



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1137807
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: _____



1137807

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: <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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	Velma Lowry 1-34
Doc ID	1137807

Tops

Name	Top	Datum
Anhydrite	1975	+315
Base Anhydrite	2001	+289
Topeka	3273	-983
Heebner	3482	-1192
Toronto	3509	-1219
Lansing	3525	-1235
Base Kansas City	3710	-1420
Marmaton	3747	-1457
Arbuckle	3776	-1486
Granite	3886	-1596
Total Depth	3901	-1611

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

May 03, 2013

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

Re: ACO1
API 15-137-20636-00-00
Velma Lowry 1-34
NW/4 Sec.34-03S-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



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



Invoice

DATE	INVOICE #
4/19/2013	24321

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	#1-34	Velma Lowry	Norton	WW Drilling	Oil	Development	Cement Surface ...	Don

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.) - 220 Feet	1	Job	1,000.00	1,000.00
290	D-Air	2	Gallon(s)	35.00	70.00T
325	Standard Cement	150	Sacks	13.50	2,025.00T
279	Bentonite Gel	3	Sack(s)	25.00	75.00T
278	Calcium Chloride	5	Sack(s)	40.00	200.00T
581D	Service Charge Cement	150	Sacks	2.00	300.00
583D	Drayage	591.28	Ton Miles	1.00	591.28
	Subtotal				4,741.28
	Sales Tax Norton County			7.05%	167.09

*R 4/21/13
 P 4/24/13
 VLOWRY 190402 4908.37
 Velma Lowry 1-34- pump charge,
 cement, and other misc used to
 cement surface casing.*

We Appreciate Your Business!	Total	\$4,908.37
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Services, Inc.

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

TICKET No. **24321**

PAGE 1 OF 1

SERVICE LOCATIONS: Hays, Ks
 1. Ness City, Ks
 2. Wes Dole Co
 3. oil
 4. wildcat

WELL/PROJECT NO.: 1-39
 LEASE: Wlma Leary
 COUNTY/PARISH: Norton
 STATE: Ks
 CITY: _____
 DATE: 4-19-13
 OWNER: _____

TICKET TYPE: SERVICE SALES
 CONTRACTOR: Wes Dole Co
 RIG NAME/NO.: _____
 SHIPPED VIA: CT
 DELIVERED TO: SE/Norton, Ks
 ORDER NO.: _____

WELL TYPE: oil
 WELL CATEGORY: wildcat
 JOB PURPOSE: Cement Surface Raising
 WELL PERMIT NO.: _____
 WELL LOCATION: _____

INVOICE INSTRUCTIONS: _____

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					#113	80	mi				600	48000
576					Cut Ramp Charge - cut Surface	1	ea			800 ft	120000	120000
290					D-Air	2	gal				3500	7000
385					Standard Cement	150	lbs			14100 lbs	1350	202500
279					Bestonite Gel	3	gals			882 lbs	2520	75000
278					Calcium Chloride	5	sts			400 lbs	2000	20000
581					Service Charge - Cement	150	gals			14782 lbs	200	30000
583					Drillage	80	mi			59128 ft	100	59128

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

REMIT PAYMENT TO:

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

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

DATE SIGNED: 4-19-13 TIME SIGNED: 1600
 A.M. P.M.

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?

AGREE UN-DECIDED DIS-AGREE

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 41

TOTAL: 4908.3

Tax: 167.0

SWIFT OPERATOR: Ben Bowman 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 4-19-13 PAGE NO. 1

CUSTOMER Baird Oil Co. WELL NO. 1-34 LEASE Velma Lowry JOB TYPE Cement Surface TICKET NO. 24321

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

	1550							TO 221' On location - Rig Dng.
	1650							Set up THKS Start 8 7/8" casing to 220' 24#/ft = 220 - 20 shoe = 200 = 12 3/4 BBL Fin casing
	1745	5						Rig circ & chain down casing Start 150 SKS standard cut 3 3/8 gel, 3% CC @ 14.7/gal = 36 1/3 BBL
		5	36 1/3				100	Finish cut - Start Displ
	1800	0	12 3/4				150	Finish Displ - Close in
	1830							Job Complete Wash up & Rack up

THANKS
Dan, Tom, Russell
& John

5 BBL cut circ to RT



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



Invoice

DATE	INVOICE #
4/25/2013	23984

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	#1-34	Velma Lowry	Norton	WW Drilling Rig ...	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 - 3905 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
277	Gilsonite (Coal Seal)				400	Lb(s)	0.75	300.00T
283	Salt				1,550	Lb(s)	0.20	310.00T
285	CFR-1				100	Lb(s)	4.00	400.00T
581D	Service Charge Cement				240	Sacks	2.00	480.00
583D	Drayage				967	Ton Miles	1.00	967.00
	Subtotal							14,452.00
	Sales Tax Norton County						7.05%	777.26
<p style="text-align: center;">R 4/29/13 P 4/29/13 V Lowry 190402 15,229.26</p> <p>Velma Lowry 1-34 - pump charge, cement, and other misc expenses used to cement production casing</p>								
We Appreciate Your Business!							Total	\$15,229.26



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

TICKET No **23984**

PAGE 1 OF 2

1. SERVICE LOCATIONS: 1. Hays, KS WELL/PROJECT NO: #1-34 LEASE: Velma Lowry COUNTY/PARISH: Newton STATE: KS DATE: 4-25-13 OWNER: same
 2. Ness City, KS TICKET TYPE: SERVICE CONTRACTOR: W W R Rig #12 RIG NAME/NO.: Newton SHIPPED VIA: ET ORDER NO.:
 3. WELL TYPE: oil WELL CATEGORY: Development JOB PURPOSE: longstring DELIVERED TO: Location WELL PERMIT NO.:
 4. REFERRAL LOCATION: INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					MILEAGE # 111	80	mi				6.00	480.00
578					Pump Charge (Longstring)	1	ea			3905	1500.00	1500.00
221					KEL	2	pa				25.00	50.00
280					Flocheck-21	500	gal				2.50	1250.00
290					D-Air	3	gal				35.00	105.00
402	409				Centralizer	11	ea			5.5	70.00	770.00
403					Basket	1	ea				250.00	250.00
404					Part Collar	1	ea				2400.00	2400.00
406					R.D. Plug & Bag/le	1	ea				250.00	250.00
407					Insert Flat Shoe w/AIL	1	ea				350.00	350.00
411					Recipo 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
 X Richard Bell DATE SIGNED: 4-25-13 TIME SIGNED: 2:35 A.M. P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				8755	
WE UNDERSTOOD AND MET YOUR NEEDS?				5697	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				14452	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				777	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	15,229.00

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



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

TICKET CONTINUATION

TICKET No. 23984

CUSTOMER *Barid Oil Co.*
WELL *#1-34 Wellmberry*

DATE *4-25-13* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
<i>325</i>		<i>2</i>				<i>200</i>	<i>sk</i>			<i>13.50</i>	<i>2700.00</i>	
<i>325</i>		<i>2</i>				<i>40</i>	<i>sk</i>			<i>11.00</i>	<i>440.00</i>	
<i>276</i>		<i>2</i>				<i>50</i>	<i>#</i>			<i>2.00</i>	<i>100.00</i>	
<i>277</i>		<i>2</i>				<i>400</i>	<i>#</i>			<i>.75</i>	<i>300.00</i>	
<i>283</i>		<i>2</i>				<i>1850</i>	<i>#</i>			<i>.20</i>	<i>310.00</i>	
<i>285-</i>		<i>2</i>				<i>100</i>	<i>#</i>			<i>4.00</i>	<i>400.00</i>	
<i>581</i>		<i>2</i>								<i>2.00</i>	<i>480.00</i>	
<i>583</i>		<i>2</i>								<i>9.67</i>	<i>967.00</i>	
SERVICE CHARGE MILEAGE CHARGE TOTAL WEIGHT LOADED MILES CUBIC FEET TON MILES												
CONTINUATION TOTAL <i>5697.00</i>												

JOB LOG

SWIFT Services, Inc.

DATE 4-25-13 PAGE NO. 7

CUSTOMER Baird Oil Co WELL NO. #1-34 LEASE Valma Lowry JOB TYPE Longstring TICKET NO. 23984

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							on loc w/FE
								RTD 3905' LTD 3901' 5 1/2" x 14" x 3898' x 45' cent 1-10, 41 Basket 42 P.C. 42 @ 1974'
	2015							start FE
	2200							Break Circ
	2300	2.5	7					Plug RH 30sk 60/40 Poz 2% gel
	2305	5	0			150		start KCL flush 15 bbl
	2308	5	15/0					start Flacch 500 gal
	2310	5	12/0					start KCL flush 5 bbl
	2311	5	5/0					start 60/40 Poz 4% gel 10sk
	2312	5	5/0					start Standard 200sk
	2321		43					End Cement Wash Pk
								Drop L.D. Plug
	2329	6	0			150		start Displacement
	2340	5	68			200		Catch Cement
	2345		94			550/400		Land Plug Release Pressure Float Held

Thank you
Nick, David E. + Isaac

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
5/6/2013	24330

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	#1-34	Velma Lowry	Norton	Alliance Well Ser...	Oil	Development	Cement Port Collar	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	6.00	480.00
576D-D	Pump Charge - Port Collar - 1974 Feet				1	Job	1,500.00	1,500.00
290	D-Air				2	Gallon(s)	42.00	84.00T
105	5 1/2" Port Collar Tool Rental With Man				1	Each	350.00	350.00T
330	Swift Multi-Density Standard (MIDCON II)				200	Sacks	17.00	3,400.00T
276	Flocele				50	Lb(s)	2.00	100.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				895.59	Ton Miles	1.00	895.59
	Subtotal							7,259.59
	Sales Tax Norton County						7.05%	277.35
	R5/10/2013							
	P5/10/2013							
	V Lowry 190402 7162.76							
	Velma Lowry 1-34 - Pump Charge, Cement & other misc expenses used to cement port collar							
	V Lowry 190402 374.68							
	Velma Lowry 1-34 - Rental of port collar & man when cementing port collar							

We Appreciate Your Business!

Total

\$7,536.94



Services, Inc.

TICKET
No. 24330

CHARGE TO: Band Oil Co
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

PAGE 1 OF 1

SERVICE LOCATIONS

1. <u>Haystack, KS</u>	WELL/PROJECT NO. <u>1-34</u>	LEASE <u>Velva Levey</u>	COUNTY/PARISH <u>Norton</u>	STATE <u>Ks</u>	CITY _____	DATE <u>5-6-13</u>	OWNER _____
2. <u>Ness City, KS</u>	TICKET TYPE <u>SALES</u>	CONTRACTOR <u>Allique Well Service</u>	RIG NAME/NO. _____	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>SE Norton, KS</u>	ORDER NO. _____	
3. _____	WELL TYPE <u>D1</u>	WELL CATEGORY <u>without</u>	JOB PURPOSE <u>Revent Brt Colter</u>	WELL PERMIT NO. _____	WELL LOCATION _____		
4. _____	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT		
		LOC	ACCT	DF									
575		1			MILEAGE #113	80 mi				600	48000		
576D		1			Pump Charge - cur Brt Colter	1 ea		1974	A	15000	15000		
290		1			D-Air	2 gal				4200	8400		
105		1			Brt Colter Tail Rotor w/ man	1 ea		5 hr	in	35000	35000		
330		2			SUD Revent	800 SKS			lb	1700	3400		
276		2			Flacels	50 lbs				200	10000		
581		2			Service Charge - Revent					200	45000		
583		2			Drays	80 mi		89559	7m	22390	165	100	88559

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 5-6-13 TIME SIGNED 10:15

DATE SIGNED _____ TIME SIGNED _____

SWIFT OPERATOR Ann Lowman

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	7259.55
TOTAL	7536.9

Thank You

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

JOB LOG

SWIFT Services, Inc.

DATE 5-6-13 PAGE NO. 7

CUSTOMER Barril Oil Co. WELL NO. 1-34 LEASE Velma Lowry JOB TYPE Cement Port Collar TICKET NO. 24330

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000					2 3/8"	5 1/2"	On loc w/ P.C. Tool
	1015							Start P.C. Tool in hole to 1974'
								7.6 BBL Tbg. 61 BBL ANN = <u>68 1/2 BBL = 105 SKS</u>
	11:15					C	1000	Port Collar @ 1974' - Test Closed - OK
		3	3			C	600	Open P.C. - inc rate
		3				750	C	Hook to Tbg - est rate
	11:30	3				600	C	Start 80 BBL Mud
		3	20				C	NO Blow on ANN
		4 1/4	60			600	C	@ 60 BBL - NO Blow - inc rate
		2				800	C	@ 75 BBL - NO Blow - slow rate
			80			200	C	Fin Mud - NO Blow - shut down
								Wait on orders -
								Have trickle of Mud out ANN
								Probably from charging up third zone
								Close ANN Valves
	12:30							Wait on 2 80 BBL trks of mud
		1 1/2	15			200		Start 80 BBL Mud -
		2	30			200		slowly inc rate - Partial Returns
		2 1/2	50			400		Circulating a lot of heavy mud
		2	6			400		out - Returns come to go
		2 1/2				400		Fin - 80 BBL - Wait for 2 nd TRK
		2	10			250		Start 80 BBL Mud - good mud Returns
		3	15			400		Fin mud - Good returns & start cut
		3				400		@ 11.2 #/gal.
		3	95			650		cut circ @ 175 SKS @ 11.2 #/gal
		3	103			550		Mix 25 SKS @ 13.5 #/gal
						200		Fin cut - DISPI 7 BBL.
			7					Rig run 5 JTS
			12			250		Rev-out 2 Plug clean
	1600		30			250		Fin rev-out
								Job Complete - wash up & Packed Tools
								30 SKS to Pit
								175 SKS SMD @ 11.2 #/gal - to circ
								25 SKS SMD @ 13.5 #/gal - Tail in
								200 SKS SMD total

Thanks,
Don, Jon, Flint & John

API# 15-137-20636-0000

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC
 LEASE Velma Lourey # 1-34
 FIELD Wildcat
 LOCATION 1110' FNL + 2100' FWL
 SEC 34 TWP 35 RGE 22W
 COUNTY Norton STATE Kansas

ELEVATION
 KB 2290'
 DF 2288'
 GL 2282'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR MMW Drilling Rig #12
 SPUD 4/19/13 COMP 4/25/13
 SAMPLES SAVED FROM 3250' TO R.T.D.

CASING
 Surface 8 7/8" @ 220'
 Production 5 1/2" @ 3874'

ELECTRIC LOGS
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM <u>E-log</u>	A	B	C	D
				●			
<u>Anhydrite</u>	<u>1980</u>	<u>1975</u>	<u>+ 315</u>	<u>+ 319</u>			
<u>Base Anhydrite</u>	<u>2007</u>	<u>2001</u>	<u>+ 289</u>	<u>+ 288</u>			
<u>Topeka</u>	<u>3275</u>	<u>3273</u>	<u>- 983</u>	<u>- 987</u>			
<u>Heebner</u>	<u>3485</u>	<u>3482</u>	<u>- 1192</u>	<u>- 1195</u>			
<u>Toronto</u>	<u>3512</u>	<u>3509</u>	<u>- 1219</u>	<u>- 1220</u>			
<u>Laasing</u>	<u>3528</u>	<u>3525</u>	<u>- 1235</u>	<u>- 1239</u>			
<u>Base Kansas City</u>	<u>3712</u>	<u>3710</u>	<u>- 1420</u>	<u>- 1424</u>			
<u>Marmaton</u>	<u>3750</u>	<u>3747</u>	<u>- 1457</u>				
<u>Arbuckle</u>	<u>3779</u>	<u>3776</u>	<u>- 1486</u>	<u>- 1489</u>			
<u>Granite</u>	<u>3890</u>	<u>3886</u>	<u>- 1596</u>	<u>- 1579</u>			
<u>Total Depth</u>	<u>3905</u>	<u>3901</u>	<u>- 1611</u>	<u>- 1621</u>			

REFERENCE WELLS

A Baird Oil Co Esslinger Ranch, Tract # 1-27, 735' FSL + 2545' FWL Sec 27-35-22

B

C

D Port Callor @ 1974'

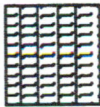

REMARKS

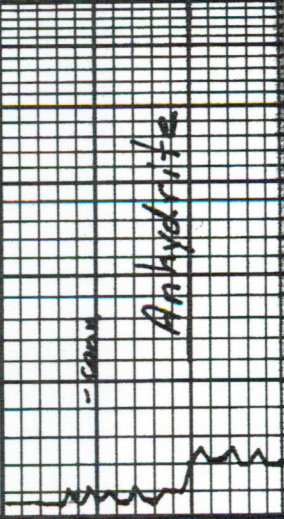

This well ran 4 feet higher on the casing top than the reference well. After reviewing the open hole log it was decided production casing should be cemented to further test the well. These zones should be tested: 3691'-3694', 3672-3674, 3569-3573' and 3555'-3557.

Richard B. Bell
4/26/13

7502

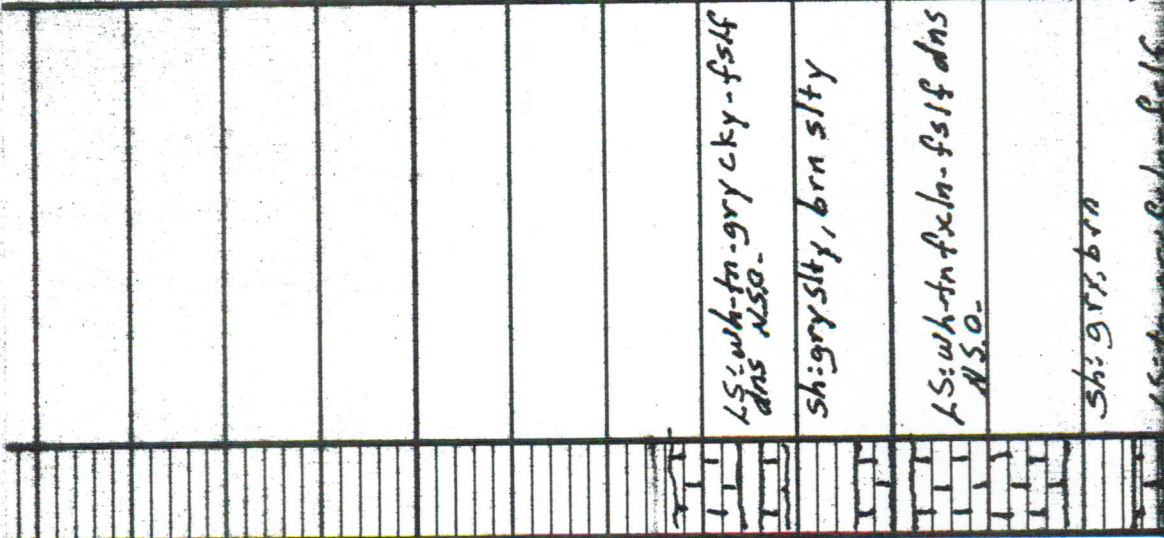
LEGEND

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

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	<p>1960</p> <p>80</p>				

LOG 7710

Samples are lagged
good samples



60

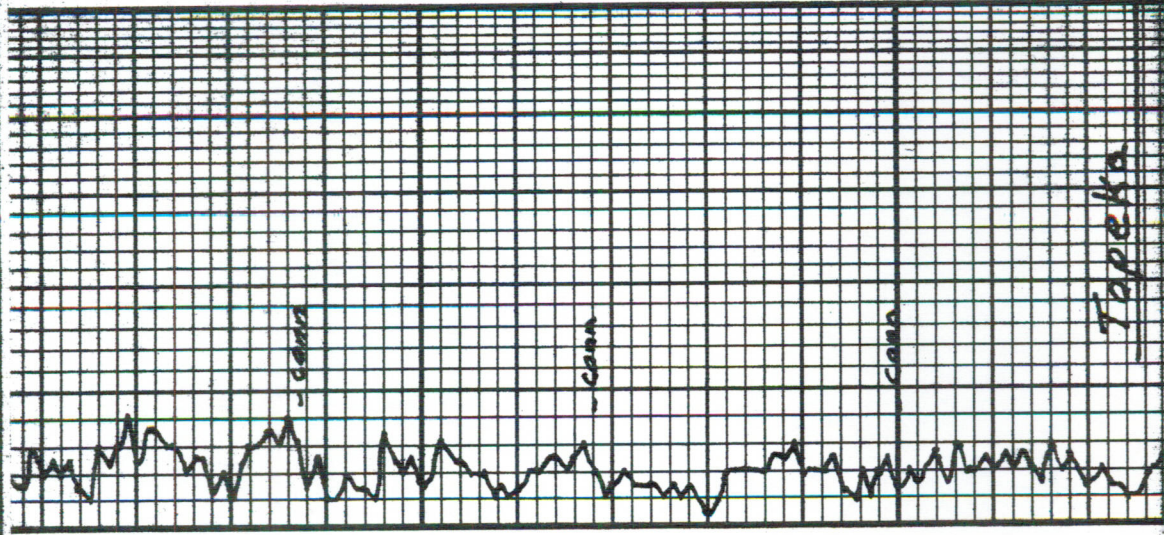
80

3200

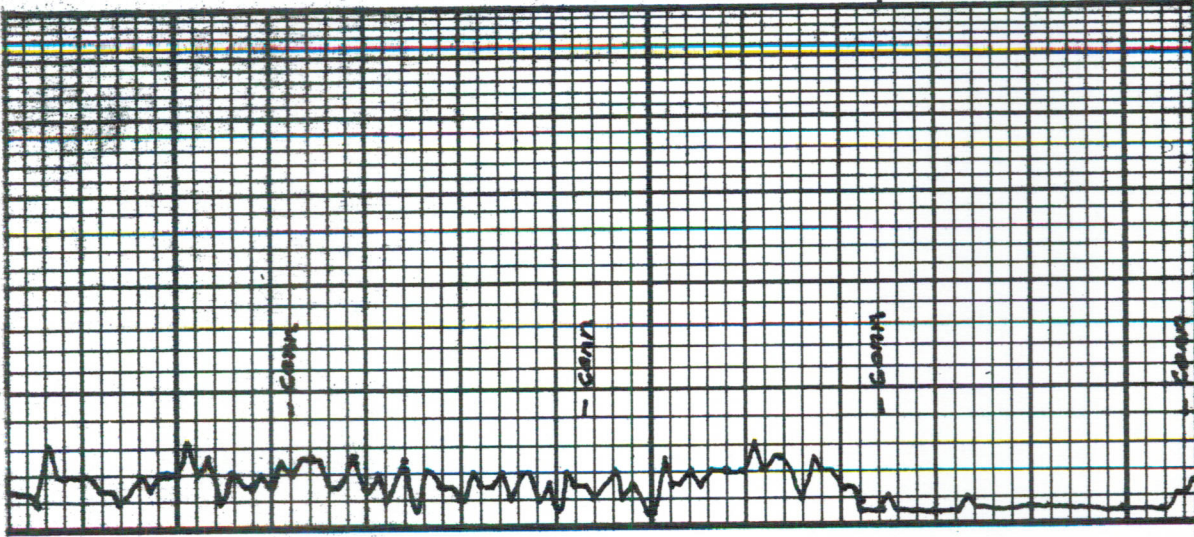
20

40

60

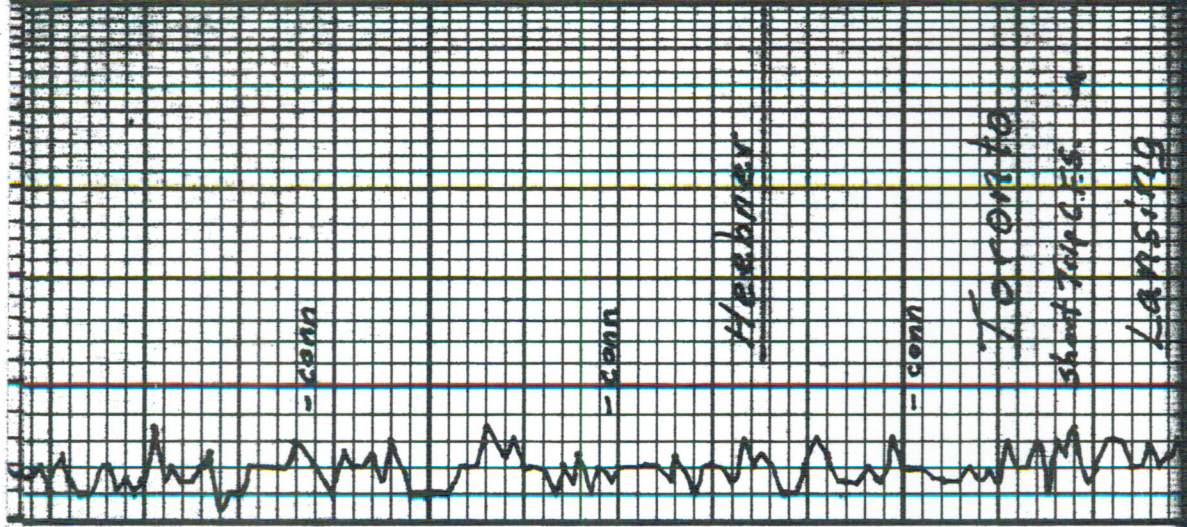


Tape Ka



3300
 20
 40
 60
 80
 3400

LS: wh-fn fxln Tr. ool Tr. ool N.S.O. Sh: brn, gry	LS: fn-gry fxln ool pp N.S.O. Δ fn	LS: wh-fn gry cky-fxln das.	Sh: brn, gry	LS: wh-fn shi.ool pp N.S.O.	LS: wh-fn v. cky-fxln ool pp N.S.O. Δ wh-fn	LS: wh-fn. Lt. gry fxln Tr. ool pp N.S.O. Tr. glauc. spks.	Sh: brn	Sh: brn slty, gry slty Tr. ss. brn v. fn. gn. Consol Ingrax N.S.O.	Sh: brn slty
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20

40

60

80

3500

20

LS: wh-tn sli.cky-faln oöl
ppø N.S.O.

Sh: gry, brn

LS: wh-tn cky-faln oöl
ppø sli. ppx. 5pkø
Tr BIK carb sk

LS: tn-brn fxln dms

LS: wh-tn cky. fxln sli.
friable ppø N.S.O.
Tr 2 wh-tn

Sh: brn slty

LS: wh-tn fch oöl ppø
N.S.O.

LS: wh-tn sli.cky-faln
dms

LS: tn-gry fslf dms

Sh: BIK Carb.

LS: tn fslf dms

Sh: gry slty

Sh: gry slty, brn slty

LS: wh-tn fch. sli. fslf
sli. oöl w/ fcs incl. N.S.O.
ppø N.S.O.

Sh: brn, gry

LS: wh-tn sl.cky-faln

-conn

-conn

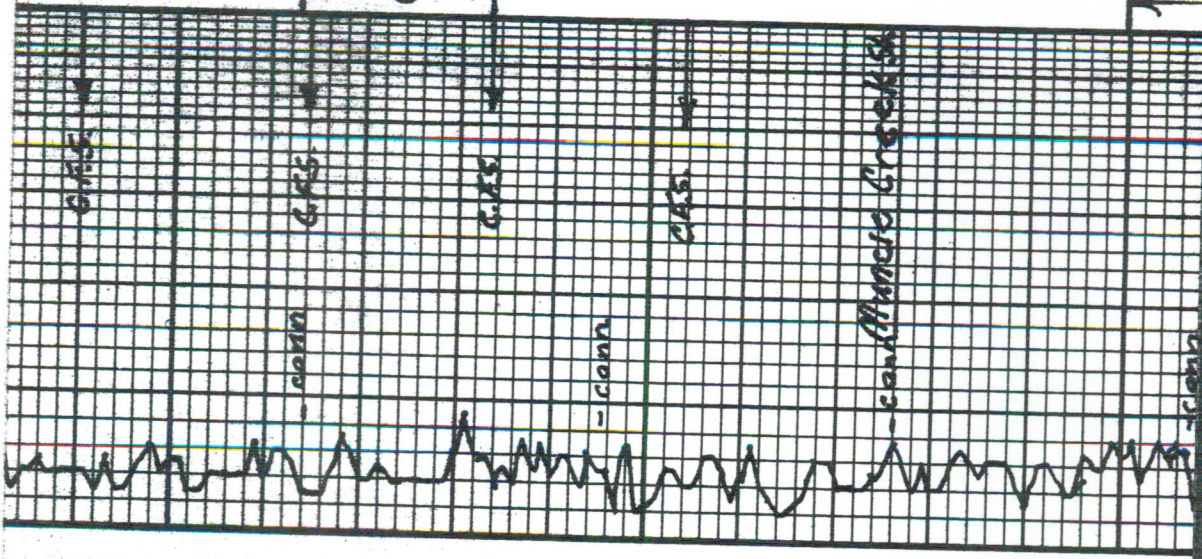
Herbier

-conn

Toronto

Sheet 74p C.F.S.

Lansing



40
60°C
80°C
3600
40
40

Sh: brn, gry	LS: wh-fn chy-fn dnt pp - in part of N.S.O.
Sh: gry, brn	Sh: blk Carb.
Sh: gry, slty	Sh: gry, brn
LS: wh-fn chy-fn dnt pp - in part of N.S.O.	
Sh: blk Carb.	
Sh: gry, slty	
LS: wh-fn chy-fn dnt pp - in part of N.S.O.	
Sh: gry, brn	

Sh: brn, gry
LS: wh-fn chy-fn dnt
pp - in part of N.S.O.

Sh: blk Carb.
Sh: gry, slty
LS: wh-fn chy-fn dnt
pp - in part of N.S.O.

up cut no odor
40 ft
LS: wh-fn chy-fn dnt
sh: brn

DST #1 3563'-3583'
45-45-45-45
IF: 14" blow
FF: surface blow
Recovery: 68' MO
60% O, 40% M
HYD: 1792-1762 #
FP: 14-23/30-40 #
BNP: 1116-1058 #
BHTemp: 93°F.

DST #2 3581'-3603'
30-30-30-30
Mud dropped
IF: Surface blow
FF: No blow
Recovery: 174' M'50
1% O, 99% M
HYD: 1907-1707 #
FP: 95-96/96-96 #
BNP: 155-112 #
BHTemp: 88°F.

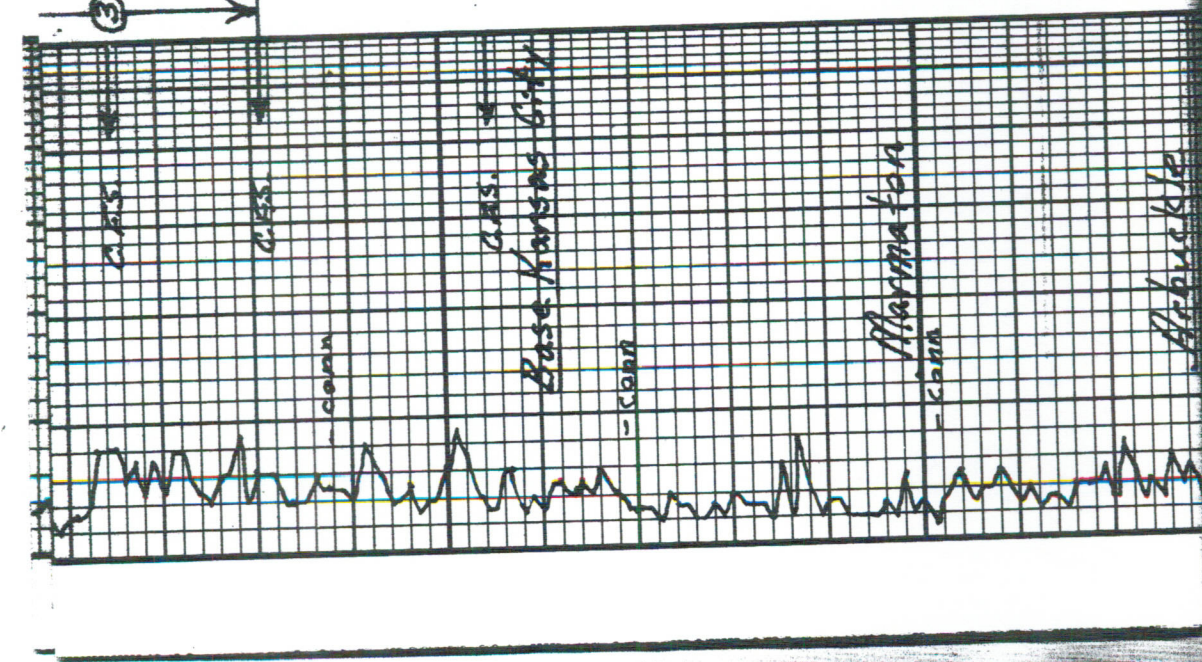
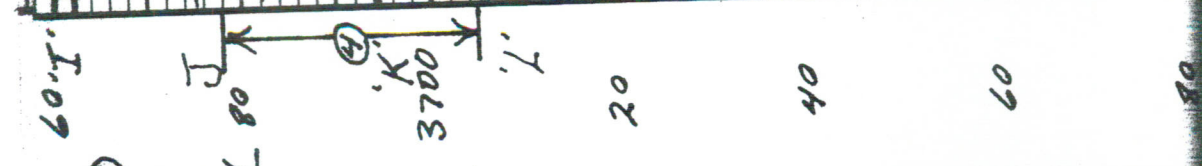
DST #3 3660'-3681'
45-45-0-0
Mud dropped
IF: Surface blow
Recovery: 70' Total

Trilobite Testing

10' M.O. 70% W, 30% M
 60' O.C.M 1070, 90% M
 Hyd: 1878-1782#
 FP: 54-56#
 BHP: 1051#
 BHTemp: 90°F

DST#4 3678'-3705'
 45-45-46-45
 mud dropped
 TF: wk blow incr. to 5"
 ISI: No blow
 FF: wk blow incr. to 2"
 FSI: No blow
 Recovery: 244' Total
 124' O.C.M 1070, 90% M
 60' O+WCM 270,
 10% W, 88% M
 60' O.C.W 270, 98% W
 Hyd: 1914-1754#
 FP: 96+H4/117-127#
 BHP: 917-850#
 BHTemp: 93°F

LS: wh-tn-feln-fs/ck-fuln No vis N.S.O. sh: brn	LS: wh-tn-feln-fs/fool w/ foss incl. sp. & in part kt. rainbow s. o. pp. f.o. No odor sh: brn, gry	LS: wh-tn-feln-fs/fool w/ foss incl. kt. o. sat. pp. f.o. ft. odor sh: brn	LS: wh-tn-cky-feln pp N.S.O.	sh: brn, mar	Tr. ss: v. fn. gn consol In gran N.S.O.	Tr. ls: wh-tn-feln dns sh: brn, gry	LS: wh-tn-ya/cky-fuln dns N.S.O. sh: brn slty	LS: wh-tn-cky-fuln sdy pp & Tr. Tary O. sta incr. sdy
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DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Velma Lowry #1-34

34-3s-22w Norton KS

Start Date: 2013.04.22 @ 21:55:00

End Date: 2013.04.23 @ 05:14:30

Job Ticket #: 50659 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.29 @ 11:42:35

Baird Oil Company

34-3s-22w Norton KS

Velma Lowry #1-34

DST # 1

LKC-D

2013.04.22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

Job Ticket: 50659

DST#: 1

ATTN: Richard Bell

Test Start: 2013.04.22 @ 21:55:00

GENERAL INFORMATION:

Formation: **LKC-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:32:00

Time Test Ended: 05:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3563.00 ft (KB) To 3583.00 ft (KB) (TVD)

Reference Elevations: 2293.00 ft (KB)

Total Depth: 3583.00 ft (KB) (TVD)

2283.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 40.13 psig @ 3565.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.22

End Date:

2013.04.23

Last Calib.:

2013.04.23

Start Time: 21:55:01

End Time:

05:14:30

Time On Btm:

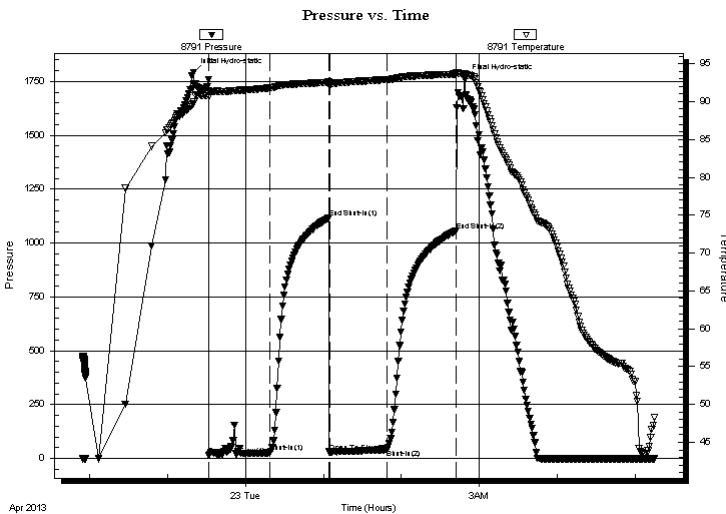
2013.04.22 @ 23:20:00

Time Off Btm:

2013.04.23 @ 02:48:30

TEST COMMENT: IF: Weak blow, Built to 1/4 in. over 45 mins.
IS: No blow back over 45 mins.
FF: Weak blow, After 15 mins. Died after 40 mins.
FS: No blow back after 45 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.48	89.73	Initial Hydro-static
12	14.75	90.73	Open To Flow (1)
59	27.33	91.83	Shut-In(1)
104	1116.31	92.57	End Shut-In(1)
105	30.58	92.31	Open To Flow (2)
149	40.13	92.91	Shut-In(2)
202	1058.13	93.63	End Shut-In(2)
209	1762.01	93.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
68.00	HOCM-40% m 60% o	0.33

* 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

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

Job Ticket: 50659

DST#: 1

ATTN: Richard Bell

Test Start: 2013.04.22 @ 21:55:00

Tool Information

Drill Pipe:	Length: 3444.00 ft	Diameter: 3.80 inches	Volume: 48.31 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.90 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3563.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3548.00	
Hydraulic tool	5.00			3553.00	
Packer	5.00			3558.00	20.00 Bottom Of Top Packer
Packer	5.00			3563.00	
Stubb	1.00			3564.00	
Perforations	1.00			3565.00	
Recorder	0.00	8791	Inside	3565.00	
Recorder	0.00	8651	Outside	3565.00	
Perforations	15.00			3580.00	
Bullnose	3.00			3583.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

Job Ticket: 50659

DST#: 1

ATTN: Richard Bell

Test Start: 2013.04.22 @ 21:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
68.00	HOCM-40% <i>m</i> 60% <i>o</i>	0.334

Total Length: 68.00 ft Total Volume: 0.334 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

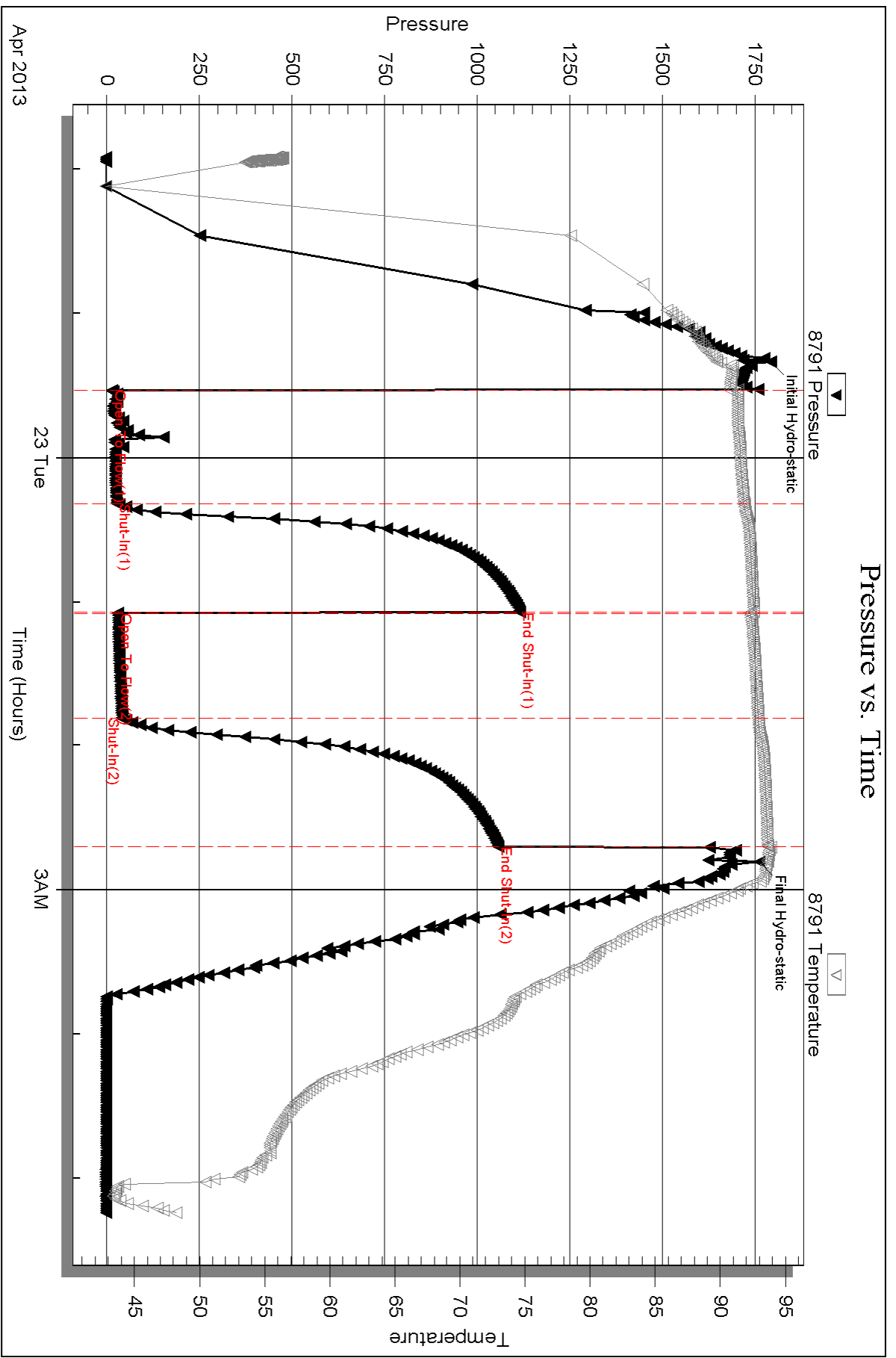
Serial #: 8791

Inside

Baird Oil Company

Velma Low ry #1-34

DST Test Number: 1

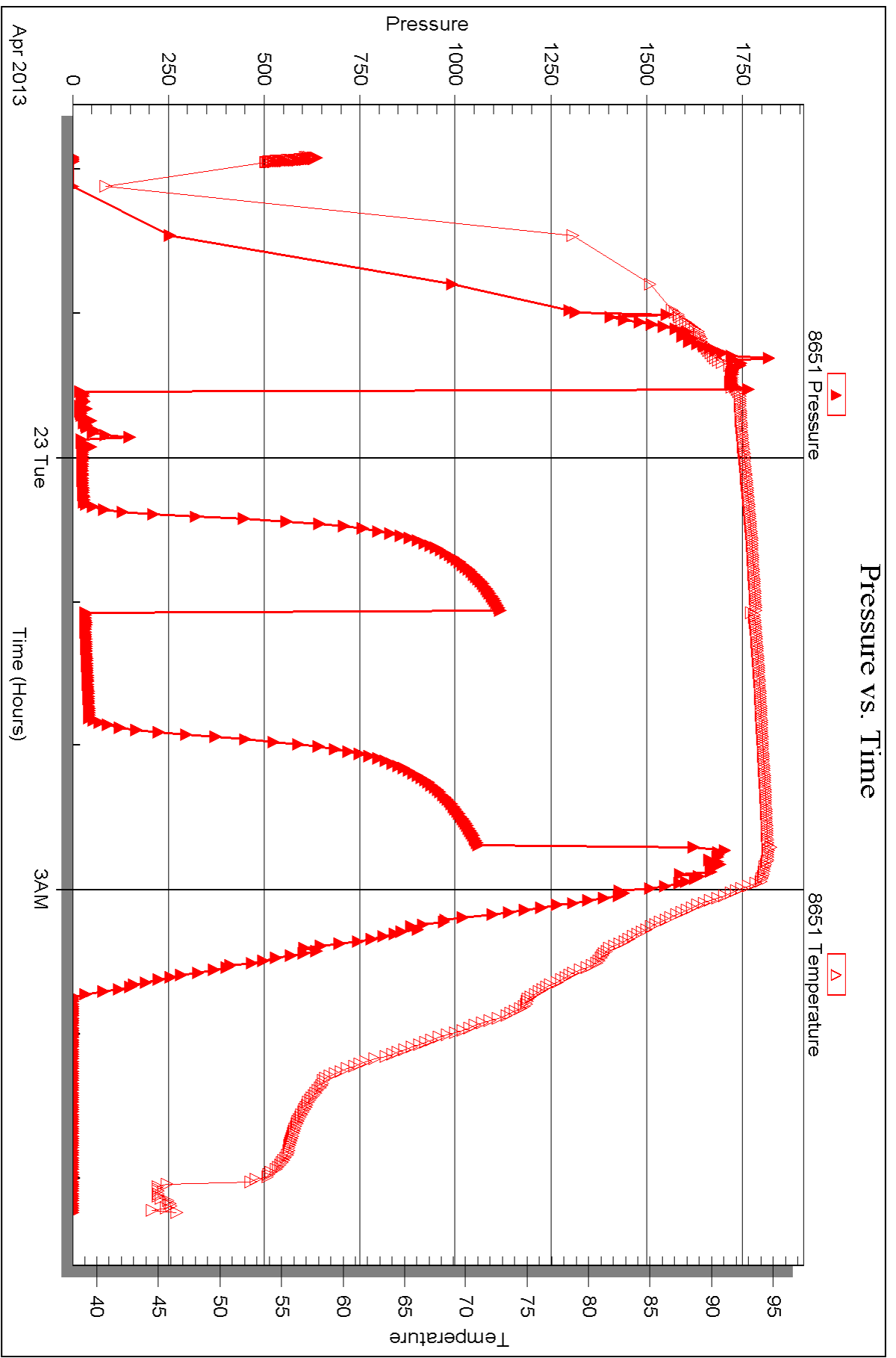


Serial #: 8651

Outside Baird Oil Company

Velma Low ry #1-34

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Velma Lowry #1-34

34-3s-22w Norton KS

Start Date: 2013.04.23 @ 11:30:00

End Date: 2013.04.23 @ 17:00:30

Job Ticket #: 50660 DST #: 2

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

Printed: 2013.04.29 @ 11:41:55

Baird Oil Company
34-3s-22w Norton KS
Velma Lowry #1-34
DST # 2
LKC-EJF
2013.04.23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

ATTN: Richard Bell

Job Ticket: 50660

DST#: 2

Test Start: 2013.04.23 @ 11:30:00

GENERAL INFORMATION:

Formation: **LKC-EF**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:21:00

Time Test Ended: 17:00:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3581.00 ft (KB) To 3603.00 ft (KB) (TVD)

Reference Elevations: 2293.00 ft (KB)

Total Depth: 3603.00 ft (KB) (TVD)

2283.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 95.95 psig @ 3585.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.23

End Date:

2013.04.23

Last Calib.:

2013.04.23

Start Time: 11:30:01

End Time:

17:00:30

Time On Btm:

2013.04.23 @ 13:03:30

Time Off Btm:

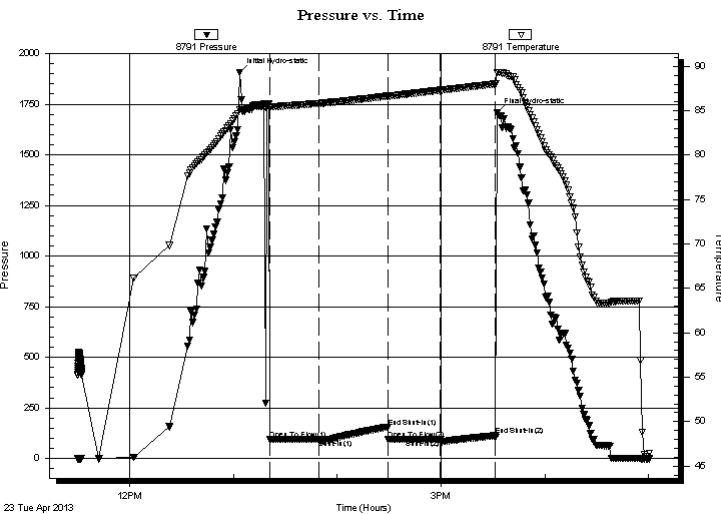
2013.04.23 @ 15:32:30

TEST COMMENT: IF: Set tool lost mud, picked up filled hole reset tool. Mud held, Weak blow surface over 30 mins.

IS: No blow back

FF: No blow .

FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1907.42	85.09	Initial Hydro-static
18	95.22	85.39	Open To Flow (1)
46	95.61	85.83	Shut-In(1)
86	155.16	86.64	End Shut-In(1)
86	95.58	86.64	Open To Flow (2)
116	95.95	87.31	Shut-In(2)
148	112.27	88.01	End Shut-In(2)
149	1706.76	89.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
174.00	Mud w ith oil specs-99%m1%	1.36

* 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

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

Job Ticket: 50660

DST#: 2

ATTN: Richard Bell

Test Start: 2013.04.23 @ 11:30:00

Tool Information

Drill Pipe:	Length: 3447.00 ft	Diameter: 3.80 inches	Volume: 48.35 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.94 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3581.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 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
Shut In Tool	5.00			3566.00	
Hydraulic tool	5.00			3571.00	
Packer	5.00			3576.00	20.00 Bottom Of Top Packer
Packer	5.00			3581.00	
Stubb	1.00			3582.00	
Perforations	3.00			3585.00	
Recorder	0.00	8791	Inside	3585.00	
Recorder	0.00	8651	Outside	3585.00	
Perforations	15.00			3600.00	
Bullnose	3.00			3603.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

Job Ticket: 50660

DST#: 2

ATTN: Richard Bell

Test Start: 2013.04.23 @ 11:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
174.00	Mud w ith oil specs-99%m1%o	1.357

Total Length: 174.00 ft Total Volume: 1.357 bbl

Num Fluid Samples: 0

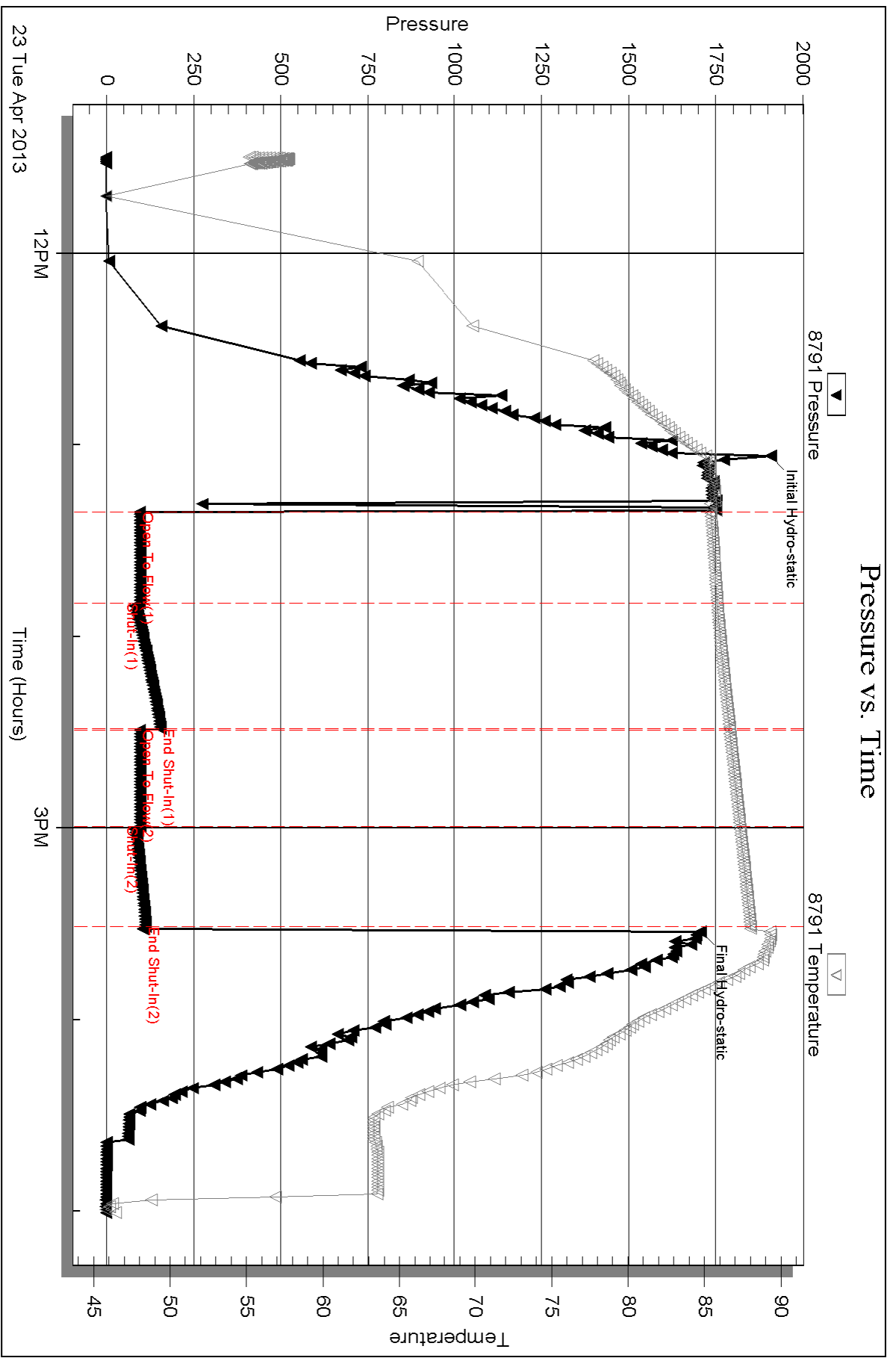
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

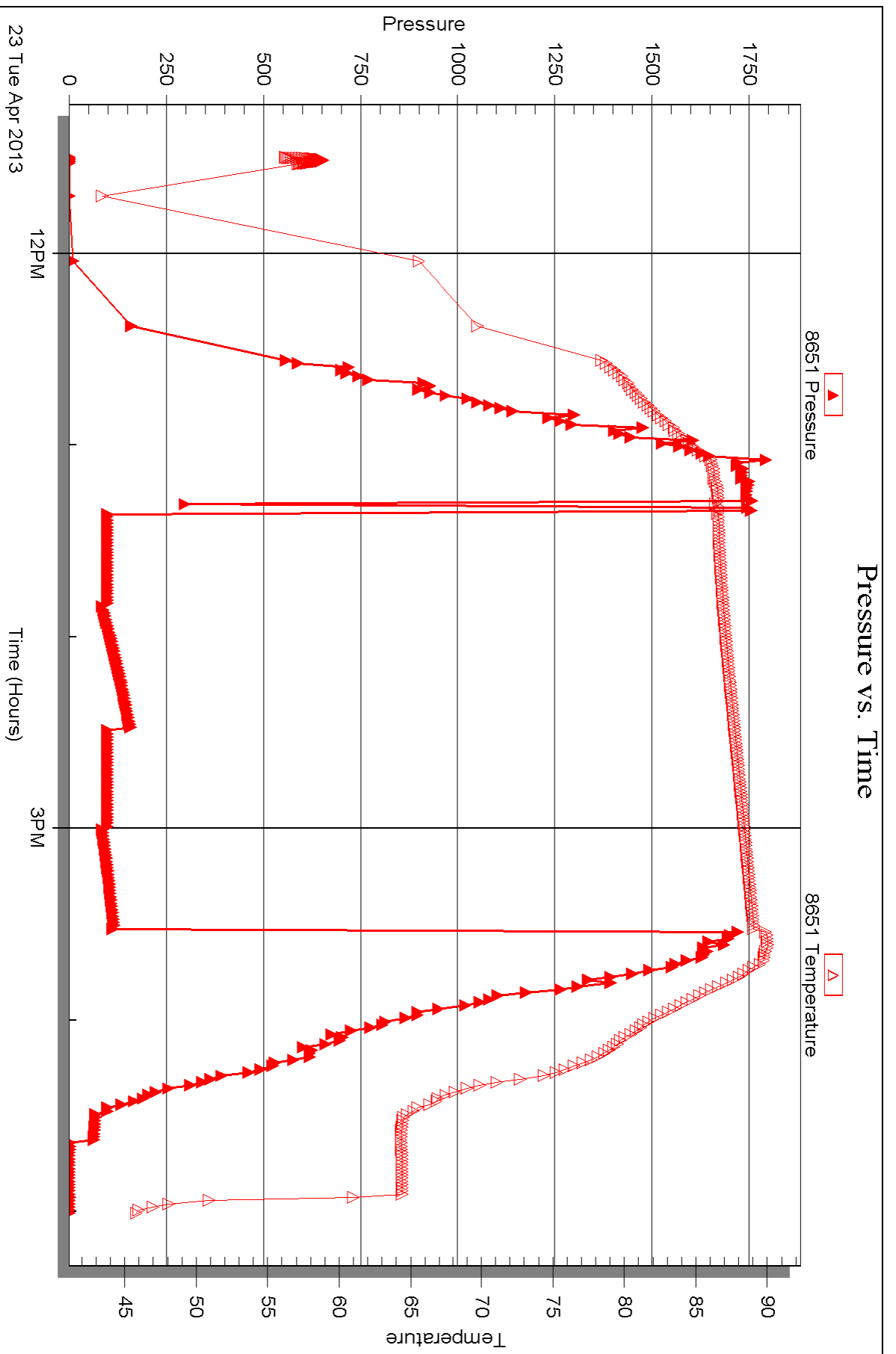


Serial #: 8651

Outside Baird Oil Company

Velma Low ry #1-34

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Velma Lowry #1-34

34-3s-22w Norton KS

Start Date: 2013.04.24 @ 02:30:00

End Date: 2013.04.24 @ 08:43:30

Job Ticket #: 50661 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.29 @ 11:41:13

Baird Oil Company

34-3s-22w Norton KS

Velma Lowry #1-34

DST # 3

LKC-J

2013.04.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

Job Ticket: 50661

DST#: 3

ATTN: Richard Bell

Test Start: 2013.04.24 @ 02:30:00

GENERAL INFORMATION:

Formation: **LKC-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:28:30

Time Test Ended: 08:43:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr

Unit No: 61

Interval: 3650.00 ft (KB) To 3681.00 ft (KB) (TVD)

Reference Elevations: 2293.00 ft (KB)

Total Depth: 3681.00 ft (KB) (TVD)

2283.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 56.12 psig @ 3653.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.24

End Date:

2013.04.24

Last Calib.: 2013.04.24

Start Time: 02:30:01

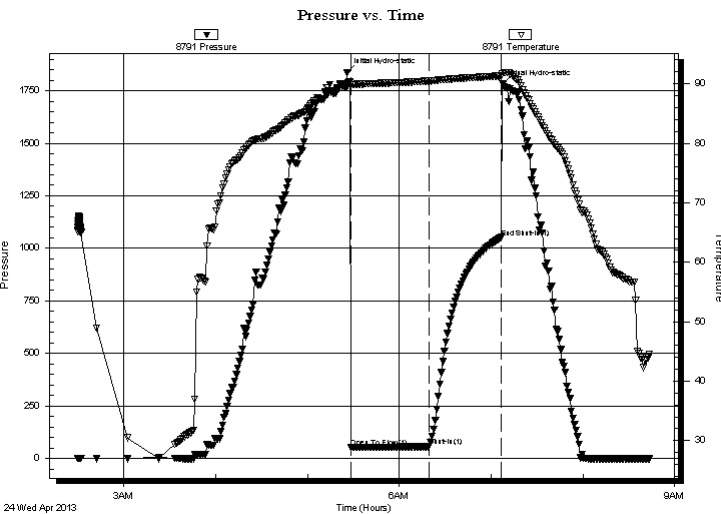
End Time:

08:43:30

Time On Btm: 2013.04.24 @ 05:26:00

Time Off Btm: 2013.04.24 @ 07:07:30

TEST COMMENT: IF: Weak blow, After 20 mins. Surface after 45 mins.
IS: No blow back over 45 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1837.55	90.09	Initial Hydro-static
3	53.35	89.92	Open To Flow (1)
54	56.12	90.47	Shut-In(1)
101	1051.30	91.33	End Shut-In(1)
102	1782.09	91.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm-10%o90%m	0.30
10.00	Hocm-30%m70%o	0.05

* 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

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

Job Ticket: 50661

DST#: 3

ATTN: Richard Bell

Test Start: 2013.04.24 @ 02:30:00

Tool Information

Drill Pipe:	Length: 3536.00 ft	Diameter: 3.80 inches	Volume: 49.60 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.19 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3650.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3635.00	
Hydraulic tool	5.00			3640.00	
Packer	5.00			3645.00	20.00 Bottom Of Top Packer
Packer	5.00			3650.00	
Stubb	1.00			3651.00	
Perforations	2.00			3653.00	
Recorder	0.00	8791	Inside	3653.00	
Recorder	0.00	8651	Outside	3653.00	
Perforations	25.00			3678.00	
Bullnose	3.00			3681.00	31.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

Job Ticket: 50661

DST#: 3

ATTN: Richard Bell

Test Start: 2013.04.24 @ 02:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	o _{cm} -10%o _{90%} m	0.295
10.00	H _o cm-30% _m 70% _o	0.049

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

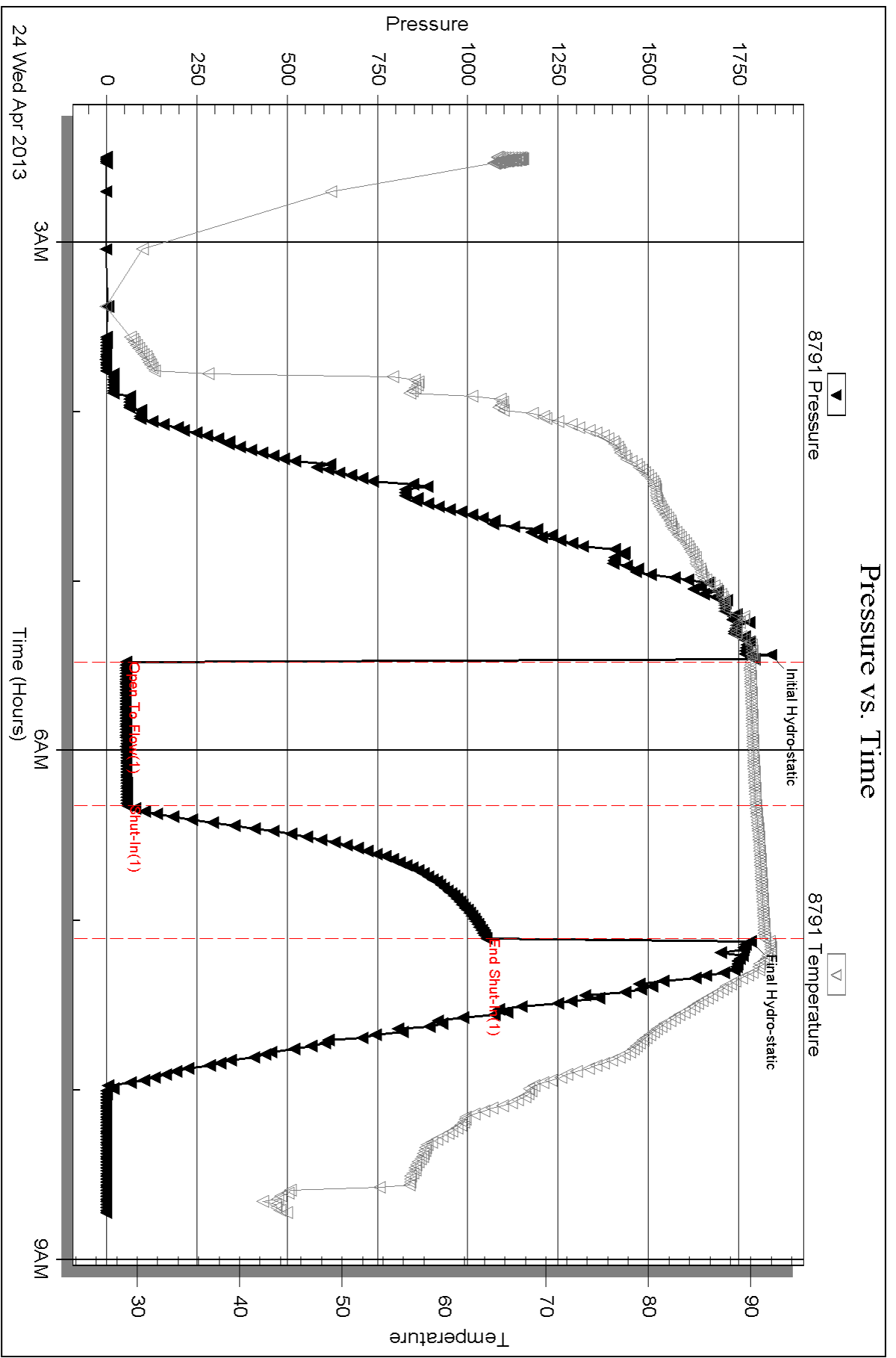
Serial #: 8791

Inside

Baird Oil Company

Velma Low ry #1-34

DST Test Number: 3

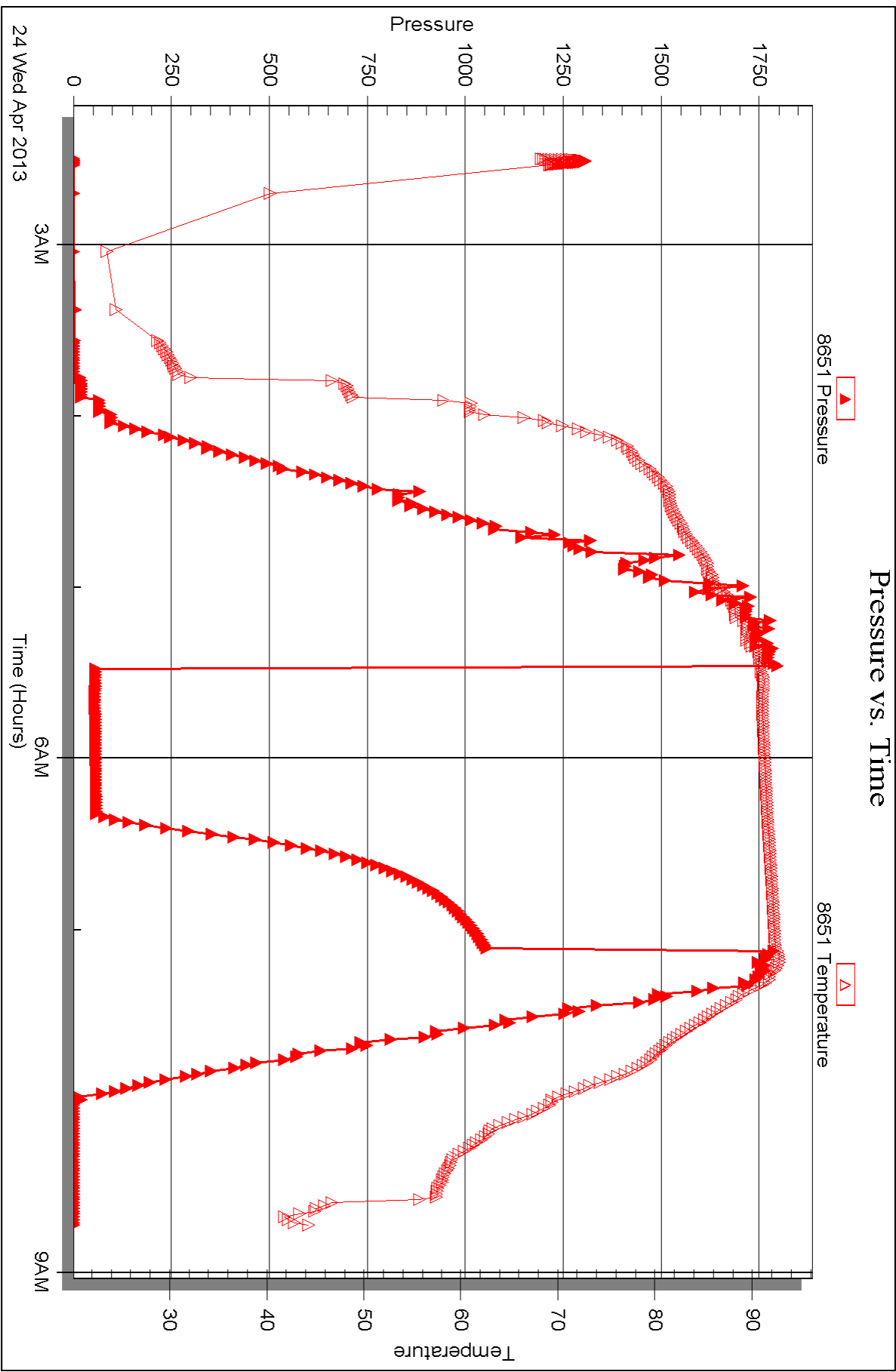


Serial #: 8651

Outside Baird Oil Company

Velma Low ry #1-34

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Velma Lowry #1-34

34-3s-22w Norton KS

Start Date: 2013.04.24 @ 15:40:00

End Date: 2013.04.24 @ 21:34:30

Job Ticket #: 50662 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.29 @ 11:40:10

Baird Oil Company

34-3s-22w Norton KS

Velma Lowry #1-34

DST # 4

LKC-K

2013.04.24



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

ATTN: Richard Bell

Job Ticket: 50662

DST#: 4

Test Start: 2013.04.24 @ 15:40:00

GENERAL INFORMATION:

Formation: **LKC-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:54:30

Time Test Ended: 21:34:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3678.00 ft (KB) To 3705.00 ft (KB) (TVD)

Reference Elevations: 2293.00 ft (KB)

Total Depth: 3705.00 ft (KB) (TVD)

2283.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 127.37 psig @ 3680.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.24

End Date:

2013.04.24

Last Calib.:

2013.04.24

Start Time: 15:40:01

End Time:

21:34:30

Time On Btm:

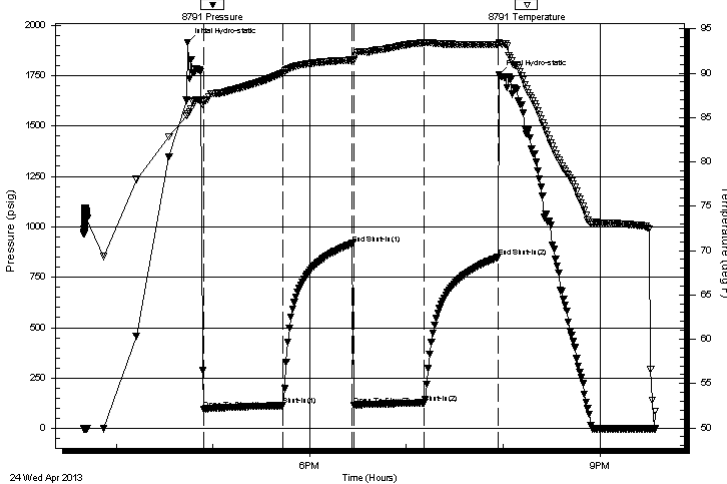
2013.04.24 @ 16:44:30

Time Off Btm:

2013.04.24 @ 19:57:30

TEST COMMENT: IF: Weak blow , Built to 5 in. over 45 mins.
IS: No blow back
FF: Weak blow , Built to 2 in. over 45 mins.
FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1914.38	85.38	Initial Hydro-static
10	96.31	86.86	Open To Flow (1)
59	113.88	90.08	Shut-In(1)
102	917.26	91.49	End Shut-In(1)
103	116.69	91.41	Open To Flow (2)
147	127.37	93.44	Shut-In(2)
193	849.82	93.24	End Shut-In(2)
193	1754.23	93.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	vsocw -2%o98%w	0.30
60.00	vsocmw -2%o10%w 88%m	0.30
124.00	ocm-10%o90%m	1.74

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

Job Ticket: 50662

DST#: 4

ATTN: Richard Bell

Test Start: 2013.04.24 @ 15:40:00

Tool Information

Drill Pipe:	Length: 3569.00 ft	Diameter: 3.80 inches	Volume: 50.06 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.65 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3678.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3663.00	
Hydraulic tool	5.00			3668.00	
Packer	5.00			3673.00	20.00 Bottom Of Top Packer
Packer	5.00			3678.00	
Stubb	1.00			3679.00	
Perforations	1.00			3680.00	
Recorder	0.00	8791	Inside	3680.00	
Recorder	0.00	8651	Outside	3680.00	
Perforations	22.00			3702.00	
Bullnose	3.00			3705.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

34-3s-22w Norton KS

PO Box 428
Logan KS 67646

Velma Lowry #1-34

Job Ticket: 50662

DST#: 4

ATTN: Richard Bell

Test Start: 2013.04.24 @ 15:40:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	vsoscw -2%o98%w	0.295
60.00	vsocmw -2%o10%w 88%m	0.304
124.00	ocm-10%o90%m	1.739

Total Length: 244.00 ft

Total Volume: 2.338 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

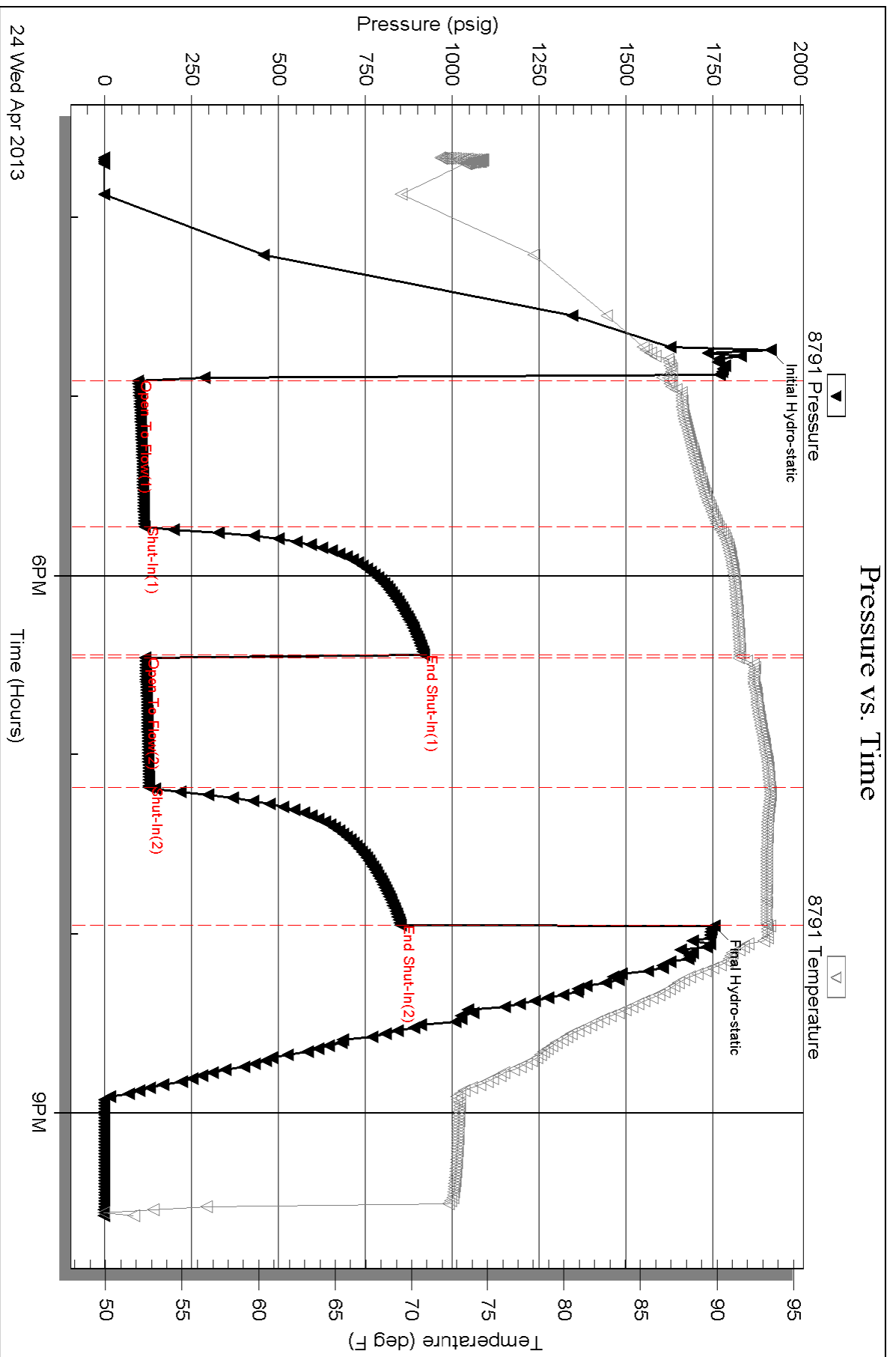
Serial #: 8791

Inside

Baird Oil Company

Velma Low ry #1-34

DST Test Number: 4

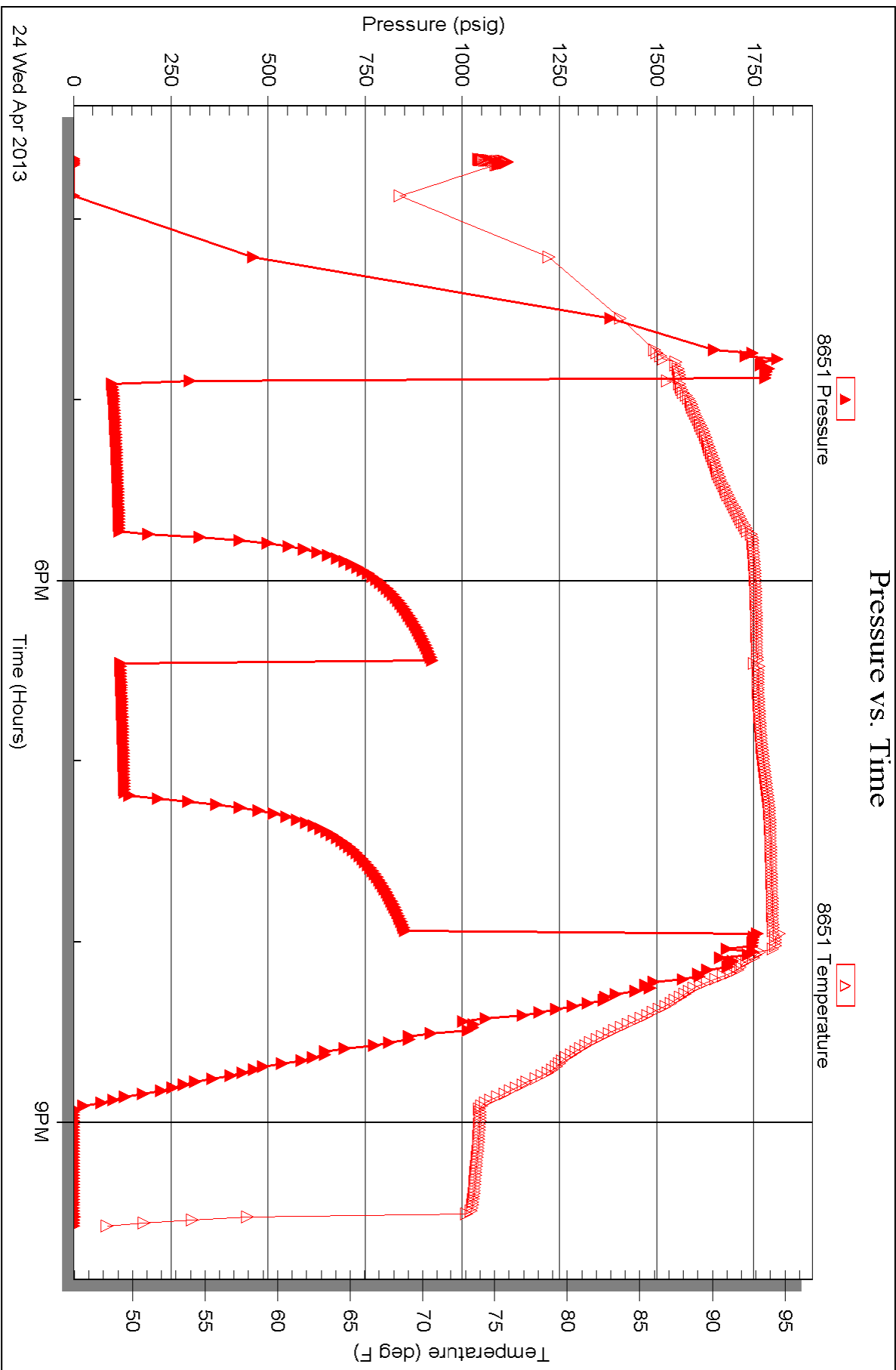


Serial #: 8651

Outside Baird Oil Company

Velma Low ry #1-34

DST Test Number: 4



24 Wed Apr 2013



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50659

4/10

Well Name & No. Barb Velma Lowry #1-34 Test No. 1 Date 04-22-2013
 Company Barb Oil Company Elevation 2293 KB 2283 GL
 Address 113 W main P.O. Box 428 Logan KS. 67646
 Co. Rep / Geo. Richard Bell Rig _____
 Location: Sec. 34 Twp. 3 Rge. 22 Co. Morton State Ks

Interval Tested 3563 3583 Zone Tested LKC-0
 Anchor Length _____ 20 Drill Pipe Run 3444 Mud Wt. 8.8
 Top Packer Depth _____ 3558 Drill Collars Run 119 Vis 55
 Bottom Packer Depth _____ 3563 Wt. Pipe Run -0- WL 6.4
 Total Depth _____ 3583 Chlorides 800 ppm System LCM 1.5#

Blow Description IF: Weak blow 1/4 in over 45 mins.
ESI: No blow back
FF: No blow for ~~20~~ First 15 mins. weak surface ^{for} ~~2000~~ next 30 mins.
FSI: no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>68</u>	<u>HOCM</u>		<u>60</u>	<u>0</u>	<u>40</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 68 BHT 93 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic _____ 1792 Test 1150 T-On Location _____ 21:20
 (B) First Initial Flow _____ 15 Jars _____ T-Started _____ 21:55
 (C) First Final Flow _____ 27 Safety Joint _____ T-Open _____ 23:32
 (D) Initial Shut-In _____ 1116 Circ Sub _____ T-Pulled _____ 2:45
 (E) Second Initial Flow _____ 31 Hourly Standby _____ T-Out _____ 5:14
 (F) Second Final Flow _____ 40 Mileage 45 x 2 = 90 x 1.55 139.50 Comments _____
 (G) Final Shut-In _____ 1058 Sampler _____
 (H) Final Hydrostatic _____ 1762 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 Chad Hoge

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50660

Well Name & No. Velma Lowry #1-34 Test No. 2 Date 4-23-2013
 Company Burd oil company Elevation 3581 KB 3603 GL
 Address 113 W. Main P.O. Box 428 Logan KS. 67646
 Co. Rep / Geo. Richard Bell Rig WW#12
 Location: Sec. 34 Twp. 3S Rge. 22W Co. Norton State Ks

Interval Tested 3581 3603 Zone Tested LKC - E, F
 Anchor Length 22 Drill Pipe Run 3447 Mud Wt. 8.8
 Top Packer Depth 3576 Drill Collars Run 119 Vis 55
 Bottom Packer Depth 3581 Wt. Pipe Run 0 WL 6.4
 Total Depth 3603 Chlorides 500 ppm System LCM 1.5#

Blow Description IF: set tool last mud pick-up fill hole reset tool. mud held weak surface blow over 30 min
ISF: No blow back

FF: No blow

FSF: No blow back

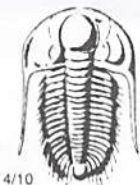
Rec	Feet of	%gas	%oil	%water	%mud
<u>174</u>	<u>mud with oil specs</u>		<u>1</u>		<u>99</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 174 BHT 88 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1907 Test 1150 T-On Location 11:00
 (B) First Initial Flow 95 Jars _____ T-Started 11:30
 (C) First Final Flow 96 Safety Joint _____ T-Open 13:21
 (D) Initial Shut-In 155 Circ Sub _____ T-Pulled 15:26
 (E) Second Initial Flow 96 Hourly Standby _____ T-Out 17:00
 (F) Second Final Flow 96 Mileage 45 x 2 = 90 x 1.55 = 139.50 Comments _____
 (G) Final Shut-In 112 Sampler _____
 (H) Final Hydrostatic 1707 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1289.50
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1289.50

Approved By _____ Our Representative Chuck Hoge

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50661

Well Name & No. Velma Lowry #1-34 Test No. 3 Date 4-24-2013
 Company Bard oil company Elevation 3581 KB 3603 GL
 Address 113 W. Main P.O. Box 428 Logan KS. 67646
 Co. Rep / Geo. Richard Bel' Rig ww #12
 Location: Sec. 34 Twp. 3S Rge. 22W Co. Norton State KS

Interval Tested 3650 3681 Zone Tested LKL - J
 Anchor Length 31 Drill Pipe Run 3536 Mud Wt. 8.8
 Top Packer Depth 3655 Drill Collars Run 119 Vis 55
 Bottom Packer Depth 3650 Wt. Pipe Run 0 WL 6.4
 Total Depth 3681 Chlorides 800 ppm System LCM 1.5#

Blow Description IF: Weak blow after 20 min, surface over 45 min.
SSIF: No blow back

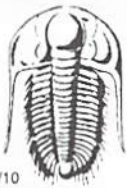
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Horn</u>		<u>70</u>		<u>30</u>
<u>60</u>	<u>ocm</u>		<u>10</u>		<u>90</u>

Rec Total 70 BHT 90 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1878 Test 1150 T-On Location 4:20
 (B) First Initial Flow 54 Jars _____ T-Started 2:30
 (C) First Final Flow 56 Safety Joint _____ T-Open _____
 (D) Initial Shut-In 1051 Circ Sub _____ T-Pulled 7:05
 (E) Second Initial Flow 1782 Hourly Standby _____ T-Out _____
 (F) Second Final Flow _____ Mileage 45 x 2 = 90 x 1.55 139.50 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ 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 _____ Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1289.50

Approved By _____ Our Representative Chub Myer

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **50662**

4/10

Well Name & No. Velma Lowry #134 Test No. 4 Date 4-24-2013
 Company Beard oil company Elevation 3581 KB 3607 GL
 Address 113 W. Main P.O. Box 428 Logan KS-62646
 Co. Rep / Geo. Richard Bell Rig WW#10
 Location: Sec. 34 Twp. 35 Rge. 22w Co. Norton State Ks

Interval Tested 3678 3705 Zone Tested LLC-K
 Anchor Length 27 Drill Pipe Run 3569 Mud Wt. 8.9
 Top Packer Depth 3673 Drill Collars Run 119 Vis 48
 Bottom Packer Depth 3678 Wt. Pipe Run 0 WL 7.8
 Total Depth 3705 Chlorides 1400 ppm System LCM .5#

Blow Description IF: Weak blow built to 5 in. over 45 mins.

ISF: No blow back

FF: Weak blow built to 2 in. over 45 mins.

FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>OCM</u>		<u>10</u>		<u>90</u>
<u>60</u>	<u>vsacma</u>		<u>2</u>	<u>10</u>	<u>88</u>
<u>60</u>	<u>vsosew</u>		<u>2</u>	<u>98</u>	

Rec Total 244 BHT 93 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1914 Test 1150 T-On Location 15:40
 (B) First Initial Flow 96 Jars T-Started 15:40
 (C) First Final Flow 114 Safety Joint T-Open 16:54
 (D) Initial Shut-In 917 Circ Sub T-Pulled 20:00
 (E) Second Initial Flow 117 Hourly Standby T-Out 21:34
 (F) Second Final Flow 127 Mileage 45 x 2 = 90 x 1.55 = 279 Comments _____
 (G) Final Shut-In 850 Sampler loaded tools @ 14:00 on 4/25
 (H) Final Hydrostatic 1754 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 1429
 Final Flow 45 Accessibility MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1429

Approved By _____

Our Representative Chuck Huffer

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