



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1106471
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: _____



1106471

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</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 1-17
Doc ID	1106471

Tops

Name	Top	Datum
Anhydrite	2031	+388
Base Anhydrite	2062	+357
Topeka	3318	-899
Heebner	3522	-1103
Toronto	3549	-1130
Lansing	3565	-1146
Base Kansas City	3753	-1334
Marmaton	3777	-1358
Basal Penn Sand	3804	-1385
Arbuckle	3828	-1409
Granite	3864	-1445
Total Depth	3881	-1462

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



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

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

Sam Brownback, Governor

January 02, 2013

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

Re: ACO1
API 15-137-20616-00-00
Esslinger Ranch 1-17
SW/4 Sec.17-03S-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 #
9/18/2012	23182

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	#1-17	Esslinger Ra...	Norton	WW Drilling	Oil	Development	8-5/8" Surface	Wayne

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.) - 302 Feet	1	Job	1,000.00	1,000.00
325	Standard Cement	185	Sacks	13.50	2,497.50T
278	Calcium Chloride	5	Sack(s)	40.00	200.00T
279	Bentonite Gel	3	Sack(s)	25.00	75.00T
290	D-Air	2	Gallon(s)	35.00	70.00T
581D	Service Charge Cement	185	Sacks	2.00	370.00
583D	Drayage	723.6	Ton Miles	1.00	723.60
	Subtotal				5,416.10
	Sales Tax Norton County			7.05%	200.40

Ra/20/2012
 Pq/20/2012
 Esslin17 190402 5616.50
 Esslinger Ranch 1-17 - Pump charge,
 Cement + other misc used to
 Cemen + Surface casing

9/20/2012
 CJC#12618

We Appreciate Your Business!

Total

\$5,616.50



CHARGE TO: **BROAD OIL Co.**
 ADDRESS: **BROAD OIL Co.**
 CITY, STATE, ZIP CODE: **NORTON, KS 67560**

TICKET No **23182**

PAGE 1 OF 1

1. SERVICE LOCATIONS: **NESS CITY, KS**

2. **1-17** WELL/PROJECT NO. **WV DRILL** LEASE **ESSINGER RANCA** COUNTY/PARISH **NORTON** STATE **KS** DATE **9-18-12** OWNER **SAME**

3. **SALES** TICKET TYPE **SALES** CONTRACTOR **WV DRILL** RIG NAME/NO. **WV DRILL** SHIPPED VIA **CT** DELIVERED TO **LOCATION** ORDER NO. **WV DRILL**

4. **ORL** WELL TYPE **Development** WELL CATEGORY **8 5/8" SURFACE** WELL PERMIT NO. **NORTON, KS 51000, 3E, 1/4 N 230**

REFERRAL LOCATION: **ORL** INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE ^H 113	80	ME			6.00	480.00
576.5		1			PUMP CHARGE	1500		302	FT	1000.00	1000.00
325		1			STAYPAC Concrete	185	SBS			13.50	2497.50
278		1			CALCIUM CHLORIDE	5	SBS			40.00	200.00
279		1			RESTORATIVE GEL	3	SBS			25.00	75.00
290		1			D-ADR	2	GM			35.00	70.00
581		1			SEWER CHARGE Concrete	185	SBS			2.00	370.00
583		1			DRAINAGE	18090	LBS	723.6	TM	1.00	723.60

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.

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

X DATE SIGNED **9-18-12** TIME SIGNED **2:30** 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 **5416.10**

TOTAL **5616.5**

Portion TAX **7.05**

SWIFT OPERATOR: **DAVE WILSON** APPROVAL: _____

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: _____

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You

JOB LOG

SWIFT Services, Inc.

DATE 9-18-12 PAGE NO. 1

CUSTOMER **BARD OIL Co.** WELL NO. **1-17** LEASE **ESSINGER RANCH** JOB TYPE **8 5/8" SURFACE** TICKET NO. **23182**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2030							ON LOCATION
								TD-302 SETc 302 TP-306 8 5/8 # 24 15" CEMENT LEFT IN CASING
	2140							BREAK CIRCULATION
	2155	5 1/2	45		✓		300	MIX CEMENT - 185 SKS STANDARD 2% GEL, 3% CC
	2207	6 1/2	18 1/2		✓		350	DISPLACE CEMENT
	2210							SHOT-IN CIRCULATED 15 SKS CEMENT TO PER
								WASH TRUCK
	2300							JOB COMPLETE
								THANK YOU WAVE, BRIAN, DOUG



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



Invoice

DATE	INVOICE #
9/24/2012	23412

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	#1-17	Esslinger Ra...	Norton	WW Drilling Rig #8	Oil	Workover	PTA	Jason

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575W	Mileage - 1 Way	90	Miles	6.00	540.00T
576W-P	Pump Charge - PTA	1	Job	1,000.00	1,000.00T
290	D-Air	2.5	Gallon(s)	35.00	87.50T
276	Flocele	60	Lb(s)	2.00	120.00T
328-4	60/40 Pozmix (4% Gel)	230	Sacks	11.50	2,645.00T
581W	Service Charge Cement	230	Sacks	2.00	460.00T
583W	Drayage	869.44	Ton Miles	1.00	869.44T
	Subtotal				5,721.94
	Sales Tax Norton County			7.05%	403.40

R 9/28/2012
 P 9/30/2012

Esslin17 190402 6/25.34
 Esslinger Ranch 1-17 - Pump charge,
 Cement & other misc. expenses used
 to plug well

We Appreciate Your Business!	Total	\$6,125.34
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Services, Inc.

CHARGE TO: BAIRD OIL Co.

TICKET No 23412

ADDRESS
CITY, STATE, ZIP CODE

PAGE 1 OF

SERVICE LOCATIONS
1. NESS CITY, KS

WELL/PROJECT NO.
1-17

LEASE
ESSINGER RANCH

CONTRACTOR
WU DRILLING RIG # 8

COUNTY/STATE/ZIP
NORTON

STATE
KS.

CITY
NORTON, KS.

DATE
24 Sep 12

OWNER

2.

TICKET TYPE
 SERVICE
 SALES

RIG NAME/NO.

WELL PERMIT NO.

WELL LOCATION

ORDER NO.

DATE

OWNER

3.

WELL TYPE
OIL

WELL CATEGORY
ABANDON

JOB PURPOSE
PTA

WELL PERMIT NO.

WELL LOCATION

DATE

OWNER

4.

INVOICE INSTRUCTIONS

WELL TYPE

JOB PURPOSE

WELL PERMIT NO.

WELL LOCATION

DATE

OWNER

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT								
575				Pump charge	11D	9D	mil			60.00	540.00
576				Pump charge		1500				1000.00	1000.00
290				D-AIR		2 1/2	gal			35.00	87.50
276				FUDGE		100	lbs			2.00	180.00
328-4				100/40 Pozmix 49% gel		230	bx			11.50	2645.00
581				SERVICE CHARGE CEMENT		230	bx			2.00	460.00
583				DRAYAGE		1932	hrs			869.44	1744.00

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: 24 Sep 12 TIME SIGNED: 1800 P.M.

SWIFT OPERATOR: [Signature]

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: 5721

TAX: 403

TOTAL: 6125

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

Thank You

JOB LOG

SWIFT Services, Inc.

DATE 24 Sep 12 PAGE NO.

CUSTOMER BAIRD OIL Co. WELL NO. 1-17 LEASE ESSLINGER RANCHA JOB TYPE PTA TICKET NO. 23412

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							ON LOCATION
	1411		6½		✓			1 ST PLUG - 25sx @ 3808
	1520		6½		✓			2 ND PLUG - 25sx @ 2055
	1553		27		✓			3 RD PLUG - 100sx @ 1288
	1635		10½		✓			4 TH PLUG - 40sx @ 350
	1721		7					PLUG RH (30sx)
	1723		2½		✓			TOP WELL OFF 10sx
	1733							WASH TRUCK
	1800							JOB COMPLETE.
								THANKS #110
								JASON JEFF FLINT

A.P.I.# 15-137-20616-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.
 LEASE Esslinger Ranch #1-17
 FIELD Wildcat
 LOCATION 1330' FSL + 1030' FWL
 SEC. 17 TWSP. 35 RGE. 22W
 COUNTY Norton STATE Kansas

ELEVATION
 KB 2419'
 DF 2417'
 GL 2414'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR WW Drilling Rig #8
 SPUD 9-18-12 COMP 9-24-12
 SAMPLES SAVED FROM 3300 TO T.O.

CASING
 Surface 85940.301'
 Production None
 ELECTRIC LOGS
Superior Well Services

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>E. Tag</u>	<u>0-</u>	<u>0-</u>		
<u>Anhydrite</u>	<u>2031</u>	<u>2031 +</u>	<u>388</u>	<u>+406</u>	<u>+401</u>	<u>+346</u>	
<u>Base Anhydrite</u>	<u>2062</u>	<u>2062 +</u>	<u>357</u>	<u>+379</u>	<u>+372</u>	<u>+318</u>	
<u>Tapoka</u>	<u>3319</u>	<u>3318 -</u>	<u>899</u>		<u>-885</u>	<u>-958</u>	
<u>Heebner</u>	<u>3524</u>	<u>3522 -</u>	<u>1103</u>	<u>-1084</u>	<u>-1078</u>	<u>-1161</u>	
<u>Toronto</u>	<u>3550</u>	<u>3549 -</u>	<u>1130</u>	<u>-1110</u>	<u>-1106</u>	<u>-1186</u>	
<u>Lansing</u>	<u>3567</u>	<u>3565 -</u>	<u>1146</u>	<u>-1224</u>	<u>-1121</u>	<u>-1199</u>	
<u>Base Kansas City</u>	<u>3754</u>	<u>3753 -</u>	<u>1334</u>	<u>-1306</u>	<u>-1308</u>	<u>-1391</u>	
<u>Marmaton</u>	<u>3777</u>	<u>3777 -</u>	<u>1358</u>	<u>-1349</u>	<u>-1340</u>	<u>-1428</u>	
<u>Basal Penn. Sand</u>	<u>3805</u>	<u>3804 -</u>	<u>1385</u>				
<u>Arbuckle</u>	<u>3829</u>	<u>3828 -</u>	<u>1409</u>	<u>-1372</u>	<u>-1363</u>	<u>-1444</u>	
<u>Granite</u>	<u>3866</u>	<u>3864 -</u>	<u>1445</u>	<u>-1430</u>	<u>-1407</u>	<u>-1505</u>	
<u>Total Depth</u>	<u>3882</u>	<u>3881 -</u>	<u>1462</u>	<u>-1435</u>	<u>-1428</u>	<u>-1524</u>	

REFERENCE WELLS

- A Jones, Shelburne, Farmer, Harper #1, SW SW NW Sec. 19-35-22W
- B Lundvall Oil & Gas, Erickson #1, S/2 NE SE Sec. 12-35-23W
- C Baird O. Co. LLC, Esslinger Ranch, Inc. #1-22, 2080' FSL + 2075' FWL
- D Sec. 22-35-22W

REMARKS

This well ran 25 feet lower to 53 feet higher on the Lansing top than the reference wells. Drill stem tests and open hole log indicate no further testing was warranted. The well was plugged and abandoned.

Richard P. Bell
9-24-12

7502

LEGEND

- 

Anhydrite
- 

Salt
- 

Sandstone
- 

Shale
- 

Carb sh
- 

Limestone
- 

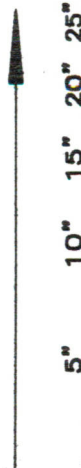
Ool. Lime
- 

Chert
- 

Dolomite

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



DEPTH

2020

40

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

LOG 7710

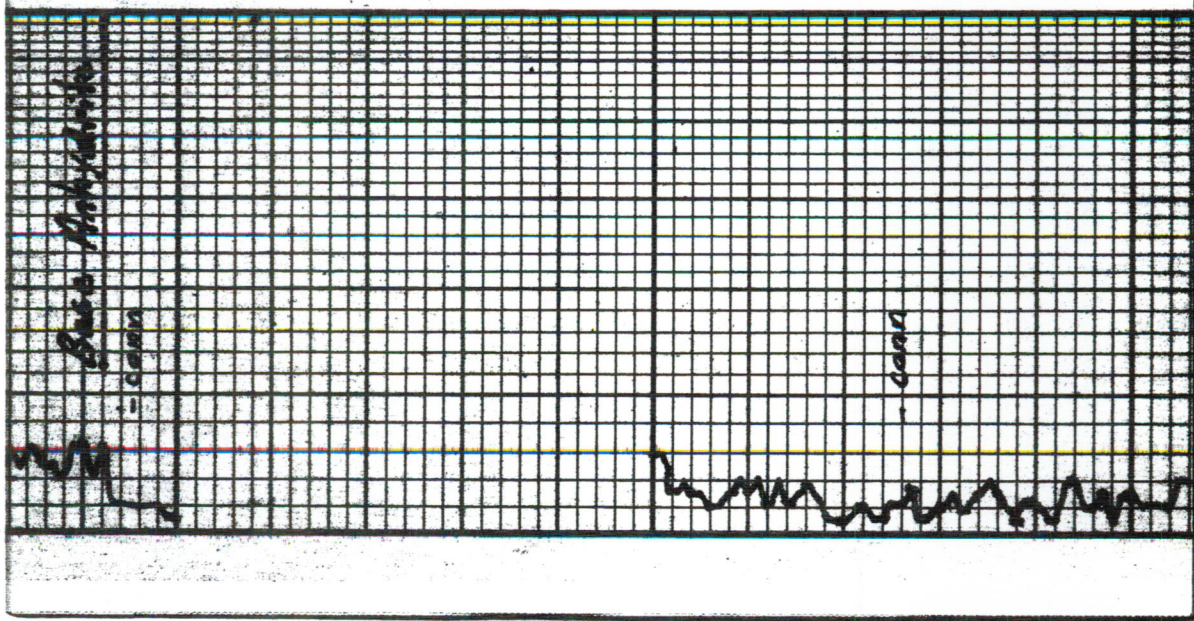
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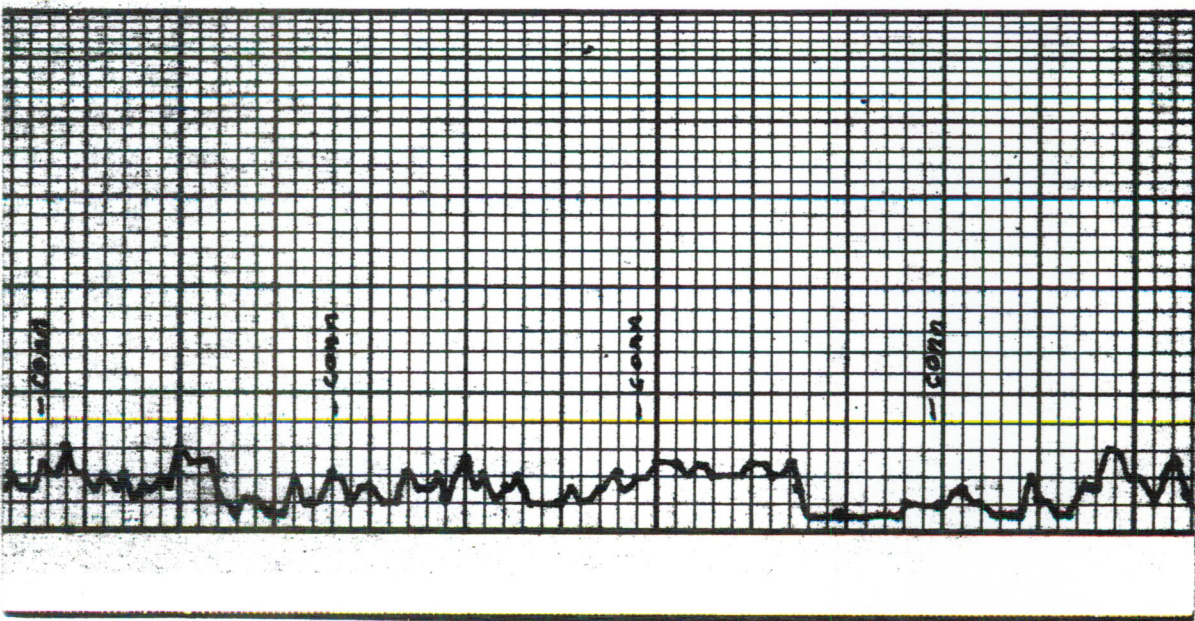
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2070

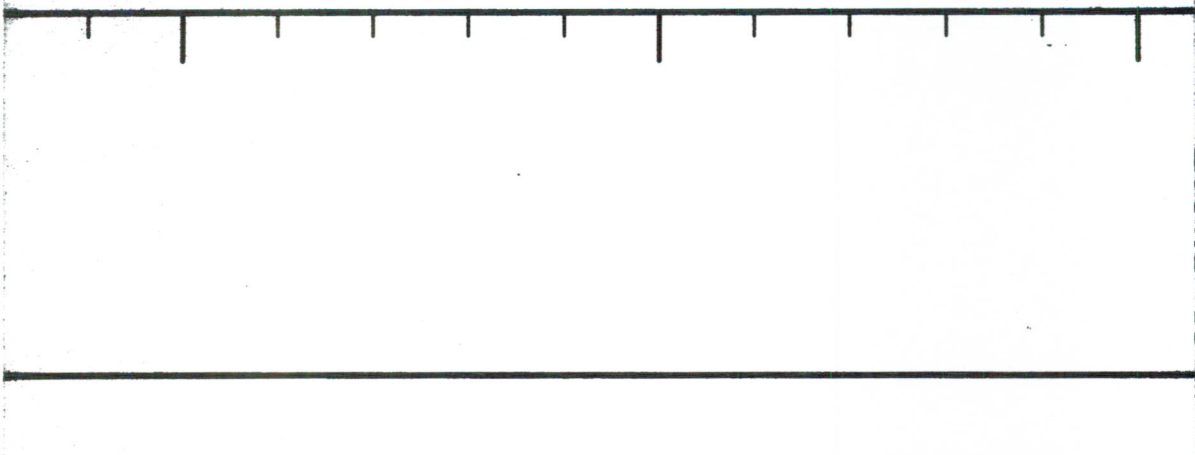
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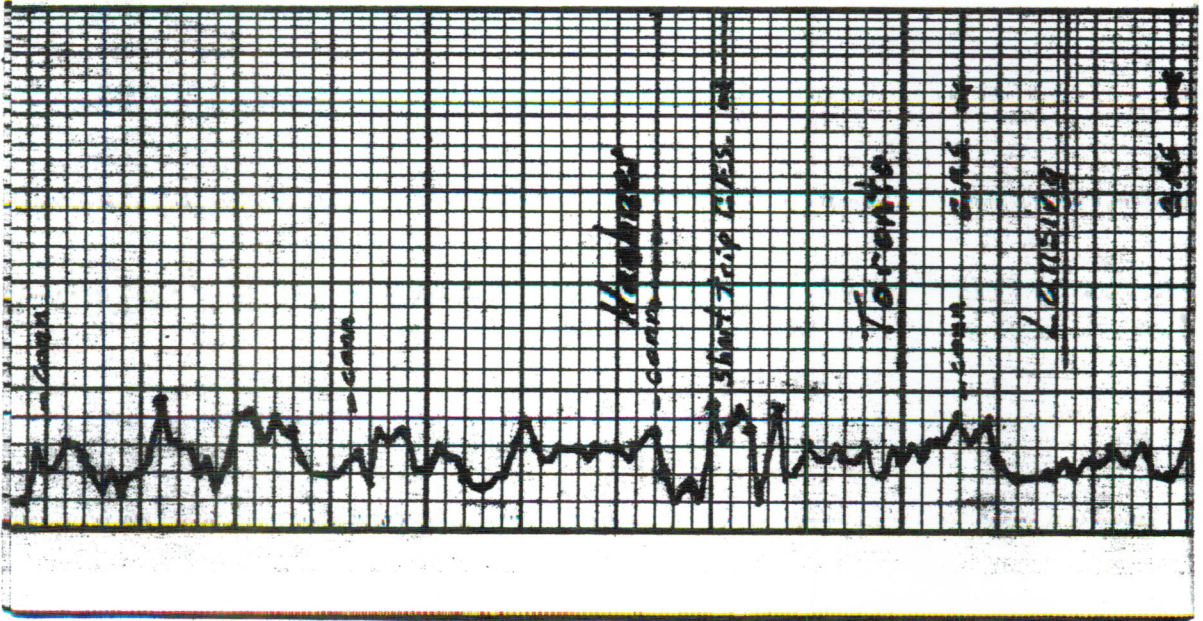
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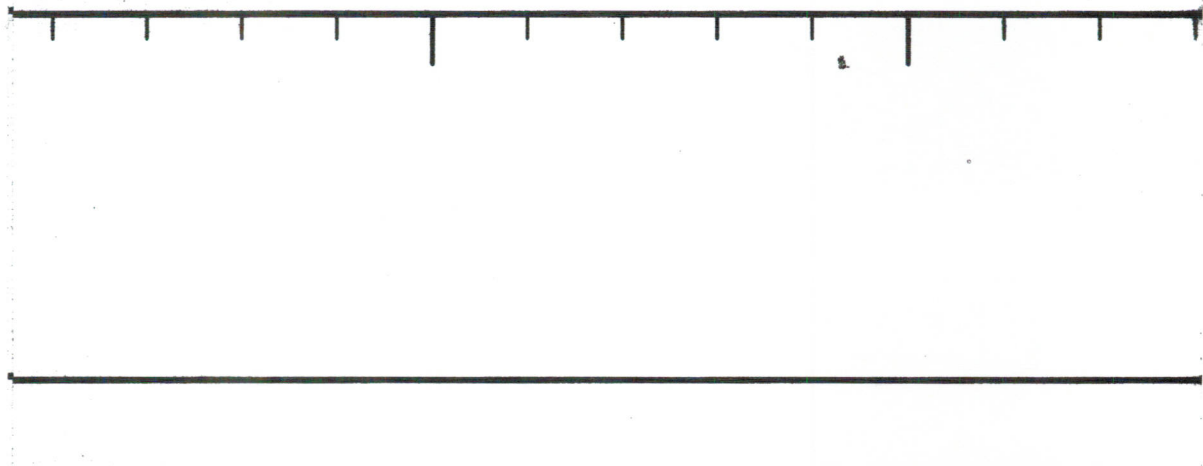


40	LS: wh-trn sl: chy-fxln dcl pp @ -Ti V9Y @ N.S.O
60	LS: trn-gry tsif das Sh: brn, gry Tr. SS wh-gry v. frn. gn consol. ingran @ N.S.O sh: brn, grn
80	LS: wh-trn sl: chy-fxln dcl pp @ -in part @ N.S.O. Tr. Δ wk
3400	LS: coh-trn. dt. gry fxln Tr. Pr. pp @ N.S.O. Sh: brn, gry LS: gry tsif dms
20	LS: wh-trn sl: chy-fxln Tr. pp @ N.S.O. LS: wh-trn sl: chy-fxln dcl w/ lot of fess. ingran pp @ V9Y @ friable N.S.O.
40	LS: ea N.S.O. Tr. SS trn v. frn. gn. consol. ingran @ N.S.O. sh: brn, gry LS: wh-trn chy-fxln Tr. dcl





60	ppp N.S.O. Sh:brn slty, gry, grn LS: gry fch das TR: BK Carb. sh LS: wh chky fch Tr öl ppp N.S.O. Sh:brn slty LS: wh tr chky fch sl: öl Pr. ppp N.S.O.
80	Sh:brn, gry, Tr, grn LS: wh chky fch öl ppp in part p N.S.O.
3500	LS: wh tr sl: chky fch Tr. öl ppp mostly das N.S.O.
20	Sh:blk Carb LS: tr-gry fch das
40	Sh:brn, gry TR: S.S. gry v. fn. ga. consol in gran p N.S.O.
60	LS: wh tr fch öl ppp sl: gry p N.S.O.
80	Sh:brn, grn LS: wh tr fch sl: öl - sub öl w/ fss. inclus. Pr. ppp N.S.O. No cut LS: wh tr fch das



Trilobite Testing

Incline $\frac{3}{4}$ @ 3640'

DST #1 3616'-3640'
 45-45-45-45
 IF: wk blow incr. to $\frac{1}{2}$ "
 FF: $\frac{1}{8}$ " blow
 Recovery: 130' MW
 70% W, 30% M
 Oil summit tool

Hyd: 1802-1764 #
 F.P.: 10-53 f 55-76 #
 BWP: 1159-1110 #
 BWTmp: 91° F

Board 3651.60
 Strap 3651.57
 Diff. .03

DST #2 3686'-3736'
 30-30-0-0
 IF: wk blow died in 20 min
 Recovery: 1' HOCM
 50% G, 50% M
 Oil in Tool
 Hyd: 1881-1848 #

Sh: brn, gry, grn

LS: wk to fch - sh: suc
 1 inch @ N.S.O.
 4 by wk - 1/2 gry

Sh: gry, brn

LS: wk to sh: chy-fch oil
 Tr. blk spid Talyd str
 V.B.T. thick F.G. No odor
 LS: gry fslf dns

LS: tn-yel-brn fslf sh: shv
 dns N.S.O.

Sh: brn
 LS: wk to fch oil pp @ pt.
 rainbow S.O. Sand ht. spid
 O str. floating F.O. No odor

Sh: brn, mar, gry

LS: wk to chy-suc-fch No
 Vis @ N.S.O.

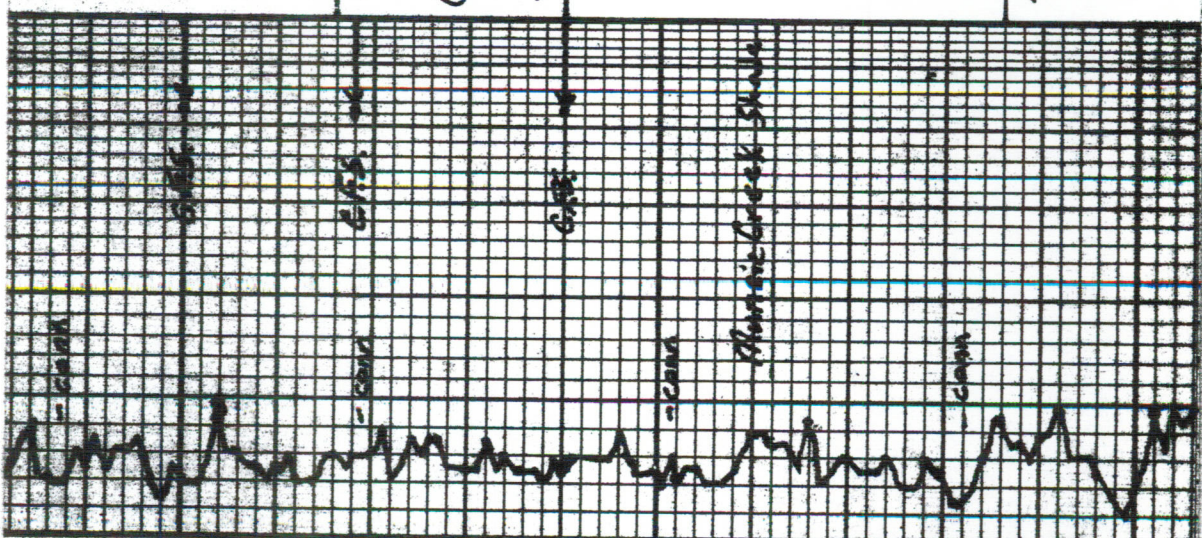
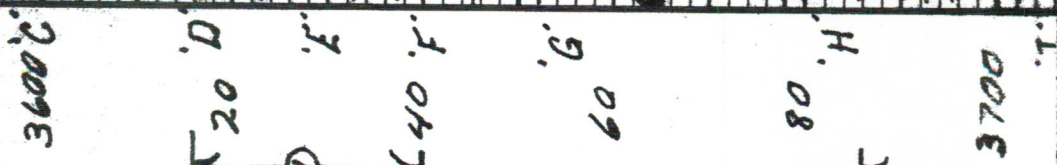
Tr. BIK Carb. sh

sh: gry slty, brn slty

LS: wk to chy-fch sh: oil
 pp @ N.S.O. 2 wk to
 Col. pos spid ostrn - pp F.O.
 ? from above

LS: wk to sh: gry chy-fch dns
 sh: brn slty - gry sh

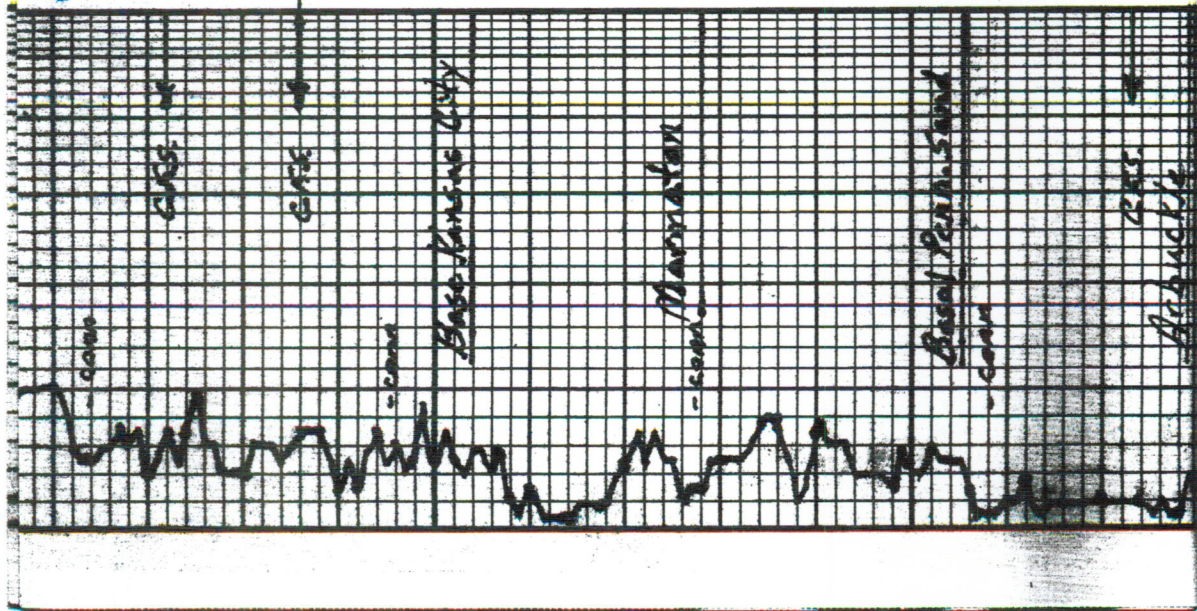
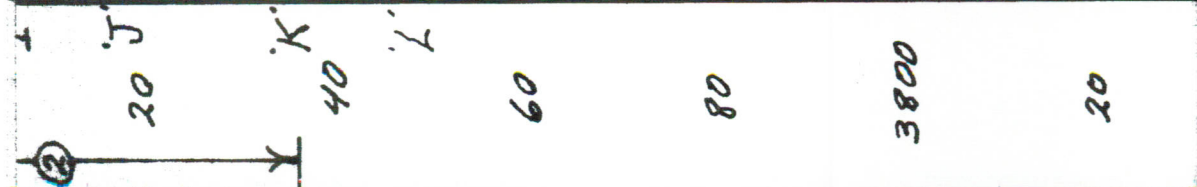
LS: wk to - sh: gry sh: chy-fch
 dns



Mamie Creek shale

FT: 31-33W
 BHP: 99#
 BH Temp: 91°F.

sh:brn, gry ls: wh-fn sli: cky-fslf pr. pp @ N.S.O.	sh:brn, gry	ls: wh-fn sli: cky-fslf Tr. oil w/ pass incl. 7e. edge sh w/ fo. Tr drk O Sat pp @ No odor	ls: wh-fn sli: cky-fslf sli. oil pp @ N.S.O.	ss: brn shly. v. fn. gn corrol. tagged N.S.O. sh: brn	ls: wh-fn fslf sub oil dns N.S.O.	ls: wh-fn sli: cky-fslf das glauc spks N.S.O.	sh: brn sli: cky	ls: wh-fn v. cky-fslf oil pp @ bit asph 'spts	ss: c. fracted fn. gn. consol and ingran. bit asph spks lot of pyrite Auth. fr.	ss: a.a. in: sh: brn
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DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Esslinger Ranch #1

17-3s-22w Norton,KS

Start Date: 2012.09.22 @ 13:33:07

End Date: 2012.09.22 @ 19:20:22

Job Ticket #: 47869 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.01 @ 14:22:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

17-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

Esslinger Ranch #1

ATTN: Richard Bell

Job Ticket: 47869

DST#: 1

Test Start: 2012.09.22 @ 13:33:07

GENERAL INFORMATION:

Formation: **LKC-"E-F"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 14:57:22

Time Test Ended: 19:20:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 3616.00 ft (KB) To 3640.00 ft (KB) (TVD)

Reference Elevations: 2419.00 ft (KB)

Total Depth: 3640.00 ft (KB) (TVD)

2414.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 76.33 psig @ 3618.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.22

End Date:

2012.09.22

Last Calib.:

2012.09.22

Start Time: 13:33:09

End Time:

19:20:22

Time On Btm:

2012.09.22 @ 14:57:07

Time Off Btm:

2012.09.22 @ 17:57:37

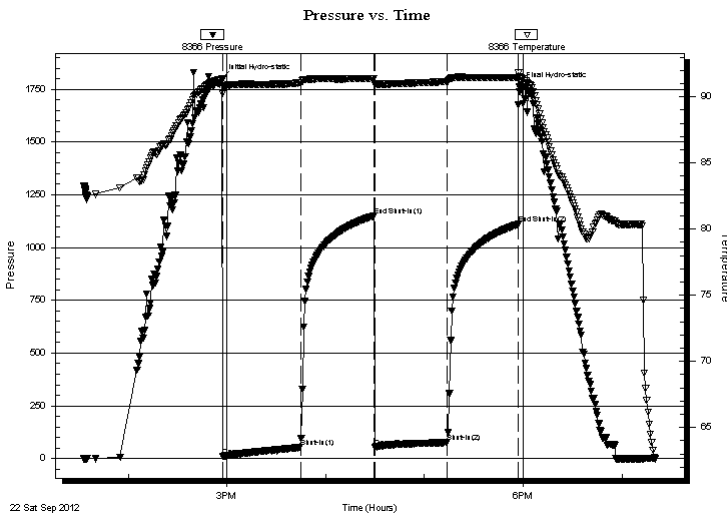
TEST COMMENT: IFP-Weak Blow , Built to 1/2"

ISI-Dead

FFP-Weak Blow , Built to 1/8"

FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1801.99	91.27	Initial Hydro-static
1	9.52	90.27	Open To Flow (1)
48	52.58	91.06	Shut-In(1)
93	1150.43	91.38	End Shut-In(1)
93	54.83	90.94	Open To Flow (2)
137	76.33	91.18	Shut-In(2)
180	1110.43	91.47	End Shut-In(2)
181	1763.78	91.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Muddy Water W/Odor, Oil Scum in Tool	0.69

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

17-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

Esslinger Ranch #1

Job Ticket: 47869

DST#: 1

ATTN: Richard Bell

Test Start: 2012.09.22 @ 13:33:07

Tool Information

Drill Pipe:	Length: 3494.00 ft	Diameter: 3.80 inches	Volume: 49.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 49.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3616.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3596.00	
Shut In Tool	5.00			3601.00	
Hydraulic tool	5.00			3606.00	
Packer	5.00			3611.00	21.00 Bottom Of Top Packer
Packer	5.00			3616.00	
Stubb	1.00			3617.00	
Perforations	1.00			3618.00	
Recorder	0.00	8366	Inside	3618.00	
Recorder	0.00	8289	Outside	3618.00	
Perforations	19.00			3637.00	
Bullnose	3.00			3640.00	24.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

17-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

Esslinger Ranch #1

Job Ticket: 47869

DST#: 1

ATTN: Richard Bell

Test Start: 2012.09.22 @ 13:33:07

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:

23000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Muddy Water W/Odor, Oil Scum in Tool	0.694

Total Length: 130.00 ft

Total Volume: 0.694 bbl

Num Fluid Samples: 0

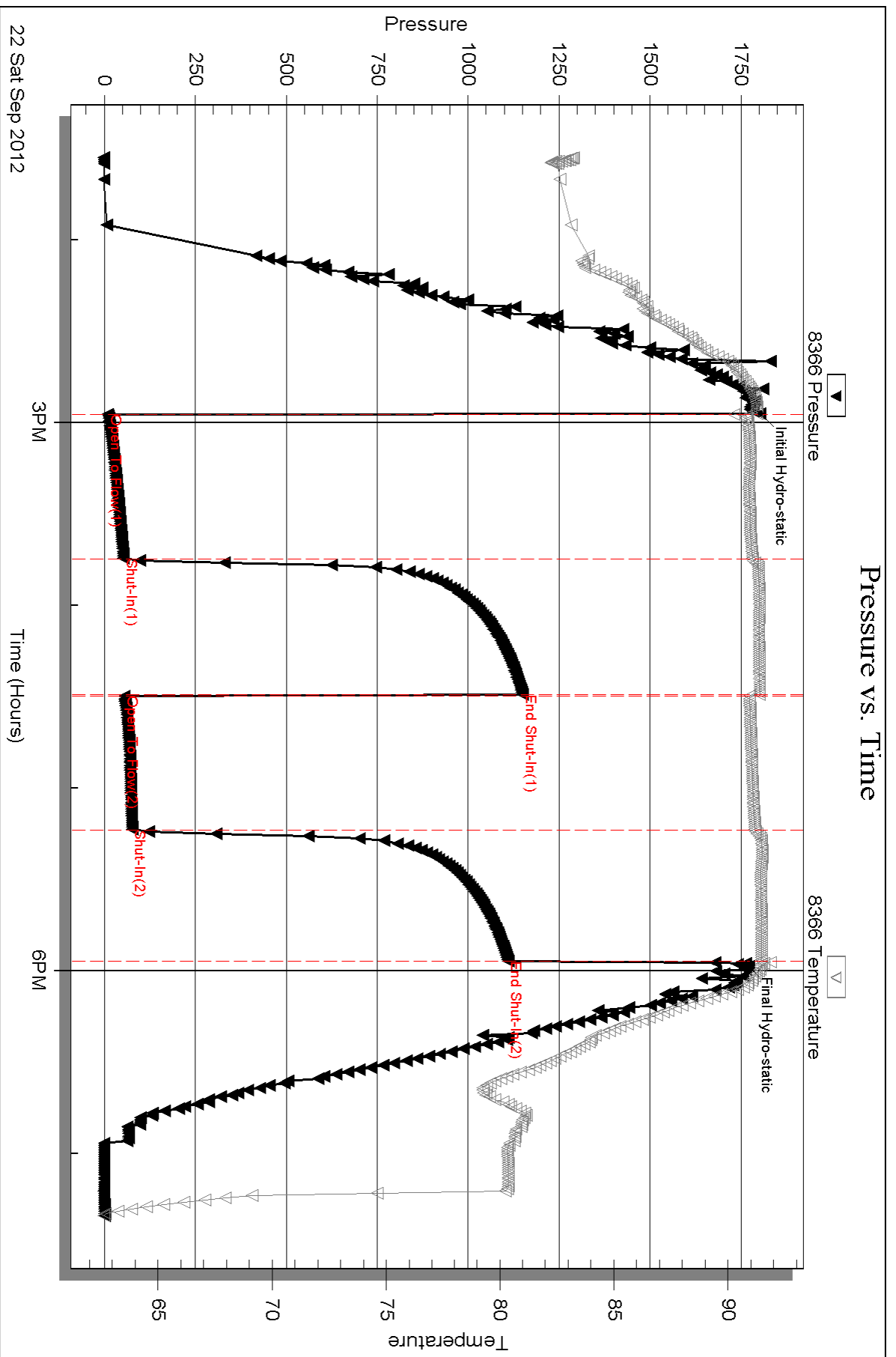
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Esslinger Ranch #1

17-3s-22w Norton,KS

Start Date: 2012.09.23 @ 05:05:44

End Date: 2012.09.23 @ 09:49:59

Job Ticket #: 47870 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.01 @ 14:21:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

17-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

Esslinger Ranch #1

ATTN: Richard Bell

Job Ticket: 47870

DST#: 2

Test Start: 2012.09.23 @ 05:05:44

GENERAL INFORMATION:

Formation: **LKC-"K"**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 07:26:44

Time Test Ended: 09:49:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 3686.00 ft (KB) To 3736.00 ft (KB) (TVD)

Reference Elevations: 2419.00 ft (KB)

Total Depth: 3736.00 ft (KB) (TVD)

2414.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 33.31 psig @ 3723.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.23

End Date:

2012.09.23

Last Calib.:

2012.10.23

Start Time: 05:05:46

End Time:

09:49:59

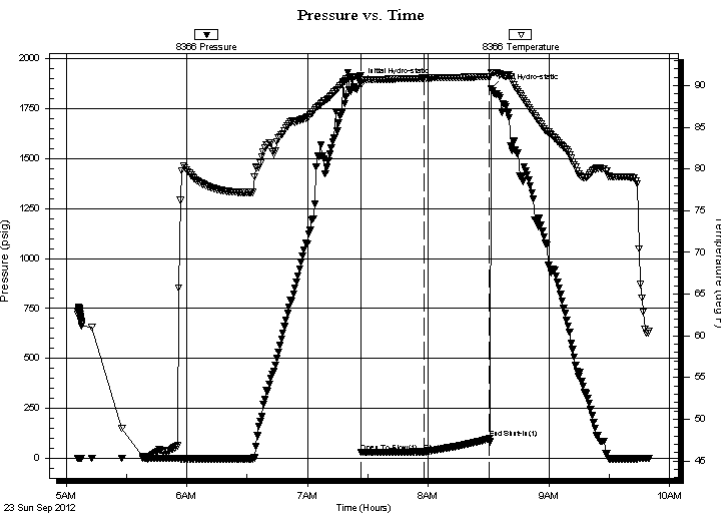
Time On Btm:

2012.09.23 @ 07:26:29

Time Off Btm:

2012.09.23 @ 08:31:14

TEST COMMENT: IFP-Weak Surface Blow, Died in 20 Min.
ISI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1880.95	91.20	Initial Hydro-static
1	30.73	90.14	Open To Flow (1)
32	33.31	90.91	Shut-In(1)
64	98.66	91.09	End Shut-In(1)
65	1848.01	91.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	HOCM-50%O-50%M	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

17-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

Esslinger Ranch #1

Job Ticket: 47870

DST#: 2

ATTN: Richard Bell

Test Start: 2012.09.23 @ 05:05:44

Tool Information

Drill Pipe:	Length: 3555.00 ft	Diameter: 3.80 inches	Volume: 49.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 50.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3686.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 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			3666.00	
Shut In Tool	5.00			3671.00	
Hydraulic tool	5.00			3676.00	
Packer	5.00			3681.00	21.00 Bottom Of Top Packer
Packer	5.00			3686.00	
Stubb	1.00			3687.00	
Perforations	3.00			3690.00	
Change Over Sub	1.00			3691.00	
Blank Spacing	31.00			3722.00	
Change Over Sub	1.00			3723.00	
Recorder	0.00	8366	Inside	3723.00	
Recorder	0.00	8289	Outside	3723.00	
Perforations	10.00			3733.00	
Bullnose	3.00			3736.00	50.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

17-3s-22w Norton,KS

PO Box 428
Logan, KS 67646

Esslinger Ranch #1

Job Ticket: 47870

DST#: 2

ATTN: Richard Bell

Test Start: 2012.09.23 @ 05:05:44

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:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	HOCM-50%O-50%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Mud with Oil Spots, Oil in Tool Itself When Dumped

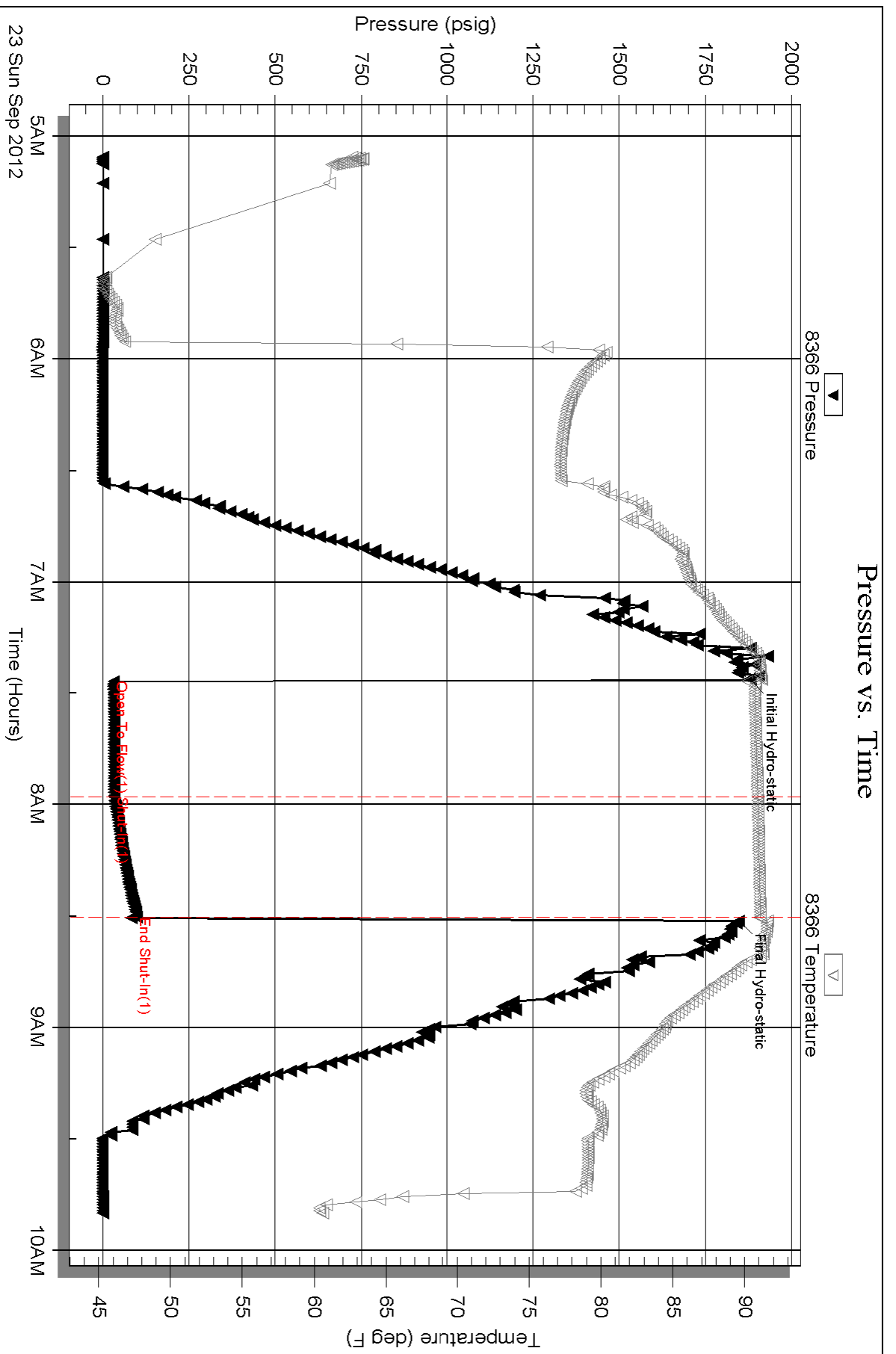
Serial #: 8366

Inside

Baird Oil Company, LLC

Esslinger Ranch #1

DST Test Number: 2

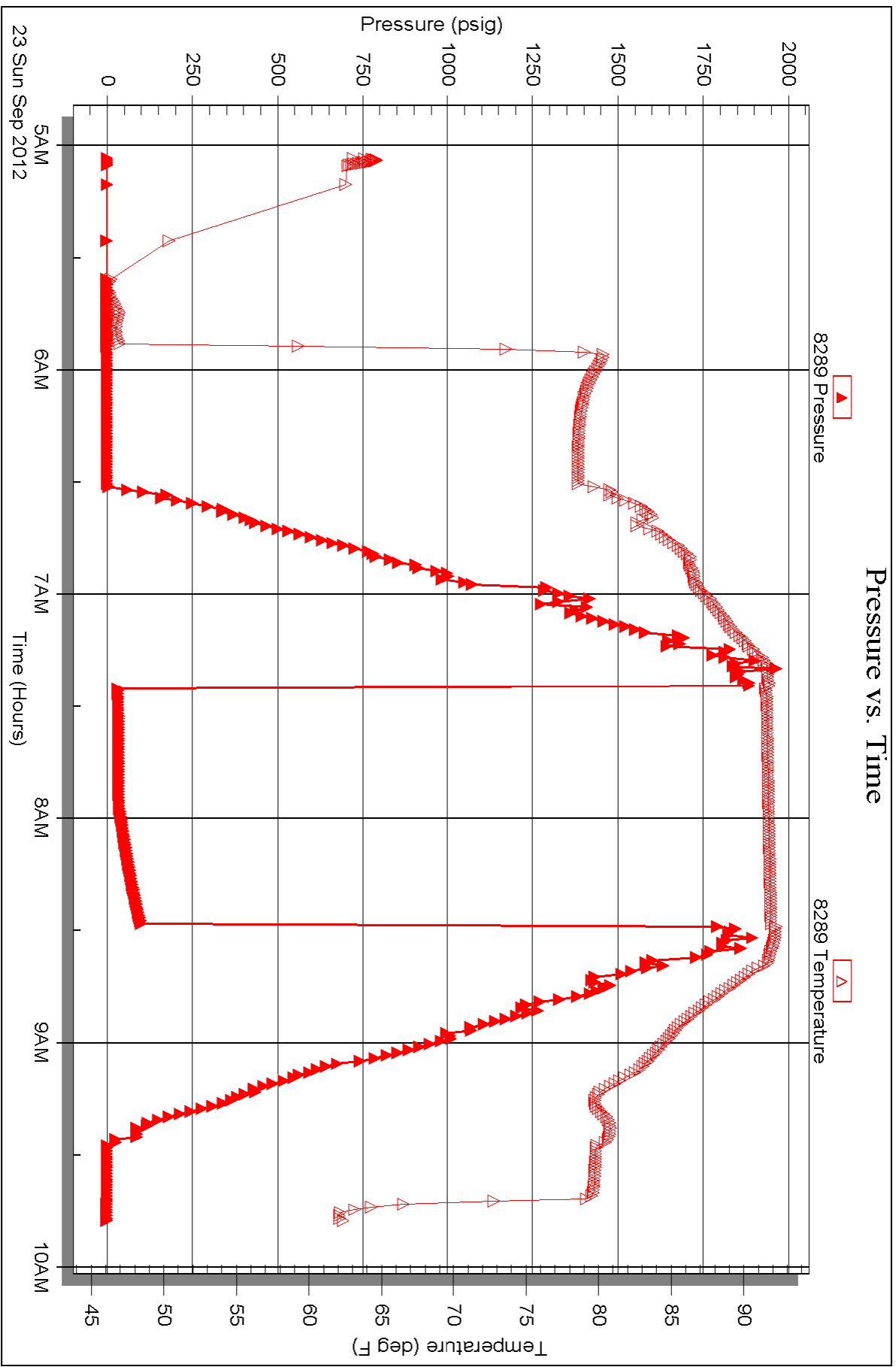


Serial #: 8289

Outside Baird Oil Company, LLC

Esslinger Ranch #1

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47869

Well Name & No. Esslinger Ranch #1-17 Test No. 1 Date 9-22-12
 Company Baied Oil Company, LLC Elevation 2419 KB 2414 GL
 Address PO Box 428, Logan, KS. 67646
 Co. Rep / Geo. Richard Bell Rig WW#8
 Location: Sec. 17 Twp. 3S Rge. 22w Co. Norton State Ks

Interval Tested 3616-3640 Zone Tested LKC-'E-F'
 Anchor Length 24' Drill Pipe Run 3494 Mud Wt. 9.2
 Top Packer Depth 3611 Drill Collars Run 124 Vis 58
 Bottom Packer Depth 3614 Wt. Pipe Run 0 WL 6.4
 Total Depth 3640 Chlorides 1100 ppm System LCM 1#
 Blow Description IFP-Weak Blow, Built to 1/2"
ISI-Dead
FFP-Weak Blow, Built to 1/8"
FSD-Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>Muddy Water with odor &</u>		<u>70</u>	<u>30</u>	
	<u>oil scum in tool</u>				

Rec Total 130 BHT _____ Gravity _____ API RW 280 @ 70 °F Chlorides 23,000 ppm

(A) Initial Hydrostatic 1802 Test 1150 T-On Location 12:49
 (B) First Initial Flow 10 Jars _____ T-Started 13:31
 (C) First Final Flow 53 Safety Joint _____ T-Open 14:56
 (D) Initial Shut-In 1150 Circ Sub _____ T-Pulled 17:56
 (E) Second Initial Flow 55 Hourly Standby _____ T-Out 19:20
 (F) Second Final Flow 76 Mileage 188.1 90rt 139.50 Comments _____
 (G) Final Shut-In 1110 Sampler _____
 (H) Final Hydrostatic 1764 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 1289.50
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1289.50

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47870

Well Name & No. Esslinger Ranch #1-17 Test No. 2 Date 9-23-12
 Company Baird Oil Company, LLC Elevation 2419 KB 2414 GL
 Address PO Box 428, Logan, Ks. 67646
 Co. Rep / Geo. Richard Bell Rig WW #8
 Location: Sec. 17 Twp. 3s Rge. 22w Co. Norton State Ks

Interval Tested 3686-3736 Zone Tested K
 Anchor Length 50' Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 3681 Drill Collars Run 124 Vis 58
 Bottom Packer Depth 3684 Wt. Pipe Run 0 WL 6.4
 Total Depth 3736 Chlorides 1100 ppm System LCM 1st
 Blow Description IFP - Weak surface Blow, Died in 20 min.
ISI - Dead, pull tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>HUCM, Mud w/oil spots,</u>	<u>50</u>		<u>50</u>	
	<u>Oil in tool when dumped</u>				

Rec Total 1 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1881 Test 1150 T-On Location 4:54
 (B) First Initial Flow 31 Jars _____ T-Started 5:03
 (C) First Final Flow 33 Safety Joint _____ T-Open 7:25
 (D) Initial Shut-In 99 Circ Sub _____ T-Pulled 8:25
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 9:48
 (F) Second Final Flow _____ Mileage 139.50 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1848 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow /
 Final Shut-In /

Sub Total 1289.50

MP/DST Disc't _____

Approved By _____ Our Representative Jaron McLenon *Thank you!*

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.