



1152914

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 1-27
Doc ID	1152914

Tops

Name	Top	Datum
Anhydrite	1980	+319
Base Anhydrite	2011	+288
Topeka	3286	-987
Heebner	3494	-1195
Toronto	3519	-1220
Lansing	3538	-1239
Base Kansas City	3723	-1424
Arbuckle	3788	-1489
Reagan Sand	3854	-1555
Granite	3878	-1579
Total Depth	3920	-1621

Summary of Changes

Lease Name and Number: Esslinger Ranch Inc 1-27

API/Permit #: 15-137-20635-00-00

Doc ID: 1152914

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	03/27/2013	07/24/2013
Date of First or Resumed Production or SWD or Enhr		3/26/2013
Disposition Of Gas - Vented	No	Yes
Liner Run?		No
Method Of Completion - Perf	No	Yes
Perf_Depth_1		3703-3706
Perf_Material_1		1000 gal 15% MCA
Perf_Record_1		3703-3706
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		45
Production - Oil Gravity		35
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1125607	../../../../kcc/detail/operatorEditDetail.cfm?docID=1152914
Tubing Packer At		NONE
Tubing Record - Set At		3856
Tubing Size		2 3/8



CONFIDENTIAL

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
- 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
-----------------------------------	-----------------	---

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) (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 1-27
Doc ID	1125607

Tops

Name	Top	Datum
Anhydrite	1980	+319
Base Anhydrite	2011	+288
Topeka	3286	-987
Heebner	3494	-1195
Toronto	3519	-1220
Lansing	3538	-1239
Base Kansas City	3723	-1424
Arbuckle	3788	-1489
Reagan Sand	3854	-1555
Granite	3878	-1579
Total Depth	3920	-1621

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

March 20, 2013

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

Re: ACO1
API 15-137-20635-00-00
Esslinger Ranch Inc 1-27
SE/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



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: 3/5/2013
 Invoice # 6446
 P.O.#:
 Due Date: 4/4/2013
 Division: Russell

Invoice

Contact:
 BAIRD OIL CO
Address/Job Location:
 BAIRD OIL CO
 P.O. BOX 428
 LOGAN KS. 67646

R 3/6/13
 P 3/6/13

Esslin 27 190402 4256.84
 Esslinger Ranch Inc 1-27- pump charge,
 cement, + other misc used to cement
 surface casing-

Reference:
 ESSLINGER RANCH 1-27

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,005.76	No				
Common-Class A	150	\$ 2,071.83	Yes				
Pump Truck Mileage-Job to Nearest Camp	63	\$ 692.53	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	63	\$ 405.25	No				
Bulk Truck Matl-Material Service Charge	158	\$ 348.06	No				
Calcium Chloride	5	\$ 262.48	Yes				
Premium Gel (Bentonite)	3	\$ 53.79	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,839.68
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (725.95)

SubTotal for Taxable Items:	\$ 2,029.88
SubTotal for Non-Taxable Items:	\$ 2,083.85
Total:	\$ 4,113.73
Tax:	\$ 143.11

7.05% Norton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,256.84
Applied Payments:
Balance Due: \$ 4,256.84

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
Cell 785-324-1041

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

No. 6446

Date	3-1-13	Sec.	27	Twp.	3	Range	22	County	Norton	State	Ks	On Location		Finish	5:15pm
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Lease	Esslinger Ranch	Well No.	1-27	Location	Edmond E 40 E 6 BP 7N 14 W 2nd
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Contractor	WW 12	Owner	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	Jim Baird
----------	---------	-----------	-----------

Hole Size	12 1/4	T.D.	280	Street		City		State	
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Csg.	8 3/8	Depth	229	Street		City		State	
------	-------	-------	-----	--------	--	------	--	-------	--

Tbg. Size		Depth		City		State	
-----------	--	-------	--	------	--	-------	--

Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
------	--	-------	--	--	--	--

Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	150 396C 2900d
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Meas Line		Displace	12.34 BRL	Common	150
-----------	--	----------	-----------	--------	-----

EQUIPMENT			Poz. Mix	
-----------	--	--	----------	--

Pumptrk	5	No.	Cementer Helper	Matt	Gel.	3
---------	---	-----	-----------------	------	------	---

Bulktrk	14	No.	Driver	Brett	Calcium	5
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Bulktrk	pu	No.	Driver	Duke L	Hulls	
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JOB SERVICES & REMARKS			Salt	
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Remarks:		Salt	
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Rat Hole		Flowseal	
----------	--	----------	--

Mouse Hole		Kol-Seal	
------------	--	----------	--

Centralizers		Mud CLR 48	
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Baskets		CFL-117 or CD110 CAF 38	
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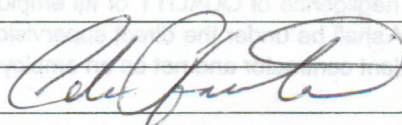
D/V or Port Collar		Sand	
--------------------	--	------	--

Cement did Circulate

Lease
Esslinger Ranch

In K

Pumptrk Charge Surface

Mileage 63
Signature 

Mileage	158
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	63
Tax	
Discount	
Total Charge	



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



Invoice

DATE	INVOICE #
3/7/2013	23868

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	#1-27	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 - 3920 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
404-5	5 1/2" Port Collar				1	Each	2,400.00	2,400.00T
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
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
283	Salt				1,650	Lb(s)	0.20	330.00T
277	Gilsonite (Coal Seal)				400	Lb(s)	0.75	300.00T
285	CFR-1				100	Lb(s)	4.00	400.00T
581D	Service Charge Cement				240	Sacks	2.00	480.00
583D	Drayage				1,190.75	Ton Miles	1.00	1,190.75
	Subtotal							14,695.75
	Sales Tax Norton County						7.05%	778.67
<i>Esslinger Ranch Inc 1-27 - Pump charge, cement, and other misc used to cement production casing.</i> <i>R 3/13/13</i> <i>P 3/17/13</i> <i>Esslinger 27 190402 15474.42</i>								
We Appreciate Your Business!							Total	\$15,474.42



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

TICKET No. **23868**

PAGE 1 OF 2

SERVICE LOCATIONS:
 1. Hays, KS WELL/PROJECT NO. 1-27 LEASE Esslinger Ranch COUNTY/PARISH Norton STATE KS DATE 3-7-13 OWNER same
 2. Ness City, KS CONTRACTOR WTW # 12 RIG NAME/NO.
 3. WELL TYPE oil WELL CATEGORY development JOB PURPOSE longstring DELIVERED TO location ORDER NO.
 4. INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #111	80	mi			6.00	480.00
578					Ramp Charge (longstring)	1	ea	3920		1500.00	1500.00
221					KEL	2	gal			25.00	50.00
280					Flecker-21	5	gal			25.00	125.00
290					D-Air	3	gal			35.00	105.00
402					Centralizers	1	ea	5 1/2		70.00	70.00
403					Basket	1	ea			250.00	250.00
404					Part Cellar	1	ea			2400.00	2400.00
406					LD Plug & Baffle	1	ea			250.00	250.00
407					Insert Flats She w/H 11	1	ea			350.00	350.00
411					Reciprocating Scratchers	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
 DATE SIGNED 3-8-13 TIME SIGNED 0100 A.M. P.M.

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

SURETY
 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

PAGE TOTAL 1	8755.00
PAGE 2	5940.75
Subtotal 1	14695.75
Norton TAX 7.05%	778.67
TOTAL	15,474.42

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

Thank You!

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
3/12/2013	23871

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	#1-27	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 - 1996 Feet				1	Job	1,250.00	1,250.00
290	D-Air				3	Gallon(s)	35.00	105.00T
100	Mileage - Tool Man				80	Miles	2.00	160.00
105	Port Collar Tool Rental With Man				1	Each	350.00	350.00T
330	Swift Multi-Density Standard (MIDCON II)				170	Sacks	16.50	2,805.00T
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							6,580.00
	Sales Tax Norton County						7.05%	236.88
<p>R 3/14/13 P 3/14/13 Esslin 27 190402 534.68 Esslinger Ranch Inc 1-27- rental of port collar tool + man when cementing port collar. Esslin 27 190402 6282.20 Esslinger Ranch Inc 1-27- pump charge, Cement, and misc used to cement port collar.</p>								
We Appreciate Your Business!							Total	\$6,816.88



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

TICKET No **23871**
 PAGE 1 OF 1

SERVICE LOCATIONS
 1. Hayes, Ks. WELLPROJECT NO. 4-1-27 LEASE Esslinger Ranch COUNTY/PARISH Marston STATE Ks DATE 3-12-13 OWNER samo
 2. Ness City, Ks. CONTRACTOR Alliance Well Service RIG NAME/NO. CT Location SHIPPED VIA CT Location ORDER NO.
 3. WELLS TYPE oil WELLS CATEGORY Development JOB PURPOSE Part Collar WELLS PERMIT NO. WELLS LOCATION
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
			ACCT	DF								
575		1			MILEAGE #111	80 mi					6.00	480.00
576D		1			Pump Charge (Part Collar)	1.00		1996			1250.00	1250.00
290		1			D-Air	3 gal					35.00	105.00
100		1			Mileage (Toolman)	80 mi					2.00	160.00
105		1			Part Collar Tool Rental w/pump	1.00					350.00	350.00
330		2			SMD Cement	170 sks					16.50	2805.00
276		2			Floacle	50 #					2.00	100.00
581		2			Cement Service Charge	225 sks					2.00	450.00
583		2			Drayage	880 Tm					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
 DATE SIGNED 3-12-13 TIME SIGNED 1150 A.M. P.M.
 X David Mc...
 REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR Phil Parker APPROVAL
 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
 TOTAL 6816.80
 1700 Tax
 7.0570
 236.8
 Thank You

JOB LOG

SWIFT Services, Inc.

DATE 3-12-13 PAGE NO. 7

CUSTOMER Baird Oil Co WELL NO. #1-27 LEASE Esslinger Ranch JOB TYPE Part Cellar TICKET NO. 23871

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. @ 1996
	0915							start P.C. opening Tool
								locate P.C.
	1015						1000	Test Csg to 1000 Psi
								Open P.C.
	1020	3	3				200	Take inj. rate
	1025	3	0				400	Start Mud
	1050	3.5	80/0				600	Start water
	1051	3.5	5/0				600	Start SMD Cement 170 sks
	1125	3.5	83				600	Circ Cement/Raise wgt
	1127	3.5	88/0				600	End Cement/Start Displacement
	1129		7					Cement Displaced
								Close P.C.
	1135						1000	Test Csg to 1000 Psi
								Run Jits
	1145	3	0				150	Reverse out
			15					Hole Clean
								170sks SMD
								circ 20sks to pit
								Thank you
								Nick, David E. &

APT. # 15-137-20635-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.
 LEASE Esslinger Ranch, Inc. #1-27
 FIELD Wildcat
 LOCATION 735' FSL + 2545' FEL
 SEC 27 TWSP 3s RGE 22W
 COUNTY Norton STATE Kansas

ELEVATION
 KB 2299'
 DF _____
 GL 2291'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR WW Drilling Rig #12
 SPUD 3-1-13 COMP 3-8-13
 SAMPLES SAVED FROM 3250' TO R.T.D.

CASING
 Surface 8 5/8" @ 219'
 Production 5 1/2" @ 3912'

ELECTRIC LOGS
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>E Log</u>				
<u>Anhydrite</u>	<u>1985</u>	<u>1980</u>	<u>+ 319</u>	<u>+ 322</u>			
<u>Base Anhydrite</u>	<u>2014</u>	<u>2011</u>	<u>+ 288</u>	<u>+ 292</u>			
<u>Topeka</u>	<u>3286</u>	<u>3286</u>	<u>- 987</u>	<u>- 992</u>			
<u>Heebner</u>	<u>3494</u>	<u>3494</u>	<u>- 1195</u>	<u>- 1192</u>			
<u>Toronto</u>	<u>3519</u>	<u>3519</u>	<u>- 1220</u>	<u>- 1216</u>			
<u>Lansing</u>	<u>3537</u>	<u>3538</u>	<u>- 1239</u>	<u>- 1233</u>			
<u>Base Kansas City</u>	<u>3723</u>	<u>3723</u>	<u>- 1424</u>	<u>- 1423</u>			
<u>Arbuskle</u>	<u>3788</u>	<u>3788</u>	<u>- 1489</u>				
<u>Reagan Sand</u>	<u>3854</u>	<u>3854</u>	<u>- 1555</u>				
<u>Granite</u>	<u>3878</u>	<u>3878</u>	<u>- 1579</u>	<u>- 1479</u>			
<u>Total Depth</u>	<u>3920</u>	<u>3920</u>	<u>- 1621</u>	<u>- 1498</u>			

REFERENCE WELLS

A Baird Oil Co., LLC. Esslinger Ranch, Inc. # 3-35 445' FNL + 2585' FWL
B Sec. 35-35-22W
C
D Part Celler @ 1996'

REMARKS

This well ran 6 feet lower on the Lansing top than the reference wells.
Encouraging results on D.S.T. #4 warranted the cementing of production
casing to further test the well. The following zones should be tested; 3723-3705'
and 3604'-3607'.

Richard H. Bell
3-8-13

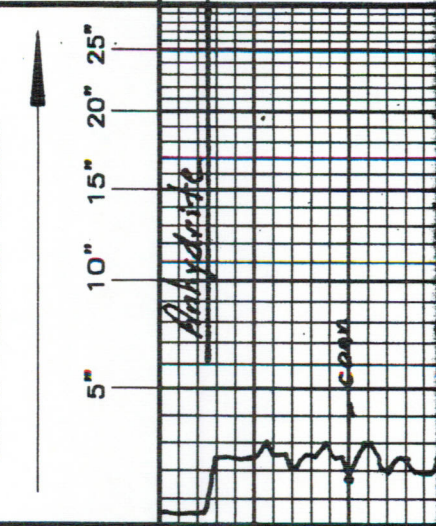
7502

LEGEND

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

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



1980
2000

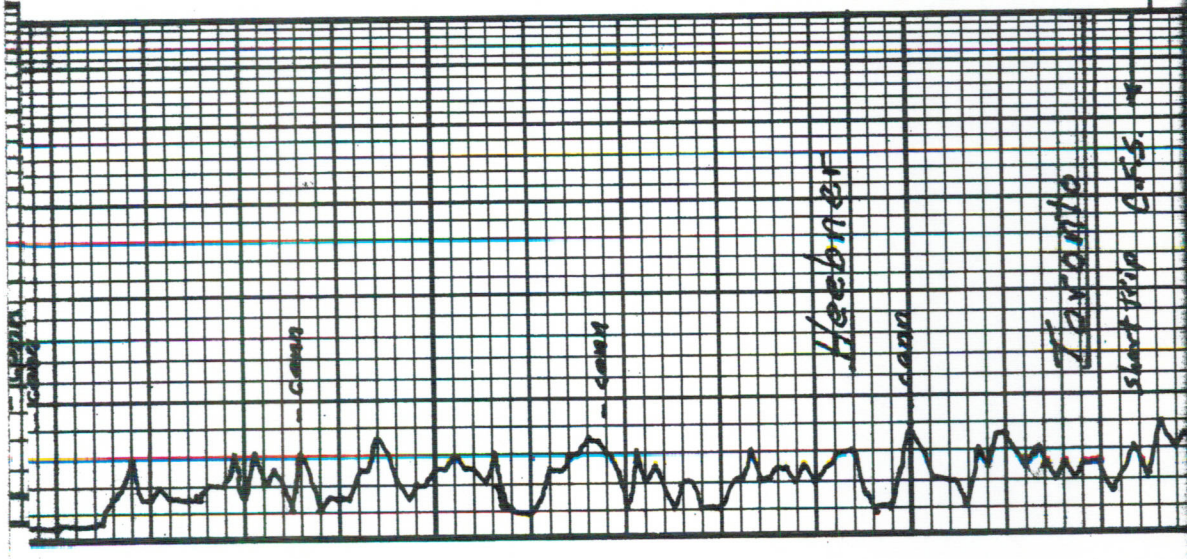
LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

LOG 7710

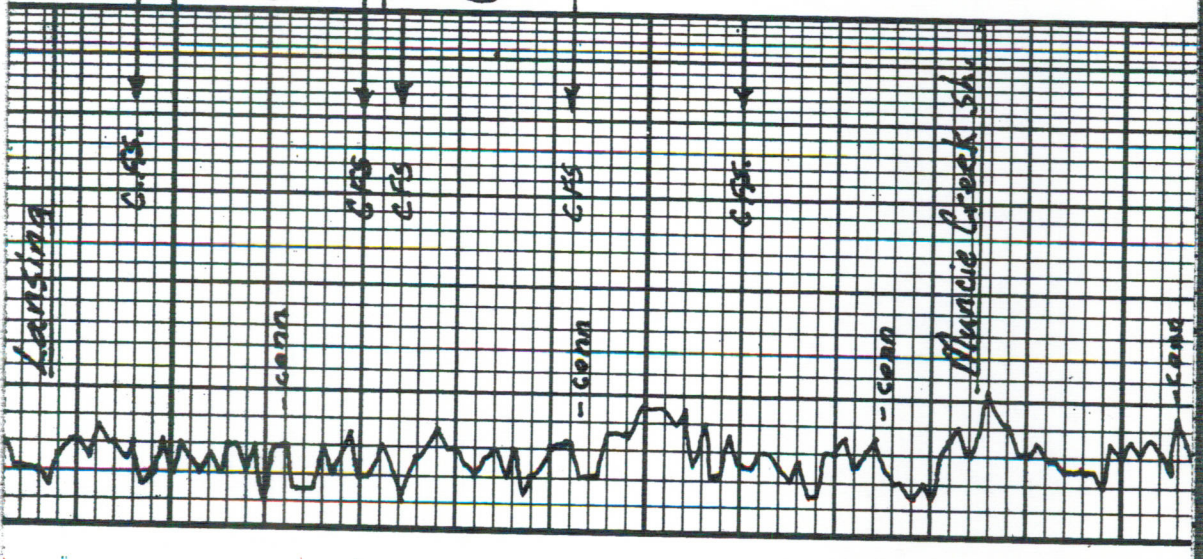


20	a.a. sh:brn slty LS: wh-trn fuln oöl ppφ N.S.O.
40	sh:brn slty LS: wh-trn cky-faln oöl ppφ N.S.O.
60	Tr: blk Carb. Sh. LS: gry fslf dms. LS: brn faln dms LS: wh-trn v. cky-faln Tr: oöl ppφ N.S.O.
80	LS: wh-trn cky-faln oöl vgyφ N.S.O. LS: wh-trn decr. cky-faln dms N.S.O.
3500	Sh: blk Carb LS: trn fslf dms sh: gry-brn sh: y sd brn
20	LS: wh-trn cky-sli-suc-faln ppφ N.S.O. Tr: dtr

Incline @ 3546' 3/4

Strap 3593.92
Board 3593.71
Diff. .21

Trilobite Testing
DST#1 3526'-3546'
30-30-0-0
IF: wk blow died in 20min.
TSZ: No blow
Recovery: 3' Mud
HYD: 1732-1728#
8-11#



Sh: brn + gry	LS: wh-tn sli. ckr-fxl. ool. sli. pyrit. Lt.-fr. 0 stn. nppp fully diss Oil on crushing fr. Lt rainbow s.o. No odor
Sh: brn	LS: wh-tn fxl. n. sli. ool. tr. ppp pr. lt. 0 stn fully diss on crushing Δ wh
Sh: brn + gry	LS: wh-tn fxl. n. sli. ool. ppp - 1/2 p dr. spds 0 stn pp floating E.O. No odor
Sh: brn	LS: wh-tn fxl. n. sli. ool. pyritic ppp tr. isal. vugs Thicketary 0 stn - asph Str- Δ wh. gry
Sh: gry, brn	LS: wh-tm. Lt. gry fxl. n. sli. fsh dns N.S.O.

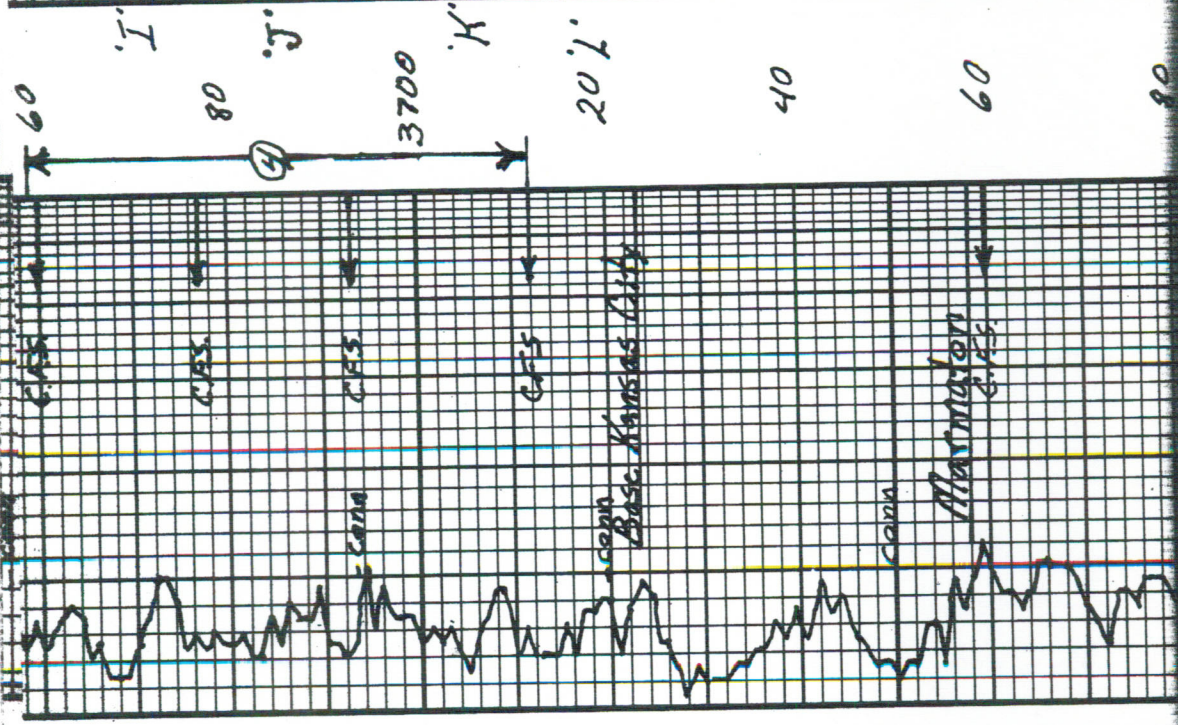
BHP: 42#
BHTemp: 89°F

DST #2 3550'-3570'
30-30-0-0
IF: wk blow died 1/15 min
ISI: No blow
Recovery: 5' Mud
Hyd: 1753-1730#
FP: 8-16#
BHP: 1176#
BHTemp: 88°F

DST #3 3572'-3592'
45-45-15-0
IF: wk blow incr. to 1 1/4"
ISI: No blow
FF: No blow
Recovery: 10' MW
50% m 50% w.
Hyd: 1744-1727#
FP: 7-19/20-22#
BHP: 1183#
BHTemp: 89°F

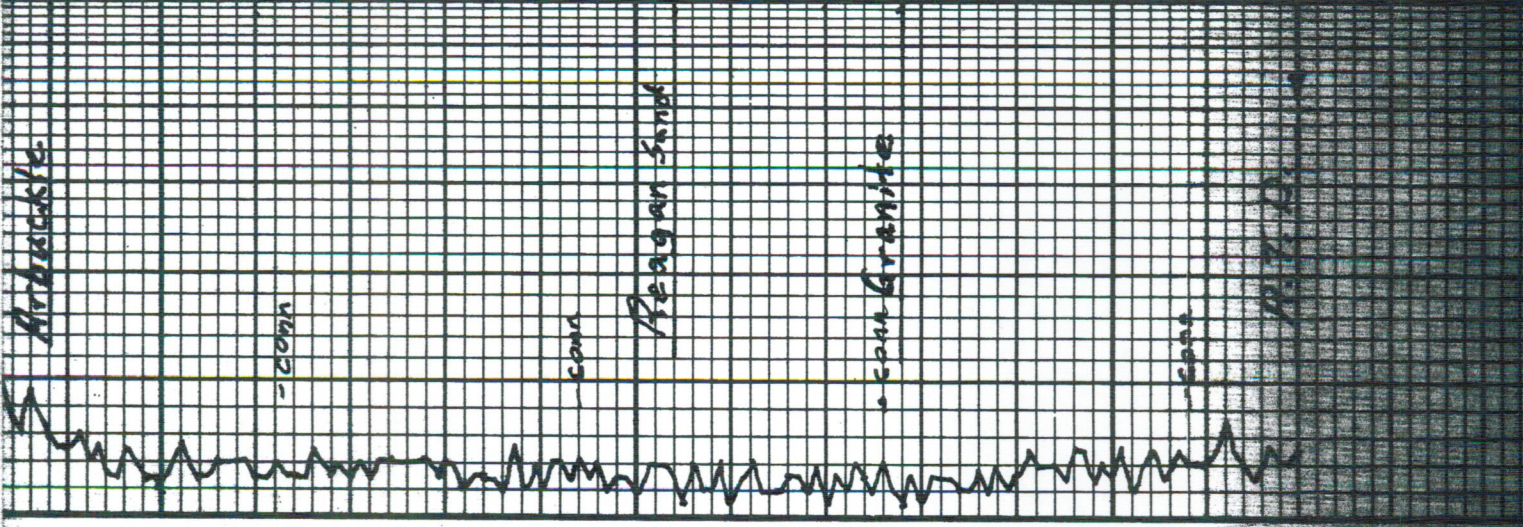
DST#4 3659-3712
 45-45-45-45
 IF: B.O.B. in 28 min.
 IST: wk blow in 20 min.
 FF: B.O.B. in 25 min.
 FSJ: wk blow in 20 min.
 Recovery: 206 B.P.
 232 Total Fluid
 50' MCO 90% O, 10% M
 62' MCO 60% O, 40% M
 120' OCM 40% O, 60% M
 Hyd: 1797-1794 ft
 FP: 23-72/78-98 ft
 BHP: 1143-1106 ft
 BH Temp: 93°F
 Gravity: 26° A.P.I

IT	DATA
	sh: gry, brn
	LS: tn fxl'n dns
	sh: brn
	LS: wk-tn sh: cky-fslf ppd in part of sh. f. o str pp drk brn f. o v. fl. odor
	sh: brn
	LS: tn fxl'n - fslf oil w abund fss. in clus. in part of fr d set fr. odor sh: brn
	LS: wk-tn cky-fxl'n sh: oil pp. ppd N.S.O.
	sh: brn, gry
	Tr. S. gry v. fn. gn consol in gran & N.S.O.
	LS: wk-tn sh: cky-fxl'n sub oil dns N.S.O.
	sh: brn stty
	LS: tn-vel fslf dns. N.S.O.
	sh: brn
	LS: wk-tn cky-fxl'n sub. oil dns asph spks



Base Kansas City
 Base Kansas City

Archie's



3800

20

40

60

80

3900

20

Dol: wh-tn feld in xln φ
glauc spks N.S.O.

Dol: wh-tn-pk mxln vgr φ
in xln φ glauc spks
N.S.O.

Dol: wh-tn-brn fxdn-mxln
in xln φ glauc spks N.S.O.

Dol: aa Qtz clr angular
r sl: rhd unconsol. N.S.O.
clr - sl: frasted
aa. incr lky

Dol. + Qtz aa
Increase Qtz ang. incr
Sub rnd. unconsol
N.S.O. incr frasted

SS aa mostly frasted
Tr ang - mostly sub rnd.

Quartz, biotite, feldspar

Qtz., biotite, felds.

q.a.

Qtz, felds, biotite



DRILL STEM TEST REPORT

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

113 W Main
Logan, KS 67649

ATTN: Rich Bell

27-3s-22w Norton,KS

Esslinger Ranch Inc #1-27

Start Date: 2013.03.04 @ 16:19:00

End Date: 2013.03.04 @ 20:43:30

Job Ticket #: 51206 DST #: 1

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

Printed: 2013.03.11 @ 13:07:22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51206 **DST#: 1**
Test Start: 2013.03.04 @ 16:19:00

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:10:45
Time Test Ended: 20:43:30
Interval: **3526.00 ft (KB) To 3546.00 ft (KB) (TVD)**
Total Depth: 3546.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2299.00 ft (KB)
2289.00 ft (CF)
KB to GR/CF: 10.00 ft

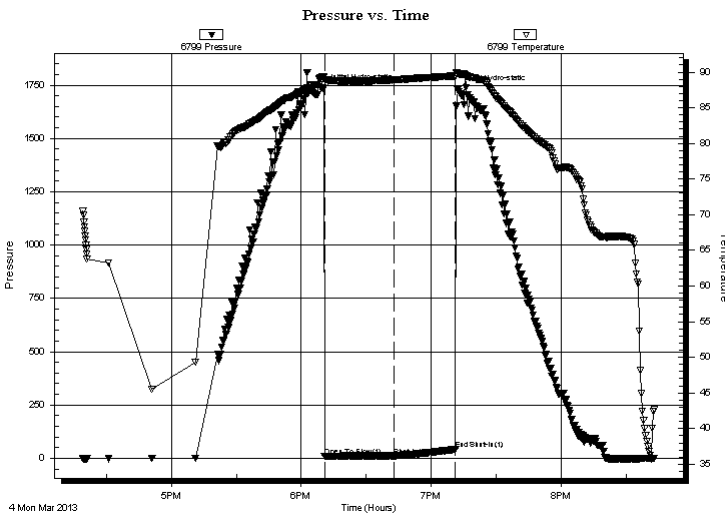
Serial #: 6799

Inside

Press @ Run Depth: 11.99 psig @ 3527.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.04 End Date: 2013.03.04 Last Calib.: 2013.03.04
Start Time: 16:19:05 End Time: 20:43:29 Time On Btm: 2013.03.04 @ 18:10:15
Time Off Btm: 2013.03.04 @ 19:12:15

TEST COMMENT: 30 - IF- 1/4" Blow died in 20 min.
30 - IS- No Return
Pulled tool after Initial Shut In

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1732.93	89.31	Initial Hydro-static
1	8.67	88.94	Open To Flow (1)
33	11.99	88.91	Shut-In(1)
61	42.51	89.47	End Shut-In(1)
62	1728.90	89.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100M	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51206 **DST#: 1**
Test Start: 2013.03.04 @ 16:19:00

Tool Information

Drill Pipe:	Length: 3410.00 ft	Diameter: 3.80 inches	Volume: 47.83 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.42 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3526.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 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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Change Over Sub	1.00			3506.00	
Shut In Tool	5.00			3511.00	
Hydraulic tool	5.00			3516.00	
Packer	5.00			3521.00	21.00 Bottom Of Top Packer
Packer	5.00			3526.00	
Stubb	1.00			3527.00	
Recorder	0.00	6799	Inside	3527.00	
Recorder	0.00	8648	Inside	3527.00	
Perforations	5.00			3532.00	
Perforations	9.00			3541.00	
Bullnose	5.00			3546.00	20.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51206 **DST#: 1**
Test Start: 2013.03.04 @ 16:19:00

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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100M	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:

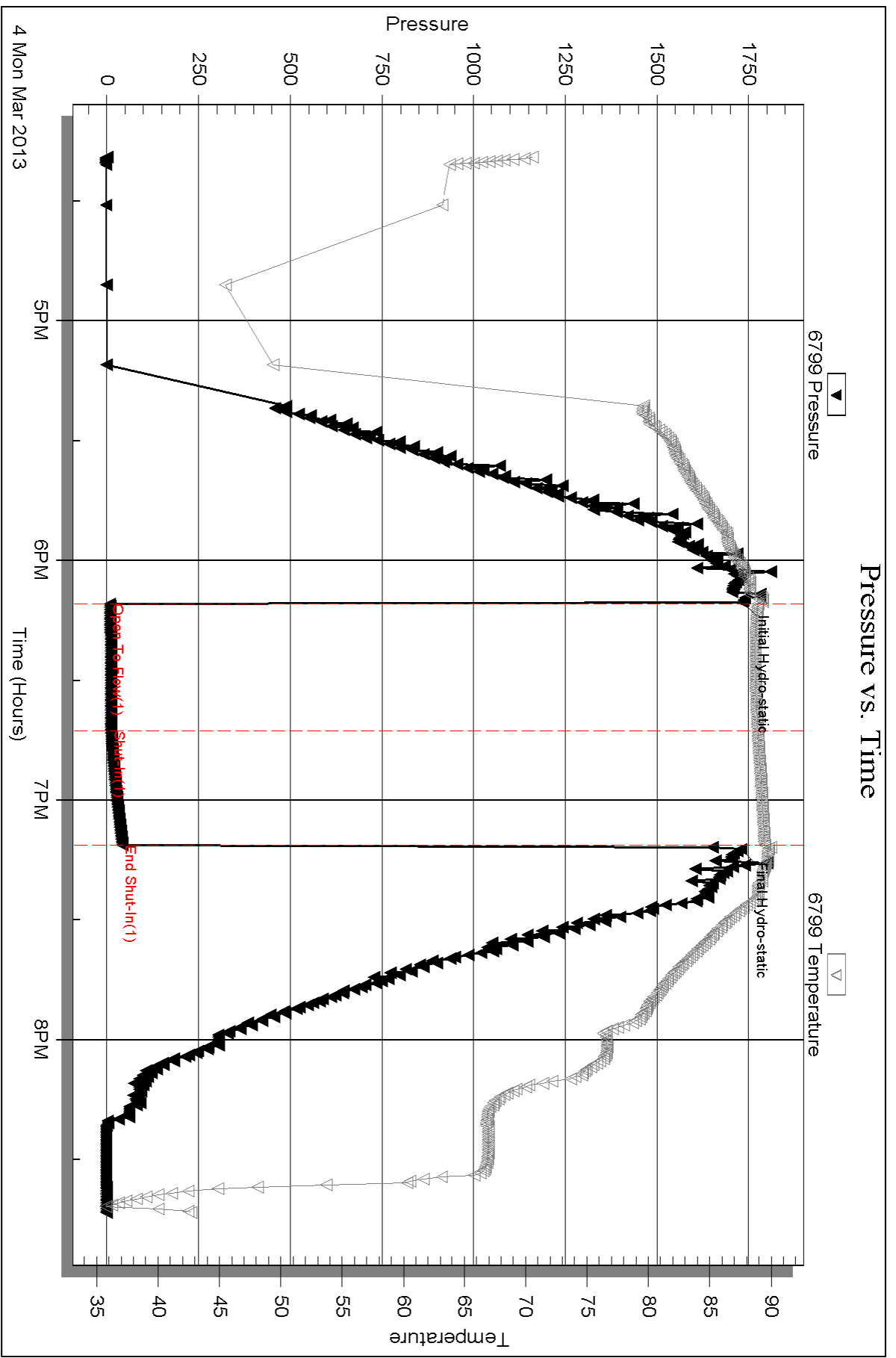
Serial #: 6799

Inside

Baird Oil Co., Inc

27-3s-22w Norton KS

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51206

Printed: 2013.03.11 @ 13:07:25

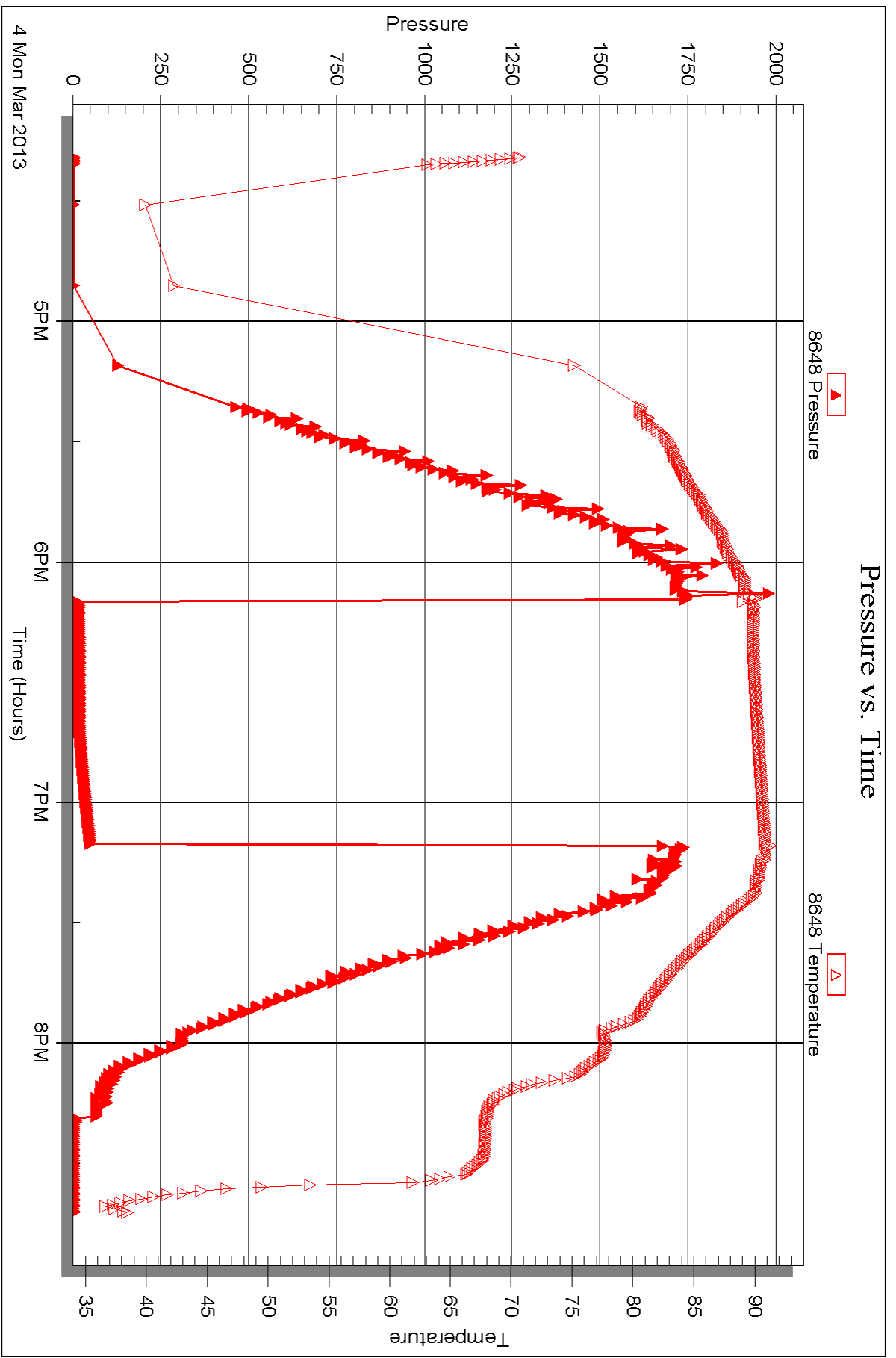
Serial #: 8648

Inside

Baird Oil Co., Inc

27-3s-22w Norton KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

113 W Main
Logan, KS 67649

ATTN: Rich Bell

27-3s-22w Norton,KS

Esslinger Ranch Inc #1-27

Start Date: 2013.03.05 @ 02:40:00

End Date: 2013.03.05 @ 08:33:45

Job Ticket #: 51207 DST #: 2

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

Printed: 2013.03.11 @ 13:05:55



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co., Inc
 113 W Main
 Logan, KS 67649
 ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
 Job Ticket: 51207 **DST#: 2**
 Test Start: 2013.03.05 @ 02:40:00

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 05:26:30
 Time Test Ended: 08:33:45
Interval: 3550.00 ft (KB) To 3570.00 ft (KB) (TVD)
 Total Depth: 3570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 43
 Reference Elevations: 2299.00 ft (KB)
 2289.00 ft (CF)
 KB to GR/CF: 10.00 ft

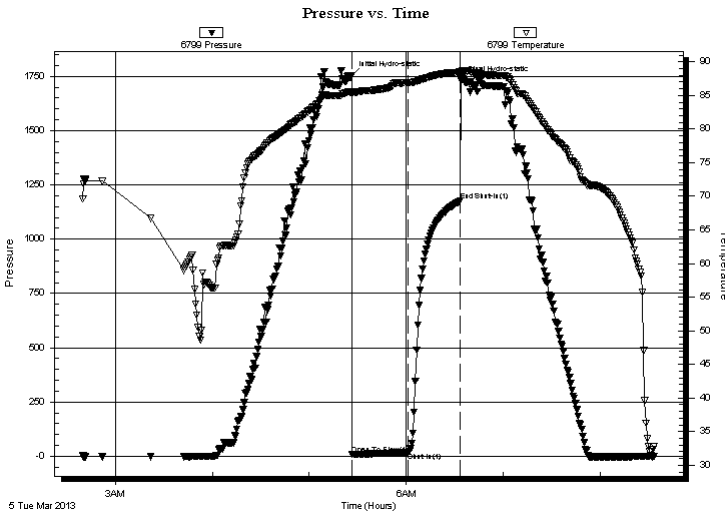
Serial #: 6799

Inside

Press @ RunDepth: 16.01 psig @ 3551.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.03.05 End Date: 2013.03.05 Last Calib.: 2013.03.05
 Start Time: 02:40:05 End Time: 08:33:44 Time On Btm: 2013.03.05 @ 05:26:00
 Time Off Btm: 2013.03.05 @ 06:34:00

TEST COMMENT: 30 - IF- 1/4" Blow died in 15 min
 30 - IS- No Return
 Pulled tool after Initial Shut In.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1753.61	85.52	Initial Hydro-static
1	8.35	85.38	Open To Flow (1)
35	16.01	86.90	Shut-In(1)
68	1176.29	88.50	End Shut-In(1)
68	1730.14	88.60	Final Hydro-static

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51207 **DST#: 2**
Test Start: 2013.03.05 @ 02:40:00

Tool Information

Drill Pipe:	Length: 3441.00 ft	Diameter: 3.80 inches	Volume: 48.27 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 48.86 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3550.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 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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Change Over Sub	1.00			3530.00	
Shut In Tool	5.00			3535.00	
Hydraulic tool	5.00			3540.00	
Packer	5.00			3545.00	21.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Recorder	0.00	6799	Inside	3551.00	
Recorder	0.00	8648	Inside	3551.00	
Perforations	5.00			3556.00	
Perforations	9.00			3565.00	
Bullnose	5.00			3570.00	20.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51207 **DST#: 2**
Test Start: 2013.03.05 @ 02:40:00

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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100M	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:

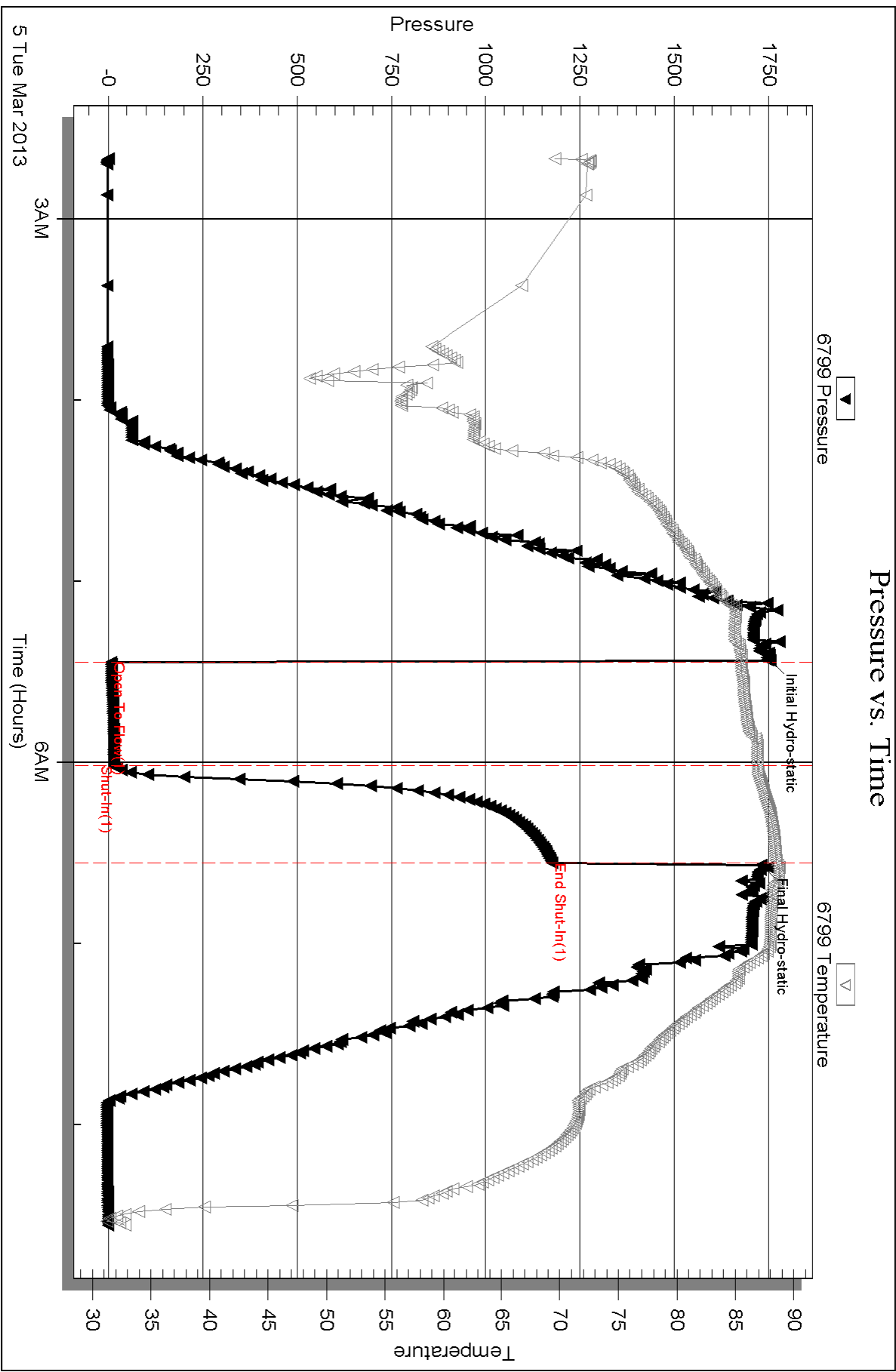
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Inside

Baird Oil Co., Inc

27-3s-22w Norton KS

DST Test Number: 2



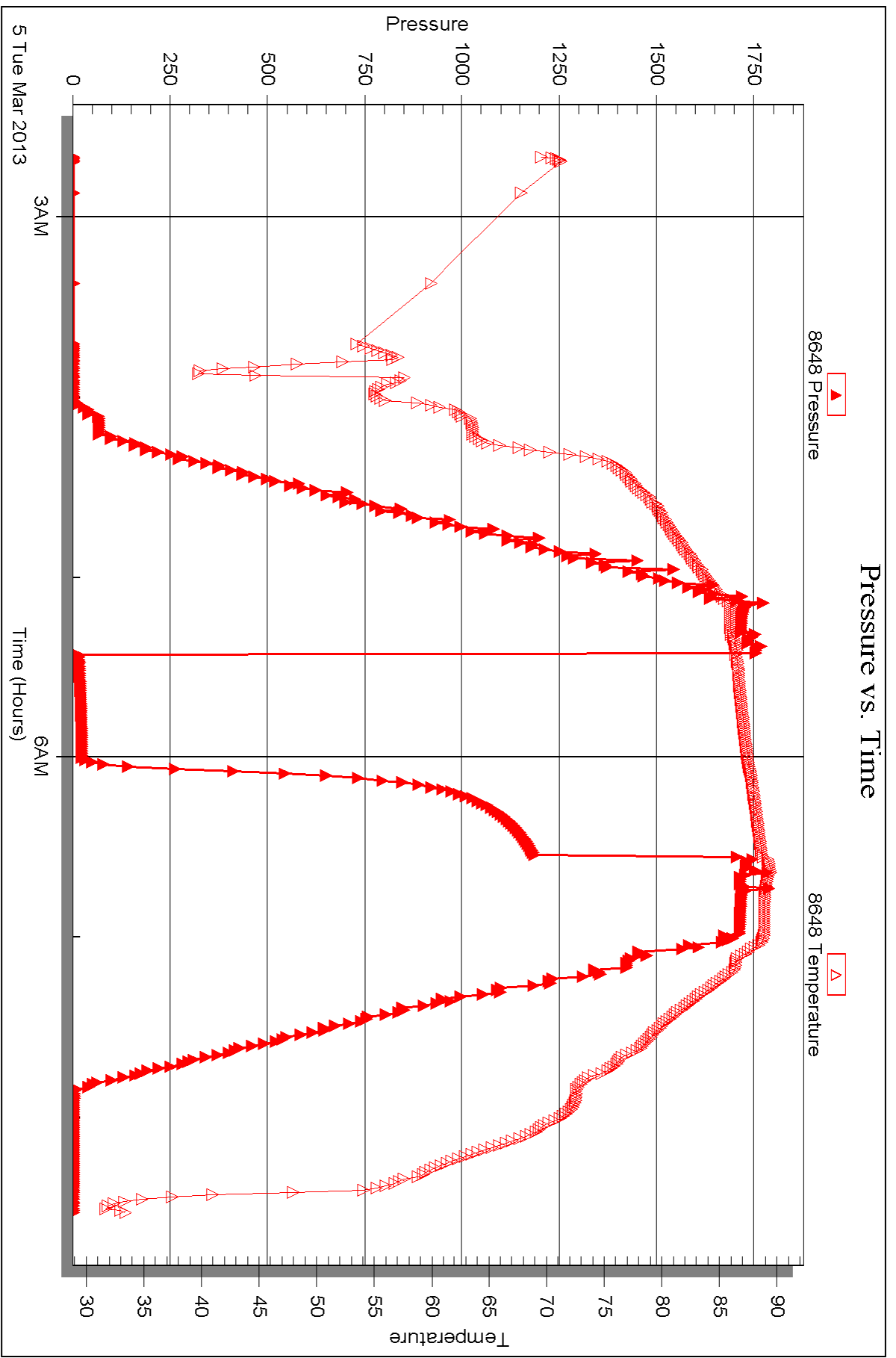
Serial #: 8648

Inside

Baird Oil Co., Inc

27-3s-22w Norton KS

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51207

Printed: 2013.03.11 @ 13:05:58



DRILL STEM TEST REPORT

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

113 W Main
Logan, KS 67649

ATTN: Rich Bell

27-3s-22w Norton,KS

Esslinger Ranch Inc #1-27

Start Date: 2013.03.05 @ 14:45:00

End Date: 2013.03.05 @ 19:28:45

Job Ticket #: 51208 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.11 @ 13:05:01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51208 **DST#: 3**
Test Start: 2013.03.05 @ 14:45:00

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:12:45
Time Test Ended: 19:28:45
Interval: **3672.00 ft (KB) To 3592.00 ft (KB) (TVD)**
Total Depth: 3592.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2299.00 ft (KB)
2289.00 ft (CF)
KB to GR/CF: 10.00 ft

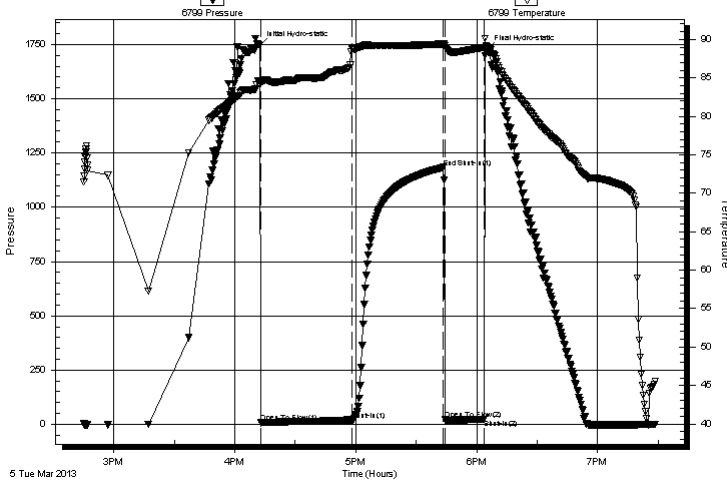
Serial #: 6799

Inside

Press @ Run Depth: 19.04 psig @ 3573.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.05 End Date: 2013.03.05 Last Calib.: 2013.03.05
Start Time: 14:45:05 End Time: 19:28:44 Time On Btm: 2013.03.05 @ 16:12:15
Time Off Btm: 2013.03.05 @ 18:05:00

TEST COMMENT: 45 - IF- Surface Blow built to 1 1/4"
45 - IS- No Return
15 - FF- No Blow
Pulled tool at end of Final Flow Period

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1744.36	84.68	Initial Hydro-static
1	7.02	84.27	Open To Flow (1)
46	19.04	88.76	Shut-In(1)
91	1183.45	89.41	End Shut-In(1)
92	20.57	89.15	Open To Flow (2)
112	22.76	88.98	Shut-In(2)
113	1727.69	88.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MW 50M 50W	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51208 **DST#: 3**
Test Start: 2013.03.05 @ 14:45:00

Tool Information

Drill Pipe:	Length: 3441.00 ft	Diameter: 3.80 inches	Volume: 48.27 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 48.86 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3572.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	41.00 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			3552.00	
Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Packer	5.00			3567.00	21.00 Bottom Of Top Packer
Packer	5.00			3572.00	
Stubb	1.00			3573.00	
Recorder	0.00	6799	Inside	3573.00	
Recorder	0.00	8648	Inside	3573.00	
Perforations	14.00			3587.00	
Bullnose	5.00			3592.00	20.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51208 **DST#: 3**
Test Start: 2013.03.05 @ 14:45:00

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:	30000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MW 50M 50W	0.049

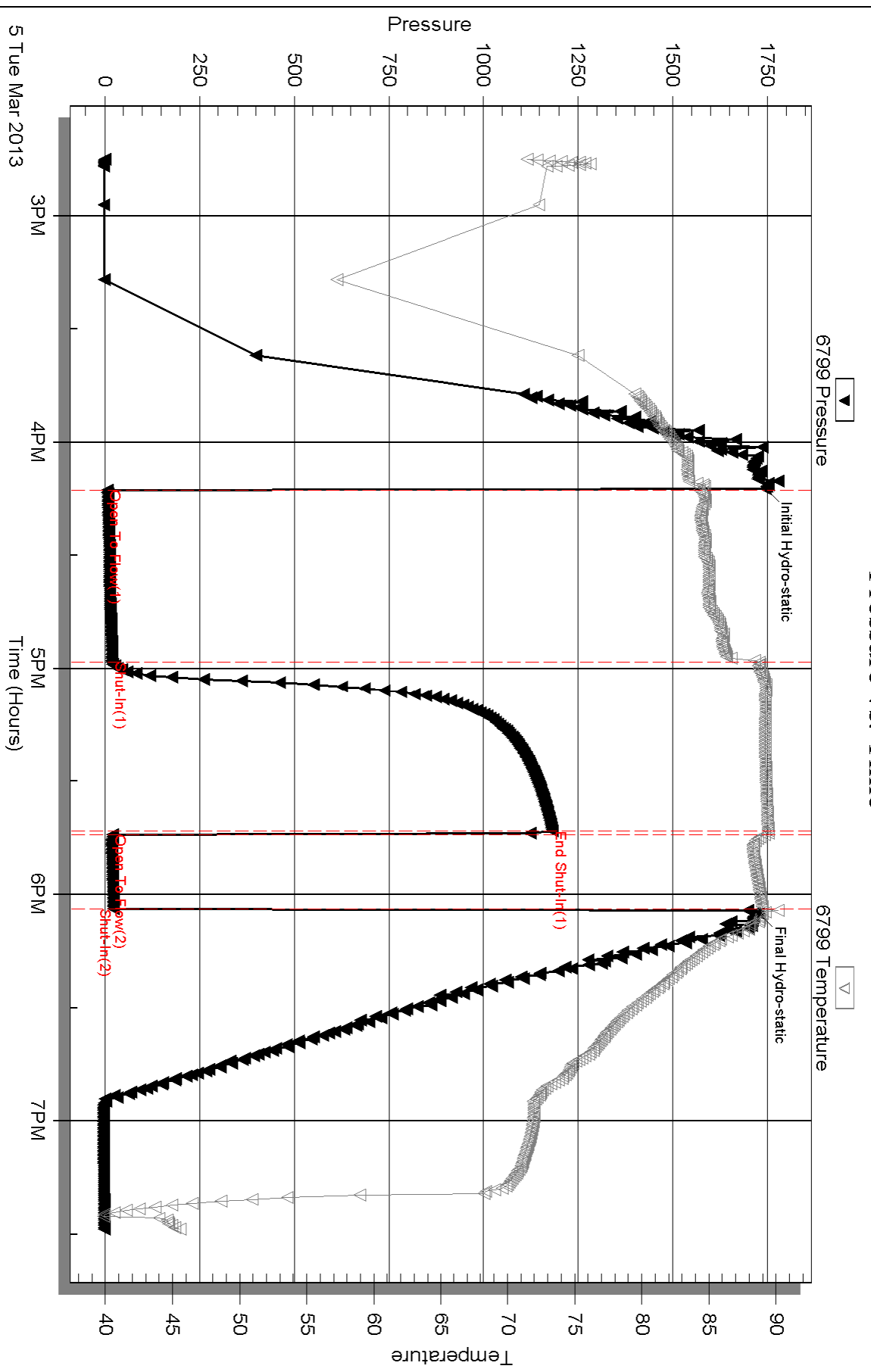
Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .28 @ 62 deg = 30,000ppm

Pressure vs. Time



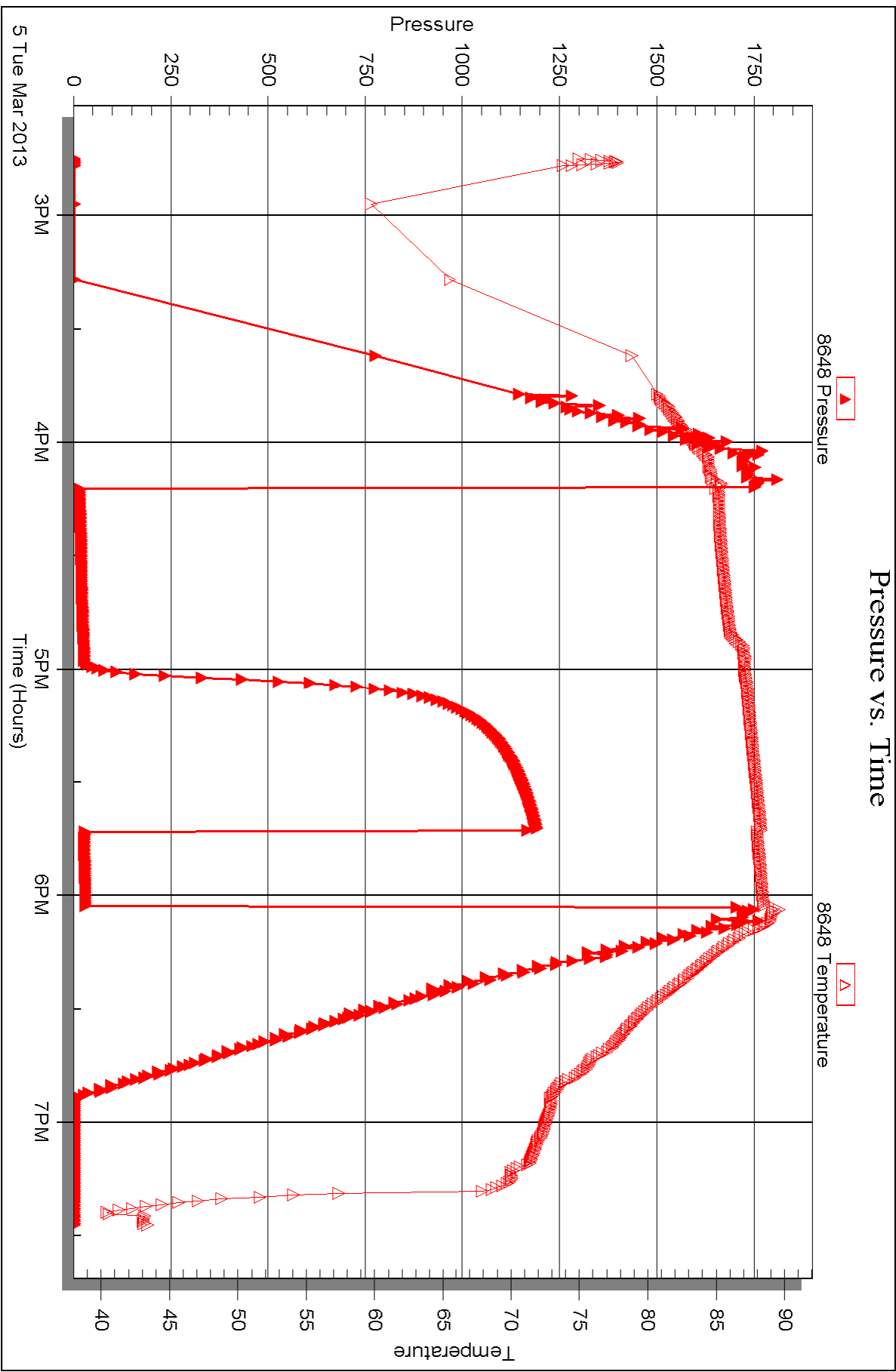
Serial #: 8648

Inside

Baird Oil Co., Inc

27-3s-22w Norton KS

DST Test Number: 3





DRILL STEM TEST REPORT

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

113 W Main
Logan, KS 67649

ATTN: Rich Bell

27-3s-22w Norton,KS

Esslinger Ranch Inc #1-27

Start Date: 2013.03.06 @ 10:30:00

End Date: 2013.03.06 @ 17:23:00

Job Ticket #: 51209 DST #: 4

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

Printed: 2013.03.11 @ 13:03:26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51209 **DST#: 4**
Test Start: 2013.03.06 @ 10:30:00

GENERAL INFORMATION:

Formation: **LKC "J-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:27:30
Time Test Ended: 17:23:00
Interval: **3659.00 ft (KB) To 3712.00 ft (KB) (TVD)**
Total Depth: 3712.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2299.00 ft (KB)
2289.00 ft (CF)
KB to GR/CF: 10.00 ft

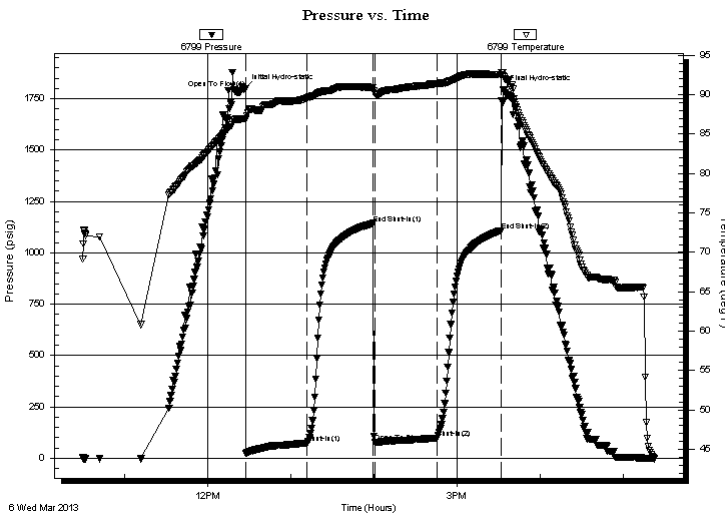
Serial #: 6799

Inside

Press @ Run Depth: 98.55 psig @ 3660.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.06 End Date: 2013.03.06 Last Calib.: 2013.03.07
Start Time: 10:30:05 End Time: 17:22:59 Time On Btm: 2013.03.06 @ 12:27:00
Time Off Btm: 2013.03.06 @ 15:33:30

TEST COMMENT: 45 - IF- BoB in 28 min
45 - IS- Surface Return built to 1"
45 - FF- BoB in 25 min
45 - FS- Surface Return built to 2 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.55	86.94	Initial Hydro-static
1	1799.95	86.94	Open To Flow (1)
45	72.79	89.55	Shut-In(1)
93	1143.02	90.93	End Shut-In(1)
94	78.59	90.15	Open To Flow (2)
139	98.55	91.40	Shut-In(2)
185	1106.93	92.54	End Shut-In(2)
187	1794.06	92.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCM 40o 60M	0.59
62.00	MCO 60M 40o	0.87
50.00	MCO 10M 90o	0.70
0.00	206' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51209 **DST#: 4**
Test Start: 2013.03.06 @ 10:30:00

Tool Information

Drill Pipe:	Length: 3528.00 ft	Diameter: 3.80 inches	Volume: 49.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 50.08 bbl		Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3659.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3639.00	
Shut In Tool	5.00			3644.00	
Hydraulic tool	5.00			3649.00	
Packer	5.00			3654.00	21.00 Bottom Of Top Packer
Packer	5.00			3659.00	
Stubb	1.00			3660.00	
Recorder	0.00	6799	Inside	3660.00	
Recorder	0.00	8648	Inside	3660.00	
Perforations	14.00			3674.00	
Change Over Sub	1.00			3675.00	
Drill Pipe	31.00			3706.00	
Change Over Sub	1.00			3707.00	
Bullnose	5.00			3712.00	53.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., Inc
113 W Main
Logan, KS 67649
ATTN: Rich Bell

Esslinger Ranch Inc #1-27
27-3s-22w Norton,KS
Job Ticket: 51209 **DST#: 4**
Test Start: 2013.03.06 @ 10:30:00

Mud and Cushion Information

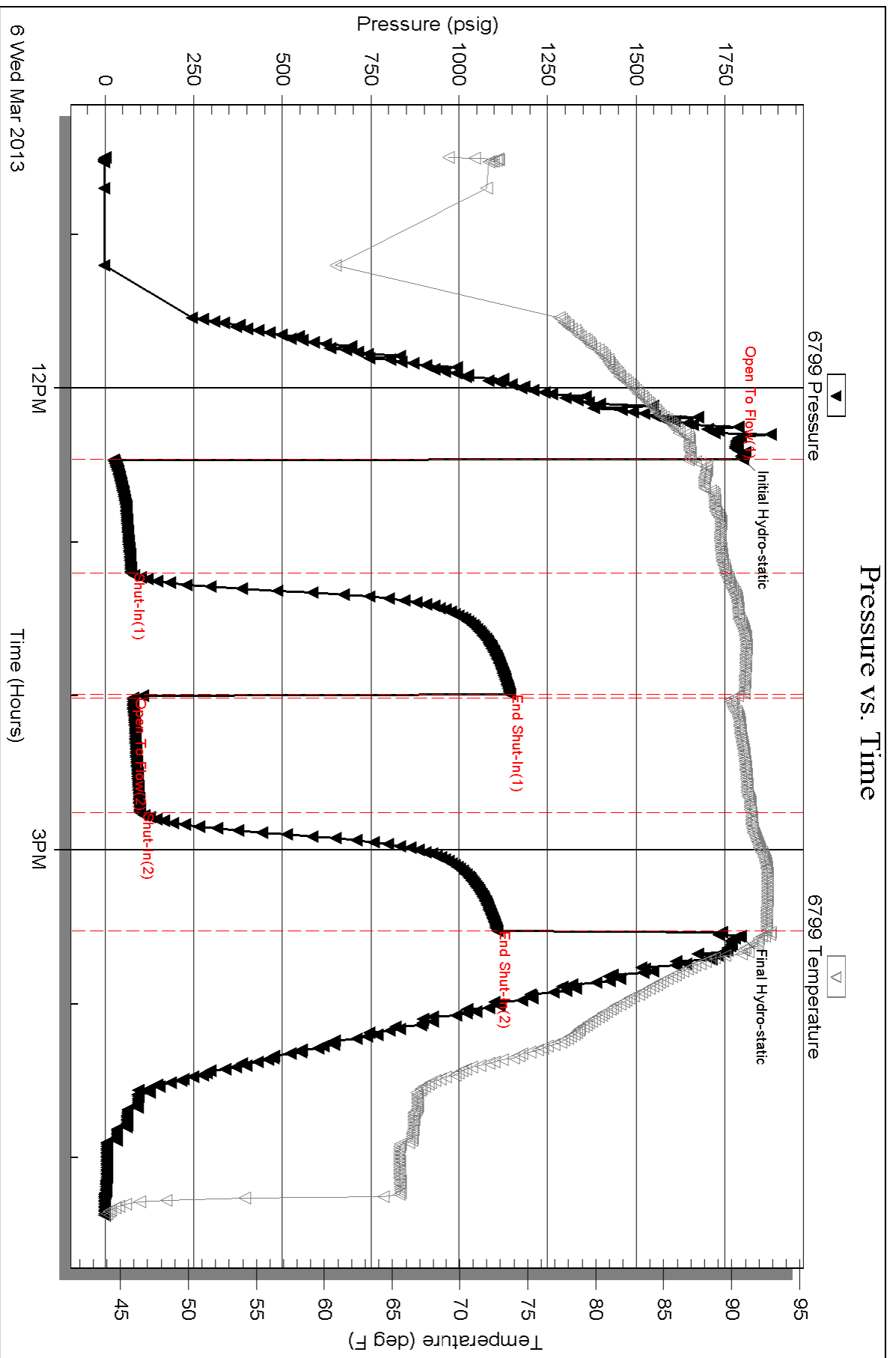
Mud Type: Gel Chem	Cushion Type:	Oil API: 26 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OCM 40o 60M	0.590
62.00	MCO 60M 40o	0.870
50.00	MCO 10M 90o	0.701
0.00	206' GIP	0.000

Total Length: 232.00 ft Total Volume: 2.161 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Oil API= 27@70 = 26cor



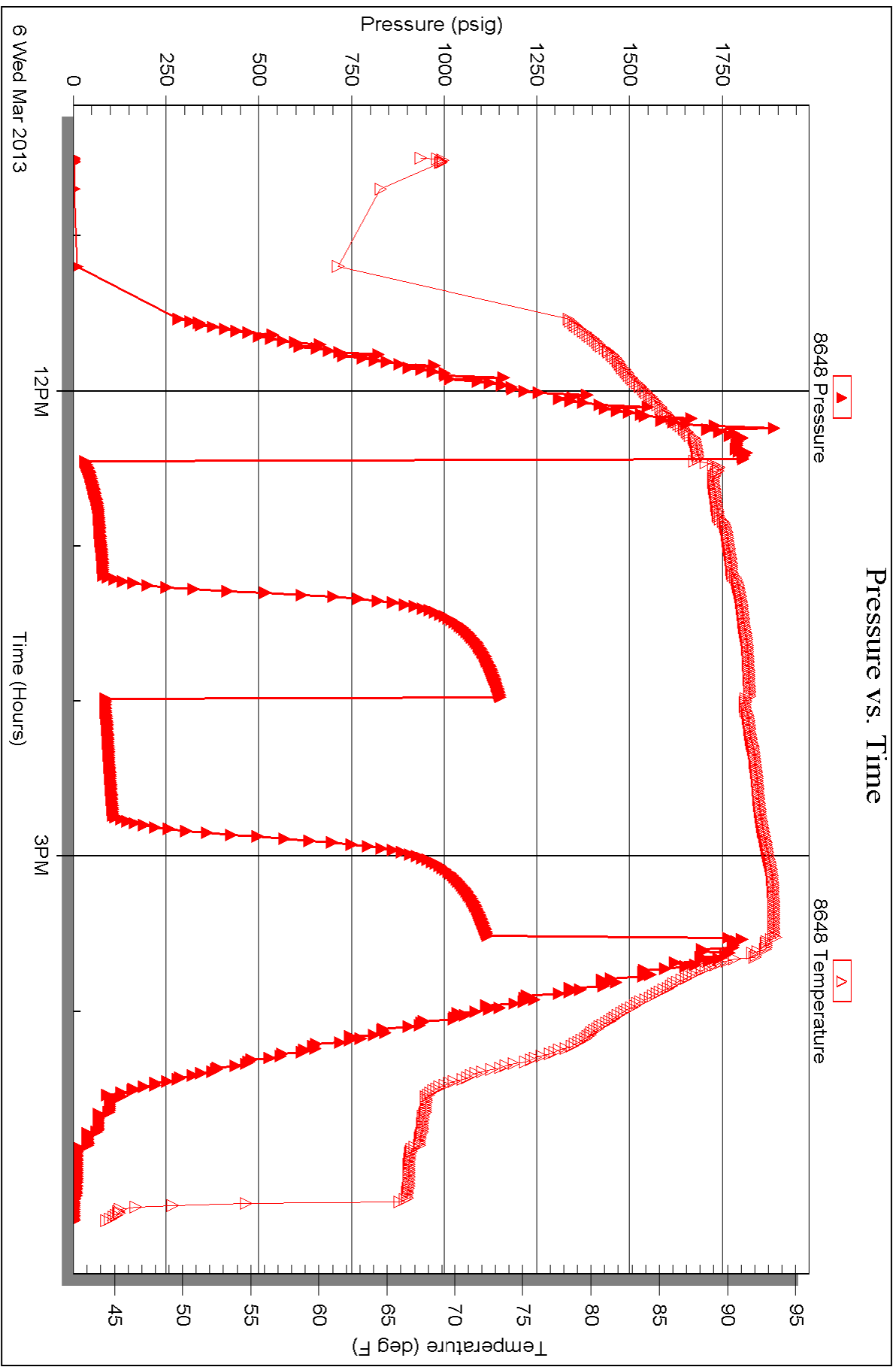
Serial #: 8648

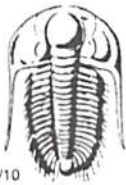
Inside

Baird Oil Co., Inc

27-3s-22w Norton KS

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51206

Well Name & No. Essinger Ranch, Inc. #1-27 Test No. 1 Date 3-4-13
 Company Beird Oil Co., Inc. Elevation 2299 KB 2289 GL
 Address 113 W Main Logan, KS 67649
 Co. Rep / Geo. Rich Bell Rig WW#12
 Location: Sec. 27 Twp. 3S Rge. 22W Co. Norton State KS

Interval Tested 3526-3546 Zone Tested LKC "A"
 Anchor Length 20' Drill Pipe Run 3410 Mud Wt. 9.0
 Top Packer Depth 3522 Drill Collars Run 120' Vis 62
 Bottom Packer Depth 3526 Wt. Pipe Run 0 WL 6.4
 Total Depth 3546 Chlorides 1600 ppm System LCM 1#

Blow Description IF - 1/4" Blow died in 20 min.
ISI - NO Return
FF - Pulled tool after initial shut in.
FST - N/A

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</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

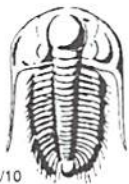
Rec Total 3 BHT 89 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1732 Test 1150 T-On Location 3:50 PM
 (B) First Initial Flow 8 Jars _____ T-Started 4:19 PM
 (C) First Final Flow 11 Safety Joint _____ T-Open 6:12 PM
 (D) Initial Shut-In 42 Circ Sub N/C T-Pulled 7:12 PM
 (E) Second Initial Flow - Hourly Standby _____ T-Out 8:44 PM
 (F) Second Final Flow - Mileage 93 RT 144.15 Comments _____
 (G) Final Shut-In - Sampler _____
 (H) Final Hydrostatic 1728 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow -
 Final Shut-In -
 Sub Total 1294.15
 Total 1294.15
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51207

Well Name & No. Esslinger Ranch, Inc #1-27 Test No. 2 Date 3-5-13
 Company Baird Oil Co., Inc. Elevation 2299 KB 2289 GL
 Address 113 W Main Logan, KS 67649
 Co. Rep / Geo. Rich Bell Rig WW#12
 Location: Sec. 27 Twp. 3S Rge. 22W Co. Norton State KS

Interval Tested 3550-3570 Zone Tested LKC "C"
 Anchor Length 20 Drill Pipe Run 3441 Mud Wt. 9.00
 Top Packer Depth 3546 Drill Collars Run 120 Vis 62
 Bottom Packer Depth 2550 Wt. Pipe Run 0 WL 6.4
 Total Depth 3570 Chlorides 1,600 ppm System LCM 1#

Blow Description IF - 1/4" Blow direct in 15 min.
ISI - No Return
FF - pulled tool after Initial Shut In.
FSI - N/A

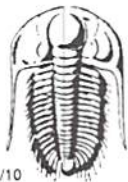
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>1000</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 88 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic	<u>1753</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location	<u>2:15 AM</u>
(B) First Initial Flow	<u>8</u>	<input type="checkbox"/> Jars	T-Started	<u>2:40 AM</u>
(C) First Final Flow	<u>16</u>	<input type="checkbox"/> Safety Joint	T-Open	<u>5:30 AM</u>
(D) Initial Shut-In	<u>1176</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled	<u>6:30 AM</u>
(E) Second Initial Flow	<u>-</u>	<input type="checkbox"/> Hourly Standby	T-Out	<u>8:35 AM</u>
(F) Second Final Flow	<u>-</u>	<input checked="" type="checkbox"/> Mileage <u>93 RT</u> 144.15	Comments	
(G) Final Shut-In	<u>-</u>	<input type="checkbox"/> Sampler		
(H) Final Hydrostatic	<u>1730</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies	
Final Flow	<u>-</u>	<input type="checkbox"/> Extra Recorder	Sub Total	<u>0</u>
Final Shut-In	<u>-</u>	<input type="checkbox"/> Day Standby	Total	<u>1294.15</u>
		<input type="checkbox"/> Accessibility	MP/DST Disc't	
		Sub Total		<u>1294.15</u>

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51208

Well Name & No. Esslinger Ranch, Inc #1-27 Test No. 3 Date 3-5-13
 Company Beard Oil Co, Inc. Elevation 2299 KB 2289 GL
 Address 113 W Main Logan KS 67649
 Co. Rep / Geo. Rich Bell Rig WW#12
 Location: Sec. 27 Twp. 3S Rge. 22W Co. Norton State KS

Interval Tested 3572-3592 Zone Tested LKC "D"
 Anchor Length 20 Drill Pipe Run 3441 Mud Wt. 9.1
 Top Packer Depth 3568 Drill Collars Run 120 Vis 55
 Bottom Packer Depth 3572 Wt. Pipe Run 0 WL 6.8
 Total Depth 3592 Chlorides 1900 ppm System LCM 1#

Blow Description IF- Surface Blow built to 1 1/4"
ISI- NO Return
FF- NO Blow
FSE- Pulled tool after final flow period

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MW</u>		<u>50</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 89 Gravity - API RW 28 @ 62 ° F Chlorides 30,000 ppm

(A) Initial Hydrostatic 1744 Test 1150 T-On Location 2:30 PM
 (B) First Initial Flow 7 Jars T-Started 2:45 PM
 (C) First Final Flow 19 Safety Joint T-Open 4:15 PM
 (D) Initial Shut-In 1183 Circ Sub N/C T-Pulled 6:00 AM
 (E) Second Initial Flow 20 Hourly Standby T-Out 7:30 PM
 (F) Second Final Flow 22 Mileage 93RT 144.15
 (G) Final Shut-In - Sampler
 (H) Final Hydrostatic 1727 Straddle

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open 45
 Initial Shut-In 45
 Final Flow 15
 Final Shut-In -
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1294.15
 Sub Total 1294.15

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51209

Well Name & No. Esslinger Ranch #1-27 Test No. 4 Date 3-6-13
 Company Beird Oil Co., Inc. Elevation 2249 KB 2289 GL
 Address 113 W Main Logan, KS 67649
 Co. Rep / Geo. Rich Bell Rig Low #12
 Location: Sec. 27 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3659-3712 Zone Tested LKC "J-K"
 Anchor Length 53 Drill Pipe Run 3528 Mud Wt. 9.1
 Top Packer Depth 3655 Drill Collars Run 120' Vis 56
 Bottom Packer Depth 3659 Wt. Pipe Run 0 WL 6.4
 Total Depth 3712 Chlorides 2,000 ppm System LCM 1.5#

Blow Description IF - BoB in 28 min.
ISI - Surface Return Built to 1"
FF - BoB in 25 min.
FBI - Surface Return Built to 2 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>MCO</u>	<u>90</u>		<u>10</u>	
<u>62</u>	<u>MCO</u>	<u>60</u>		<u>40</u>	
<u>120</u>	<u>OCM</u>	<u>40</u>		<u>60</u>	
<u>0</u>	<u>206' GIP</u>	<u>100</u>			

Rec Total 232 BHT 93 Gravity 26 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1797 Test 1150 T-On Location 9:50 AM
 (B) First Initial Flow 23 Jars T-Started 10:30 AM
 (C) First Final Flow 72 Safety Joint T-Open 12:30 PM
 (D) Initial Shut-In 1143 Circ Sub N/C T-Pulled 3:30 PM
 (E) Second Initial Flow 78 Hourly Standby T-Out 6:40 PM
 (F) Second Final Flow 98 Mileage 93 RT x2 288.30 Comments 206' GIP
 (G) Final Shut-In 1106 Sampler Loaded tools @
 (H) Final Hydrostatic 1794 Straddle 3:00 PM 3-7-13
 Ruined Shale Packer
 Ruined Packer
 Extra Copies

Initial Open 45 Shale Packer
 Initial Shut-In 45 Extra Packer
 Final Flow 45 Extra Recorder
 Final Shut-In 45 Day Standby
 Accessibility
 Sub Total 1438.30 Total 1438.30 MP/DST Disc't

Approved By _____ Our Representative

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