



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1136036  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

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

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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



1136036

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](mailto: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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	Esslinger Ranch Inc 3-27
Doc ID	1136036

Tops

Name	Top	Datum
Anhydrite	2038	+321
Base Anhydrite	2068	+291
Topeka	3351	-992
Heebner	3557	-1198
Toronto	3583	-1224
Lansing	3600	-1241
Base Kansas City	3788	-1429
Marmaton	3824	-1465
Arbuckle	3854	-1495
Wea Granite	3962	-1603
Total Depth	3988	-1629

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 22, 2013

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

Re: ACO1  
API 15-137-20644-00-00  
Esslinger Ranch Inc 3-27  
NE/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



Services, Inc.

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



## Invoice

DATE	INVOICE #
4/11/2013	23972

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	#3-27	Esslinger Ra...	Norton	WW Drilling #12	Oil	Development	Surface Pipe	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	6.00	480.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.) - 263 Feet				1	Job	1,000.00	1,000.00
290	D-Air				2	Gallon(s)	35.00	70.00T
325	Standard Cement				165	Sacks	13.50	2,227.50T
278	Calcium Chloride				5	Sack(s)	40.00	200.00T
279	Bentonite Gel				3	Sack(s)	25.00	75.00T
581D	Service Charge Cement				165	Sacks	2.00	330.00
583D	Drayage				648.5	Ton Miles	1.00	648.50
	Subtotal							5,031.00
	Sales Tax Norton County						7.05%	181.36
	<p>R 4/16/13 P 4/16/13 Esslin 27 190402 5212.36 Esslinger Ranch Inc 3-27- pump charge, cement, and other misc used to cement surface casing</p>							

**We Appreciate Your Business!**

**Total**

\$5,212.36



CHARGE TO: Bell-1 Oil Co  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
 No 23972

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Hays, KS WEL/PROJECT NO. 3-227 LEASE Eslinger Ranch COUNTY/PARISH Norton STATE KS CITY  
 2. Ness City, KS CONTRACTOR W W D-1's RIG NAME/NO. 4/12 SHIPPED DELIVERED TO Location ORDER NO.  
 3. WEL TYPE SALES WEL CATEGORY Development JOB PURPOSE Surface Pipe WEL PERMIT 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		1			MILEAGE #111	80 mi				6.00	480.00
576S		1			Ramp Charge (Shallow Surface)	1 ton		263		1000.00	1000.00
290					D-Air	2 gal				35.00	70.00
325		2			Standard Cement	165 bks				13.00	2227.50
278		2			Colcium Chloride	5 bks				40.00	200.00
279		2			Bentonite gel	3 bks				25.00	75.00
581		2			Cement Service Charge	165 bks				2.00	330.00
583		2			Drayage	698.5 T/M				1.00	698.50

**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 4-11-13 TIME SIGNED 1610  A.M.  P.M.

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

**SURVEY**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO

WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO

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

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 5031.00  
 TAX 181.3  
 TOTAL 5212.3

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



# SWIFT



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

## Invoice

DATE	INVOICE #
4/17/2013	24046

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	#3-27	Esslinger Ra...	Norton	WW Drilling	Oil	Development	PTA	Josh
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	6.00	480.00
576D-P	Pump Charge - PTA				1	Job	1,000.00	1,000.00
290	D-Air				3	Gallon(s)	35.00	105.00T
410-8	8 5/8" Top Plug				1	Each	100.00	100.00T
276	Flocele				75	Lb(s)	2.00	150.00T
328-4	60/40 Pozmix (4% Gel)				255	Sacks	11.50	2,932.50T
581D	Service Charge Cement				255	Sacks	2.00	510.00
583D	Drayage				858.78	Ton Miles	1.00	858.78
	Subtotal							6,136.28
	Sales Tax Norton County						7.05%	231.77
	<p>R 4/22/13 P 4/22/13 Essl.n27 190402 6368.05 Esslinger Ranch Inc 3-27 - pump charge, cement, and other misc expenses used to plug well.</p>							

**We Appreciate Your Business!**

**Total**

\$6,368.05





TICKET  
No 24046

PAGE 1 OF 4

CHARGE TO: Beard O:1  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

1. SERVICE LOCATIONS	WELL/PROJECT NO. <u>327</u>	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
	<u>Hays/KS</u>	<u>Esslinger Ranch</u>	<u>Norton</u>	<u>KS</u>	<u>Location</u>	<u>4-17-13</u>	
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>W W</u>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE <u>0:1</u>	WELL CATEGORY <u>Developer</u>	<u>12</u>	<u>CT</u>	<u>Location</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS	JOB PURPOSE <u>PTA</u>	WELL PERMIT NO.	WELL LOCATION <u>Sec 27, Twp 35, R 22 W</u>		

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575		1			112	80	m	6	00	6.00	480.00	
576 P		1			Pump Charge	1	ea	1000	00	1000.00	1000.00	
290		1			O Ar	3	gal	3500	00	3500.00	10500.00	
410		1			TOP Plug	1	ea	858	78	100.00	100.00	
276		2			Pro cele	75	lbs			2.00	150.00	
328.4		2			60/40 Potmix	255	SKS			11.50	2932.50	
581		2			Service Charge Leman	255	SKS			2.00	510.00	
583		2			Dray age	858	78	TM		1.00	858.78	

**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: 4-17-13 TIME SIGNED: 1030  A.M.  P.M.

**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: ph ch APPROVAL: \_\_\_\_\_

CUSTOMER DID NOT WISH TO RESPOND

**SURVEY**  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO  
 WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO  
 ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

**TOTAL** 6368.00

**TAX** 7.05%

**TOTAL** 2317.7

**PAGE TOTAL** 6136

**TOTAL** 28

Thank You

**JOB LOG**

**SWIFT Services, Inc.**

DATE 4-17-13 PAGE NO.

CUSTOMER Baird 001 WELL NO. 3-27 LEASE Esslinger Ranch JOB TYPE PTA TICKET NO. 24046

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							on location
	1130		5	✓				1st plug @ 3830 50 sks
			13	✓				Start H <sub>2</sub> O
			2	✓				Start cement
			50	✓				Start H <sub>2</sub> O
								Pump Mod 7 min
	1245		5	✓				2nd plug @ 2055 25 sks
			6.5					Start H <sub>2</sub> O
			2	✓				Start cement
			27	✓				Start H <sub>2</sub> O
								Pump Mod 2.5 min
	1330		9	✓				3rd Plug @ 1285 100 sks
			26	✓				Start H <sub>2</sub> O
			3	✓				Start cement
								Start H <sub>2</sub> O
	1400		11	✓				4th Plug @ 315 40 sks
								Start cement 40 sk
	1445		8					Plug Rat Hole 30 sks
	<del>1445</del>		<del>X</del>					Push Plug Down to 40'
	1450		3					TOP off 10 sks
	1600							Job Complete Thank You Josh, Brian, Bob

A.P.T. # 15-137-20644-0000

GEOLOGICAL REPORT  
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.  
LEASE Esslinger Ranch, Inc. # 3-27  
FIELD Wildcat  
LOCATION 2000' FNL + 1480' FEL  
SEC 27 TWSP 3S RGE 22W  
COUNTY Norton STATE Kansas

ELEVATION  
KB 2359'  
DF 2357'  
GL 2351'  
Depths Measured From  
Log KB Drilling KB

CONTRACTOR W/W Drilling Rig #12  
SPUD 4-11-13 COMP 4-17-13  
SAMPLES SAVED FROM 3300' TO R.T.D

CASING  
Surface 8 5/8" @ 262'  
Production None  
ELECTRIC LOGS  
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM E. 129	A	B	C	D
				●	●		
Anhydrite	2039	2038	+ 321	+ 320	+ 319		
Base Anhydrite	2068	2068	+ 291	+ 292	+ 288		
Topeka	3351	3351	- 992	- 987	- 987		
Heebner	3557	3557	- 1198	- 1190	- 1195		
Toronto	3583	3583	- 1224	- 1216	- 1220		
Lansing	3600	3600	- 1241	- 1234	- 1239		
Base Kansas City	3788	3788	- 1429	- 1418	- 1424		
Marmaton	3824	3824	- 1465				
Arbuckle	3854	3854	- 1495	- 1487	- 1489		
Wea Granite	3962	3962	- 1603	- 1572	- 1579		
Total Depth	3988	3988	- 1629	- 1601	- 1621		

REFERENCE WELLS



- A Baird Oil Co. Inc., Esslinger Ranch, Inc. # 2-27, 2015' ESL + 2235' EWL Sec 27
  - B Baird Oil Co. Inc., Esslinger Ranch, Inc. # 1-27, 735' ESL + 2545' FEL Sec 27
  - C
  - D
- 3.5-22W

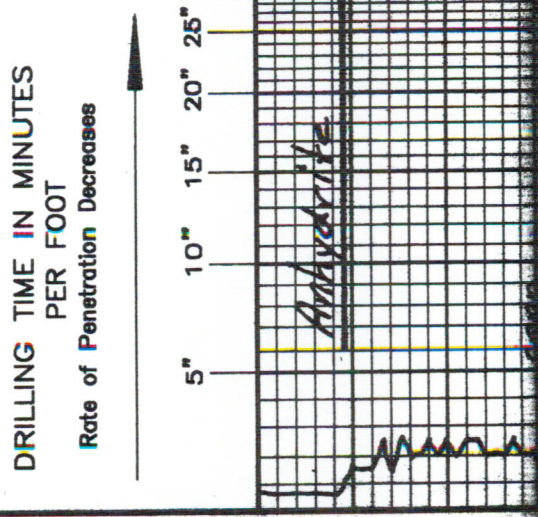
REMARKS  
 This well ran 2 to 7 feet lower on the Lansing top than the reference wells.  
 Due to the low structural position and unfavorable test results, it was decided  
 the well should be plugged and abandoned.  
 Richard G. Bell  
 4/17/13

7502

LEGEND

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

DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
2030			
2050			
			OIL SHOWS



LOG 7710



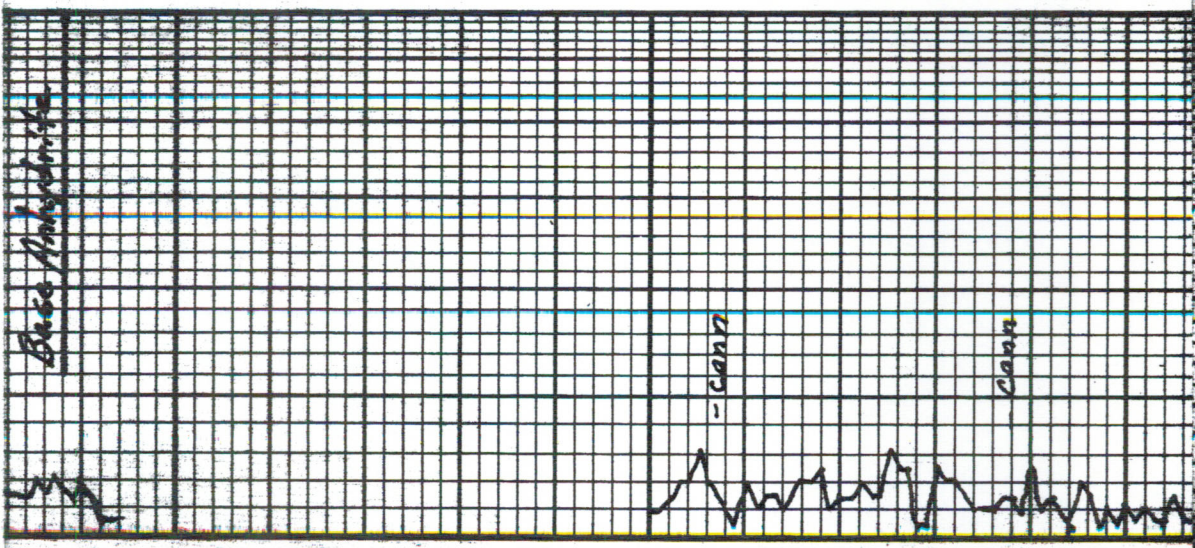
2070

3150

60

80

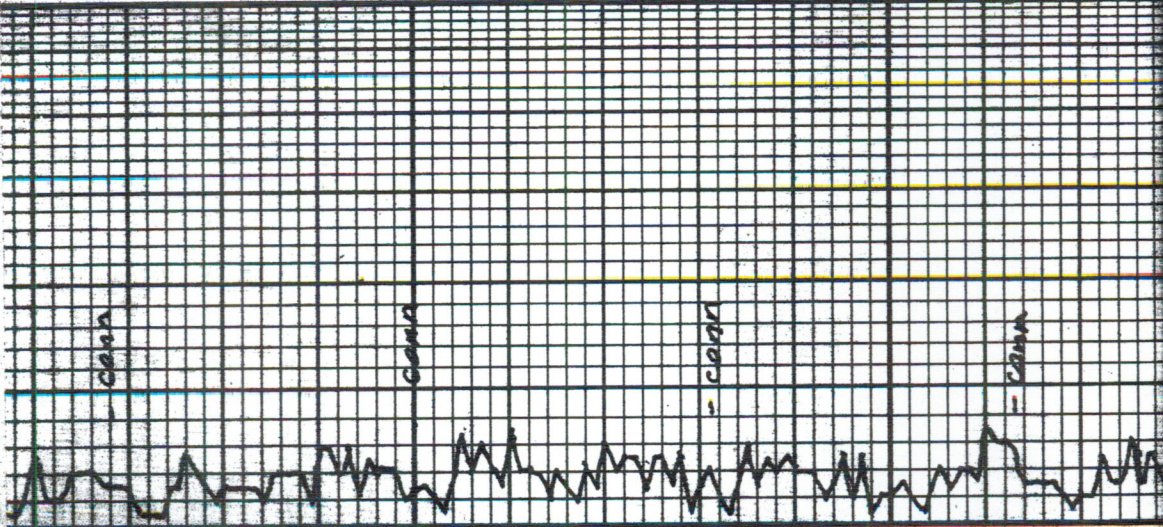
3200



*Base Anhydride*

-Cana

Cana



20

40

60

80

3300

20



LS: wh-fn-ht-gry v. cky-  
fals. dms. also.

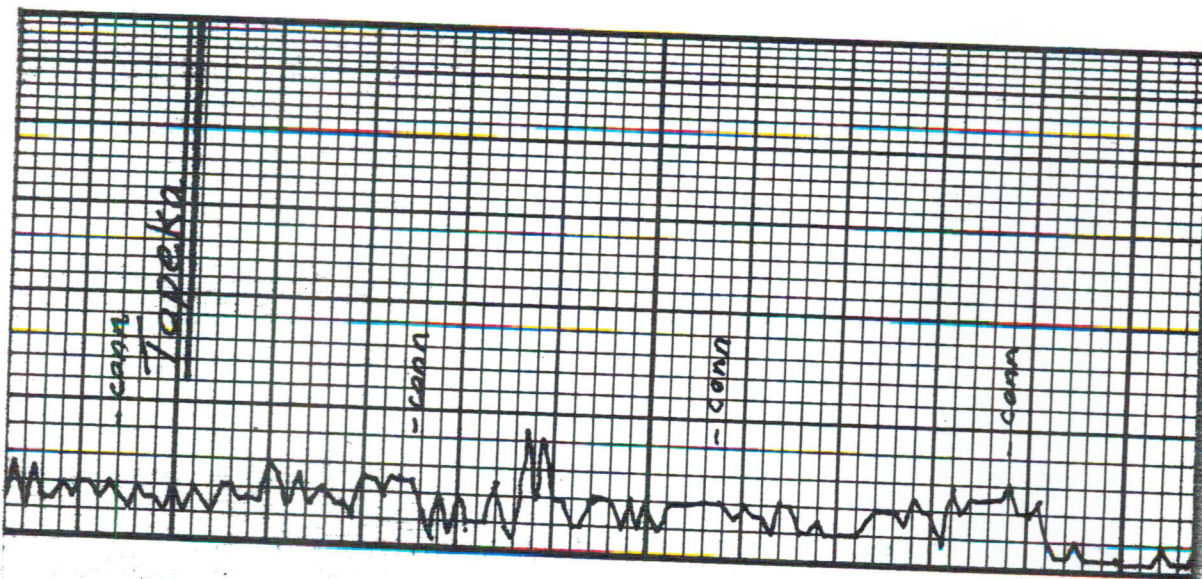
sh: brn sily

LS: tp-gry fcln-sli. fslf  
dms. also.

sh: brn, gry

LS: wh-fn-gry cky-Blf  
No vis. ⌀ N.S.O.

Samples are 1/2 gged  
good samples



40

60

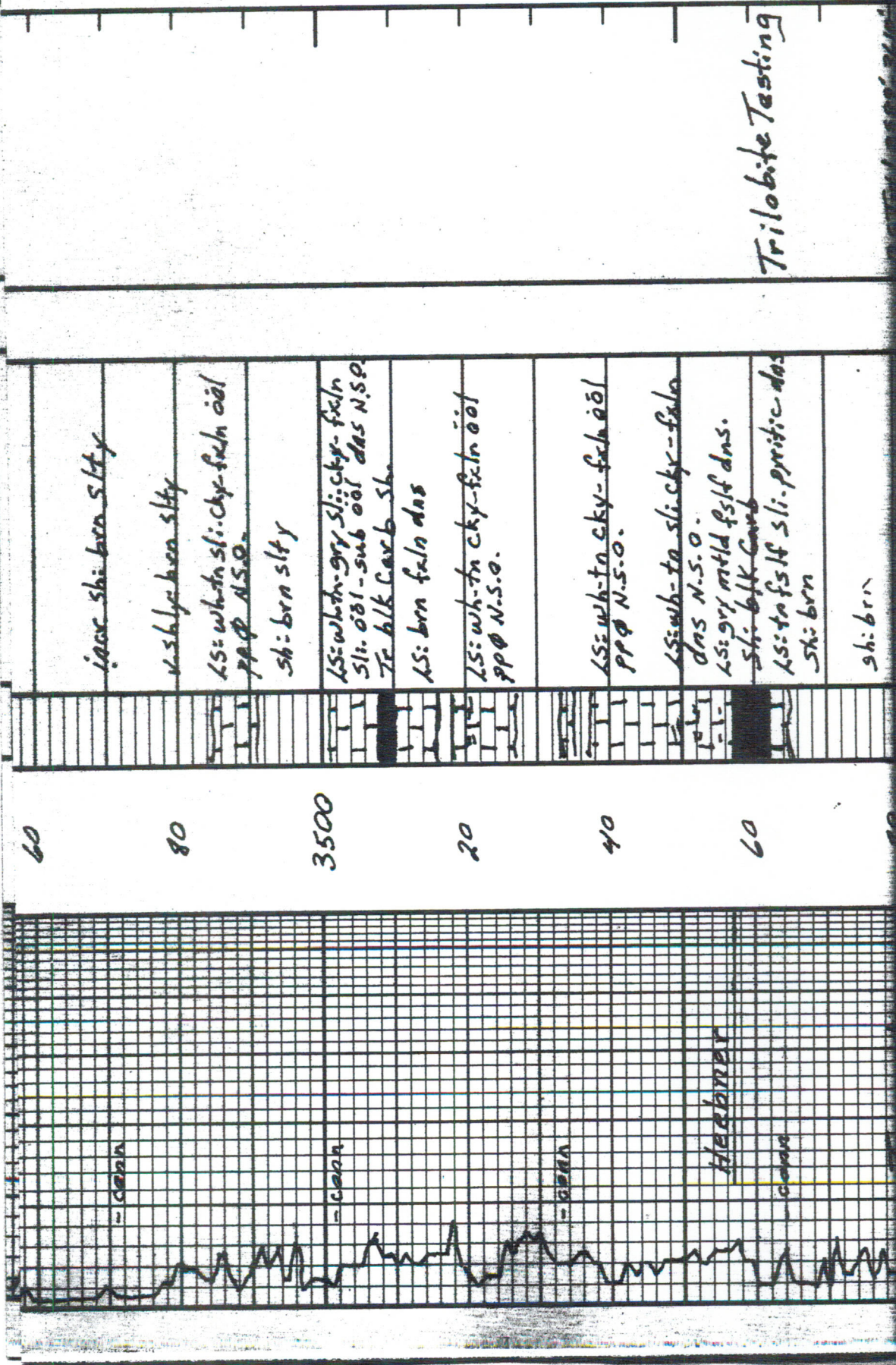
80

3400

20

40

LS: aa	LS: aa
Sh: gry, brn	Sh: gry, brn
LS: wh-ta-sli. yel cky-feln -fs lf pp N.S.A	LS: wh-ta-sli. yel cky-feln -fs lf pp N.S.A
aa	aa
Sh: brn, gry	Sh: brn, gry
LS: wh-ta cky-feln pp N.S.O.	LS: wh-ta cky-feln pp N.S.O.
Sh: brn, gry	Sh: brn, gry
SS: wh-gry V. fn. gn Consol. ingran N.S.g Sh: brn sky	SS: wh-gry V. fn. gn Consol. ingran N.S.g Sh: brn sky
LS: wh-ta cky-feln oal pp N.S.O.	LS: wh-ta cky-feln oal pp N.S.O.
LS: aa, becoming more dns Δxy wh-tr	LS: aa, becoming more dns Δxy wh-tr
LS: wh-ta-feln oal pp N.S.O. Δ wh-tr	LS: wh-ta-feln oal pp N.S.O. Δ wh-tr
LS: wh-ta-gry sli cky-feln das sli. glauē spk	LS: wh-ta-gry sli cky-feln das sli. glauē spk
Tr SS: gry V. fn. gn. Consol. ingran N.S.O.	Tr SS: gry V. fn. gn. Consol. ingran N.S.O.
SS. aa Sh: brn sky	SS. aa Sh: brn sky



60

80

3500

20

40

60

iacc. sh: brn slty

vshly: brn slty

ls: wh-tn sl: cky-feln öl  
ppø N.S.O.

sh: brn slty

ls: wh-tn gry sl: cky-feln  
sl: öl-sub öl das N.S.O.  
Fe blk Carb sh

ls: brn feln das

ls: wh-tn cky-feln öl  
ppø N.S.O.

ls: wh-tn cky-feln öl  
ppø N.S.O.

ls: wh-tn sl: cky-feln  
das N.S.O.

ls: gry mtd fsif dns.  
sh: blk Carb

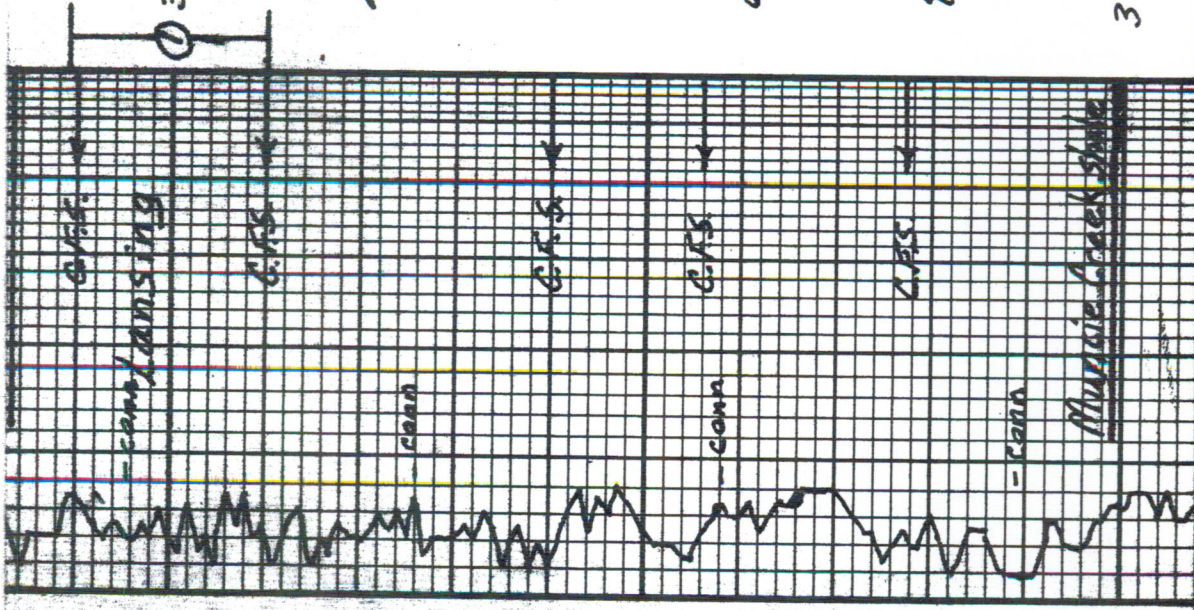
ls: tn fsif sl: pyritic das  
sh: brn

sh: brn

Heckmeter

Trilobite Testing





3600	✓	LS: wh-fn sl. chky-faln sl. oil-sub. oil pp φ ns. φ
20	✓	sh: brn + gry LS: wh-fn faln oil / sl. foss. inclus. pp φ-in part φ pp φ str. pp φ fr-stk odor
40	✓	sh: brn, gry, grn LS: wh-fn sl. chky-faln dns pp φ NSP-Δ wh-lt. gry, brn, gr
60	✓	sh: brn slty, gry, grn LS: wh-fn chky-faln pp φ - sl. v. gry, dk brn spid str thick stringy φ fr floating f.o. no odor Δ wh LS: lt. gry faln-sl: slty dns sh: brn, gry, grn
80	✓	LS: wh-fn chky-faln sl. pyritic sl. oil pp φ fr. spid φ str fr floating f.o. no odor LS: wh-fn chky-faln pp φ NSP-Δ +y tr- gry
3700		sh: blk carb sh: gry slty

45-45-45-45  
IF: wh blow incr. to 1/4"  
decr. to 3/4"

FF: wh blow 1/4"  
Recovery: 20% MM  
10% W 90% M  
HHD: 1773 - 1715 #  
FP: 11-23 / 25-35 #  
BHP: 104 - 1034 #  
BHTemp: 89°F

Strap 3627.05  
Board 3626.37  
Diff. .68  
Incline @ 3610' 3/4"

DST# 2 3725-3757  
 30-30-0-0  
 IF: wk blow  
 Recovery: 5' Mud  
 Hyd: 1879-1834#  
 FP: 9-12#  
 BHP: 40#  
 BHTemp: 89°F.

DST# 3 3755-3790  
 45-45-45-45  
 IF: wk blow incr. to 2 1/4"  
 FF: wk blow incr. to 2 3/4"  
 Recovery: 62' Total  
 S. C. O.  
 57' MCO 50% O, 50% M  
 Hyd: 1905-1897#  
 FP: 12-26/29-40#  
 BHP: 1024-905#  
 BHTemp: 89°F.

LS: wh-fn cky-fxn -  
 sh: slt. brn s/s

AS: aa-

sh: slt. brn s/sly

LS: th. lt. gry-brn fxn  
 No v.s. N.S.O.

sh: brn, gry

LS: wh-fn fxn sat pp  
 sl: vgyd lt. - fr O Sat. pp  
 F.O. Rainbow S.O. No odor

sh: brn, gry

LS: wh-fn fsif pp - vgyd  
 At. rainbow S.O. pp F.O.  
 No odor

sh: brn

LS: wh-fn cky-fxn - fr. slt.  
 fsif das N.S.O.

sh: brn

sh: brn

sh: brn s/sly

sh: gry s/sly

LS: wh-fn-brn cky-fxn -  
 das N.S.O.

20' H

40' I

J

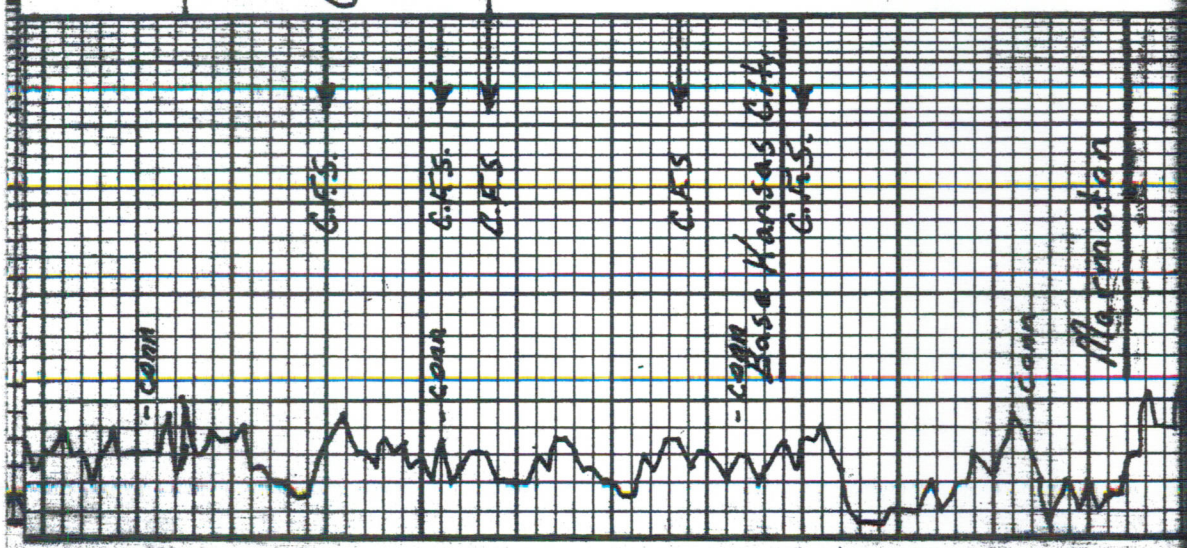
60

'K' ③

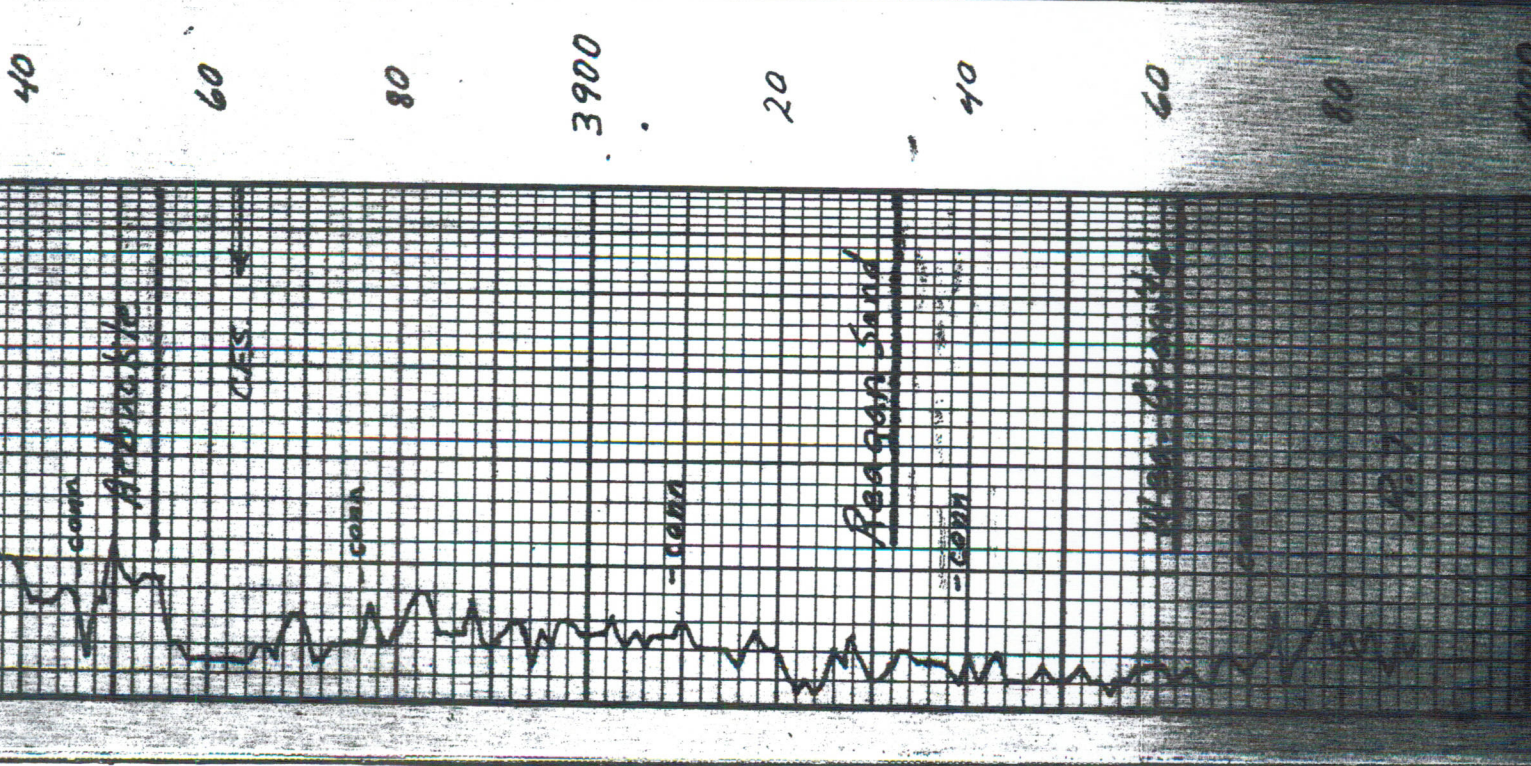
80' I

3800

20



40	LS: wh-fn cky - fxlh sl: oöl w/5d embed. asph. Taryo
60	Dol: wh-fn Dol: wh-fn mch inda-ingran N.S.O. glauc spks
80	Dol: wh-fn-brn fxlh - mch inda sl: vgy N.S.O. glauc. spks.
3900	Dol: wh-fn-brn-yel fxlh - mch inda vgy glauc. spks
20	a.a. sk: brn
40	Dol: tn, yel. - brn fxlh - mch inda vgy glauc spks
60	Qtz w/biot spks unconsol. cl: frast. ang - Tr sub rd N.S.O.
80	Qtz a.a. incr sub rd N.S.O.
4000	Quartz, biotite, feldspar Incr. Qtz, biot. felds a.a. sub. felds





## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67649

ATTN: Rich Bell

**27-3s-22w Norton,KS**

**Esslinger Ranch Inc #3-27**

Start Date: 2013.04.14 @ 20:00:00

End Date: 2013.04.15 @ 02:33:30

Job Ticket #: 50702                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.23 @ 10:10:41

Baird Oil Co., LLC

Esslinger Ranch Inc #3-27

27-3s-22w Norton,KS

DST # 1

LKC "A"

2013.04.14



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Co., LLC  
 PO Box 428  
 Logan, KS 67649  
 ATTN: Rich Bell

**Esslinger Ranch Inc #3-27**  
**27-3s-22w Norton, KS**  
 Job Ticket: 50702      **DST#: 1**  
 Test Start: 2013.04.14 @ 20:00:00

## GENERAL INFORMATION:

Formation: **LKC "A"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:01:30  
 Time Test Ended: 02:33:30  
 Interval: **3589.00 ft (KB) To 3610.00 ft (KB) (TVD)**  
 Total Depth: 3610.00 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: 2365.00 ft (KB)  
 2355.00 ft (CF)  
 KB to GR/CF: 10.00 ft

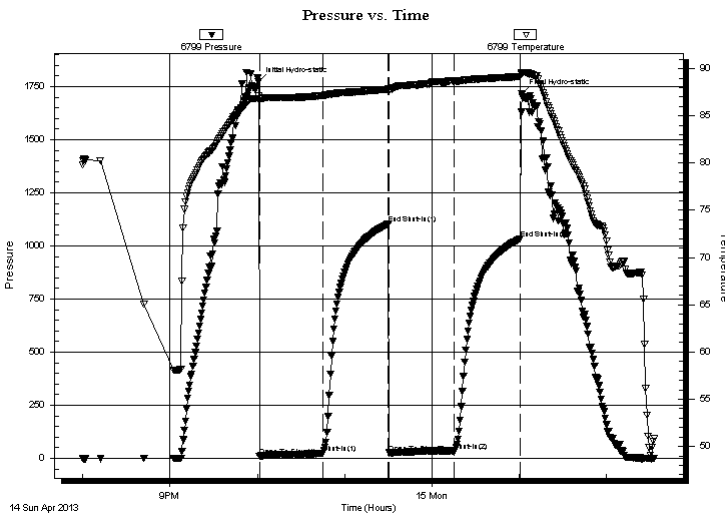
## Serial #: 6799

Inside

Press @ Run Depth: 35.67 psig @ 3590.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.04.14      End Date: 2013.04.15      Last Calib.: 2013.04.15  
 Start Time: 20:00:05      End Time: 02:33:29      Time On Btm: 2013.04.14 @ 22:00:45  
 Time Off Btm: 2013.04.15 @ 01:01:45

**TEST COMMENT:** 45 - IF- Surface Blow built to 1 1/4" then died back to 3/4"  
 45 - IS- No Return  
 45 - FF- Surface Blow started at 10 min. Built to 1/4"  
 45 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.44	87.08	Initial Hydro-static
1	11.09	86.79	Open To Flow (1)
45	23.36	87.17	Shut-In(1)
90	1104.11	87.83	End Shut-In(1)
90	25.87	87.70	Open To Flow (2)
135	35.67	88.68	Shut-In(2)
180	1034.69	89.17	End Shut-In(2)
181	1715.06	89.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	WM 90M 10W	0.10

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Co., LLC

**Esslinger Ranch Inc #3-27**

PO Box 428  
Logan, KS 67649

**27-3s-22w Norton,KS**

Job Ticket: 50702

**DST#: 1**

ATTN: Rich Bell

Test Start: 2013.04.14 @ 20:00:00

## Tool Information

Drill Pipe:	Length: 3475.00 ft	Diameter: 3.80 inches	Volume: 48.75 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: 42000.00 lb
			<u>Total Volume: 49.34 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3589.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3569.00	
Shut In Tool	5.00			3574.00	
Hydraulic tool	5.00			3579.00	
Packer	5.00			3584.00	21.00 Bottom Of Top Packer
Packer	5.00			3589.00	
Stubb	1.00			3590.00	
Recorder	0.00	6799	Inside	3590.00	
Recorder	0.00	8648	Inside	3590.00	
Perforations	15.00			3605.00	
Bullnose	5.00			3610.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co., LLC

**Esslinger Ranch Inc #3-27**

PO Box 428  
Logan, KS 67649

**27-3s-22w Norton,KS**

Job Ticket: 50702

**DST#: 1**

ATTN: Rich Bell

Test Start: 2013.04.14 @ 20:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	WM 90M 10W	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

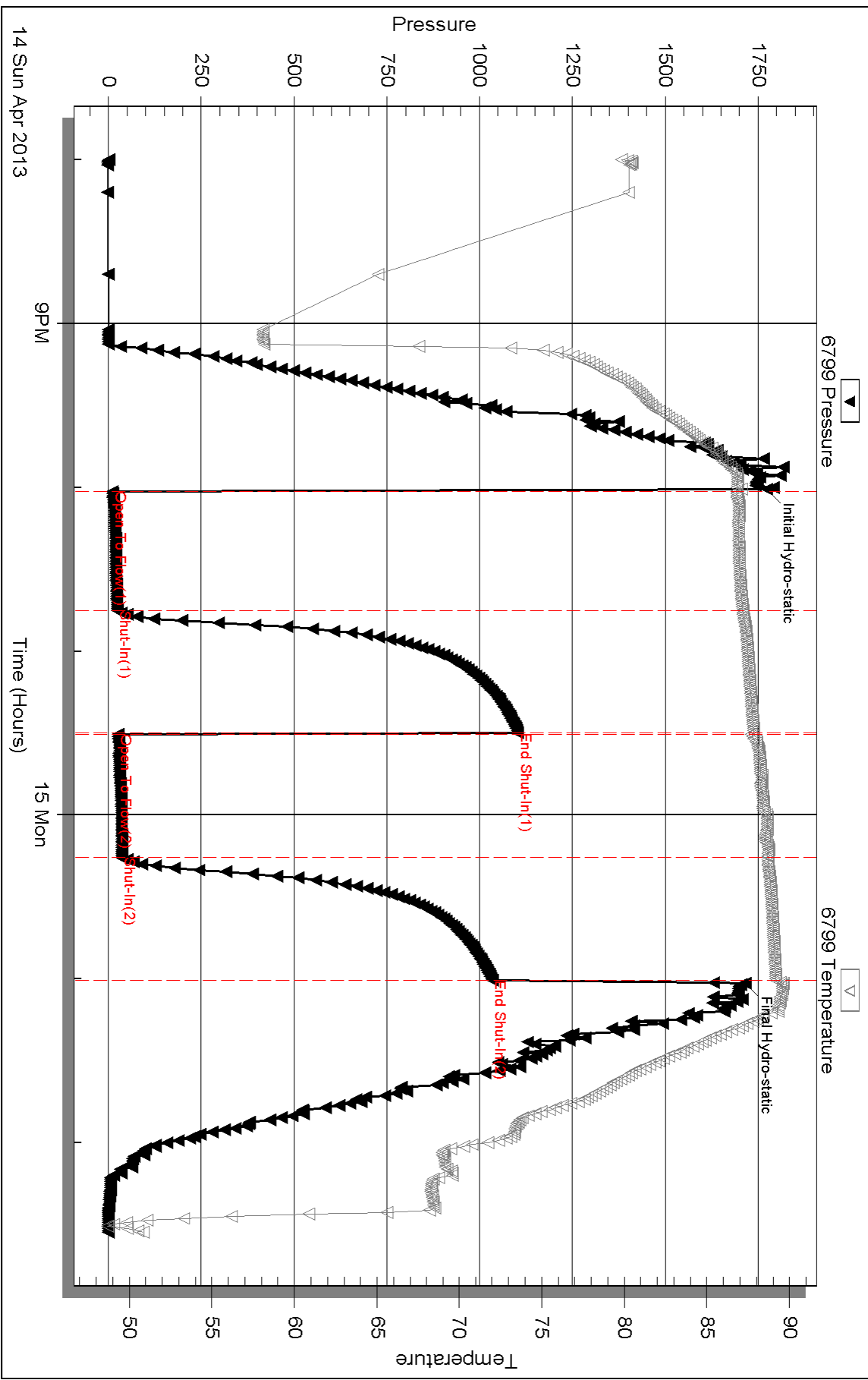
Laboratory Name:

Laboratory Location:

Recovery Comments:



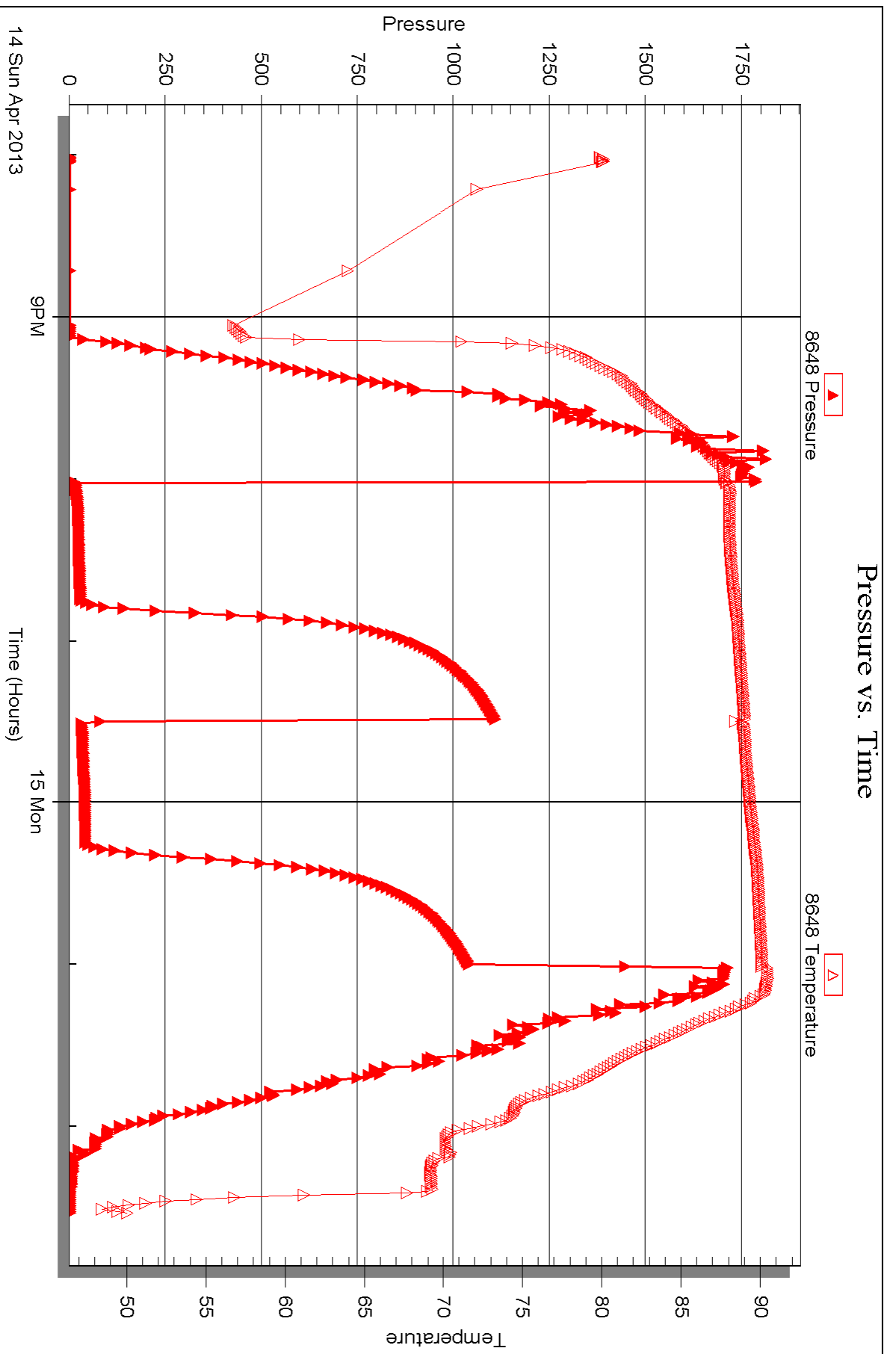
### Pressure vs. Time



Serial #: 8648      Inside      Baird Oil Co., LLC

27-3s-22w Norton KS

DST Test Number: 1





## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67649

ATTN: Rich Bell

**27-3s-22w Norton,KS**

**Esslinger Ranch Inc #3-27**

Start Date: 2013.04.15 @ 19:25:00

End Date: 2013.04.16 @ 00:22:00

Job Ticket #: 50703                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.23 @ 10:09:32



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Co., LLC  
PO Box 428  
Logan, KS 67649  
ATTN: Rich Bell

**Esslinger Ranch Inc #3-27**  
**27-3s-22w Norton, KS**  
Job Ticket: 50703 **DST#: 2**  
Test Start: 2013.04.15 @ 19:25:00

## GENERAL INFORMATION:

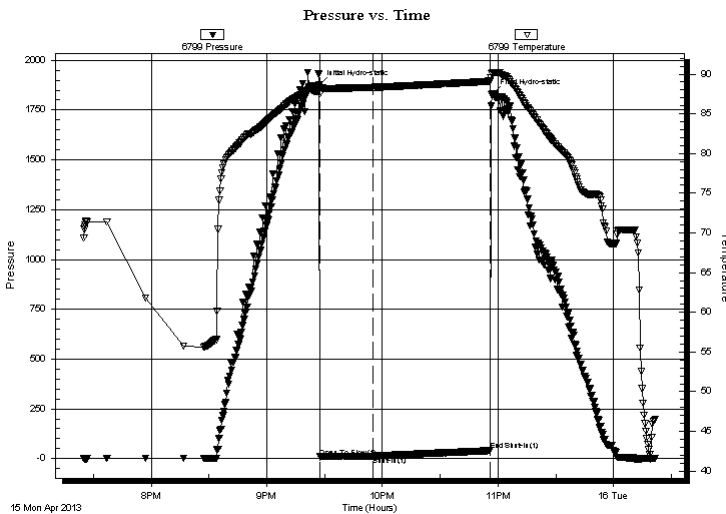
Formation: **LKC "J"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:27:45  
Time Test Ended: 00:22:00  
Interval: **3725.00 ft (KB) To 3757.00 ft (KB) (TVD)**  
Total Depth: 3757.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Kevin Mack  
Unit No: 43  
Reference Elevations: 2365.00 ft (KB)  
2355.00 ft (CF)  
KB to GR/CF: 10.00 ft

## Serial #: 6799

Inside

Press @ Run Depth: 12.73 psig @ 3726.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2013.04.15 End Date: 2013.04.16 Last Calib.: 2013.04.16  
Start Time: 19:25:05 End Time: 00:21:59 Time On Btm: 2013.04.15 @ 21:27:30  
Time Off Btm: 2013.04.15 @ 22:57:15

**TEST COMMENT:** 30 - IF- 1/8" Blow did not build or die.  
60 - IS- No Return  
Rig crew had to fix high drum chain. Took an extra 30 min. before pulling off bottom.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.30	88.65	Initial Hydro-static
1	9.06	87.55	Open To Flow (1)
28	12.73	88.33	Shut-In(1)
89	40.36	89.10	End Shut-In(1)
90	1834.29	90.18	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

Baird Oil Co., LLC  
PO Box 428  
Logan, KS 67649  
ATTN: Rich Bell

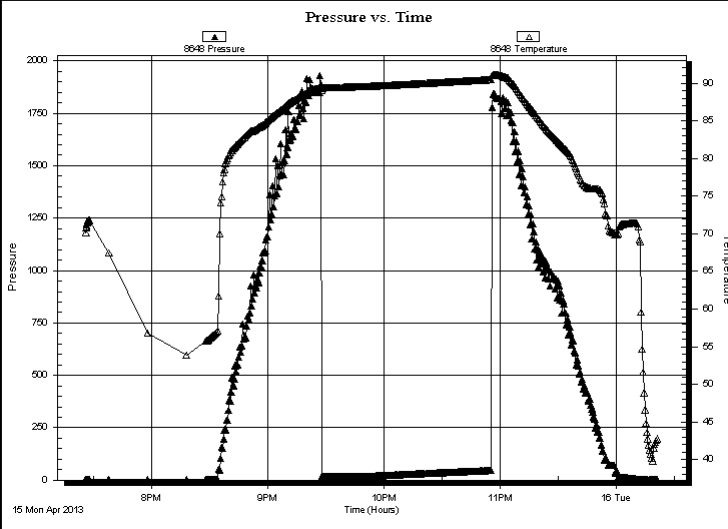
**Esslinger Ranch Inc #3-27**  
**27-3s-22w Norton, KS**  
Job Ticket: 50703      **DST#: 2**  
Test Start: 2013.04.15 @ 19:25:00

## GENERAL INFORMATION:

Formation: **LKC "J"**  
Deviated: No Whipstock:      ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 21:27:45      Tester: Kevin Mack  
Time Test Ended: 00:22:00      Unit No: 43  
  
Interval: **3725.00 ft (KB) To 3757.00 ft (KB) (TVD)**      Reference Elevations: 2365.00 ft (KB)  
Total Depth: 3757.00 ft (KB) (TVD)      2355.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 10.00 ft

**Serial #: 8648      Inside**  
Press @ Run Depth:      psig @ 3726.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.04.15      End Date: 2013.04.16      Last Calib.: 1899.12.30  
Start Time: 19:25:50      End Time: 00:21:29      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 30 - IF- 1/8" Blow did not build or die.  
60 - IS- No Return  
Rig crew had to fix high drum chain. Took an extra 30 min. before pulling off bottom.



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

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., LLC

**Esslinger Ranch Inc #3-27**

PO Box 428  
Logan, KS 67649

**27-3s-22w Norton,KS**

Job Ticket: 50703

**DST#: 2**

ATTN: Rich Bell

Test Start: 2013.04.15 @ 19:25:00

## Tool Information

Drill Pipe:	Length: 3602.00 ft	Diameter: 3.80 inches	Volume: 50.53 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 51.12 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3725.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	53.00 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			3705.00	
Shut In Tool	5.00			3710.00	
Hydraulic tool	5.00			3715.00	
Packer	5.00			3720.00	21.00 Bottom Of Top Packer
Packer	5.00			3725.00	
Stubb	1.00			3726.00	
Recorder	0.00	6799	Inside	3726.00	
Recorder	0.00	8648	Inside	3726.00	
Perforations	26.00			3752.00	
Bullnose	5.00			3757.00	32.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>53.00</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Co., LLC  
PO Box 428  
Logan, KS 67649  
ATTN: Rich Bell

**Esslinger Ranch Inc #3-27**  
**27-3s-22w Norton,KS**  
Job Ticket: 50703      **DST#: 2**  
Test Start: 2013.04.15 @ 19:25:00

**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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: 2.00 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:

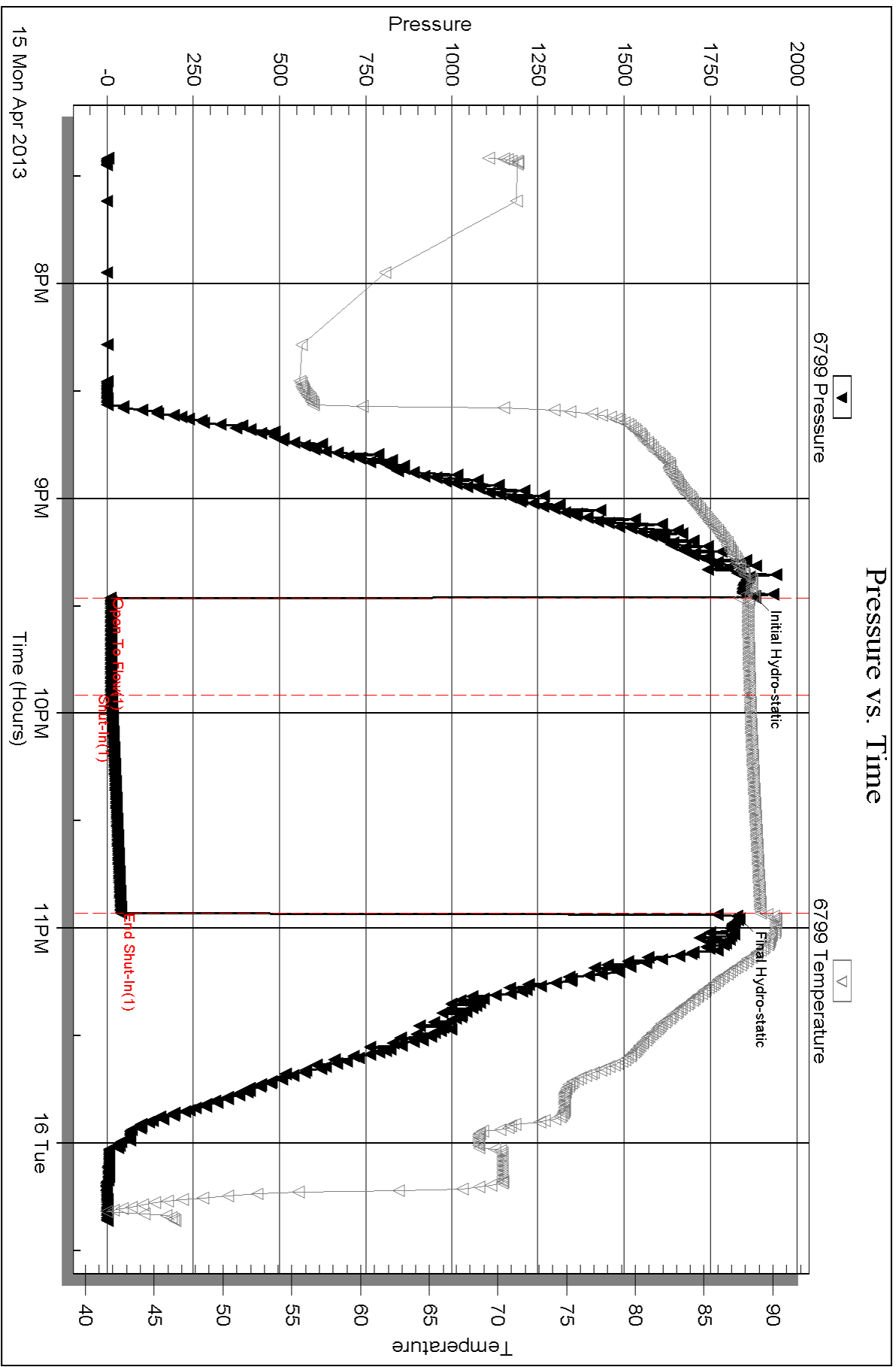
Serial #: 6799

Inside

Baird Oil Co., LLC

27-3s-22w Norton KS

DST Test Number: 2





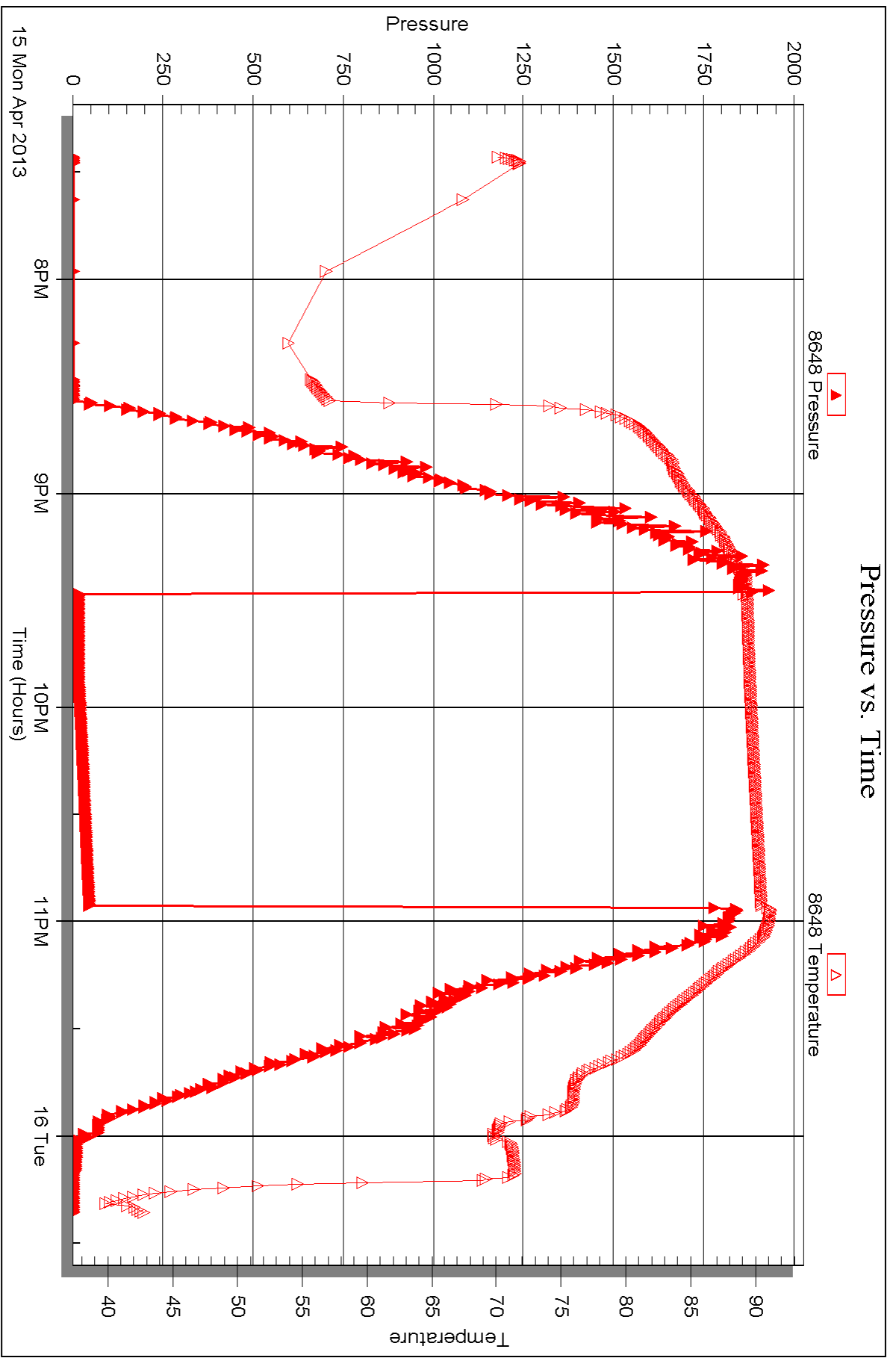
Serial #: 8648

Inside

Baird Oil Co., LLC

27-3s-22w Norton KS

DST Test Number: 2





## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67649

ATTN: Rich Bell

**27-3s-22w Norton,KS**

**Esslinger Ranch Inc #3-27**

Start Date: 2013.04.16 @ 08:40:00

End Date: 2013.04.16 @ 15:38:00

Job Ticket #: 50704                      DST #: 3

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

Printed: 2013.04.23 @ 10:08:40



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Co., LLC  
 PO Box 428  
 Logan, KS 67649  
 ATTN: Rich Bell

**Esslinger Ranch Inc #3-27**  
**27-3s-22w Norton, KS**  
 Job Ticket: 50704 **DST#: 3**  
 Test Start: 2013.04.16 @ 08:40:00

## GENERAL INFORMATION:

Formation: **LKC "K-L"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:40:00  
 Time Test Ended: 15:38:00  
 Interval: **3755.00 ft (KB) To 3790.00 ft (KB) (TVD)**  
 Total Depth: 3790.00 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: 2365.00 ft (KB)  
 2355.00 ft (CF)  
 KB to GR/CF: 10.00 ft

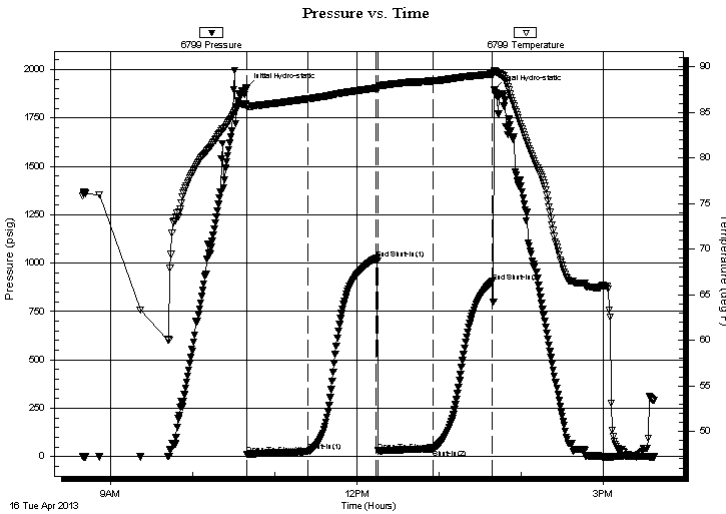
## Serial #: 6799

## Inside

Press @ Run Depth: 40.47 psig @ 3756.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.04.16 End Date: 2013.04.16 Last Calib.: 2013.04.16  
 Start Time: 08:40:05 End Time: 15:37:59 Time On Btm: 2013.04.16 @ 10:39:30  
 Time Off Btm: 2013.04.16 @ 13:40:45

TEST COMMENT: 45 - IF- Blow built to 2 1/8"  
 45 - IS- No Return  
 45 - FF- Blow built to 2 3/4"  
 45 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.56	85.93	Initial Hydro-static
1	12.20	85.67	Open To Flow (1)
46	26.85	86.50	Shut-In(1)
95	1024.84	87.68	End Shut-In(1)
97	29.89	87.67	Open To Flow (2)
136	40.47	88.47	Shut-In(2)
180	905.29	89.22	End Shut-In(2)
182	1897.89	89.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
57.00	MCO 50M 50o	0.28
5.00	Free Oil 100o	0.02

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Co., LLC

**Esslinger Ranch Inc #3-27**

PO Box 428  
Logan, KS 67649

**27-3s-22w Norton,KS**

Job Ticket: 50704

**DST#: 3**

ATTN: Rich Bell

Test Start: 2013.04.16 @ 08:40:00

## Tool Information

Drill Pipe:	Length: 3634.00 ft	Diameter: 3.80 inches	Volume: 50.98 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:	45000.00 lb
			<u>Total Volume: 51.57 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3755.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	56.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3735.00	
Shut In Tool	5.00			3740.00	
Hydraulic tool	5.00			3745.00	
Packer	5.00			3750.00	21.00 Bottom Of Top Packer
Packer	5.00			3755.00	
Stubb	1.00			3756.00	
Recorder	0.00	6799	Inside	3756.00	
Recorder	0.00	8648	Inside	3756.00	
Perforations	29.00			3785.00	
Bullnose	5.00			3790.00	35.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>56.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co., LLC

**Esslinger Ranch Inc #3-27**

PO Box 428  
Logan, KS 67649

**27-3s-22w Norton,KS**

Job Ticket: 50704

**DST#: 3**

ATTN: Rich Bell

Test Start: 2013.04.16 @ 08:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
57.00	MCO 50M 50o	0.280
5.00	Free Oil 100o	0.025

Total Length: 62.00 ft      Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 37 @ 70 deg = 36 cor

Serial #: 6799

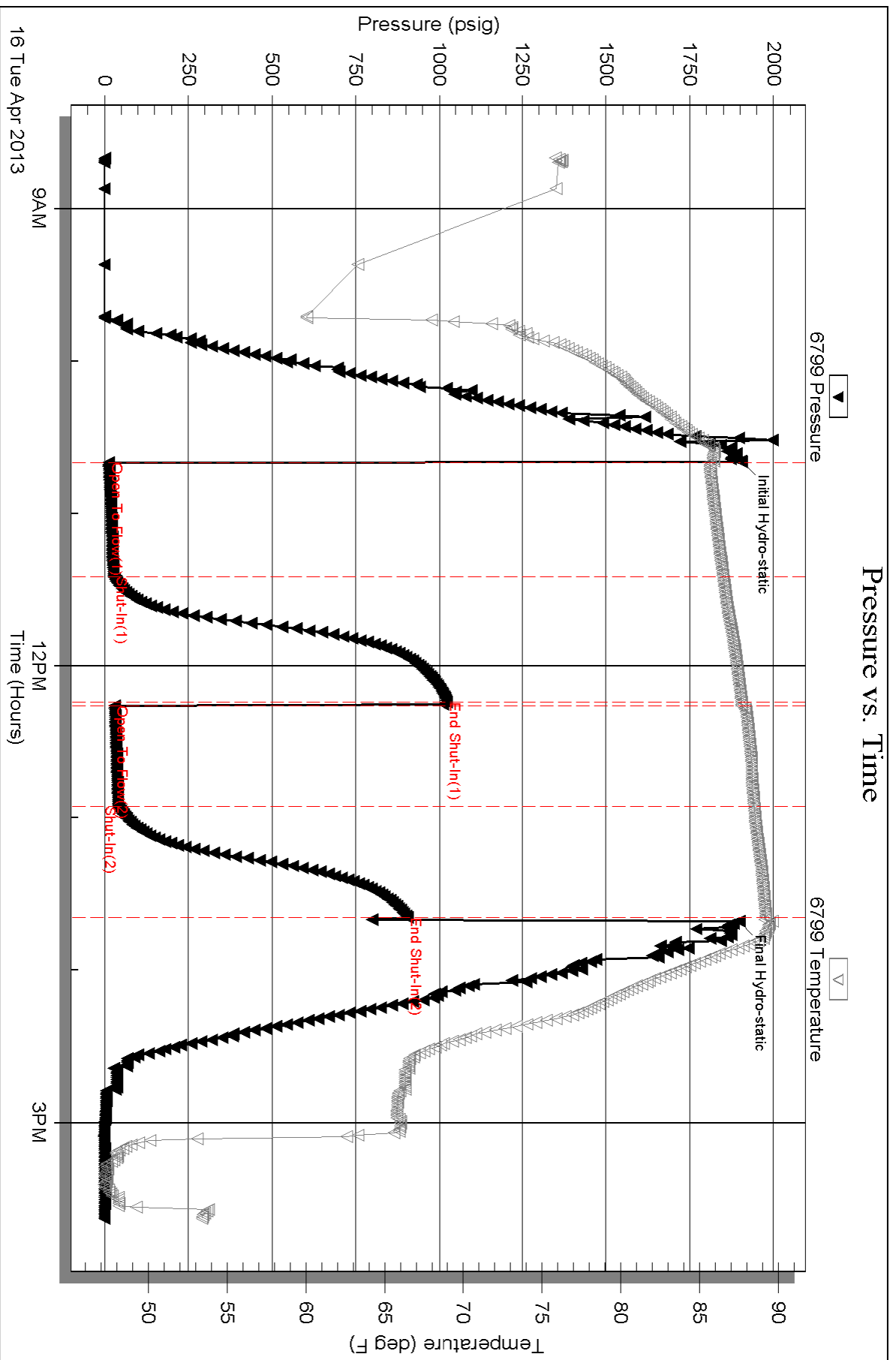
Inside

Baird Oil Co., LLC

27-35-22w Norton KS

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50704

Printed: 2013.04.23 @ 10:08:43

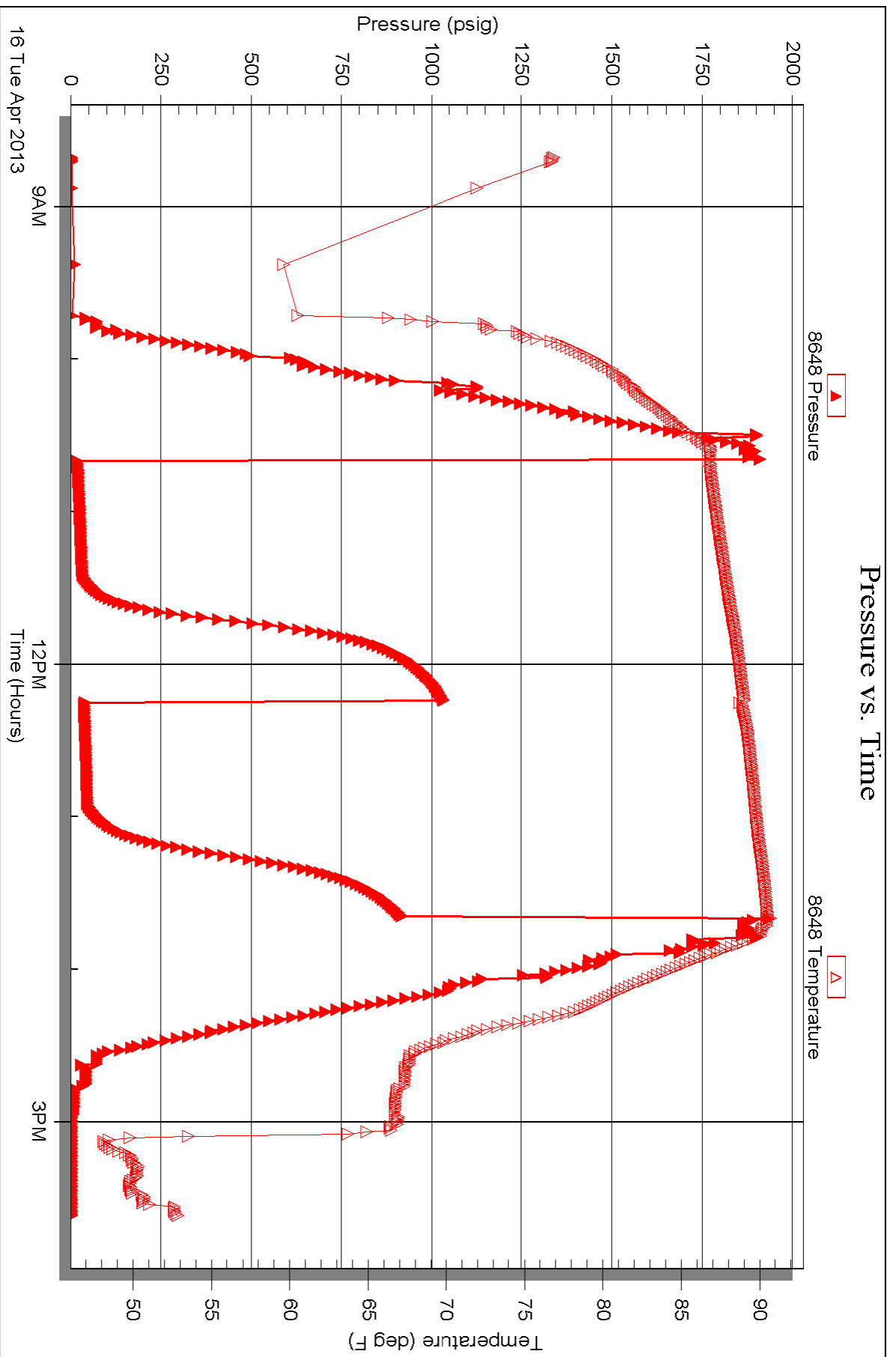
Serial #: 8648

Inside

Baird Oil Co., LLC

27-3s-22w Norton KS

DST Test Number: 3

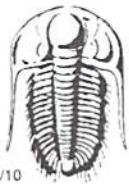


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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50702

4/10

Well Name & No. Esslinger Ranch, Inc. #3-27 Test No. 1 Date 4-14-13  
 Company Beard Oil Co., LLC Elevation 2365 KB 2355 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 3589-3610 Zone Tested LKC "A"  
 Anchor Length ~~30~~ 21' Drill Pipe Run 3475' Mud Wt. 8.8  
 Top Packer Depth 3585 Drill Collars Run 120 Vis 60  
 Bottom Packer Depth 3589 Wt. Pipe Run 0 WL 6.0  
 Total Depth 3610 Chlorides 1000 ppm System LCM 1#  
 Blow Description IF- Surface Blow built to 1/4" then died back to 3/4"  
ISI- NO Return  
FF- Surface Blow started at 18min. Built to 1/4"  
FST- NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>WM</u>		<u>10</u>	<u>90</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 20 BHT 89 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic	<u>1773</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>6:50 PM</u>
(B) First Initial Flow	<u>11</u>	<input type="checkbox"/> Jars		T-Started	<u>8:00 PM</u>
(C) First Final Flow	<u>23</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>10:00 PM</u>
(D) Initial Shut-In	<u>1104</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>1:00 AM</u>
(E) Second Initial Flow	<u>25</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>2:35 AM</u>
(F) Second Final Flow	<u>35</u>	<input checked="" type="checkbox"/> Mileage	<u>93 RT 144.15</u>	Comments	
(G) Final Shut-In	<u>1034</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1715</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>45</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>45</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>45</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 

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. 50703

Well Name & No. Esslinger Ranch, Inc #3-27 Test No. 2 Date 4-15-13  
 Company Baird Oil Co., LLC Elevation 2365 KB 2355 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 3725-3757 Zone Tested LKC - "J"  
 Anchor Length 32 Drill Pipe Run 3602 Mud Wt. 9.1  
 Top Packer Depth 3721 Drill Collars Run 120 Vis 58  
 Bottom Packer Depth 3725 Wt. Pipe Run 0 WL 64  
 Total Depth 3757 Chlorides 1400 ppm System LCM 1#

Blow Description IF - 1/8" Blow did not build or die.  
ISI - NO Return  
FF - Bwled tool after Initial Shut in.  
FSI -

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

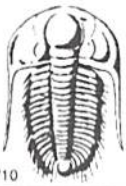
Rec Total 5 BHT 89 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1879  Test 1150 T-On Location 6:20 PM  
 (B) First Initial Flow 9  Jars T-Started 7:25 PM  
 (C) First Final Flow 12  Safety Joint T-Open 9:20 PM  
 (D) Initial Shut-In 40  Circ Sub N/C T-Pulled 10:20 10:50 PM  
 (E) Second Initial Flow -  Hourly Standby T-Out 12:30 AM  
 (F) Second Final Flow -  Mileage 93 RT 144.15 Comments Rig was fixing high drum chain, took an extra 30min before coming off bottom.  
 (G) Final Shut-In -  Sampler  Ruined Shale Packer  
 (H) Final Hydrostatic 1834  Shale Packer  Ruined Packer

Initial Open 30  Extra Packer  Extra Copies  
 Initial Shut-In 30-60  Extra Recorder Sub Total 0  
 Final Flow -  Day Standby Total 1294.15  
 Final Shut-In -  Accessibility MP/DST Disc't  
 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. 50704

Well Name & No. Esslinger Ranch, Inc. #3-27 Test No. 3 Date 4-16-13  
 Company Baird Oil Co., LLC Elevation 2365 KB 2355 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 3755-3790 Zone Tested LKC "K-L"  
 Anchor Length 35 Drill Pipe Run 3634 Mud Wt. 9.1  
 Top Packer Depth 3751 Drill Collars Run 120 Vis 58  
 Bottom Packer Depth 3755 Wt. Pipe Run Ø WL 6.4  
 Total Depth 3790 Chlorides 1,400 ppm System LCM 1#  
 Blow Description IF - Blow built to 2 1/8"  
ISI - NO Return  
FF - Blow built to 2 3/4"  
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Free Oil</u>	<u>100</u>			
<u>57</u>	<u>MCO</u>	<u>50</u>		<u>50</u>	

Rec Total 62 BHT 89° Gravity 36 API RW -@ - °F Chlorides - ppm  
 (A) Initial Hydrostatic 1905  Test 1150 T-On Location 7:30 AM  
 (B) First Initial Flow 12  Jars T-Started 8:40 AM  
 (C) First Final Flow 26  Safety Joint T-Open 10:40 AM  
 (D) Initial Shut-In 1024  Circ Sub N/C T-Pulled 1:40 PM  
 (E) Second Initial Flow 29  Hourly Standby T-Out 3:45 PM  
 (F) Second Final Flow 40  Mileage 288.30 93 RTX2 Comments loaded tools  
 (G) Final Shut-In 905  Sampler 8:00 AM 4-17-13  
 (H) Final Hydrostatic 1897  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies  
 Initial Open 45  Extra Recorder Sub Total 0  
 Initial Shut-In 45  Day Standby Total 1438.30  
 Final Flow 45  Accessibility MP/DST Disc't  
 Final Shut-In 45  Sub Total 1438.30

Approved By \_\_\_\_\_ Our Representative [Signature]  
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