



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1128396
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: _____



1128396

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	Anna 2-15
Doc ID	1128396

Tops

Name	Top	Datum
Topeka	3181	-991
Heebner	3385	-1195
Toronto	3409	-1219
Lansing	3425	-1235
Base Kansas City	3623	-1433
Marmaton	3662	-1472
Arbuckle	3701	-1511
Total Depth	3764	-1574

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



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

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

Sam Brownback, Governor

April 04, 2013

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

Re: ACO1
API 15-137-20637-00-00
Anna 2-15
SE/4 Sec.15-04S-21W
Norton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Jim R. Baird



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

Date: 3/19/2013
 Invoice # 6651

P.O.#:
 Due Date: 4/18/2013
 Division: *Russell*

Invoice

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

R 3/20/13
P 3/20/13
VanLoene 190402 3769.82

*Anna 2-15 - pump charge, cement,
 and other misc used to cement
 surface casing.*

Reference:
 ANNA 2-15

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,275.68	No				
Common-Class A	150	\$ 2,102.29	Yes				
Bulk Truck Matl-Material Service Charge	158	\$ 353.18	No				
Calcium Chloride	5	\$ 266.34	Yes				
Pump Truck Mileage-Job to Nearest Camp	12	\$ 133.85	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	12	\$ 78.32	No				
Premium Gel (Bentonite)	3	\$ 54.59	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,264.25
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (639.64)

SubTotal for Taxable Items:	\$ 2,059.73
SubTotal for Non-Taxable Items:	\$ 1,564.88
Total:	\$ 3,624.61
Tax:	\$ 145.21

7.05% Norton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,769.82
Applied Payments:
Balance Due: \$ 3,769.82

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 6651

Date	3-16-13	Sec.	15	Twp.	4	Range	21	County	Norton	State	KS	On Location		Finish	10:45pm
------	---------	------	----	------	---	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Location Logan w to E12 RD 3N sw into

Lease	Anna	Well No.	2-15	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	WW #12			Charge To	Baird Oil
Type Job	Surface	T.D.	219	Street	
Hole Size	12 1/4	Depth	219	City	State
Csg.	8 5/8	Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered 150 Com 3%CC 2%Gel	
Tool		Depth			
Cement Left in Csg.	20'	Shoe Joint	20'		
Meas Line		Displace	13661		

EQUIPMENT

Pumptrk	16	No.	Cementer	Travis	Common	150
			Helper		Poz. Mix	
Bulktrk	1	No.	Driver	Lonny	Gel.	3
			Driver	Claton	Calcium	5

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	158
		Mileage	

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

	Pumptrk Charge	Surface
	Mileage	67
	Tax	
	Discount	
	Total Charge	

X Signature



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



Invoice

DATE	INVOICE #
3/22/2013	23956

BILL TO
Baird Oil Company LLC PO Box 428 Logan, KS 67646

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator	
Net 30	#2-15	Anna	Norton	WW Drilling #12	Oil	Development	LongString	Nick	
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT	
575D	Mileage - 1 Way				80	Miles	6.00	480.00	
578D-L	Pump Charge - Long String - 3760 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				850	Lb(s)	0.20	170.00T	
285	CFR-1				100	Lb(s)	4.00	400.00T	
581D	Service Charge Cement				240	Sacks	2.00	480.00	
583D	Drayage				939.5	Ton Miles	1.00	939.50	
	Subtotal							14,284.50	
	Sales Tax Norton County						7.05%	767.39	
<p style="text-align: center;"> <i>R3/27/2013</i> <i>P3/27/2013</i> <i>Vanloane 190402 15,051.89</i> <i>Anna 2-15 - Pump charge, cement</i> <i>+ other misc expenses used to cement</i> <i>production casing</i> </p>									
We Appreciate Your Business!							Total	\$15,051.89	



TICKET
No 23956

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

PAGE 1 OF 2

1. SERVICE LOCATIONS: Hays, Ks.
2. Ness City, Ks.
3. WELL/PROJECT NO: #2-15
LEASE: Anna
COUNTY/PARISH: Norton
STATE: Ks
DATE: 3-22-13
OWNER: Same
TICKET TYPE: SERVICE
 SALES
CONTRACTOR: Wm #12
RIG NAME/NO.
WELL TYPE: oil
WELL CATEGORY: development
JOB PURPOSE: long string
WELL PERMIT NO.
WELL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	800	mi			6.00	4800.00
578					Pump Charge (long string)	1	ea	3760		1500.00	1500.00
221					KCEL	2	pa			25.00	50.00
280					Flechock-21	500	gal			2.50	1250.00
290					D-Air	3	gal			35.00	105.00
402					Centralizers	1	ea	5 1/2"		70.00	70.00
403					Basket	1	ea			250.00	250.00
404					Part Cellar	1	ea			2400.00	2400.00
406					1D Plug + Baffle	1	ea			250.00	250.00
407					Insert plug of shoe w/ F11	1	ea			350.00	350.00
411					Recep. Scratchers	30	ea			45.00	1350.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 3-22-13
TIME SIGNED: 11:25
AM/PM: AM PM

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

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

PAGE TOTAL 1
SUBTOTAL 14,284
Norton TAX 767
TOTAL 15,051

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

JOB LOG

SWIFT Services, Inc.

DATE 3-22-13 PAGE NO. 1

CUSTOMER Baird Oil Co WELL NO. # 2-15 LEASE Anna JOB TYPE Longstring TICKET NO. 23956

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1900							on loc w/ FE
								RTD 3760' LTD 3764' 5 1/2" x 14# x 3760' x 45' Cent 1-10, 42 Bask 43 P.C. 43 @ 1839'
	1930							start FE
	2130							Break Circ.
	2220	2.5	7					Plug RH 30sks 60/40 Poz 2% gel
	2225	5	0			200		start KCL flush 10 bbl
	2227	5	10/0			200		start 500 gal Flocheck-21
	2229	5	12/0			200		start 10 bbl KCL flush
	2231	5	10/0			200		start 60/40 Poz 2% gel 10sks
	2233	5	10/0			200		start standard Cement 200sks
	2241		43					End Cement Wash P&L Drop L.D. Plug
	2248	6	0			200		start Displacement
	2258	5	61			250		Catch Cement
	2304		90.5			150 15-00		Land Plug Release Pressure Float Held

Thank you
Nicky, David E, & Flint

SWIFT



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



Invoice

DATE	INVOICE #
3/28/2013	24302

BILL TO
Baird Oil Company LLC PO Box 428 Logan, KS 67646

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-15	Anna	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 - 1841 Feet	1	Job	1,250.00	1,250.00
290	D-Air	2	Gallon(s)	35.00	70.00T
330	Swift Multi-Density Standard (MIDCON II)	155	Sacks	16.50	2,557.50T
276	Flocele	50	Lb(s)	2.00	100.00T
105	5 1/2" Port Collar Tool Rental With Man	1	Each	350.00	350.00T
581D	Service Charge Cement	200	Sacks	2.00	400.00
583D	Drayage	796.08	Ton Miles	1.00	796.08
	Subtotal				6,003.58
	Sales Tax Norton County			7.05%	216.96
	<i>R 3/29/13</i> <i>P 3/29/13</i> <i>Van Loene 190402 374.68</i> <i>Anna 2-15 - rental of port collar and man when cementing port collar</i> <i>Van Loene 190402 5845.86</i> <i>Anna 2-15 - pump charge, cement, and other misc used to cement port collar.</i>				

We Appreciate Your Business!

Total

\$6,220.54



Services, Inc.

CHARGE TO: *Baird D.I.G.*

TICKET No. 24302

ADDRESS

CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <i>Hays, KS</i>	<i>2-15</i>	<i>ANNA</i>	<i>Norton</i>	<i>KS</i>		<i>3-28-13</i>	
2. <i>Ness City, KS</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
		<i>Alliance WellServ</i>	<i>#24</i>	<i>CT</i>	<i>SE/Norton, KS</i>		
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
4.	<i>D.I.</i>	<i>IN Field</i>	<i>Cement Bit/Baker</i>				
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>575</i>					MILEAGE #113	<i>80</i>	<i>mi</i>			<i>600</i>	<i>48000</i>
<i>576 D</i>					<i>Pump Charge - curt Bit Collar</i>	<i>1</i>	<i>ea</i>	<i>1841</i>	<i>ft.</i>	<i>125000</i>	<i>125000</i>
<i>890</i>					<i>D. Air</i>	<i>2</i>	<i>gal</i>			<i>3500</i>	<i>7000</i>
<i>330</i>					<i>SWD Cement</i>	<i>155</i>	<i>sks</i>			<i>16500</i>	<i>2557500</i>
<i>276</i>					<i>Fluore</i>	<i>50</i>	<i>lbs</i>			<i>200</i>	<i>10000</i>
<i>105</i>					<i>Bit Collar Tool Joint Loss</i>	<i>1</i>	<i>ea</i>	<i>5 1/2</i>	<i>in</i>	<i>350000</i>	<i>350000</i>
<i>581</i>					<i>Service Charge - Cement</i>	<i>1</i>	<i>ea</i>			<i>400</i>	<i>40000</i>
<i>583</i>					<i>Drillage</i>	<i>80</i>	<i>mi</i>	<i>79600</i>	<i>Tal</i>	<i>19900</i>	<i>15</i>

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 *Steve Stambrecht*
DATE SIGNED *3-28-13* TIME SIGNED *12:00 PM*

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

PAGE TOTAL *6003.55*

TOTAL *6220.5*

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

SWIFT OPERATOR *Steve Stambrecht* APPROVAL

Thank You

JOB LOG

SWIFT Services, Inc.

DATE 3-28-13 PAGE NO. 1

CUSTOMER *Bartel Oil Co.* WELL NO. *2-15* LEASE *Anna* JOB TYPE *Cement Port Collar* TICKET NO. *24302*

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

	11:45						2 3/8 5 1/2	DN location w/ Port Collar tool start hbq & tool Locate P.C @ 1841'
							1000 1000	Tst closed - OK - 1000 ^{ff}
		3					C 600 ^{ff}	open P.C - ini rate
		3					C	hook to hbq.
		3	10 20				600 450 600 450	Start mud - 80 BBL - @ 3 BBL Heavy Red clay
		3	80				400 400	Fin mud - Good Returns
		3	5				400 400	H2O Spacer "
		3					400 400	Start Cement - SMD w/ 1/4" st floccle
		3	75				500 C	Cmt circulate @ 135 SKS - incr
		3	6				450 C	cmt to 13.5 ^{ff} gal for 20 SKS
		3					400 C	Fin cmt - Disp (6 BBL) H2O
							1000 1000	Close PC & ST - OK Run 5 SKS
		3	25				400	Reverse out 2 flays & clean

15:00

Job complete

Pack up tools.

Heavily
Don & Jan & Flat

135 SKS @ 11.7^{ff} to circulate
20 SKS @ 13.5^{ff} gal - tail in

15:30

155 SKS SMD, 1/4" st floccle used

API # 15-137-20637-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.
 LEASE Anna # 2-15
 FIELD Wildcat
 LOCATION 330' FSL + 8.35' FEL
 SEC 15 TWSP 4S RGE 21W
 COUNTY Norton STATE Kansas

ELEVATION
 KB 2190'
 DF 2188'
 GL 2182'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR WWD Drilling Rig #12
 SPUD 3-16-13 COMP 3-22-13
 SAMPLES SAVED FROM 3150' TO R.T.D

CASING
 Surface 8 5/8" @ 218'
 Production 5 1/2" @ 3762'
 ELECTRIC LOGS
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>4. / log</u>				
<u>Anhydrite</u>	<u>Missing</u>			<u>+ 335</u>	<u>+ 354</u>		
<u>Base Anhydrite</u>	<u>Missing</u>			<u>+ 304</u>	<u>+ 323</u>		
<u>Topeka</u>	<u>3177</u>	<u>3181</u>	<u>- 991</u>	<u>-1001</u>	<u>- 987</u>		
<u>Heebner</u>	<u>3381</u>	<u>3385</u>	<u>-1195</u>	<u>-1194</u>	<u>-1183</u>		
<u>Taranto</u>	<u>3405</u>	<u>3409</u>	<u>-1219</u>	<u>-1221</u>	<u>-1209</u>		
<u>Lansing</u>	<u>3421</u>	<u>3425</u>	<u>-1235</u>	<u>-1236</u>	<u>-1229</u>		
<u>Base Kansas City</u>	<u>3619</u>	<u>3623</u>	<u>-1433</u>	<u>-1422</u>	<u>-1417</u>		
<u>Marmaton</u>	<u>3658</u>	<u>3662</u>	<u>-1472</u>				
<u>Arbuckle</u>	<u>3697</u>	<u>3701</u>	<u>-1511</u>				
<u>Total Depth</u>	<u>3760</u>	<u>3764</u>	<u>-1574</u>	<u>-1495</u>	<u>-1597</u>		

REFERENCE WELLS

- ^A Baird Oil Co.; Anna #1-15, 100' FNL + 460' FEL, sec. 15-4S-21W
- ^B Baird Oil Co.; Adee #1-14, 1210' FSL + 1080' FNL Sec. 14-4S-21W
- ^C
- ^D Port Collar @ 1841'

REMARKS

This well ran 1 foot higher to 6 feet lower on the casing top than the reference wells. Encouraging results on D.S.T. #1 warranted the cementing of production casing to further test the well. The zone from 3456'-3461' should be tested.

Richard B. Bell
3-23-13

7502

LEGEND

- 

Anhydrite
- 

Salt
- 

Sandstone
- 

Shale
- 

Carb sh
- 

Limestone
- 

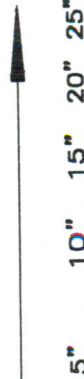
Ool. Lime
- 

Chert
- 

Dolomite

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

Anhydrite is missing
on this well

LOG 7710

good samples

Drilling time has to be adjusted down 4ft. to match open hole log depths.

60

80

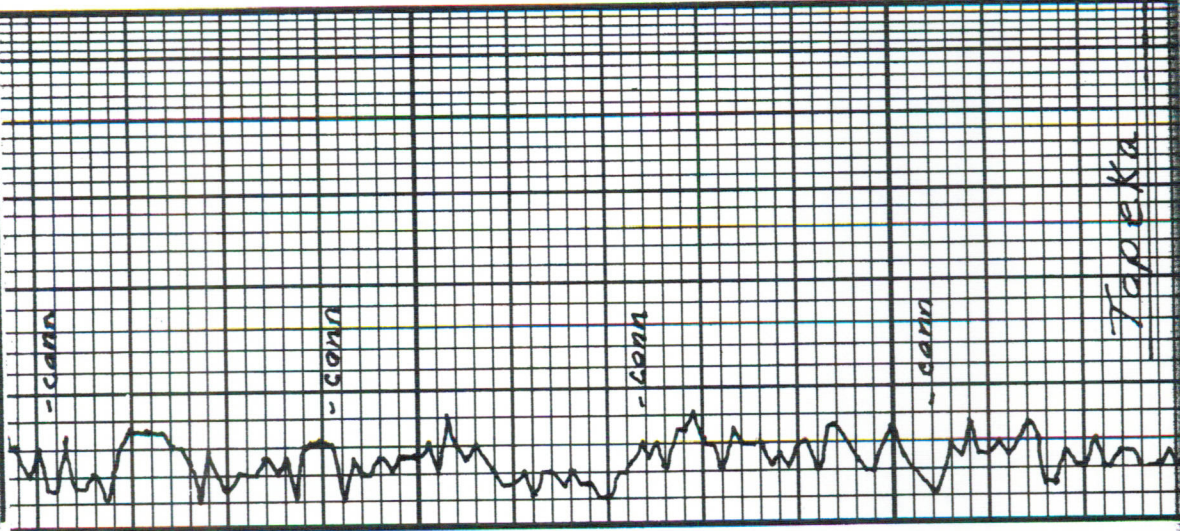
3100

20

40

60

80



sh:brn & gry

ls:tn-gry fs/f dns.

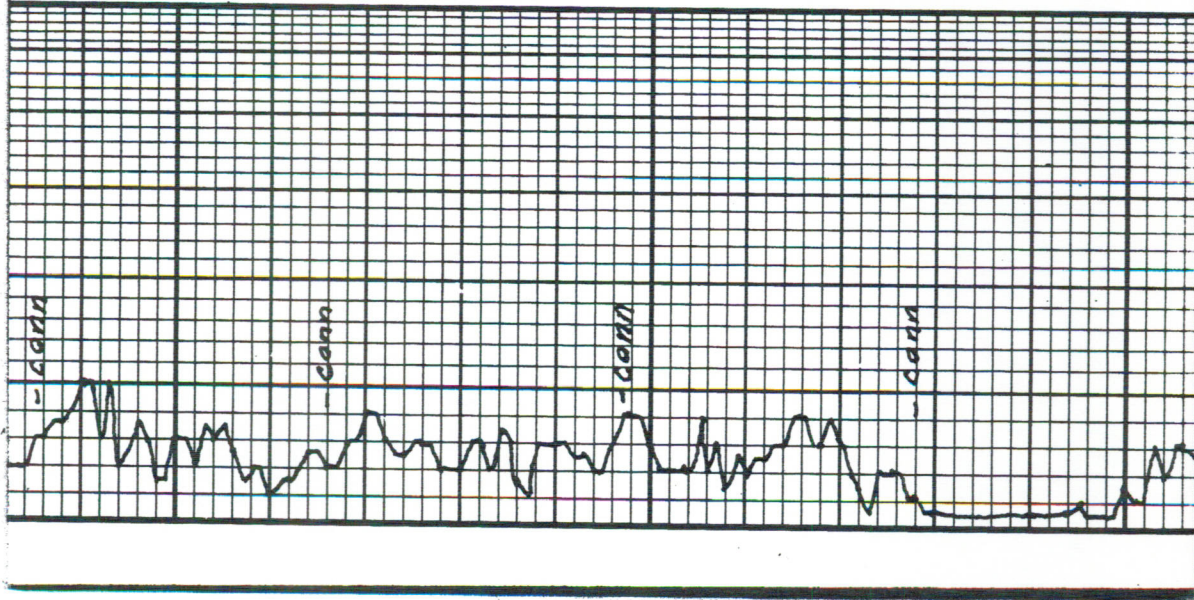
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sh-brn, gry

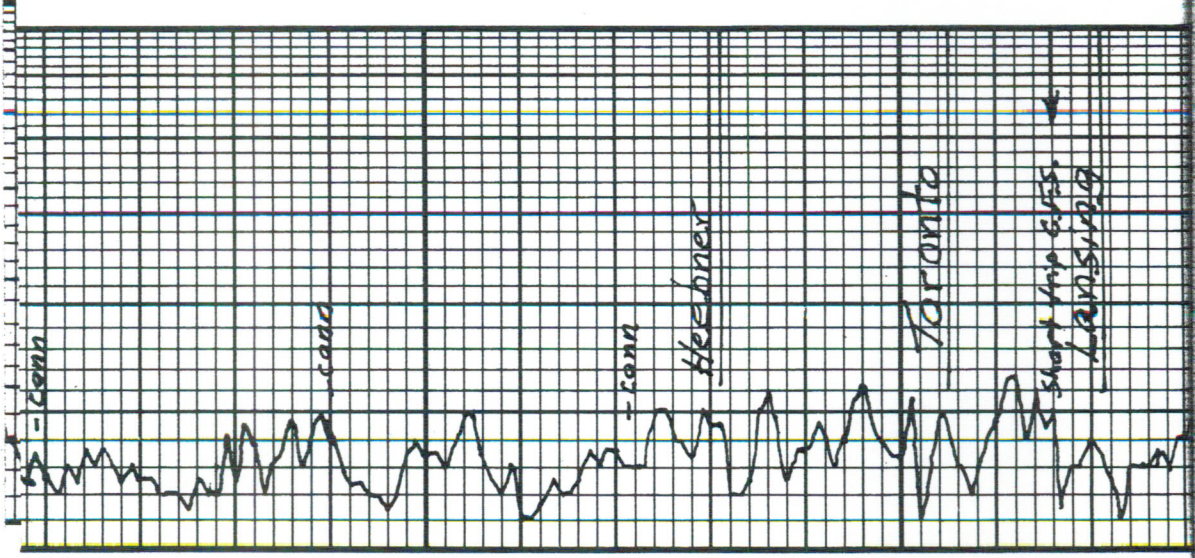
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sh:brn, gry

ls:tn-gry fs/f dns



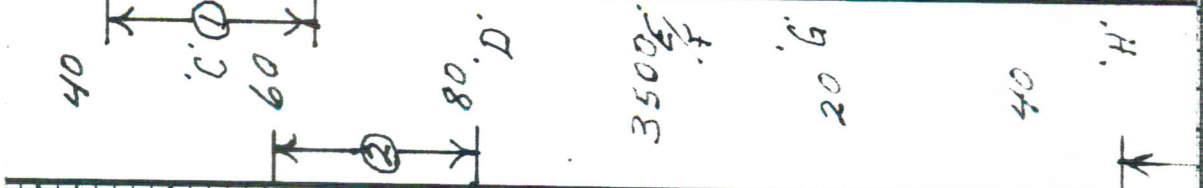
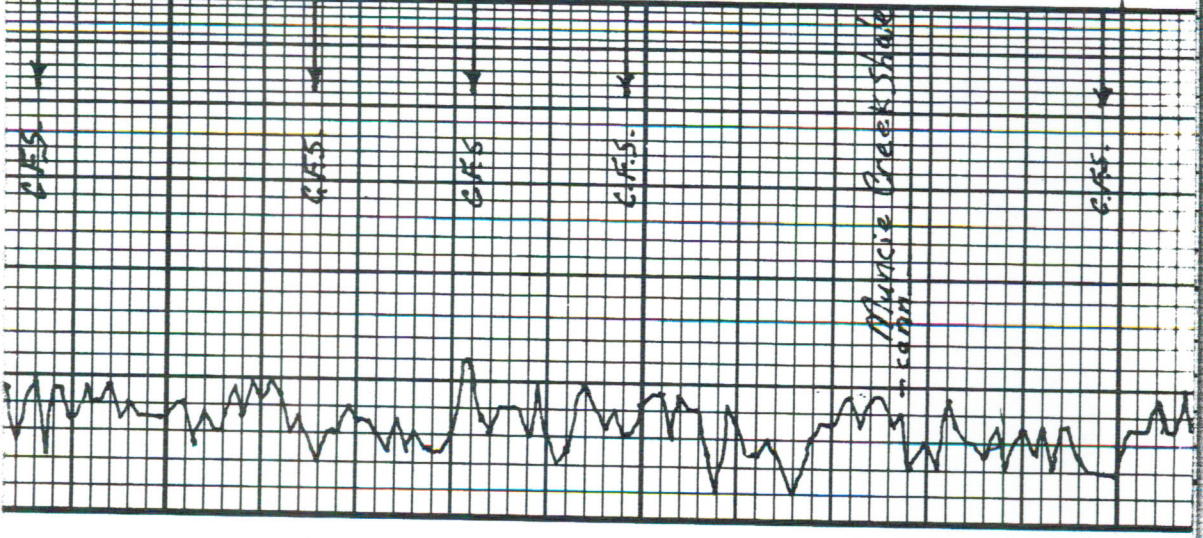
3200		LS: th fxln - sli. fslf dms N.S.O.
20		LS: tn - gry fxln - sli. fslf dms N.S.O. LS: whdn sli. chx - fxln sli. fslf sli. vgy N.S.O. Tr. Δ tn
40		LS: gry fslf dms. sh: brn sity, gry sity Tr. SS gry v. fngm Consol in gran @ N.S.O. LS: whdn - gry fxln - fslf pp @ N.S.O.
60		LS: whdn - gry fxln - sli. fslf Tr. SS pp @ N.S.O. Δ ty th SAME
80		LS: tn - gry fslf dms sh: brn sity Tr. SS: brn v. fngm Consol. ingram N.S.O.
3300		sh: brn sity, gry



LS: wh-tn-ckx-sli-ööl- sub ööl ppø N.S.O.	20	LS: wh-tn-ckx-sli-ööl ppø N.S.O.
LS: tn-yel-grx fsf dns		LS: wh-tn-ckx-fxln Tr ppø N.S.O.
Sh: brn, gry	40	LS: wh-tn-ckx-fxln Tr ppø N.S.O.
LS: wh-tn-ckx-fxln sli. ööl ppø N.S.O.		LS: wh-tn-ckx-fxln Tr ppø N.S.O.
Tr: BIK Carb sh		LS: wh-tn-ckx-fxln Tr ppø N.S.O.
LS: tn-fxln dns		LS: wh-tn-ckx-fxln Tr ppø N.S.O.
LS: wh-tn-ckx-fxln Tr ppø N.S.O.	60	LS: wh-tn-ckx-fxln Tr ppø N.S.O.
LS: wh-tn-ckx-fxln Tr ppø N.S.O.		LS: wh-tn-ckx-fxln Tr ppø N.S.O.
LS: wh-tn-ckx-fxln Tr ppø N.S.O.	80	LS: wh-tn-ckx-fxln Tr ppø N.S.O.
LS: wh-tn-ckx-fxln Tr ppø N.S.O.		LS: wh-tn-ckx-fxln Tr ppø N.S.O.
LS: wh-tn-ckx-fxln Tr ppø N.S.O.	3400	LS: wh-tn-ckx-fxln Tr ppø N.S.O.
LS: wh-tn-ckx-fxln Tr ppø N.S.O.		LS: wh-tn-ckx-fxln Tr ppø N.S.O.
LS: wh-tn-ckx-fxln Tr ppø N.S.O.	20	LS: wh-tn-ckx-fxln Tr ppø N.S.O.

Incline @ 3465' 3/4°

Strap 3470.41
 Board 3465.75
 Diff 4.66
 Board Correction .91
 Strap long 3.75
 Trilobite Testing

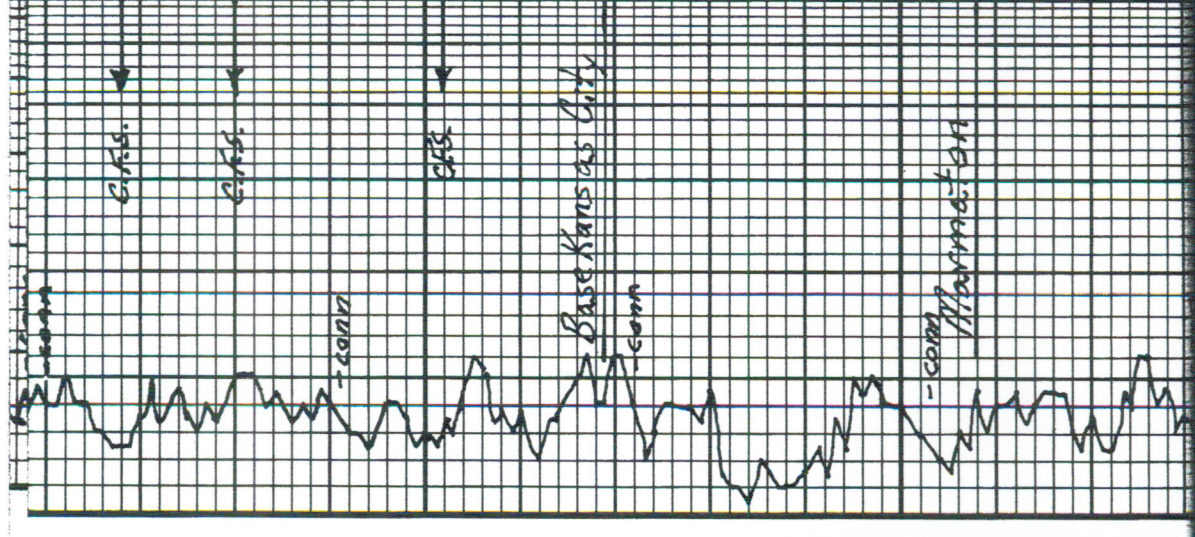


LS: wh-tn fxl'n dns n.s.o.	LS: wh-tn fxl'n - fs lf oil w/above foss. inclus. pp @ ht. o. str. pp F.O. on crushing fr. odor	LS: wh-tn slicky-fxl'n dns sli. foss. inclus. fr. fny oil pp @ ht. o. str. N.F.O.	LS: wh-tn slicky-fxl'n sli. oil pr. pp @ ht. lit. sptd o. str. N.F.O. No odor	LS: wh-tn cky-fxl'n dns d wh	LS: wh-tn v. cky-fxl'n oil pp @ n.s.o.
sh: brn, gry	sh: brn, gry	sh: brn	sh: brn	sh: blk carb brn	sh: brn gry
FSI: No blow	FSI: No blow	FSI: No blow	FSI: No blow	FSI: No blow	FSI: No blow
Recovery: 195' Total	Recovery: 195' Total	Recovery: 195' Total	Recovery: 195' Total	Recovery: 195' Total	Recovery: 195' Total
5' Oil 95% 27G, 37m	5' Oil 95% 27G, 37m	5' Oil 95% 27G, 37m	5' Oil 95% 27G, 37m	5' Oil 95% 27G, 37m	5' Oil 95% 27G, 37m
69' OCM 2370, 172G, 762m	69' OCM 2370, 172G, 762m	69' OCM 2370, 172G, 762m	69' OCM 2370, 172G, 762m	69' OCM 2370, 172G, 762m	69' OCM 2370, 172G, 762m
61' W40CM 33% 52G, 20% W, 427m	61' W40CM 33% 52G, 20% W, 427m	61' W40CM 33% 52G, 20% W, 427m	61' W40CM 33% 52G, 20% W, 427m	61' W40CM 33% 52G, 20% W, 427m	61' W40CM 33% 52G, 20% W, 427m
60' OCM 620, 62G, 432W 452m	60' OCM 620, 62G, 432W 452m	60' OCM 620, 62G, 432W 452m	60' OCM 620, 62G, 432W 452m	60' OCM 620, 62G, 432W 452m	60' OCM 620, 62G, 432W 452m
HYD: 1694-1695#	HYD: 1694-1695#	HYD: 1694-1695#	HYD: 1694-1695#	HYD: 1694-1695#	HYD: 1694-1695#
FP: 21-85/90-96#	FP: 21-85/90-96#	FP: 21-85/90-96#	FP: 21-85/90-96#	FP: 21-85/90-96#	FP: 21-85/90-96#
BHP: 559-546#	BHP: 559-546#	BHP: 559-546#	BHP: 559-546#	BHP: 559-546#	BHP: 559-546#
BH Temp: 102°F	BH Temp: 102°F	BH Temp: 102°F	BH Temp: 102°F	BH Temp: 102°F	BH Temp: 102°F
Gravity: 29.8° API	Gravity: 29.8° API	Gravity: 29.8° API	Gravity: 29.8° API	Gravity: 29.8° API	Gravity: 29.8° API
Chlorides: 18,000ppm	Chlorides: 18,000ppm	Chlorides: 18,000ppm	Chlorides: 18,000ppm	Chlorides: 18,000ppm	Chlorides: 18,000ppm

DST #1 3443-3465
 45-45-45-45
 IF: wt blow incr. to 10"
 ISF: surface blow
 FF: wt blow incr. to 6"
 FSI: No blow
 Recovery: 195' Total
 5' Oil 95% 27G, 37m
 69' OCM 2370, 172G, 762m
 61' W40CM 33% 52G, 20% W, 427m
 60' OCM 620, 62G, 432W 452m
 HYD: 1694-1695#
 FP: 21-85/90-96#
 BHP: 559-546#
 BH Temp: 102°F
 Gravity: 29.8° API
 Chlorides: 18,000ppm

DST #2 3461-3482
 30-30-0-0
 IF: wt blow died in 22 min
 FF: No blow pulled too!
 Recovery: 145' Mud
 HYD: 1711-1686#
 FP: 82-85#
 BHP: 126#
 BH Temp: 96°F

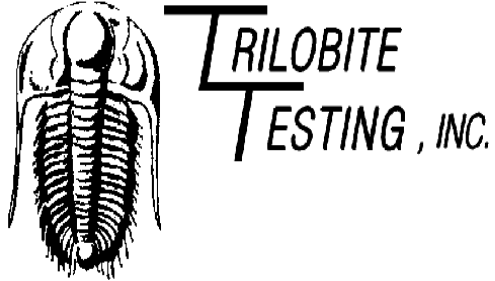
DST #3 3550-3602
 30-30-30-30-14"
 30-30-30-30-14"



60 'J'
 80 'J'
 Y3600K
 20
 40
 60
 80

Sh: brn, gry Ls: tn-fxln dns NSD.	NSD
Ls: wh-tn-fxln-sli-fsif Tr. pp on edges fr. Spd 0.5tn Tr. pp floating F.O. ft odor Tr. asph stn	✓
Sh: brn, gry Ls: wh-tn-cky-fxln-sli-ool w/ foss. incl. Tr. pp pp Tr. fr. 0.5tn N.F.O. No odor	✓
Ls: yel fsif dns	
Ls: tn-yel-fxln-fsif dns N.S.O.	
Sh: gry, brn	
Ls: wh-tn-slicky-fxln sub ool Tr. pp pp N.S.O.	
Sh: brn, gry Ls: yel-brn fsif dns	
Ls: wh-tn-slicky-fxln dns	

FF: No blow
 Recovery: 30' Mud
 w/ Trace of water
 HYD: 1777-1744#
 FP: 12-20/23-27#
 BHP: 1195-1162#
 BHTemp: 99°F



DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Anna #2-15

15-4s-21w Norton,KS

Start Date: 2013.03.20 @ 06:25:00

End Date: 2013.03.20 @ 13:10:45

Job Ticket #: 50573 DST #: 1

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

Printed: 2013.03.25 @ 14:23:10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co. Inc.

15-4s-21w Norton, KS

PO Box 428
Logan, KS 67646

Anna #2-15

Job Ticket: 50573

DST#: 1

ATTN: Richard Bell

Test Start: 2013.03.20 @ 06:25:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:17:15

Time Test Ended: 13:10:45

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

Interval: 3443.00 ft (KB) To 3465.00 ft (KB) (TVD)

Reference Elevations: 2190.00 ft (KB)

Total Depth: 3465.00 ft (KB) (TVD)

2182.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 96.33 psig @ 3444.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.20

End Date: 2013.03.20

Last Calib.: 2013.03.20

Start Time: 06:25:05

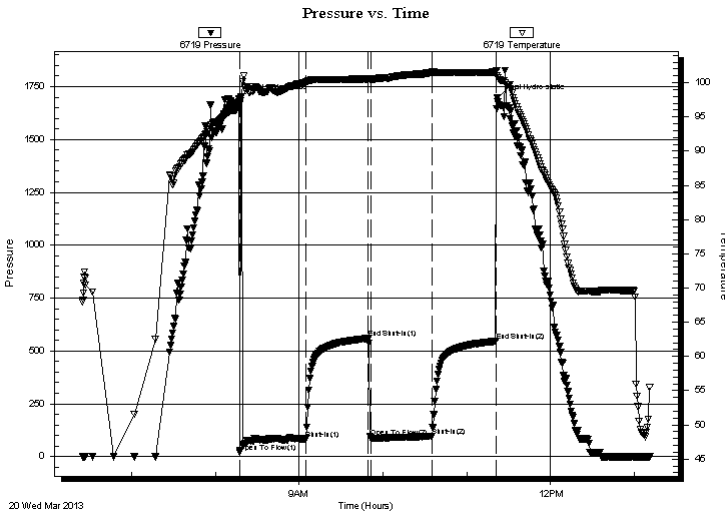
End Time: 13:10:44

Time On Btm: 2013.03.20 @ 08:17:00

Time Off Btm: 2013.03.20 @ 11:21:45

TEST COMMENT: 45 - IF: 4 1/2" surge blow, built to 10"
45 - IS: Bled off, Weak surface blow back - did not build
45 - FF: Blow built to 6"
45 - FS: Bled off, No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.78	97.16	Initial Hydro-static
1	21.24	96.87	Open To Flow (1)
48	84.61	100.16	Shut-In(1)
93	558.83	100.55	End Shut-In(1)
94	89.86	100.40	Open To Flow (2)
138	96.33	101.49	Shut-In(2)
184	545.82	101.52	End Shut-In(2)
185	1695.02	101.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCWM 45% <i>m</i> , 43% <i>w</i> , 6% <i>o</i> , 6% <i>g</i>	0.30
61.00	WOM 42% <i>m</i> , 33% <i>o</i> , 20% <i>w</i> , 5% <i>g</i>	0.30
69.00	OCM 76% <i>m</i> , 23% <i>o</i> , 1% <i>g</i>	0.97
5.00	CO 95% <i>o</i> , 3% <i>m</i> , 2% <i>g</i>	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co. Inc.

15-4s-21w Norton,KS

PO Box 428
Logan, KS 67646

Anna #2-15

Job Ticket: 50573

DST#: 1

ATTN: Richard Bell

Test Start: 2013.03.20 @ 06:25:00

Tool Information

Drill Pipe:	Length: 3313.00 ft	Diameter: 3.80 inches	Volume: 46.47 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 47.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3443.00 ft			Final 60000.00 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: Losing mud at open - pulled and reset tool
lost another 15 - 20' of mud at open then held - 4 1/2" surge blow

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3428.00	
Hydraulic tool	5.00			3433.00	
Packer	5.00			3438.00	20.00 Bottom Of Top Packer
Packer	5.00			3443.00	
Stubb	1.00			3444.00	
Recorder	0.00	6719	Inside	3444.00	
Recorder	0.00	8320	Outside	3444.00	
Perforations	18.00			3462.00	
Bullnose	3.00			3465.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co. Inc.

15-4s-21w Norton,KS

PO Box 428
Logan, KS 67646

Anna #2-15

Job Ticket: 50573

DST#: 1

ATTN: Richard Bell

Test Start: 2013.03.20 @ 06:25:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 6.38 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 29.8 deg API
Water Salinity: 18000 ppm

Recovery Information

Recovery Table

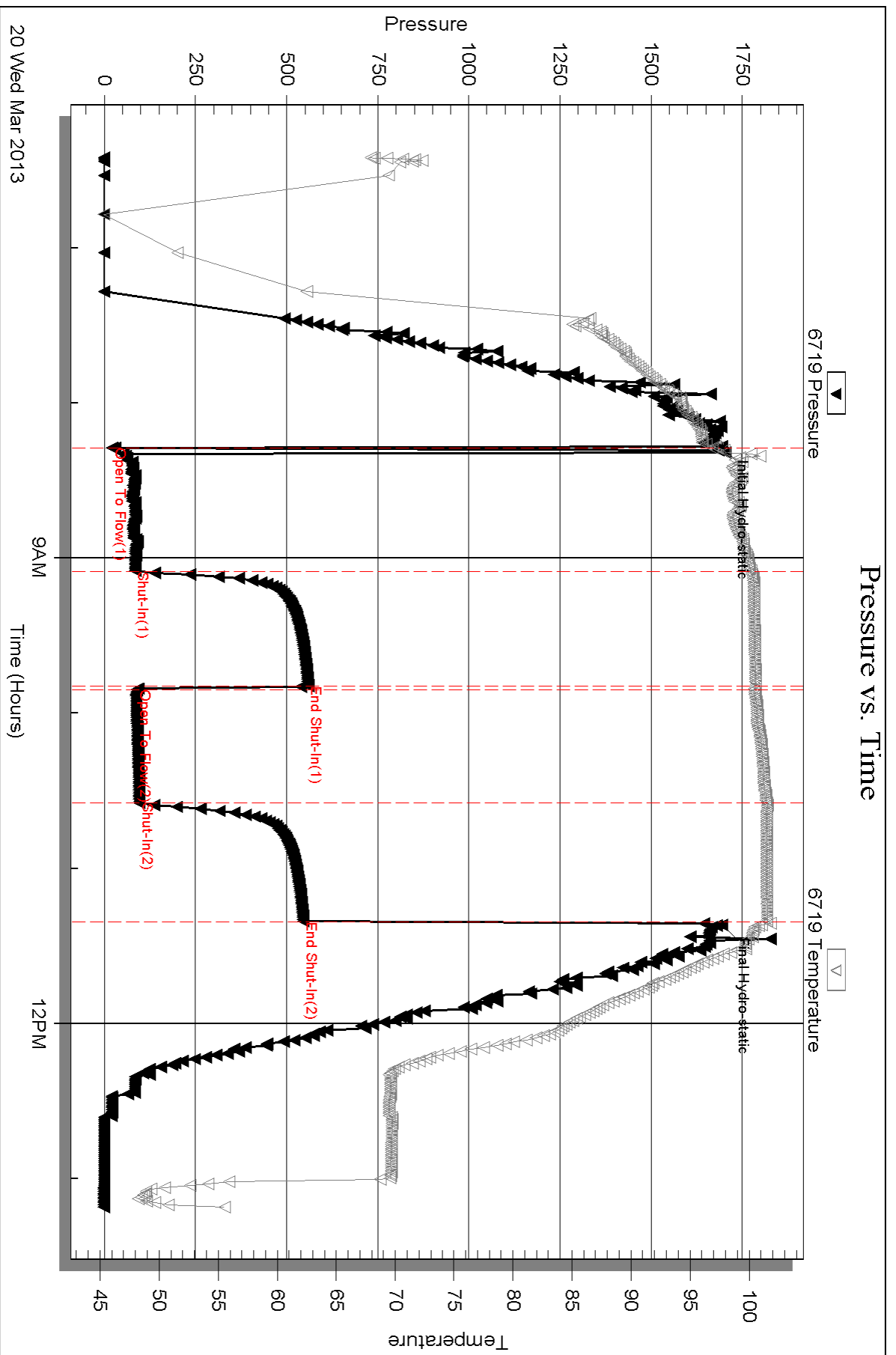
Length ft	Description	Volume bbl
60.00	OCWM 45%m, 43%w , 6%o, 6%g	0.295
61.00	WOM 42%m, 33%o, 20%w , 5%g	0.300
69.00	OCM 76%m, 23%o, 1%g	0.968
5.00	CO 95%o, 3%m, 2%g	0.070

Total Length: 195.00 ft Total Volume: 1.633 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 30 api @ 62 deg F Corrected Gravity = 29.8 api
RW = .436 ohms @ 59.8 deg F Chlorides = 18,000 ppm

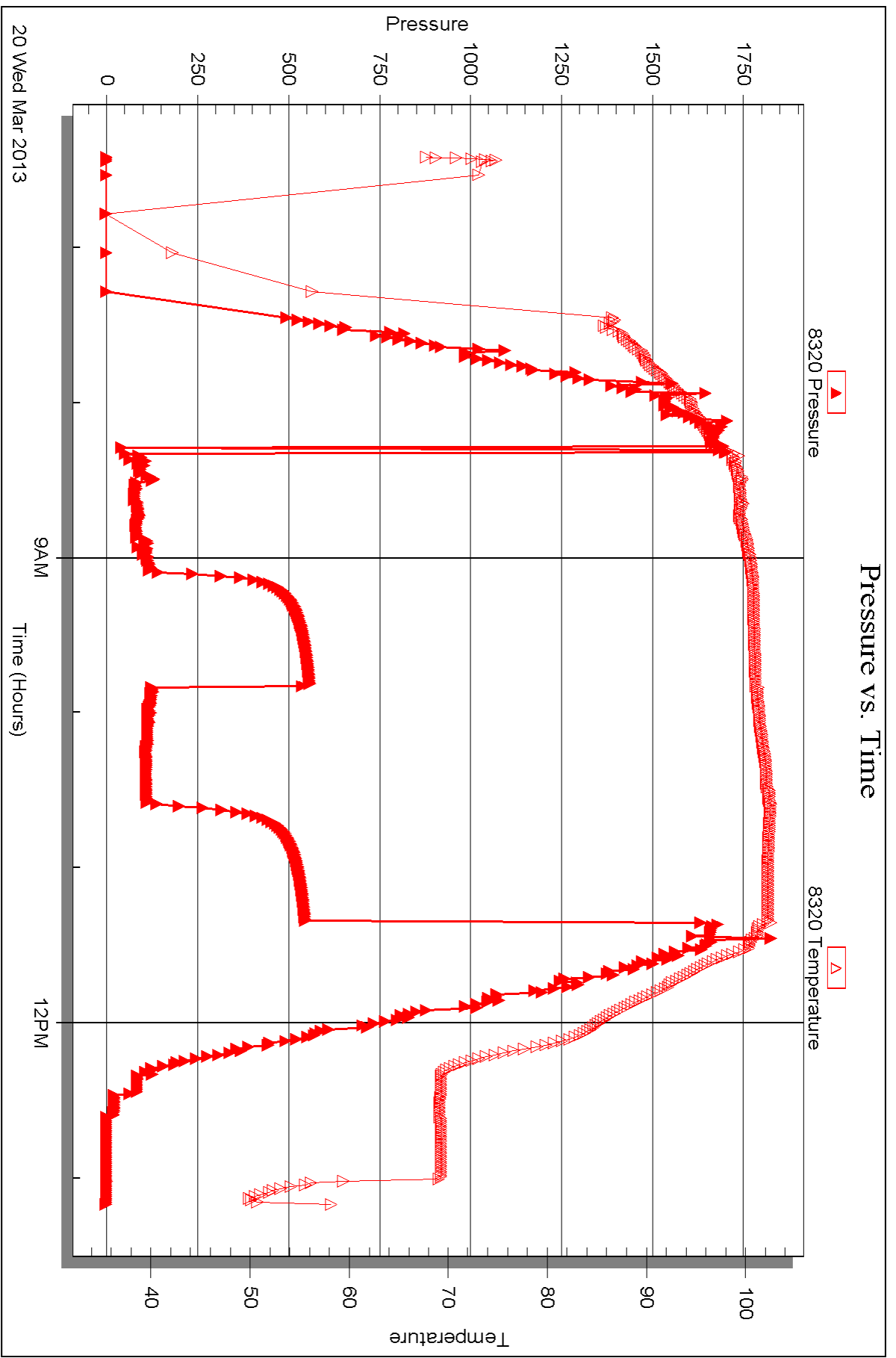


Serial #: 8320

Outside Baird Oil Co. Inc.

Anna #2-15

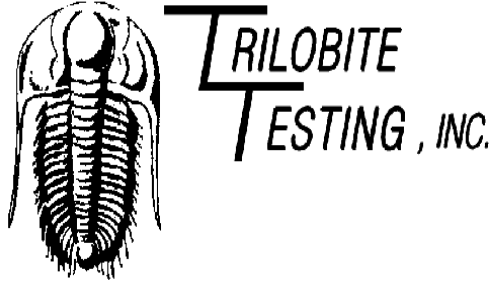
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50573

Printed: 2013.03.25 @ 14:23:13



DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Anna #2-15

15-4s-21w Norton,KS

Start Date: 2013.03.20 @ 18:40:00

End Date: 2013.03.20 @ 22:48:30

Job Ticket #: 50574 DST #: 2

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

Printed: 2013.03.25 @ 14:14:59

Baird Oil Co. Inc. 15-4s-21w Norton,KS Anna #2-15 DST # 2 LKC "D" 2013.03.20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co. Inc.

15-4s-21w Norton, KS

PO Box 428
Logan, KS 67646

Anna #2-15

Job Ticket: 50574

DST#: 2

ATTN: Richard Bell

Test Start: 2013.03.20 @ 18:40:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:13:00

Time Test Ended: 22:48:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3461.00 ft (KB) To 3482.00 ft (KB) (TVD)

Reference Elevations: 2190.00 ft (KB)

Total Depth: 3482.00 ft (KB) (TVD)

2182.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 84.62 psig @ 3462.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.20

End Date: 2013.03.20

Last Calib.: 2013.03.20

Start Time: 18:40:05

End Time: 22:48:30

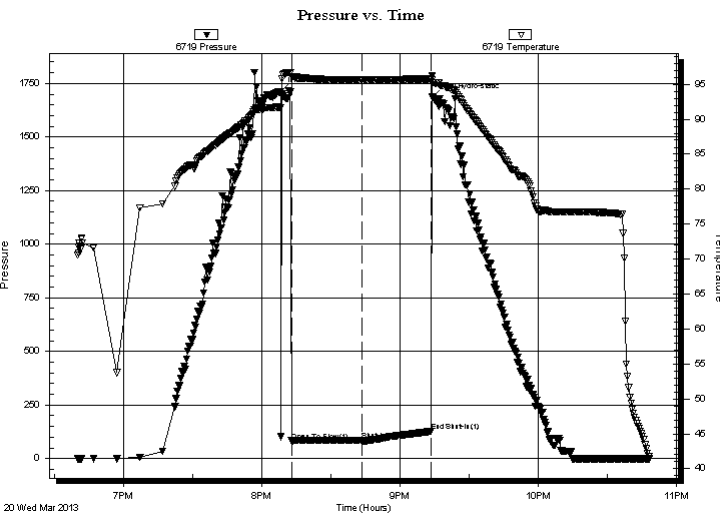
Time On Btm: 2013.03.20 @ 20:08:00

Time Off Btm: 2013.03.20 @ 21:14:00

TEST COMMENT: 30 - IF: Just under 1/2" blow at open, built to 1/2" then died back, dead at 22 min.

30 - IS: No blow back

Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.13	91.70	Initial Hydro-static
5	82.43	96.10	Open To Flow (1)
36	84.62	95.67	Shut-In(1)
66	126.42	95.76	End Shut-In(1)
66	1686.26	95.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	Mud 100%	0.93

* 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 Co. Inc.

15-4s-21w Norton,KS

PO Box 428
Logan, KS 67646

Anna #2-15

Job Ticket: 50574

DST#: 2

ATTN: Richard Bell

Test Start: 2013.03.20 @ 18:40:00

Tool Information

Drill Pipe:	Length: 3344.00 ft	Diameter: 3.80 inches	Volume: 46.91 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:	30000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 47.51 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3461.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Losing mud at open (20' - 30') pulled tool, reset
lost 2' of mud at open then held - just under 1/2" blow at open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3446.00	
Hydraulic tool	5.00			3451.00	
Packer	5.00			3456.00	20.00 Bottom Of Top Packer
Packer	5.00			3461.00	
Stubb	1.00			3462.00	
Recorder	0.00	6719	Inside	3462.00	
Recorder	0.00	8320	Outside	3462.00	
Perforations	17.00			3479.00	
Bullnose	3.00			3482.00	21.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co. Inc.

15-4s-21w Norton, KS

PO Box 428
Logan, KS 67646

Anna #2-15

Job Ticket: 50574

DST#: 2

ATTN: Richard Bell

Test Start: 2013.03.20 @ 18:40:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
145.00	Mud 100%	0.932

Total Length: 145.00 ft Total Volume: 0.932 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

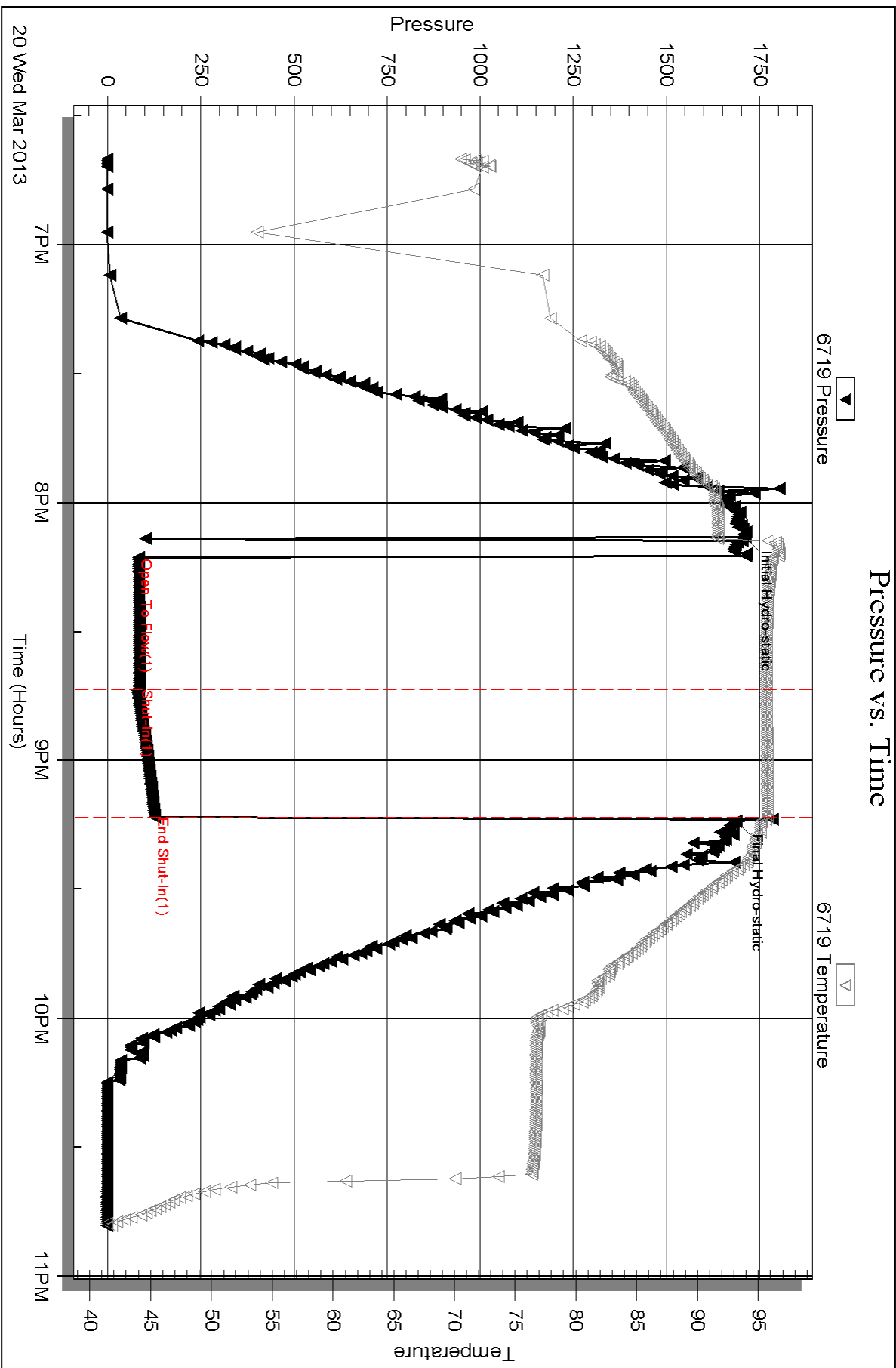
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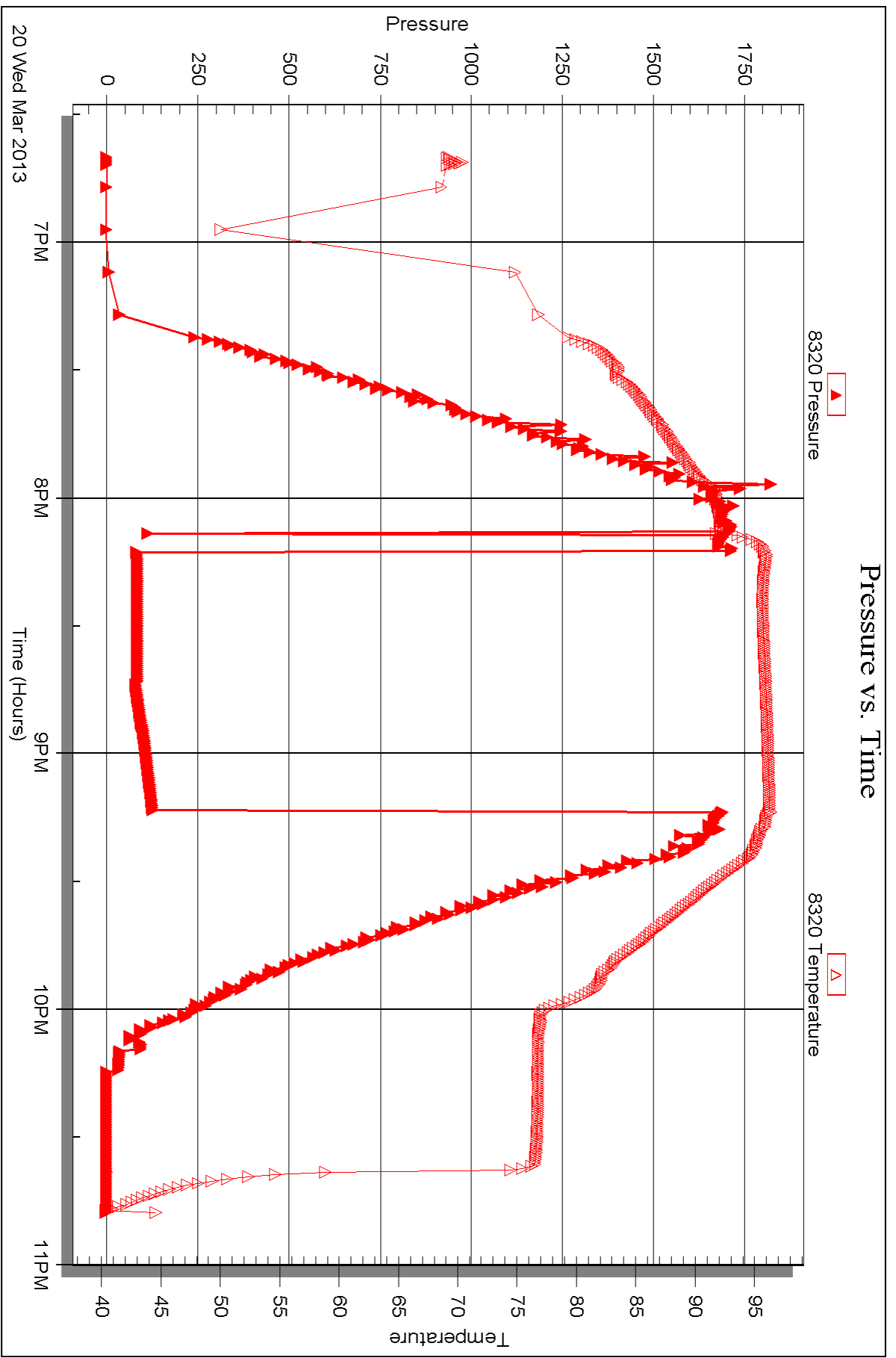
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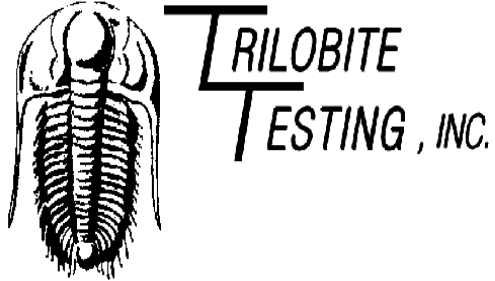
Baird Oil Co. Inc.

Anna #2-15

DST Test Number: 2







DRILL STEM TEST REPORT

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

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Anna #2-15

15-4s-21w Norton,KS

Start Date: 2013.03.21 @ 15:30:00

End Date: 2013.03.21 @ 20:30:45

Job Ticket #: 50575 DST #: 3

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

Printed: 2013.03.25 @ 14:13:52



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co. Inc.

15-4s-21w Norton, KS

PO Box 428
Logan, KS 67646

Anna #2-15

Job Ticket: 50575

DST#: 3

ATTN: Richard Bell

Test Start: 2013.03.21 @ 15:30:00

GENERAL INFORMATION:

Formation: **LKC "I, J, K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:02:00

Time Test Ended: 20:30:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3550.00 ft (KB) To 3602.00 ft (KB) (TVD)

Reference Elevations: 2190.00 ft (KB)

Total Depth: 3602.00 ft (KB) (TVD)

2182.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 27.37 psig @ 3551.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.21

End Date:

2013.03.21

Last Calib.:

2013.03.21

Start Time: 15:30:05

End Time:

20:30:44

Time On Btm:

2013.03.21 @ 17:01:45

Time Off Btm:

2013.03.21 @ 19:03:45

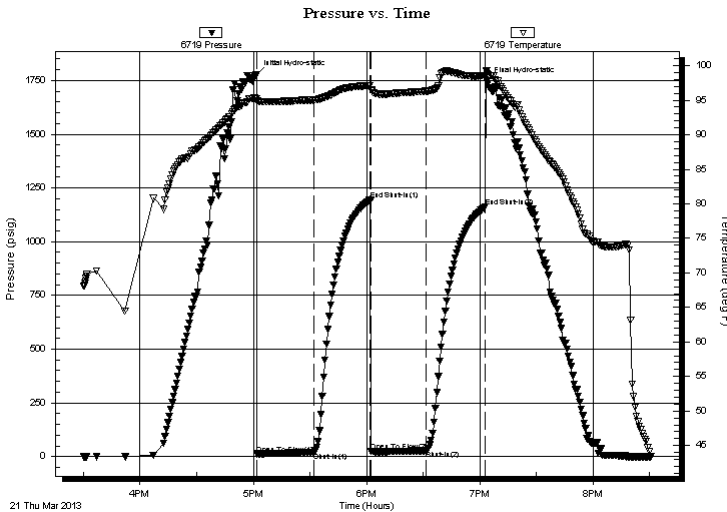
TEST COMMENT: 30 - IF: Weak intermittent blow built to just over 1/4"

30 - IS: Bled off, No blow back

30 - FF: No blow

30 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1777.46	95.26	Initial Hydro-static
1	12.29	94.95	Open To Flow (1)
31	19.73	95.06	Shut-In(1)
60	1195.23	97.16	End Shut-In(1)
61	23.42	96.52	Open To Flow (2)
90	27.37	96.32	Shut-In(2)
122	1162.31	98.61	End Shut-In(2)
122	1743.98	98.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w /trace w ater 99%w, 1%w	0.15

* 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 Co. Inc.

15-4s-21w Norton,KS

PO Box 428
Logan, KS 67646

Anna #2-15

Job Ticket: 50575

DST#: 3

ATTN: Richard Bell

Test Start: 2013.03.21 @ 15:30:00

Tool Information

Drill Pipe:	Length: 3437.00 ft	Diameter: 3.80 inches	Volume: 48.21 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 48.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3550.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 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			3535.00	
Hydraulic tool	5.00			3540.00	
Packer	5.00			3545.00	20.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Recorder	0.00	6719	Inside	3551.00	
Recorder	0.00	8320	Outside	3551.00	
Perforations	10.00			3561.00	
Blank Spacing	33.00			3594.00	
Perforations	5.00			3599.00	
Bullnose	3.00			3602.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co. Inc.

15-4s-21w Norton, KS

PO Box 428
Logan, KS 67646

Anna #2-15

Job Ticket: 50575

DST#: 3

ATTN: Richard Bell

Test Start: 2013.03.21 @ 15:30:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud w /trace w water 99%w, 1%w	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

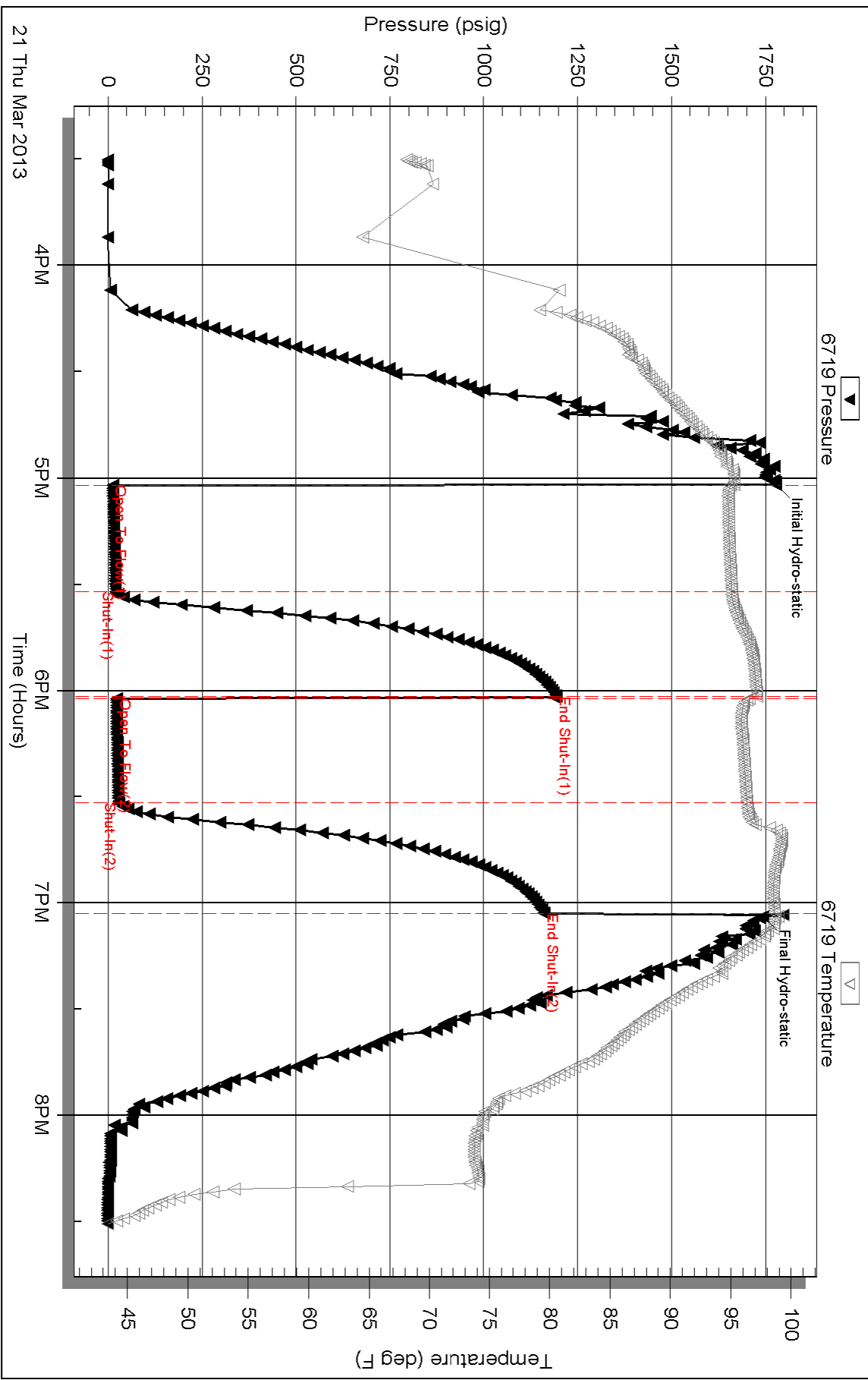
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

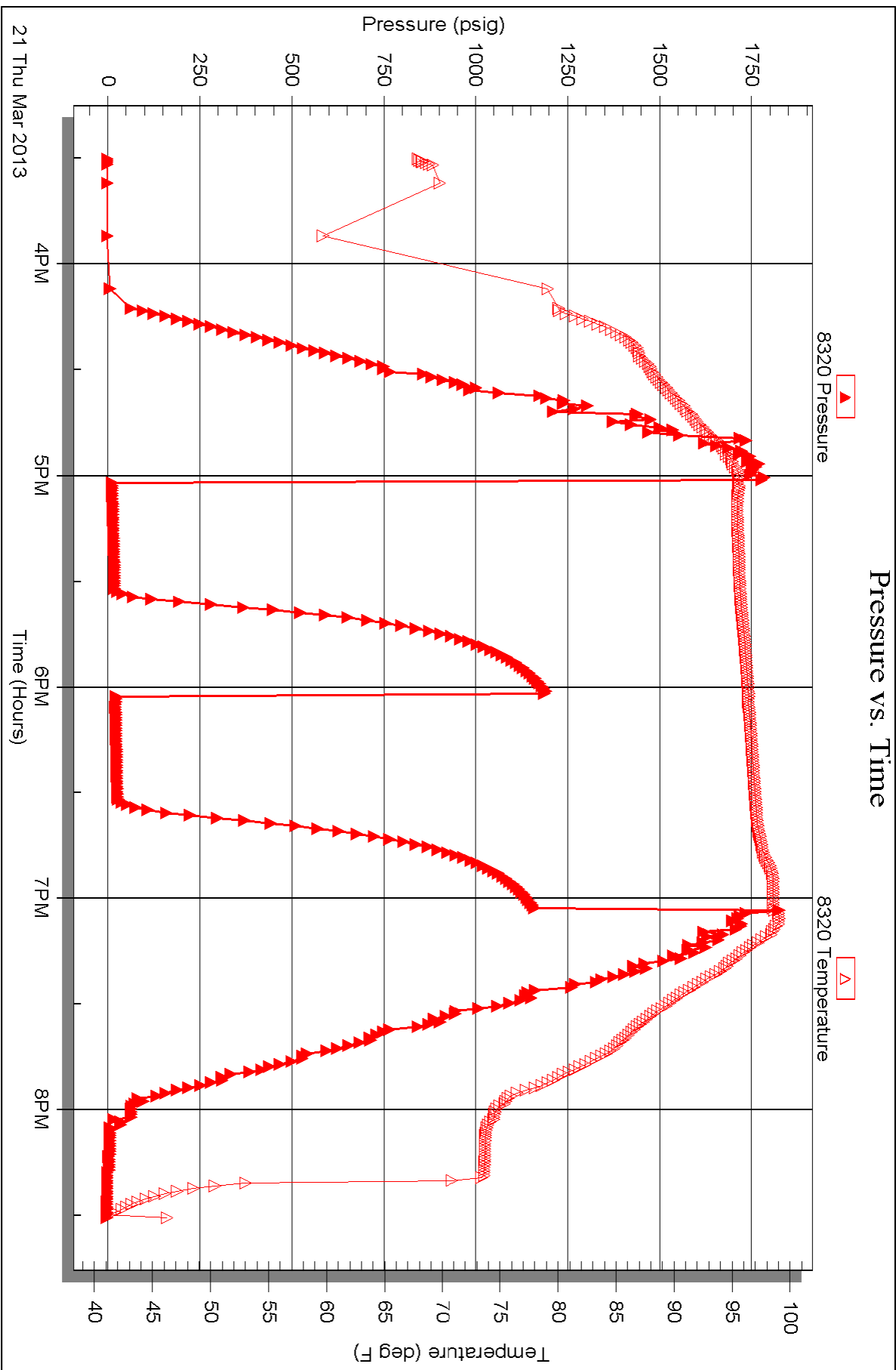


Serial #: 8320

Outside Baird Oil Co. Inc.

Anna #2-15

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50573

4/10

Well Name & No. Anna # 2-15 Test No. 1 Date 3-20-13
 Company Baird Oil Co. ~~Inc.~~ LLC Elevation 2190 KB 2182 GL
 Address PO Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 15 Twp. 4s Rge. 21w Co. Norton State KS

Interval Tested 3443-3465 Zone Tested LKC "C"
 Anchor Length 22 Drill Pipe Run 3313 Mud Wt. 9.1
 Top Packer Depth 3438 Drill Collars Run ~~120~~ 121 Vis 57
 Bottom Packer Depth 3443 Wt. Pipe Run - WL 6.4
 Total Depth 3465 Chlorides 1000 ppm System LCM 2

Blow Description IF: 4 1/2" surge blow, built to 10"
ISI: Bled off, surface blowback - did not build
FF: Blow built to 6"
FST: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>CO</u>	<u>2</u>	<u>95</u>	<u>-</u>	<u>3</u>
<u>69</u>	<u>OCM</u>	<u>1</u>	<u>23</u>	<u>-</u>	<u>76</u>
<u>61</u>	<u>WOM</u>	<u>5</u>	<u>33</u>	<u>20</u>	<u>42</u>
<u>60</u>	<u>OCWM</u>	<u>6</u>	<u>6</u>	<u>43</u>	<u>45</u>
Rec	Feet of	%gas	%oil	%water	%mud

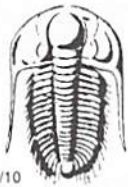
Rec Total 195 BHT 102 Gravity 29.8 API RW .436 @ 59.8 °F Chlorides 18,000 ppm

(A) Initial Hydrostatic 1694 Test X 1150 T-On Location 5:40
 (B) First Initial Flow 21 Jars T-Started 6:25
 (C) First Final Flow 85 Safety Joint T-Open 8:17
 (D) Initial Shut-In 559 Circ Sub X NA T-Pulled 11:20
 (E) Second Initial Flow 90 Hourly Standby T-Out 13:00
 (F) Second Final Flow 96 Mileage 112 RT 173.60 Comments Set tool - losing mud
 (G) Final Shut-In 546 Sampler - Pulled & Reset tool - lost another
 (H) Final Hydrostatic 1695 Straddle 15:20' of mud then held - 4 1/2" surge blow
 Ruined Shale Packer
 Ruined Packer

Initial Open 45 Extra Packer
 Initial Shut-In 45 Extra Recorder
 Final Flow 45 Day Standby
 Final Shut-In 45 Accessibility
 Sub Total 1323.60 MP/DST Disc't

Approved By Richard Bell Our Representative James Winder

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50574

Well Name & No. Anna # 2-15 Test No. 2 Date 3-20-13
 Company Baird Oil Co. ~~Drill~~ LLC Elevation 2190 KB 2182 GL
 Address PO Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 15 Twp. 4s Rge. 21w Co. Norton State KS

Interval Tested 3461-3482 Zone Tested LKC "D"
 Anchor Length 21 Drill Pipe Run 3344 Mud Wt. 9.1
 Top Packer Depth 3456 Drill Collars Run 121 Vis 58
 Bottom Packer Depth 3461 Wt. Pipe Run - WL 6.4
 Total Depth 3482 Chlorides 1200 ppm System LCM 1 1/2
 Blow Description IF: Just under 1/2" blow at open, built to 1/2" then died back, dead at 22 min.
ISI: No blowback
Pulled Tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>145</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 145 BHT 96 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1711</u>	<input type="checkbox"/> Test <u>*</u> 1250	T-On Location <u>18:15</u>
(B) First Initial Flow <u>82</u>	<input checked="" type="checkbox"/> Jars _____	T-Started <u>18:40</u>
(C) First Final Flow <u>85</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>20:13</u>
(D) Initial Shut-In <u>126</u>	<input checked="" type="checkbox"/> Circ Sub <u>*NA</u>	T-Pulled <u>21:13</u>
(E) Second Initial Flow <u>-</u>	<input checked="" type="checkbox"/> Hourly Standby _____	T-Out <u>22:45</u>
(F) Second Final Flow <u>-</u>	<input type="checkbox"/> Mileage <u>112 RT</u> 173.60	Comments <u>losing mud (20-30')</u>
(G) Final Shut-In <u>-</u>	<input checked="" type="checkbox"/> Sampler _____	<u>pulled - reset tool - lost 2'</u>
(H) Final Hydrostatic <u>1686</u>	<input checked="" type="checkbox"/> Straddle _____	<u>mud at open then held - 1/2" blow</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer _____	<input checked="" type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input checked="" type="checkbox"/> Extra Packer _____	<input checked="" type="checkbox"/> Ruined Packer _____
Final Flow <u>-</u>	<input checked="" type="checkbox"/> Extra Recorder _____	<input checked="" type="checkbox"/> Extra Copies _____
Final Shut-In <u>-</u>	<input checked="" type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input checked="" type="checkbox"/> Accessibility _____	Total <u>1323.60</u>
	Sub Total <u>1323.60</u>	MP/DST Disc't _____

Approved By Richard Bell Our Representative James Winder

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50575

4/10

Well Name & No. Anna #2-15 Test No. 3 Date 3-21-13
 Company Baird Oil Co. ~~Inc~~ LLC Elevation 2190 KB 2182 GL
 Address PO Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 15 Twp. 4s Rge. 21w Co. Norton State KS

Interval Tested 3550 - 3602 Zone Tested LKC "I, J, K"
 Anchor Length 52 Drill Pipe Run 3437 Mud Wt. 9.3
 Top Packer Depth 3545 Drill Collars Run 121 Vis 50
 Bottom Packer Depth 3550 Wt. Pipe Run - WL 6.8
 Total Depth 3602 Chlorides 1900 ppm System LCM 1
 Blow Description IF: Weak intermittent blow, built to just over 1/4"
ISI: Bled off, No blowback
FF: No blow
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud w/trace water</u>	<u>-</u>	<u>-</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 30 BHT 99 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1777</u>	<input type="checkbox"/> Test <u>★</u> 1150	T-On Location <u>14:45</u>
(B) First Initial Flow <u>12</u>	<input checked="" type="checkbox"/> Jars	T-Started <u>15:30</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>17:02</u>
(D) Initial Shut-In <u>1195</u>	<input checked="" type="checkbox"/> Circ Sub <u>★ NA</u>	T-Pulled <u>19:03</u>
(E) Second Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>20:30</u>
(F) Second Final Flow <u>27</u>	<input type="checkbox"/> Mileage <u>112 RT X 2</u> 347.20	Comments
(G) Final Shut-In <u>1162</u>	<input checked="" type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1744</u>	<input checked="" type="checkbox"/> Straddle	<input checked="" type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer	<input checked="" type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Extra Packer	<input checked="" type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input checked="" type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Day Standby	Total <u>1497.20</u>
Final Shut-In <u>30</u>	<input checked="" type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1497.20</u>	

Approved By Richard Bell Our Representative James Winder

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