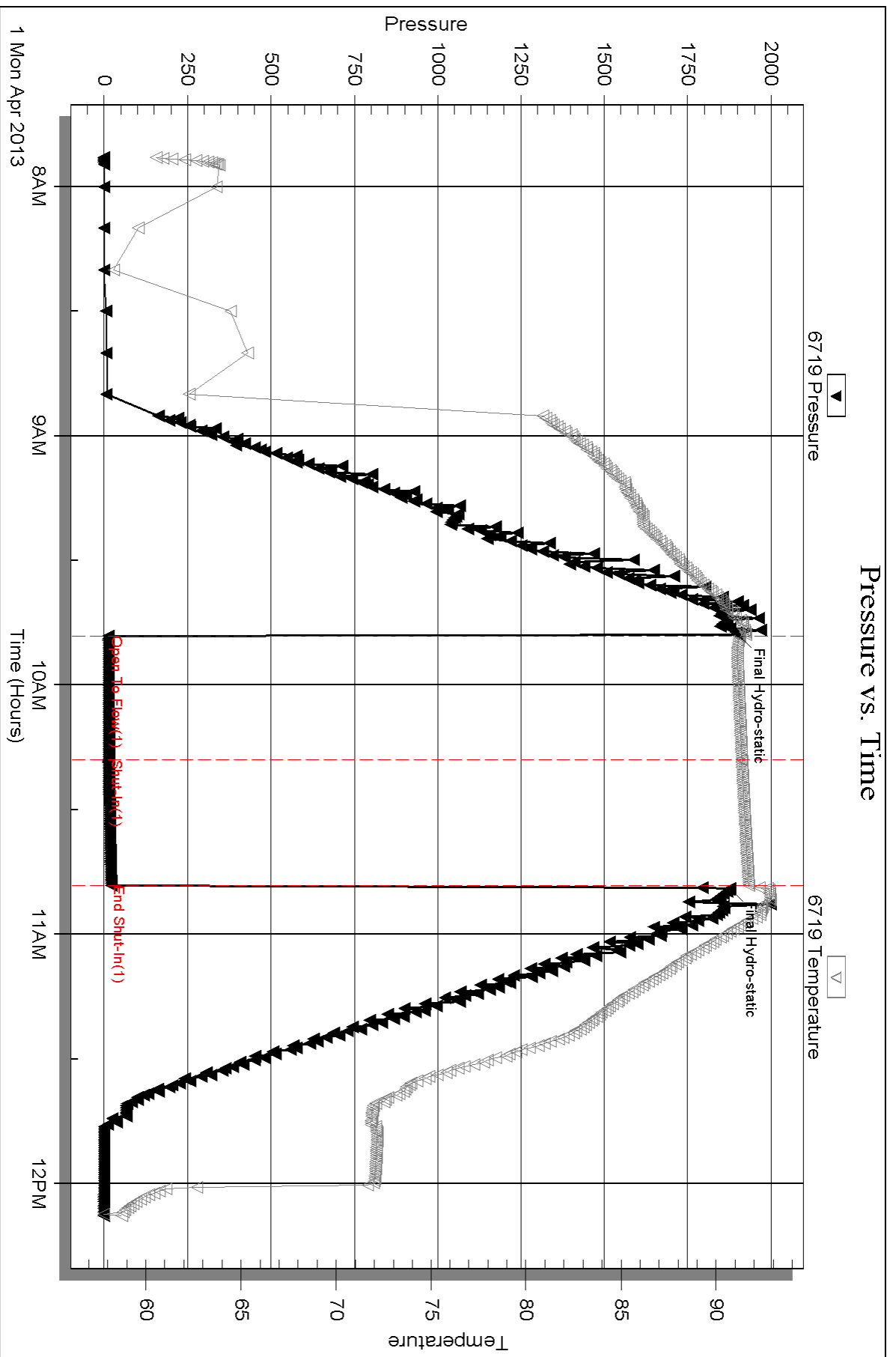
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

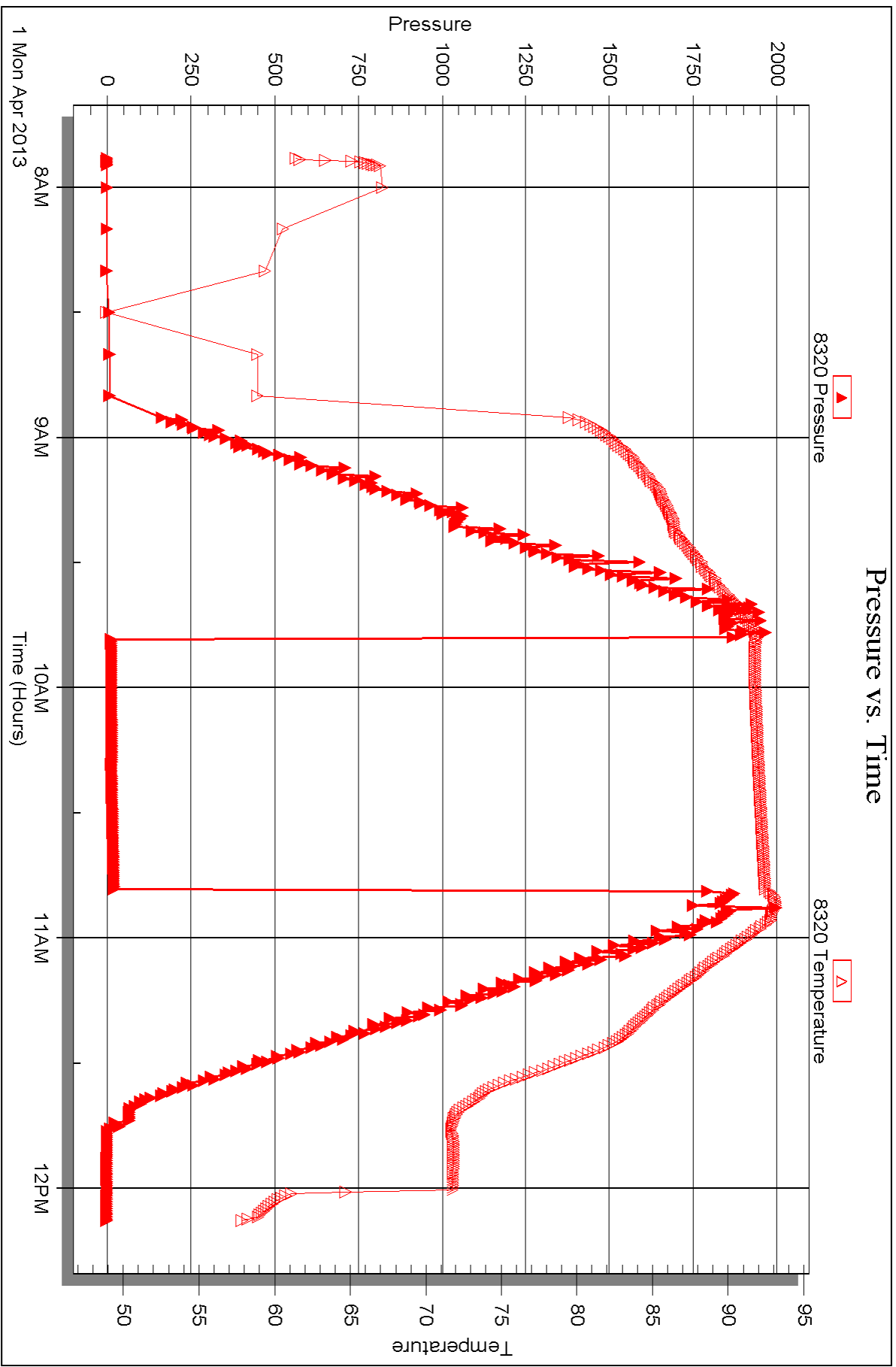


Serial #: 8320

Outside Baird Oil Company, LLC

27-3s-22w Norton, KS

DST Test Number: 5





DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

27-3s-22w Norton,KS

Esslinger Ranch Inc #2-27

Start Date: 2013.04.01 @ 18:53:00

End Date: 2013.04.02 @ 01:37:30

Job Ticket #: 51156 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.04 @ 14:39:57

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

27-3s-22w Norton,KS

DST # 6

LKC "K"

2013.04.01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton, KS

ATTN: Richard Bell

Job Ticket: 51156

DST#: 6

Test Start: 2013.04.01 @ 18:53:00

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:22:45
 Time Test Ended: 01:37:30
 Interval: **3713.00 ft (KB) To 3736.00 ft (KB) (TVD)**
 Total Depth: 3736.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 2328.00 ft (KB)
 2320.00 ft (CF)
 KB to GR/CF: 8.00 ft

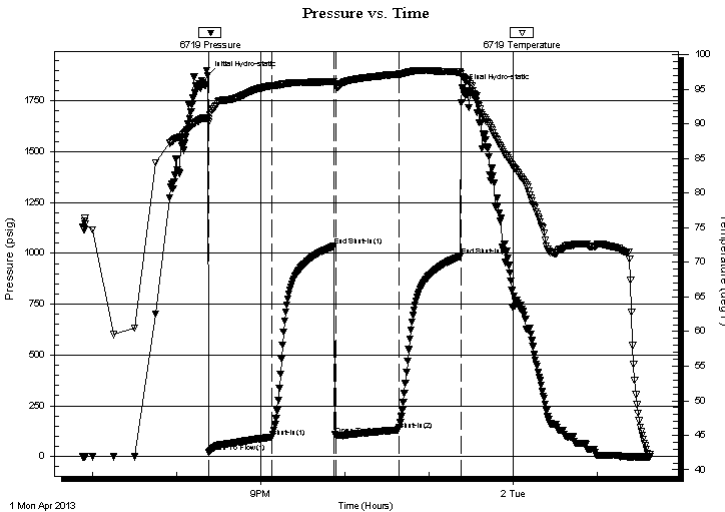
Serial #: 6719

Inside

Press @ Run Depth: 131.56 psig @ 3714.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.01 End Date: 2013.04.02 Last Calib.: 2013.04.02
 Start Time: 18:53:05 End Time: 01:37:29 Time On Btm: 2013.04.01 @ 20:22:30
 Time Off Btm: 2013.04.01 @ 23:23:45

TEST COMMENT: 45 - IF: Blow built to BOB (11") in 17 1/2 min.
 45 - IS: Bled off, Blow back built to 1"
 45 - FF: Blow built to BOB in 21 min.
 45 - FS: Bled off, Blow back built to 1 3/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1875.34	90.93	Initial Hydro-static
1	19.23	90.28	Open To Flow (1)
46	96.27	95.57	Shut-In(1)
90	1036.47	96.12	End Shut-In(1)
92	103.18	95.43	Open To Flow (2)
136	131.56	97.20	Shut-In(2)
180	985.68	97.51	End Shut-In(2)
182	1812.60	96.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SW/GOCM 52% _m , 27% _o , 13% _g , 8% _w	0.30
60.00	OCM 77% _m , 18% _o , 5% _g	0.30
190.00	SMCGO 79% _o , 14% _g , 7% _m	2.66
30.00	GO 67% _g , 33% _o	0.42
0.00	GIP = 155'	0.00

* 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

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 51156

DST#: 6

ATTN: Richard Bell

Test Start: 2013.04.01 @ 18:53:00

Tool Information

Drill Pipe:	Length: 3595.00 ft	Diameter: 3.80 inches	Volume: 50.43 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3713.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3698.00	
Hydraulic tool	5.00			3703.00	
Packer	5.00			3708.00	20.00 Bottom Of Top Packer
Packer	5.00			3713.00	
Stubb	1.00			3714.00	
Recorder	0.00	6719	Inside	3714.00	
Recorder	0.00	8320	Outside	3714.00	
Perforations	19.00			3733.00	
Bullnose	3.00			3736.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

Esslinger Ranch Inc #2-27

PO Box 428
Logan, KS 67646

27-3s-22w Norton,KS

Job Ticket: 51156

DST#: 6

ATTN: Richard Bell

Test Start: 2013.04.01 @ 18:53:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SW/GOCM 52%m, 27%o, 13%g, 8%w	0.295
60.00	OCM 77%m, 18%o, 5%g	0.295
190.00	SMCGO 79%o, 14%g, 7%m	2.656
30.00	GO 67%g, 33%o	0.421
0.00	GIP = 155'	0.000

Total Length: 340.00 ft Total Volume: 3.667 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

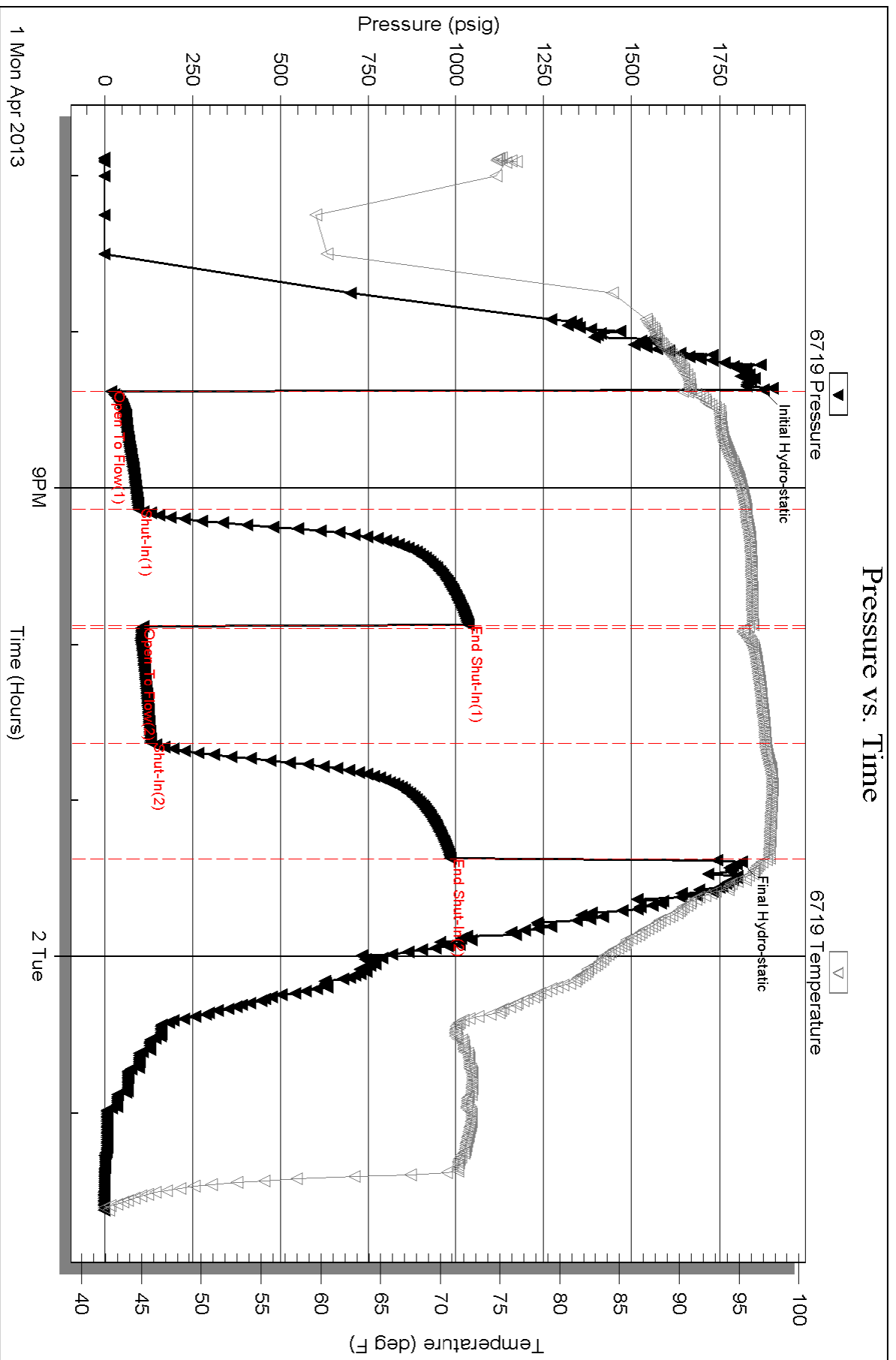
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 29.6 api @ 44 deg F

Corrected Gravity = 31.2 api

Pressure vs. Time

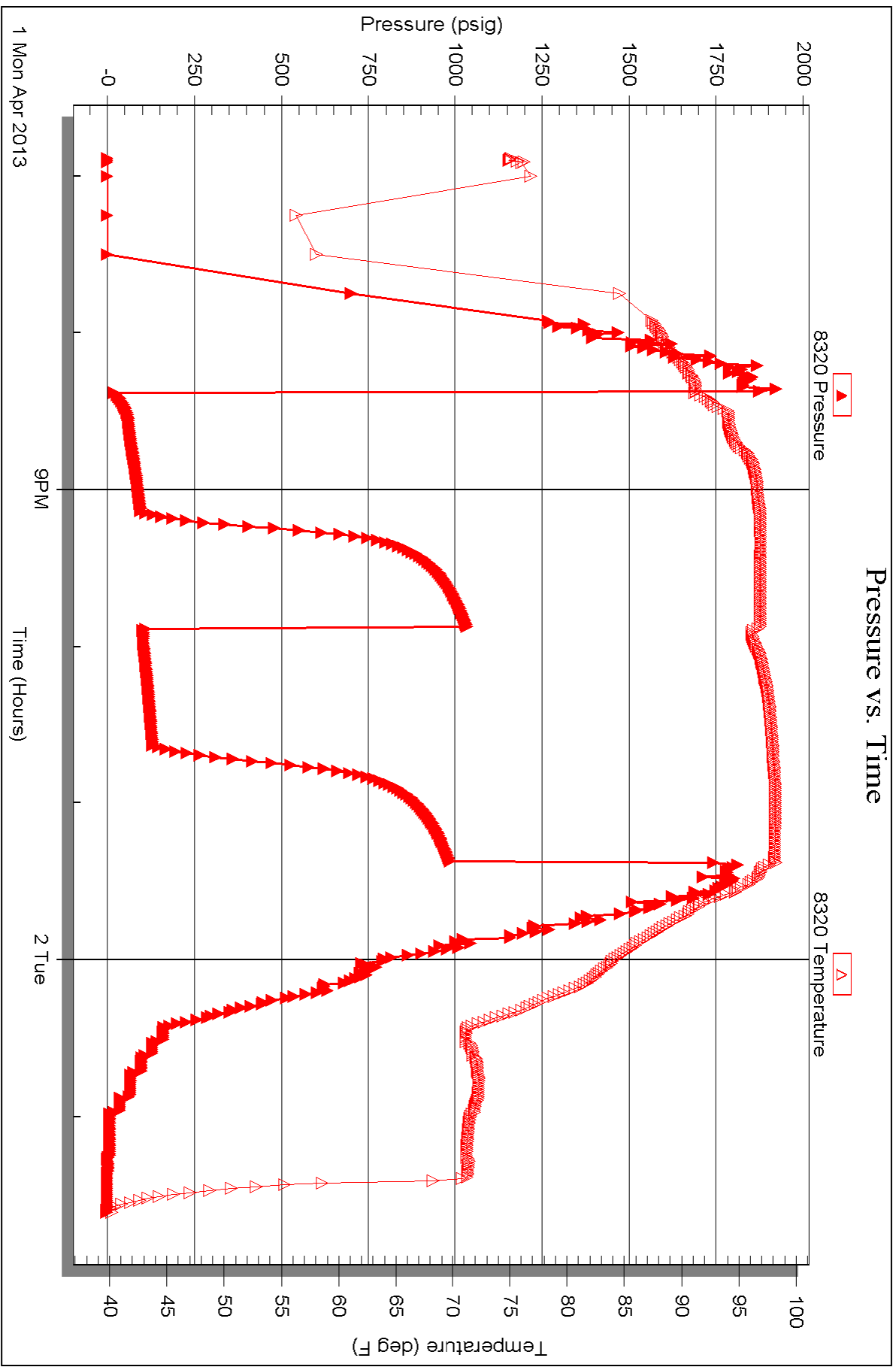


Serial #: 8320

Outside Baird Oil Company, LLC

27-3s-22w Norton KS

DST Test Number: 6





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50619

Well Name & No. Esslinger Ranch Inc #2-27 Test No. 1 Date 3/30/13
 Company Baird Oil Company, LLC Elevation ~~2320~~ 2328' KB 2328' GL
 Address P.O. Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 27 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3552 - 3572 Zone Tested LKC "A"
 Anchor Length 20' Drill Pipe Run 3439' Mud Wt. 9.0
 Top Packer Depth 3547 Drill Collars Run 121' Vis 53
 Bottom Packer Depth 3552 Wt. Pipe Run 0' WL 6.8
 Total Depth 3572 Chlorides 1200 ppm System LCM 1
 Blow Description IF - Surface blow
ISI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</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	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT 920 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1785 Test 1150 T-On Location 04:30
 (B) First Initial Flow 10 Jars — T-Started 05:36
 (C) First Final Flow 21 Safety Joint — T-Open 07:23
 (D) Initial Shut-In 1203 Circ Sub NC T-Pulled 08:23
 (E) Second Initial Flow ⊙ Hourly Standby — T-Out 09:43
 (F) Second Final Flow — Mileage 92 RT 142.60 Comments —
 (G) Final Shut-In — Sampler —
 (H) Final Hydrostatic 1745 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 — Day Standby — Total 1292.60
 Final Shut-In — Accessibility — MP/DST Disc't —
 Sub Total 1292.60

Approved By _____ Our Representative Richard 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. 50620

Well Name & No. Esslinger Ranch Tract #2-27 Test No. 2 Date 3/30/13
 Company Baird Oil Company, LLC Elevation 2336' KB 2328' GL
 Address P.O. Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 27 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3576 - 3600 Zone Tested LKC "C"
 Anchor Length 241 Drill Pipe Run 3440' Mud Wt. 9.0
 Top Packer Depth 3571 Drill Collars Run 121' Vis 53
 Bottom Packer Depth 3576 Wt. Pipe Run 0' WL 6.8
 Total Depth 3600 Chlorides 1200 ppm System LCM 1

Blow Description IF - Surface blow built to 3"
IST - No return
FF - Surface blow started @ 9mins built to 1 1/2"
FSE - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud w/oil spots</u>		<u>4</u>	<u>100</u>	
<u>60</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>60</u>	<u>WCM</u>		<u>45</u>	<u>55</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total	<u>125'</u>	BHT <u>94°</u>	Gravity <u>—</u>	API RW <u>1.552 @ 62° F</u>	Chlorides <u>13,000</u> ppm

(A) Initial Hydrostatic 1801 Test 1150 T-On Location 15:00
 (B) First Initial Flow 12 Jars NC T-Started 15:26
 (C) First Final Flow 45 Safety Joint T-Open 16:52
 (D) Initial Shut-In 1192 Circ Sub NC T-Pulled 19:52
 (E) Second Initial Flow 48 Hourly Standby T-Out 21:48
 (F) Second Final Flow 70 Mileage 92 RT 142.60 Comments _____
 (G) Final Shut-In 1147 Sampler _____
 (H) Final Hydrostatic 1744 Straddle _____

Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Extra Copies _____
 Initial Open 45 Sub Total 0
 Initial Shut-In 45 Total 1292.60
 Final Flow 45 MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1292.60

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50621

Well Name & No. Esslinger Ranch Inc. #2-27 Test No. 3 Date 3/31/13
 Company Baird Oil Company, LLC Elevation 2336' KB 2328' GL
 Address P.O. Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 27 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3597-3618 Zone Tested LKC "D"
 Anchor Length 21' Drill Pipe Run 3469' Mud Wt. 9
 Top Packer Depth 3592 Drill Collars Run 121' Vis 53
 Bottom Packer Depth 3597 Wt. Pipe Run 0' WL 6.8
 Total Depth 3618 Chlorides 1200 ppm System LCM 1
 Blow Description IF - ~~2 1/4"~~ 1/4" blow built to 3"
ISI - No return
FF - Surface blow started @ 12 mins built to 1"
FSL - No return

Rec	Feet of	%gas	%oil	%water	%mud
5	MCW		90	10	
60	MCW		80	20	

Rec Total 65' BHT 94° Gravity — API RW 328 @ 52 °F Chlorides 11,000 ppm
 (A) Initial Hydrostatic 1829 Test 1150 T-On Location 03:45
 (B) First Initial Flow 14 Jars _____ T-Started 04:15
 (C) First Final Flow 39 Safety Joint _____ T-Open 05:49
 (D) Initial Shut-In 1159 Circ Sub NC T-Pulled 08:49
 (E) Second Initial Flow 42 Hourly Standby _____ T-Out 10:17
 (F) Second Final Flow 63 Mileage 92 RT 142.60 Comments 496' G.I.P
 (G) Final Shut-In 1112 Sampler _____
 (H) Final Hydrostatic 1815 Straddle _____ Ruined Shale Packer _____
 Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1292.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1292.60

Approved By _____ Our Representative Ryan Mills

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. 50622

Well Name & No. Esslinger Ranch Inc. #2-27 Test No. 4 Date 3/31/13
 Company Baird Oil Company, LLC Elevation 2336' KB 2328' GL
 Address P.O. Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig OWN #12
 Location: Sec. 27 Twp. 3S Rge. 22W Co. Norton State KS

Interval Tested 3618-3638 Zone Tested LKC "F"
 Anchor Length 20' Drill Pipe Run 3502' Mud Wt. 9.2
 Top Packer Depth 3613 Drill Collars Run 121' Vis 55
 Bottom Packer Depth 3618 Wt. Pipe Run 0' WL 7.2
 Total Depth 3638 Chlorides 1900 ppm System LCM .5
 Blow Description IF - Weak surface blow started @ 5 mins
ISI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud</u>			<u>10%</u>	

Rec Total 5' BHT 90° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1842 Test 1150 T-On Location 16:00
 (B) First Initial Flow 12 Jars _____ T-Started 16:13
 (C) First Final Flow 19 Safety Joint _____ T-Open 17:49
 (D) Initial Shut-In 1240 Circ Sub NC T-Pulled 18:49
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 20:15
 (F) Second Final Flow _____ Mileage 92 RT 142.60 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1808 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 1292.60
 Final Flow _____ Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1292.60

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50623

Well Name & No. Esslinger Ranch # 2-27 Test No. 5 Date 4/1/13
 Company Baird Oil Company, LLC Elevation 2336 KB 2328 GL
 Address P.O. Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW # 12
 Location: Sec. 27 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3683-3715 Zone Tested LKC "J"
 Anchor Length 32' Drill Pipe Run 3563' Mud Wt. 9.2
 Top Packer Depth 3678 Drill Collars Run 121' Vis 55
 Bottom Packer Depth 3683 Wt. Pipe Run 0' WL 7.2
 Total Depth 3715 Chlorides 1900 ppm System LCM ~~0.5~~ .5
 Blow Description IF - Weak surface blow built to 1/16" started dying back @ 14 mins died back to surface blow
ISI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud w/oil spots</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 5' BHT 92° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1900 Test 1150 T-On Location 07:30
 (B) First Initial Flow 13 Jars — T-Started 07:53
 (C) First Final Flow 14 Safety Joint — T-Open 09:48
 (D) Initial Shut-In 21 Circ Sub NC T-Pulled 10:48
 (E) Second Initial Flow — Hourly Standby — T-Out 12:07
 (F) Second Final Flow — Mileage 92 KT 142.60 Comments —
 (G) Final Shut-In — Sampler —
 (H) Final Hydrostatic 1876 Straddle —
 Shale Packer —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Packer —
 Extra Copies —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1292.60

Initial Open 30
 Initial Shut-In 30
 Final Flow —
 Final Shut-In —
 Sub Total 0
 Total 1292.60
 MP/DST Disc't —

Approved By _____ Our Representative Ryan Z. Nichols

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. 51156

4/10

Well Name & No. Esslinger Ranch Inc #2-27 Test No. 6 Date 4-1-13
 Company Baird Oil Co. LLC Elevation 2328 KB 2320 GL
 Address PO Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 27 Twp. 3s Rge. 22w Co. Norton State KS

Interval Tested 3713 - 3736 Zone Tested LKC "K"
 Anchor Length 23 Drill Pipe Run 3595 Mud Wt. 9.3
 Top Packer Depth 3708 Drill Collars Run 120 Vis 50
 Bottom Packer Depth 3713 Wt. Pipe Run - WL 7.2
 Total Depth 3736 Chlorides 1900 ppm System LCM 1/2

Blow Description IF: Blow built to BOB (11") in 17 1/2 min.
ISI: Bled off, Blowback built to 1"
FF: Blow built to BOB in 21 min.
FSI: Bled off, Blowback built to 1 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
30	60	67	33	-	
190	SMC/60	14	79	-	7
60	OCM	5	18	-	77
60	SW/60cm	13	27	8	52
	GIP = 155'				

Rec Total 340 BHT 98 Gravity 31.2 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1875 Test ★ 1150 T-On Location 18:35 4/1/13
 (B) First Initial Flow 19 Jars _____ T-Started 18:53
 (C) First Final Flow 96 Safety Joint _____ T-Open 20:22
 (D) Initial Shut-In 1036 Circ Sub ★NA T-Pulled 23:22
 (E) Second Initial Flow 103 Hourly Standby _____ T-Out 1:30 4/2/13

(F) Second Final Flow 132 Mileage 94 RT 142.60
 (G) Final Shut-In 986 Sampler _____
 (H) Final Hydrostatic 1813 Straddle _____

Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____

Initial Open 45 Extra Copies _____
 Initial Shut-In 45 Sub Total 0
 Final Flow 45 Total 1292.60
 Final Shut-In 45 Day Standby _____ MP/DST Disc't _____
 Accessibility _____

Sub Total 1292.60

Approved By Richard Bell

Our Representative James Winkler

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.