



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

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

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

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

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

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

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite: \_\_\_\_\_

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

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

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

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

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

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



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

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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 Bbbs.	Gas Mcf	Water Bbbs.	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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	Sides 1-3
Doc ID	1055810

Tops

Name	Top	Datum
Anhydrite	1877	+341
Base Anhydrite	1905	+313
Topeka	3219	-1001
Heebner	3419	-1201
Toronto	3445	-1227
Lansing	3461	-1243
Base Kansas City	3647	-1429
Marmaton	3682	-1464
Arbuckle	3707	-1489
Precambrian	3740	-1522
Total Depth	3753	-1535

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/>

Thomas E. Wright, Chairman  
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 13, 2011

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

Re: ACO1  
API 15-137-20559-00-00  
Sides 1-3  
NW/4 Sec.03-04S-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



# SWIFT



Services, Inc.

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



## Invoice

DATE	INVOICE #
5/5/2011	19667

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	#1-3	Sides	Norton	WW Drilling #8	Oil	Development	Surface	Dave

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	5.00	400.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)	1	Job	750.00	750.00
290	D-Air	1	Gallon(s)	35.00	35.00T
325	Standard Cement	150	Sacks	12.00	1,800.00T
278	Calcium Chloride	4	Sack(s)	35.00	140.00T
279	Bentonite Gel	3	Sack(s)	25.00	75.00T
581D	Service Charge Cement	150	Sacks	1.50	225.00
583D	Drayage	588.8	Ton Miles	1.00	588.80
	Subtotal				4,013.80
	Sales Tax Norton County			7.05%	144.53
	<i>R5/9/2011</i> <i>PS/9/2011</i> <i>sides 190402 4158.33</i> <i>Sides 1-3 - Pump charge, cement</i> <i>+ other misc. used to cement</i> <i>surface casing</i>				
				<i>5/10/2011</i>	<i>CK# 10996</i>

**We Appreciate Your Business!**

**Total**

\$4,158.33



Services, Inc.

CHARGE TO: Barrid Oil  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET  
 19667

PAGE 1 OF 1

SERVICE LOCATIONS

1. HAYS WELL/PROJECT NO. 1-3 LEASE SKOES COUNTY/PARISH ADOLTAU STATE KS DATE 05-05-11 OWNER

2. NESS CONTRACTOR NESS RIG NAME NO. W.D. DRILL # 8 SHIPPED VIA CZ ORDER NO.

3. WELL TYPE Oil WELL CATEGORY Develop JOB PURPOSE SURFACE DELIVERED TO A.E. DENSMORE WELL LOCATION

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #112	80	mi			5.00	400.00
576.5		1			Pump Service	1	EA			750.00	750.00
290		1			D-AIR	1	642			35.00	35.00
325		2			STD CNT	150	SY			12.00	1800.00
278		2			CALCIUM CHLORIDE	4	SY			35.00	140.00
279		2			BENTONITE GEL	3	SY			25.00	75.00
581		2			SERVICE CHG CNT	150	SY			1.50	225.00
583		2			DAMAGE	588.8	TM			1.00	588.80

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

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

X DATE SIGNED 05-05-11 TIME SIGNED 1530  A.M.  P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

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

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 41013 80

TOTAL 4158.33

TAX 7.05% 144.53

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

SWIFT OPERATOR Dave Bly APPROVAL

Thank You!



**JOB LOG**

**SWIFT Services, Inc.**

DATE: 05-05-11 PAGE NO. 1

CUSTOMER: Baird Oil WELL NO.: 1-3 LEASE: SWES JOB TYPE: SURFACE TICKET NO.: 19667

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1530							ON LOCATION CMT: 150 SWS STD 2 1/2 SEL, 3 1/2 OCC. 12 1/4 @ 220 8 5/8 @ 24" @ 219
	1715							BREAK CIRC w/ RIG
	1730	4.5	2.0		/		200	H2O SPACER
		4.5	36.0		/		200	CMT 150 SWS
		4.5	0		/		200	START DISP
			8.0		/		300	CIRCUMT TO PIT! 20 SWS
	1745	4.5	13.0		/		350	END DISP LEFT 15 FT INCSG!
	1800							JOB COMPLETE
								THANK YOU! DAVE JAWB, DAVID

# SWIFT



Services, Inc.

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



## Invoice

DATE	INVOICE #
5/11/2011	19672

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	#1-3	Sides	Norton	WW Drilling #8	Oil	Development	LongString	Dave

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	5.00	400.00
578D-L	Pump Charge - Long String	1	Job	1,400.00	1,400.00
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	2	Gallon(s)	35.00	70.00T
402-5	5 1/2" Centralizer	11	Each	65.00	715.00T
403-5	5 1/2" Cement Basket	1	Each	230.00	230.00T
404-5	5 1/2" Port Collar	1	Each	2,100.00	2,100.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	300.00	300.00T
411-5	5 1/2" Recipo Scratcher	30	Each	45.00	1,350.00T
325	Standard Cement	200	Sacks	12.00	2,400.00T
326	60/40 Pozmix (2% Gel)	40	Sacks	9.50	380.00T
276	Flocele	50	Lb(s)	1.50	75.00T
277	Gilsonite (Coal Seal)	480	Lb(s)	0.60	288.00T
283	Salt	1,550	Lb(s)	0.15	232.50T
285	CFR-1	100	Lb(s)	4.00	400.00T
581D	Service Charge Cement	240	Sacks	1.50	360.00
583D	Drayage	970.88	Ton Miles	1.00	970.88
	Subtotal				13,196.38
	Sales Tax Norton County			7.05%	709.62

R5/16/2011  
 P5/16/2011  
 Sides 190402 13906.00  
 Sides 1-3 - Pump charge, cement  
 & other misc expenses used to  
 cement production casing

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$13,906.00
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Services, Inc.

TICKET  
19672

CHARGE TO: BALCO DIC  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. MAVS WELL/PROJECT NO. 1-3 LEASE SLES COUNTY/PARISH ADATON STATE LA DATE 05-11-11 OWNER  
 2. NESS TICKET TYPE  SERVICE CONTRACTOR WUMLAC 8 RIG NAME/NO. WUMLAC 8 SHIPPED VIA CT DELIVERED TO NE Desnoire ORDER NO.  
 3. WELL TYPE DIC WELL CATEGORY Develop JOB PURPOSE LODSTRAP WELL PERMIT NO. 15-137-20559 WELL LOCATION SS 74 2d1

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575						80	m				5.00	400.00
578					Pump Service	1	EA				1400.00	1400.00
281					Liquidite	2	EA				25.00	50.00
280					FOOTER 21	500	EA				2.50	1250.00
280					DAIR	2	EA				35.00	70.00
402					CENTRALIZER	11	EA				65.00	715.00
403					BEAR	1	EA				230.00	230.00
404					FOOT CURB	1	EA				2100.00	2100.00
406					4 1/2" x 60" Flow & BITE	1	EA				225.00	225.00
407					INSERT FORTS THE W/HTPFLU	1	EA				300.00	300.00
411					Dec AD SENSITIZER	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 Wall DATE SIGNED 05-11-11 TIME SIGNED 1430

A.M.  P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

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

CUSTOMER DID NOT WISH TO RESPOND

Agree	UN-DECIDED	DIS-AGREE	PAGE TOTAL	Agree	8090.00
Agree	UN-DECIDED	DIS-AGREE	TOTAL	Agree	13,906.00

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

SWIFT OPERATOR Shelby APPROVAL

Thank You





**JOB LOG**

**SWIFT Services, Inc.**

DATE 05-11-11 PAGE NO. 1

CUSTOMER Daird Ore WELL NO. 1-3 LEASE SWES JOB TYPE LONGSTRING TICKET NO. 19672

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1430							DN LOCATION CMT: 40, 60-40 puz 2 3/8 sec, 12 1/4" C.A. 50-112 200, 520 1/4" W, 18" BASKET, 1/2" C.A.
								LTD 3753 RND 3750 SET PIPE 3752 SJ 45.0 TUBLET 3707 5 1/2" 14" Poly Collar out sp 42, 1876 FT 30 RICEPO SCRATCHERS ON 1ST 10 JOINTS CENT 1-10, 41 BASKET 42
	1700							START CSU & FLOWERY
	1840							TAG BOTTOM - DRIP BARL
	1845							BREAKING CIRC. RECIPRO P/R
	1940		7					PLUG RH 30 W/ 60-40 puz
	1945	6.0	15		-		200	WCL FLUSH
			12		-			FLOCH ECH 21
			5		-			WCL FLUSH
			4		-			CMT 60-40 puz
	1956		435		-			" 520 DROP LD PLUG, WASHOUT PL
	2000	6.2	0		-		200	START DRIP
			44		-		200	CMT ON BOTTOM
			80		-		500	
			85		-		600	
	2015	4.7	905		-		1400	LAND PLUG RELEASE
								JOB COMPLETE
								THANK YOU! DAVE, JOSH & LANE



# SWIFT



Services, Inc.

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



## Invoice

DATE	INVOICE #
5/16/2011	20730

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	#1-3	Sides	Norton		Oil	Development	Cement Port Collar	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	5.00	200.00
576D-D	Pump Charge - Port Collar				1	Job	1,100.00	1,100.00
330	Swift Multi-Density Standard (MIDCON II)				175	Sacks	15.00	2,625.00T
276	Flocele				50	Lb(s)	1.50	75.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
104	Port Collar Tool Rental				1	Each	200.00	200.00T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				895.6	Ton Miles	1.00	895.60
	Subtotal							5,503.10
	Sales Tax Norton County						7.05%	209.39
	RS/23/2011 PS/24/2011  Sides 190402 5398.39 Sides 1-3 - Pump charge, cement + other misc expenses used to cement port collar  Sides 190402 314.10 Sides 1-3 - Rental of port collar + man when cementing port collar							
<b>We Appreciate Your Business!</b>							<b>Total</b>	\$5,712.49



**JOB LOG**

**SWIFT Services, Inc.**

DATE 16 May 11 PAGE NO. 1

CUSTOMER Bard Oil WELL NO. 1-3 LEASE Sides JOB TYPE Cement Port Collar TICKET NO.

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								225 SMD w/ Flocco
								2 3/4 x 5 1/2 PORT COLLAR - 1876'
	1310	<del>150</del>						on loc TRK 114 - drove over from Anna 1-3
	1320					1000	1000	test to 1000 psi - held
	1330	3	3			400		inj rate
	1340	3				300		start w/ H <sub>2</sub> O
	1345	3	3 1/2			300		fluid to surface
								mix SMD cement @ 11.2 ppg
	1400	3 1/4	10			250		
	1420	3	58			350		cement to surface
								increase weight
	1410	3	92			350		<del>175 SMD</del> mixed
								close port collar
	1415					1000	1000	test to 1000 - held
								run 4 joints
								reverse hole clean
	1425	3	25			250		
								pull tool
								wash track
								job complete
								return to Anna 1-3





CHARGE TO: BAED 011  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET  
**20730**

PAGE 1 OF 1

SERVICE LOCATION: WELL/PROJECT NO. 1-3 LEASE Sides COUNTY/PARISH BOEON STATE MS CITY Dansmore DATE 16 MAY 11 OWNER  
 1. WAS 6175  
 2. TICKET TYPE  SERVICE CONTRACTOR BRN RIG NAME NO. location ORDER NO.  
 3.  SALES WELL TYPE 017 WELL CATEGORY Development JOB PURPOSE cement port collar WELL PERMIT NO. WELL LOCATION 3-95-214  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE	40	mi			5.00	200.00
576D		1			Pump Charge	1	ea			1100.00	1100.00
330		1			SMD cement	175	sk			15.00	2625.00
276		1			Fluocel	50	lb			1.50	75.00
290		1			D-AIR	2	gal			35.00	70.00
581		1			Service Charge	225	sk				337.50
583		1			Damage	225	sk				895.60
104		1			Foot locker tool rental	1	ea			200.00	200.00

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 [Signature] TIME SIGNED  A.M.  P.M.

REMIT PAYMENT TO:

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

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

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL

5343.10

Tax 7.05%

209.39

TOTAL

5712.49

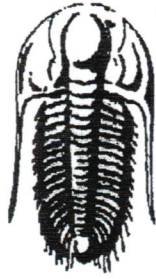
CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR

APPROVAL

[Signature]

Thank You!



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**3/4s/21w Norton KS**

**Sides #1-3**

Start Date: 2011.05.08 @ 21:00:00

End Date: 2011.05.09 @ 03:33:30

Job Ticket #: 042003      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company, LLC

Sides #1-3

3/4s/21w Norton KS

DST # 1

LKC "A"

2011.05.08





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

Job Ticket: 042003 **DST#: 1**

ATTN: Richard Bell

Test Start: 2011.05.08 @ 21:00:00

### GENERAL INFORMATION:

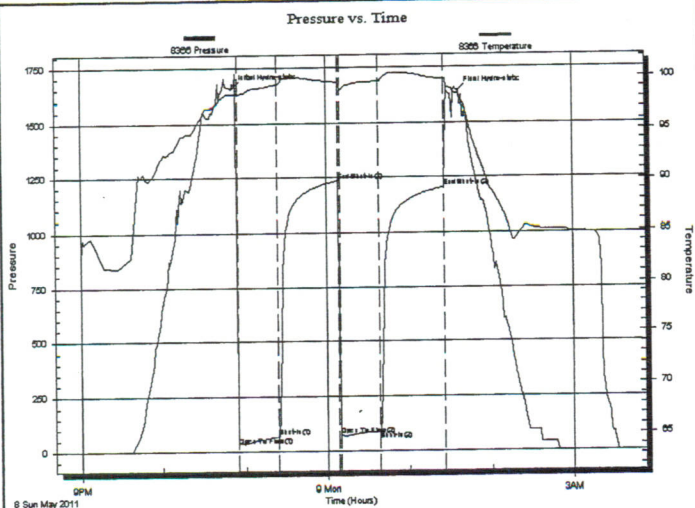
Formation: **LKC "A"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:54:30  
 Time Test Ended: 03:33:30  
 Test Type: Conventional Bottom Hole  
 Tester: James Winder  
 Unit No: 46  
 Interval: **3446.00 ft (KB) To 3468.00 ft (KB) (TVD)**  
 Total Depth: 3468.00 ft (KB) (TVD)  
 Reference Elevations: 2218.00 ft (KB)  
 2213.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

### Serial #: 8366

Inside

Press@RunDepth: 91.88 psig @ 3447.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.05.08 End Date: 2011.05.09 Last Calib.: 2011.05.09  
 Start Time: 21:00:05 End Time: 03:33:29 Time On Btm: 2011.05.08 @ 22:51:00  
 Time Off Btm: 2011.05.09 @ 01:36:00

**TEST COMMENT:** IF: Blow built to BOB (11") in 9 3/4 min.  
 IS: Blow back built to 2 1/4"  
 FF: Blow built to BOB in 13 min.  
 FS: Blow back built to 6"



### PRESSURE SUMMARY

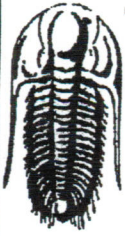
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.58	98.35	Initial Hydro-static
4	26.01	98.27	Open To Flow (1)
33	66.29	99.30	Shut-In(1)
78	1231.61	99.54	End Shut-In(1)
79	73.31	98.82	Open To Flow (2)
108	91.88	99.60	Shut-In(2)
155	1200.56	99.78	End Shut-In(2)
165	1639.65	98.35	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOM 55% <sub>m</sub> , 31% <sub>o</sub> , 14% <sub>g</sub>	0.20
190.00	CGO 76% <sub>o</sub> , 21% <sub>g</sub> , 3% <sub>m</sub>	1.91
0.00	GIP = 455'	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

Job Ticket: 042003

**DST#: 1**

ATTN: Richard Bell

Test Start: 2011.05.08 @ 21:00:00

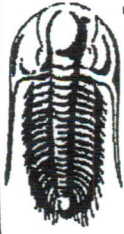
**Tool Information**

Drill Pipe:	Length: 3327.00 ft	Diameter: 3.80 inches	Volume: 46.67 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 47.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3446.00 ft			Final	44000.00 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			3431.00	
Hydraulic tool	5.00			3436.00	
Packer	5.00			3441.00	20.00 Bottom Of Top Packer
Packer	5.00			3446.00	
Stubb	1.00			3447.00	
Recorder	0.00	8366	Inside	3447.00	
Recorder	0.00	8320	Outside	3447.00	
Perforations	18.00			3465.00	
Bullnose	3.00			3468.00	22.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

Job Ticket: 042003

**DST#: 1**

ATTN: Richard Bell

Test Start: 2011.05.08 @ 21:00:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36.4 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.77 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1000.00 ppm		
Filter Cake: 2.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GOM 55% <sub>m</sub> , 31% <sub>o</sub> , 14% <sub>g</sub>	0.197
190.00	CGO 76% <sub>o</sub> , 21% <sub>g</sub> , 3% <sub>m</sub>	1.909
0.00	GIP = 455'	0.000

Total Length: 230.00 ft      Total Volume: 2.106 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 36.6 api @ 62 deg F



Serial #: 8366

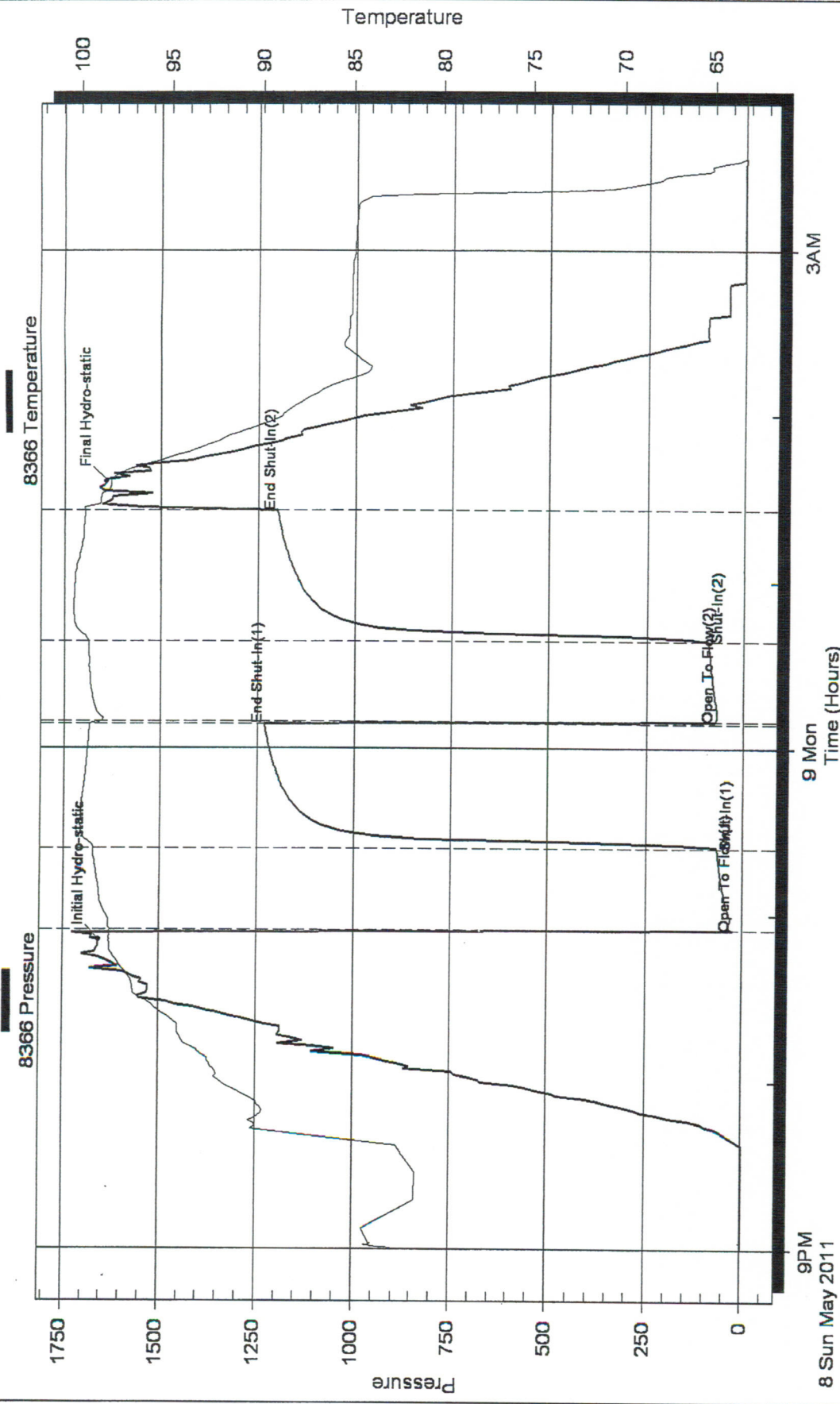
Inside

Beard Oil Company, LLC

3/4s/21w Norton KS

DST Test Number: 1

### Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**3/4s/21w Norton KS**

**Sides #1-3**

Start Date: 2011.05.09 @ 09:36:00

End Date: 2011.05.09 @ 14:24:30

Job Ticket #: 042004      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company, LLC

Sides #1-3

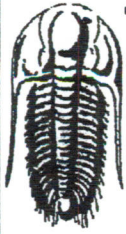
3/4s/21w Norton KS

DST # 2

LKC "C"

2011.05.09





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

ATTN: Richard Bell

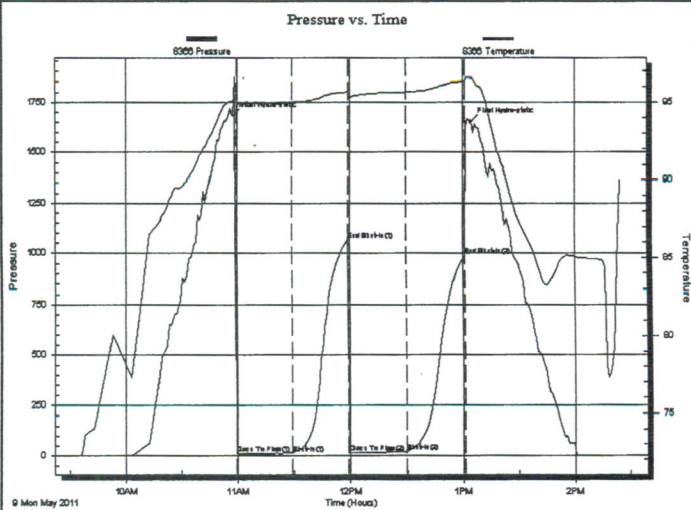
Job Ticket: 042004      **DST#: 2**  
Test Start: 2011.05.09 @ 09:36:00

**GENERAL INFORMATION:**

Formation: <b>LKC "C"</b>	Test Type: <b>Conventional Bottom Hole</b>
Deviated: <b>No Whipstock: ft (KB)</b>	Tester: <b>James Winder</b>
Time Tool Opened: <b>10:59:30</b>	Unit No: <b>46</b>
Time Test Ended: <b>14:24:30</b>	Reference Elevations: <b>2218.00 ft (KB)</b>
Interval: <b>3472.00 ft (KB) To 3492.00 ft (KB) (TVD)</b>	<b>2213.00 ft (CF)</b>
Total Depth: <b>3492.00 ft (KB) (TVD)</b>	<b>KB to GR/CF: 5.00 ft</b>
Hole Diameter: <b>7.88 inches</b> Hole Condition: <b>Fair</b>	

<b>Serial #: 8366</b>	<b>Inside</b>		
Press@RunDepth: <b>19.91 psig @ 3473.00 ft (KB)</b>	Capacity: <b>8000.00 psig</b>		
Start Date: <b>2011.05.09</b>	End Date: <b>2011.05.09</b>	Last Calib.: <b>2011.05.09</b>	
Start Time: <b>09:36:05</b>	End Time: <b>14:24:29</b>	Time On Btrm: <b>2011.05.09 @ 10:57:30</b>	
		Time Off Btrm: <b>2011.05.09 @ 13:04:30</b>	

**TEST COMMENT:** IF: Blow built to 1"  
IS: No blow back  
FF: Blow built to 1"  
FSI: No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.73	95.13	Initial Hydro-static
2	11.91	94.85	Open To Flow (1)
32	14.62	95.04	Shut-In(1)
62	1064.13	95.68	End Shut-In(1)
63	15.45	95.34	Open To Flow (2)
92	19.91	95.68	Shut-In(2)
124	988.54	96.34	End Shut-In(2)
127	1652.60	96.60	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
30.00	SW/OM 53% m, 45% o, 2% w	0.15
0.00	GIP = 32'	0.00

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

Job Ticket: 042004

**DST#: 2**

ATTN: Richard Bell

Test Start: 2011.05.09 @ 09:36:00

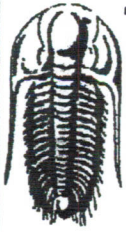
## Tool Information

Drill Pipe:	Length: 3359.00 ft	Diameter: 3.80 inches	Volume: 47.12 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3472.00 ft			Final 42000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3457.00	
Hydraulic tool	5.00			3462.00	
Packer	5.00			3467.00	20.00 Bottom Of Top Packer
Packer	5.00			3472.00	
Stubb	1.00			3473.00	
Recorder	0.00	8366	Inside	3473.00	
Recorder	0.00	8320	Outside	3473.00	
Perforations	16.00			3489.00	
Bullnose	3.00			3492.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

Job Ticket: 042004      **DST#: 2**

ATTN: Richard Bell

Test Start: 2011.05.09 @ 09:36:00

**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: bbl		
Water Loss: 6.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
30.00	SW/CM 53% <sub>m</sub> , 45% <sub>o</sub> , 2% <sub>w</sub>	0.148
0.00	GIP = 32'	0.000

Total Length: 30.00 ft      Total Volume: 0.148 bbl

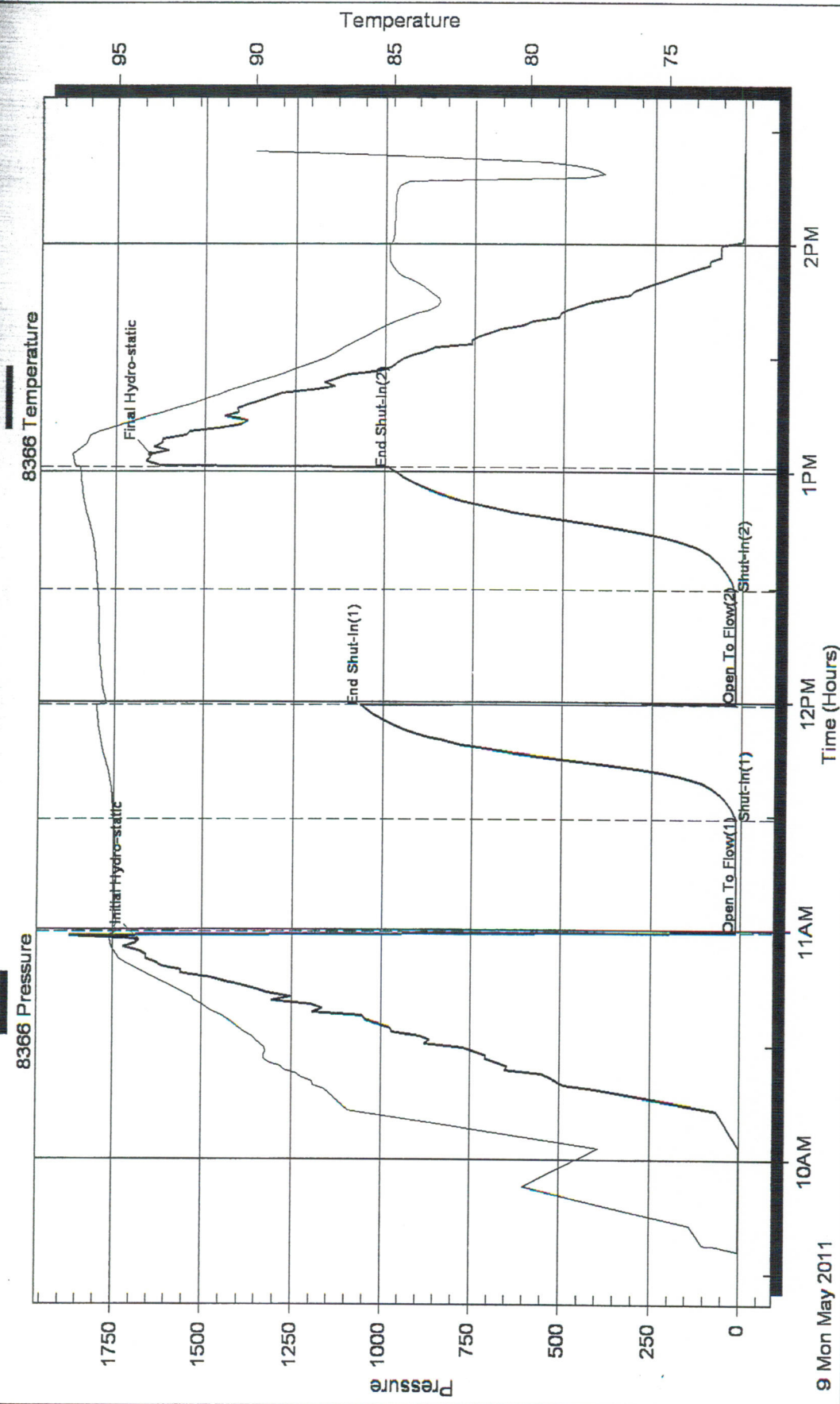
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:



# Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**3/4s/21w Norton KS**

**Sides #1-3**

Start Date: 2011.05.09 @ 23:27:00

End Date: 2011.05.10 @ 03:56:30

Job Ticket #: 042005      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company, LLC

Sides #1-3

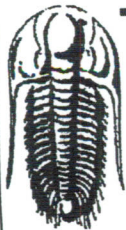
3/4s/21w Norton KS

DST # 3

LKC "E"

2011.05.09





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

Job Ticket: 042005      **DST#: 3**

ATTN: Richard Bell

Test Start: 2011.05.09 @ 23:27:00

### GENERAL INFORMATION:

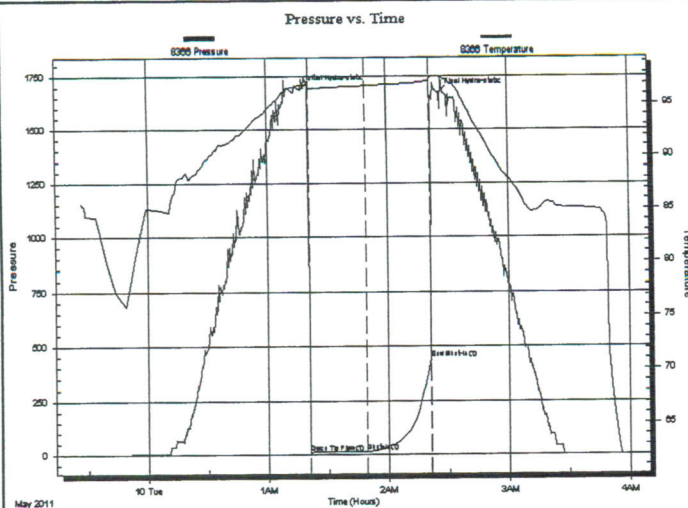
Formation: **LKC "E"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 01:20:30  
 Tester: James Winder  
 Time Test Ended: 03:56:30  
 Unit No: 46  
 Interval: **3514.00 ft (KB) To 3532.00 ft (KB) (TVD)**  
 Reference Elevations: 2218.00 ft (KB)  
 Total Depth: 3532.00 ft (KB) (TVD)  
 2213.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

### Serial #: 8366

Inside

Press@RunDepth: 16.63 psig @ 3515.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.05.09      End Date: 2011.05.10      Last Calib.: 2011.05.10  
 Start Time: 23:27:05      End Time: 03:56:29      Time On Btmr: 2011.05.10 @ 01:17:00  
 Time Off Btmr: 2011.05.10 @ 02:26:00

**TEST COMMENT:** IF: Blow built to 1/4", slowly died back to surface blow at close  
 IS: No blow back  
 Pulled tool



### PRESSURE SUMMARY

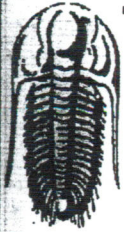
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.24	96.75	Initial Hydro-static
4	12.41	96.33	Open To Flow (1)
32	16.63	96.76	Shut-In(1)
64	443.89	97.17	End Shut-In(1)
69	1670.86	97.58	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 79% <sub>m</sub> , 21% <sub>o</sub>	0.07

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

Job Ticket: 042005

**DST#: 3**

ATTN: Richard Bell

Test Start: 2011.05.09 @ 23:27:00

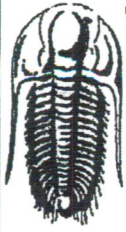
## Tool Information

Drill Pipe:	Length: 3389.00 ft	Diameter: 3.80 inches	Volume: 47.54 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 48.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3514.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			3499.00	
Hydraulic tool	5.00			3504.00	
Packer	5.00			3509.00	20.00 Bottom Of Top Packer
Packer	5.00			3514.00	
Stubb	1.00			3515.00	
Recorder	0.00	8366	Inside	3515.00	
Recorder	0.00	8320	Outside	3515.00	
Perforations	14.00			3529.00	
Bullnose	3.00			3532.00	18.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>38.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

Job Ticket: 042005

**DST#: 3**

ATTN: Richard Bell

Test Start: 2011.05.09 @ 23:27:00

**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:

bbl

Water Loss: 6.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 79% <sub>m</sub> , 21% <sub>o</sub>	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

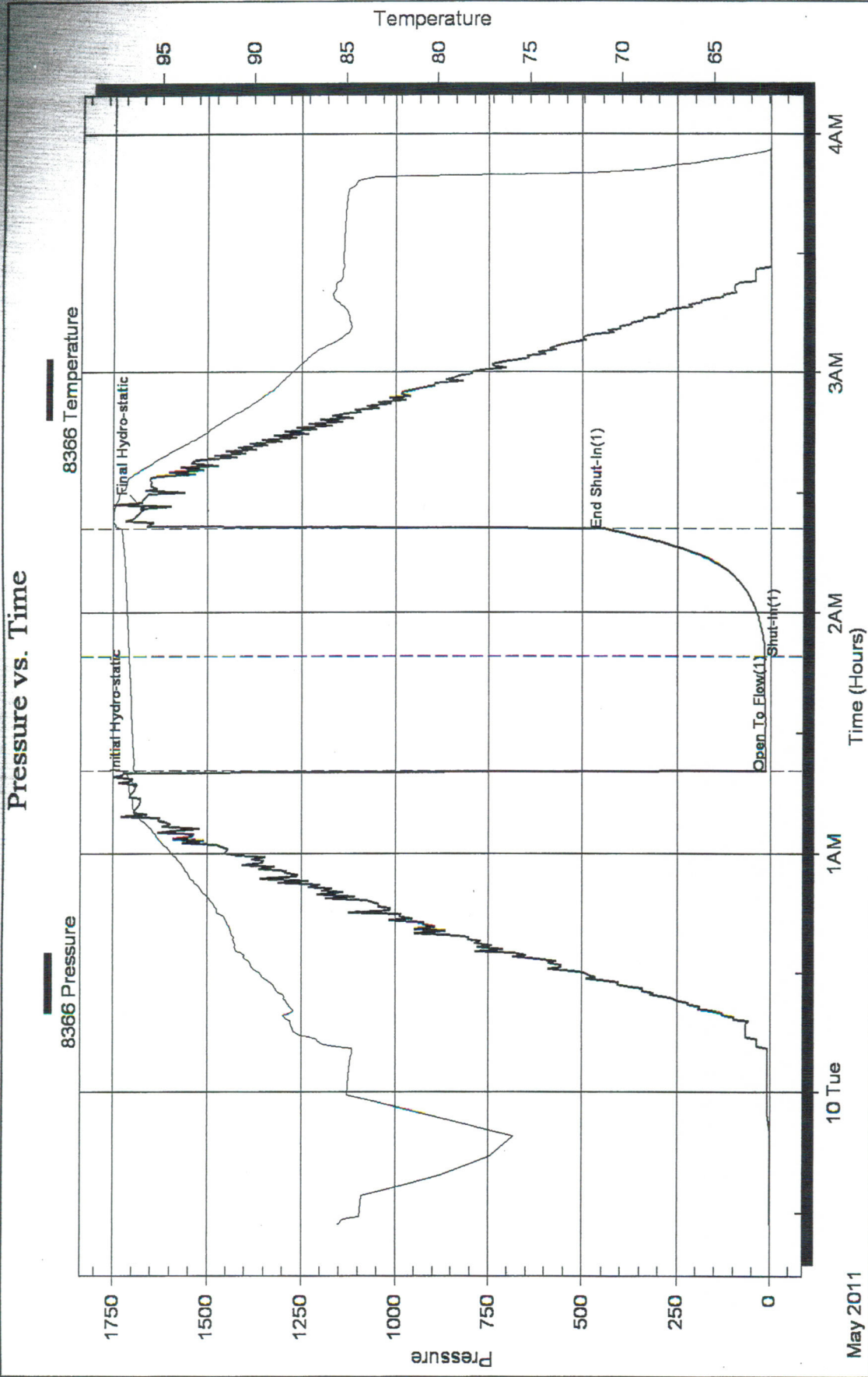
Laboratory Name:

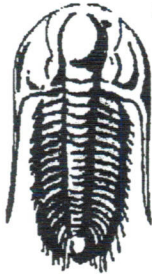
Laboratory Location:

Recovery Comments:



### Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**3/4s/21w Norton KS**

**Sides #1-3**

Start Date: 2011.05.10 @ 09:18:00

End Date: 2011.05.10 @ 14:07:00

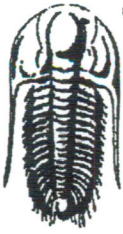
Job Ticket #: 042006      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

ATTN: Richard Bell

Job Ticket: 042006 **DST#: 4**

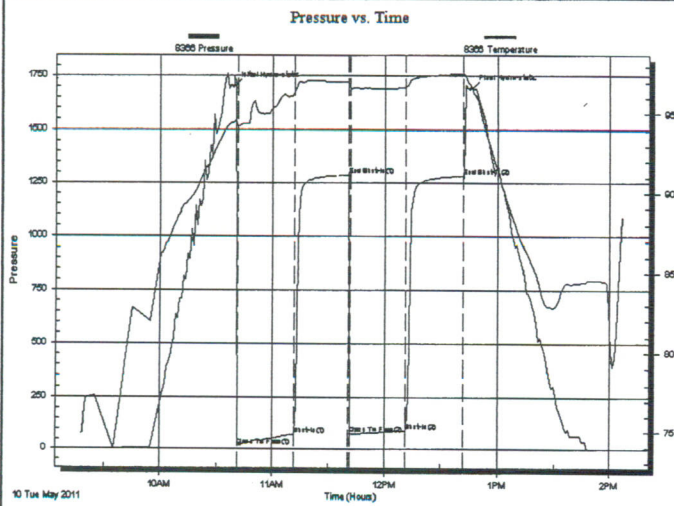
Test Start: 2011.05.10 @ 09:18:00

## GENERAL INFORMATION:

Formation: **LKC "G"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:41:00  
 Time Test Ended: 14:07:00  
 Interval: **3514.00 ft (KB) To 3540.00 ft (KB) (TVD)**  
 Total Depth: **3540.00 ft (KB) (TVD)**  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: James Winder  
 Unit No: 46  
 Reference Elevations: 2218.00 ft (KB)  
 2213.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8366** Inside  
 Press@RunDepth: 90.80 psig @ 3515.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.05.10 End Date: 2011.05.10 Last Calib.: 2011.05.10  
 Start Time: 09:18:05 End Time: 14:06:59 Time On Btrm: 2011.05.10 @ 10:39:00  
 Time Off Btrm: 2011.05.10 @ 12:46:30

**TEST COMMENT:** IF: Blow built to 5 3/4"  
 IS: No blow back  
 FF: Blow built to 4 1/4"  
 FS: Weak surface blow back, lasted 2 min., then dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.01	94.51	Initial Hydro-static
2	14.00	94.11	Open To Flow (1)
33	71.98	96.37	Shut-In(1)
62	1287.14	97.05	End Shut-In(1)
63	73.27	96.63	Open To Flow (2)
92	90.80	96.71	Shut-In(2)
123	1282.79	97.55	End Shut-In(2)
128	1693.39	96.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
123.00	MCWw /trace of oil 63%w , 37%m	0.60
40.00	WCMw /trace of oil 69%m, 31%w	0.56
5.00	OMW 40%w , 33%m, 27%o	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

Job Ticket: 042006 **DST#: 4**

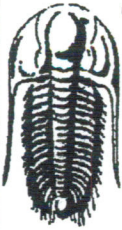
ATTN: Richard Bell

Test Start: 2011.05.10 @ 09:18:00

**Tool Information**

Drill Pipe:	Length: 3389.00 ft	Diameter: 3.80 inches	Volume: 47.54 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
		<u>Total Volume: 48.14 bbl</u>		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3514.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 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			3499.00	
Hydraulic tool	5.00			3504.00	
Packer	5.00			3509.00	20.00 Bottom Of Top Packer
Packer	5.00			3514.00	
Stubb	1.00			3515.00	
Recorder	0.00	8366	Inside	3515.00	
Recorder	0.00	8320	Outside	3515.00	
Perforations	22.00			3537.00	
Bullnose	3.00			3540.00	26.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company, LLC

**Sides #1-3**

PO Box 428  
Logan, KS 67646

**3/4s/21w Norton KS**

Job Ticket: 042006      **DST#: 4**

ATTN: Richard Bell

Test Start: 2011.05.10 @ 09:18:00

## 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:	20000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	MCW w/trace of oil 63%w, 37%m	0.605
40.00	WCM w/trace of oil 69%m, 31%w	0.561
5.00	OMW 40%w, 33%m, 27%o	0.070

Total Length: 168.00 ft      Total Volume: 1.236 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW = .240 ohms @ 97.8 deg F Chlorides = 20,000



Serial #: 8366

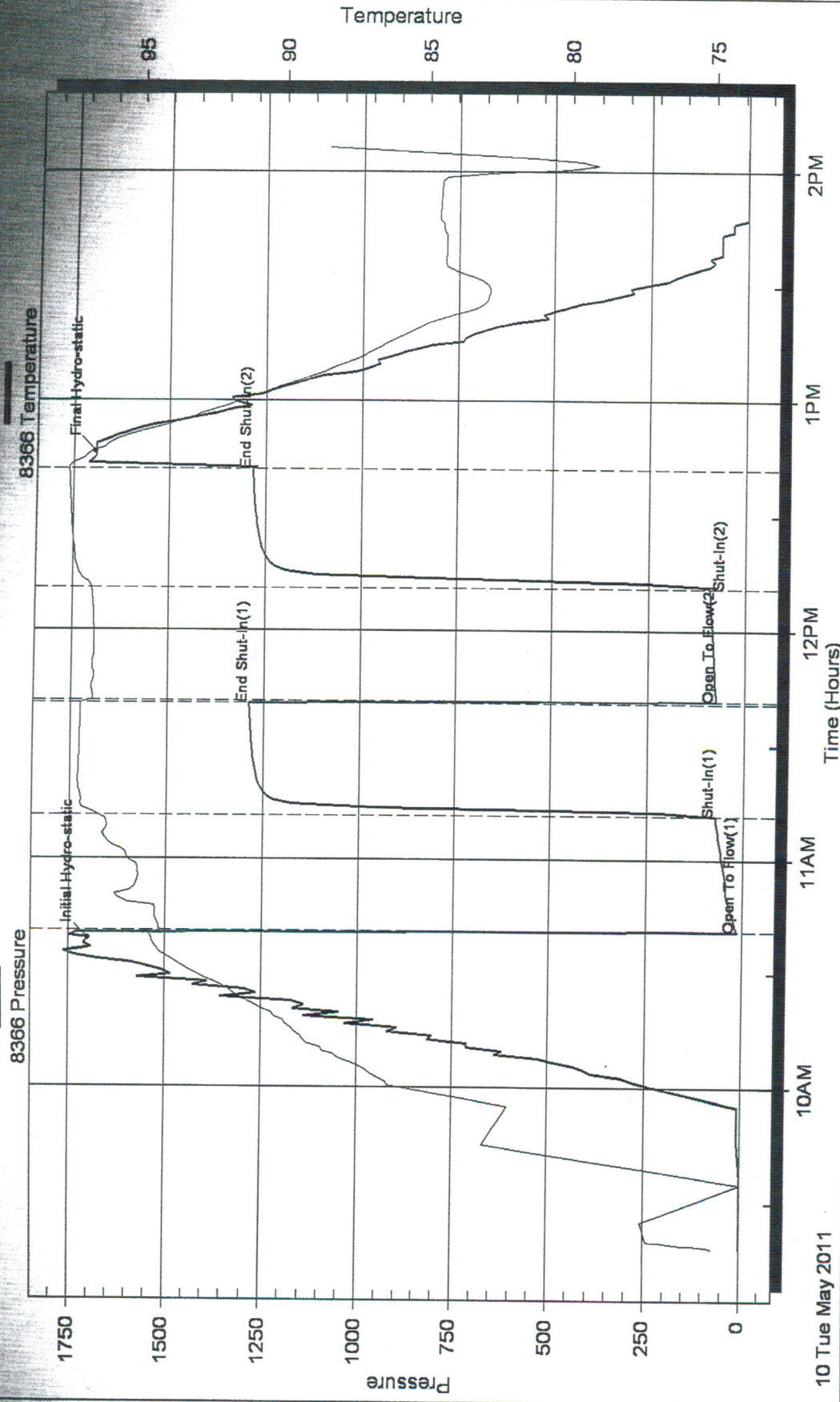
Inside

Beard Oil Company, LLC

3/4s/21w Norton KS

DST Test Number: 4

# Pressure vs. Time



API # 15-137-20559-00-00

**GEOLOGICAL REPORT**  
DRILLING TIME AND SAMPLE LOG

COMPANY <u>Baird Oil Company, LLC.</u>	ELEVATION
LEASE <u>Sides # 1-3</u>	KB <u>2218'</u>
FIELD <u>Wildcat</u>	DF <u>2216'</u>
LOCATION <u>2105'FNL + 2540'FWL</u>	GL <u>2213'</u>
SEC <u>3</u> TWSP <u>4S</u> RGE <u>21W</u>	Depths Measured From
COUNTY <u>Norton</u> STATE <u>Kansas</u>	Log <u>KB</u> Drilling <u>KB</u>
CONTRACTOR <u>WW Drilling Rig #8</u>	CASING
SPUD <u>5-5-11</u> COMP <u>5-11-11</u>	Surface <u>8 5/8" @ 220'</u>
SAMPLES SAVED FROM <u>3150'</u> TO <u>R.T.D.</u>	Production <u>5 1/2" @ 3751'</u>
	ELECTRIC LOGS
	<u>Superior Well Services</u>

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
				●			
Anhydrite	1875	1877 +	341	+ 349	+ 363		
Base Anhydrite	1903	1905 +	313	+ 322	+ 336		
Topeka	3215	3219 -	1001	- 992	- 993		
Heebner	3414	3419 -	1201	- 1193	- 1196		
Toronto	3441	3445 -	1227	- 1218	- 1221		
Lansing	3458	3461 -	1243	- 1233	- 1239		
Base Kansas City	3643	3647 -	1429	- 1422	- 1425		
Marmaton	3677	3682 -	1464	- 1458	- 1462		
Arbuckle	3702	3707 -	1489				
Precambrian	3735	3740 -	1522	- 1493	- 1512		
Total Depth	3750	3753 -	1535	- 1506	- 1534		

REFERENCE WELLS

A	<u>Baird O. Co., Sides/Anna Unit #1-3, 2585'FNL + 1450'FWL Sec. 3-4S-21W</u>
B	<u>Baird O. Co., Anna #1-3, 1655'FNL + 740'FWL Sec. 3-4S-21W</u>
C	
D	<u>Port Collar @ 1875'</u>



REMARKS

This well ran 4 to 10 feet lower on the Lansing top than the reference wells.  
 Results of drill stem test #1 warranted the cementing of production casing to further  
 test the well. The zones from 3493'-3495' and 3462'-3465' should be tested.

Richard B. Bell  
 5-12-11

7502

LEGEND

- 

Anhydrite
- 

Salt
- 

Sandstone
- 

Shale
- 

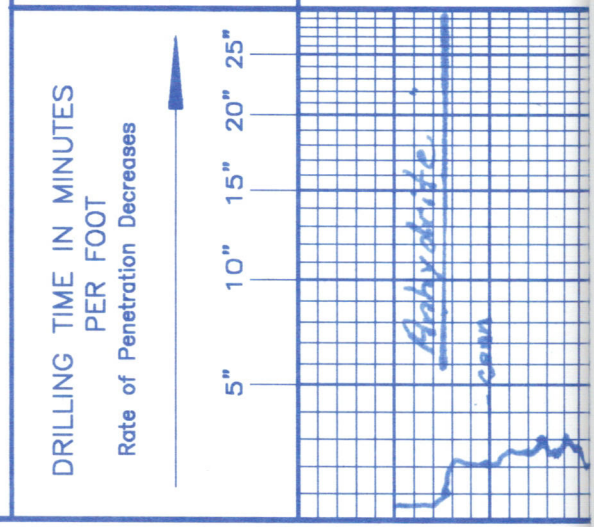

Carb sh
- 

Limestone
- 

Ool. Lime
- 

Chert
- 

Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
	1870		OIL SHOWS	

LOG 7710

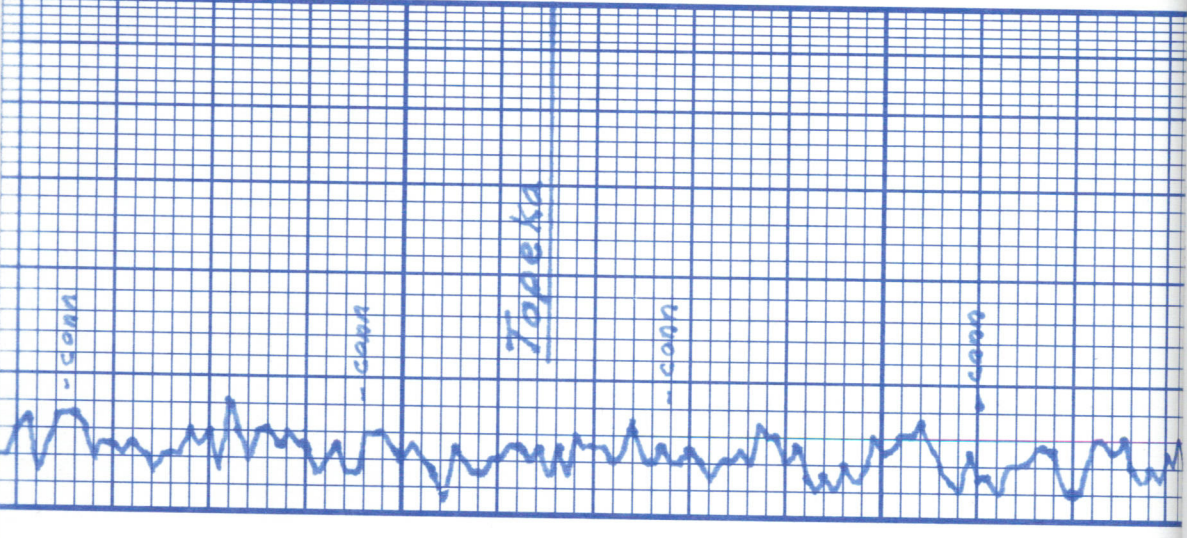






60	LS: wh. tp. 47 TAN-TSH Pr. PPΦ N.S.O LS: tn. fcln dms sh: bsn sffstone: brn
80	LS: wh. tn. fcln. Tr. sl: t51f Tr. PPΦ N.S.O
3200	LS: gry f51f dms Sh: brn, gry, Tr. blk Carb
20	LS: wh. tn. yel. cky fcln -sli. B1f N. Viso N.S.O.
40	LS: wh. tn. cky fcln pr PPΦ N.S.O Tr. A. Th LS: wh. tn. cky fcln pr PPΦ N.S.O Tr. A. Th LS: tn. fcln. 00/gd PPΦ N.S.O N.S.O
60	LS: gry fcln dms sffstone: gry sh: brn
80	LS: wh. tn. fcln. sl: 00/1 PPΦ N.S.O Tr. A. Th LS: wh. tn. cky fcln dms N.S.O Tr. A. Th

60 80 3200 20 40 60 80

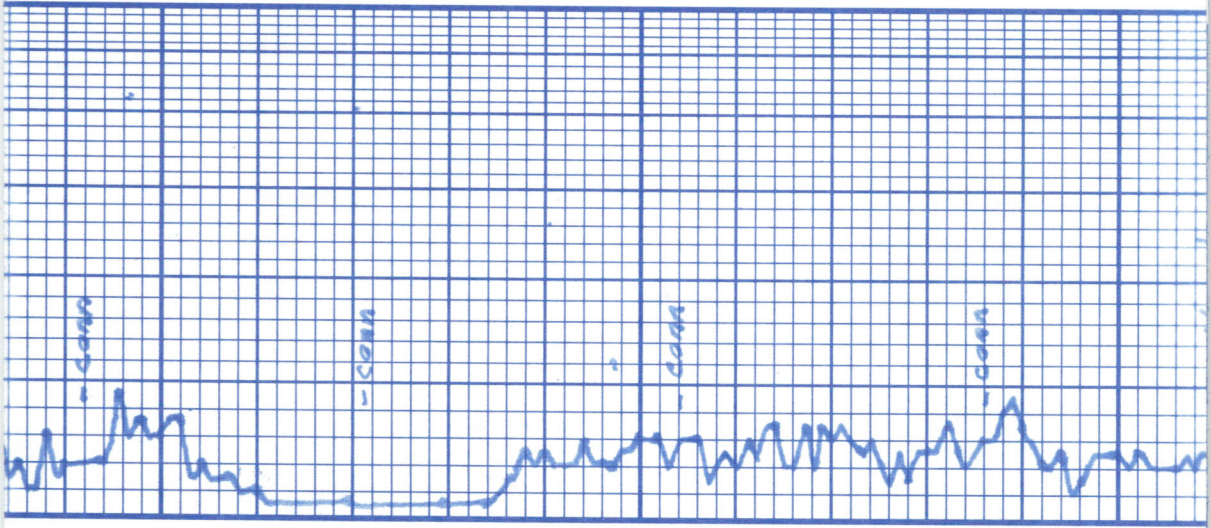


Topoka

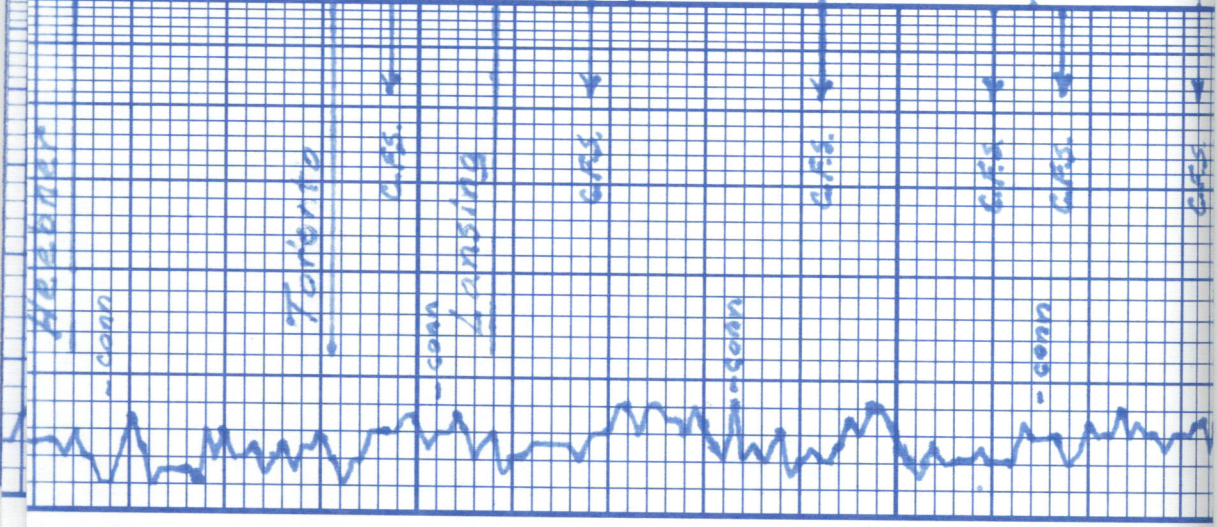


LS: wh-tn fsln tr ööl PPP N.S.O. 2 pl. to	LS: wh-tn cky-fsln dms	LS: aa 77 sh: dry	sh: brn st: stone: brn	sh: brn st: stone: brn	LS: tn fsln ööl pr. PPP N.S.O.	sh: brn st: ty	LS: tn fsln sl: ööl dms N.S.O. Traca blk Camb sh: LS: tn fsln dms N.S.O.	LS: wh-tn cky-fsln tr sl: ööl pr. PPP N.S.O. mostly dms	LS: wh-tn fsln sl: ööl pr. PPP N.S.O.	LS: wh-tn cky-fsln dms
--	------------------------	----------------------	---------------------------	---------------------------	-----------------------------------	-------------------	---	---	--	------------------------

3300  
20  
40  
60  
80  
3400







Sh: Blk Carb.

LS: th-gry fkn-sh. f. f. d. n. s.

inter. sh. gry brn  
5 ft stone: brn

LS: wh-th slicky-f. sh. suc.  
fkn sh. pyritic pp. N50  
ATY 70-90

sh: brn sHy

LS: wh-th fkn oil pp  
Lt. O. sat. Lt. sptd O sh. pp f. O  
on crushing fr odor

LS: wh-th-bt. gry slicky-fkn  
d. n. s.

LS: wh. fkn d. n. s.

Sh: brn, gry

LS: wh-th fkn tr. oil-suc. fkn  
Lt. f. O. sat. Lt. sptd O sh  
pp f. O. fr. odor ATY 70-90

Sh: gry, brn v. soft

LS: wh-th slicky-fkn d. n. s.  
N. 5. a. T. A. wh. th

LS: wh-th fkn tr. slicky  
suc. fr. d. k. O. sat. pp  
Strong odor A. W. L.

Strap 3483.70  
Board 3483.20  
Diff. .50

Trilobite Testing

DST #1 3446'-3468'  
30-45-30-45  
IF: B.O.B. in 9 3/4 min.  
ISI: 2 1/4" blowback  
FF: B.O.B. in 12 min  
FSI: 6" blowback

Recovery: 455' G.I.P.  
230' Total fluid  
190' G.O. 2126.76% O  
32% M  
40' G.O.C.M. 147% G  
3120, 557M

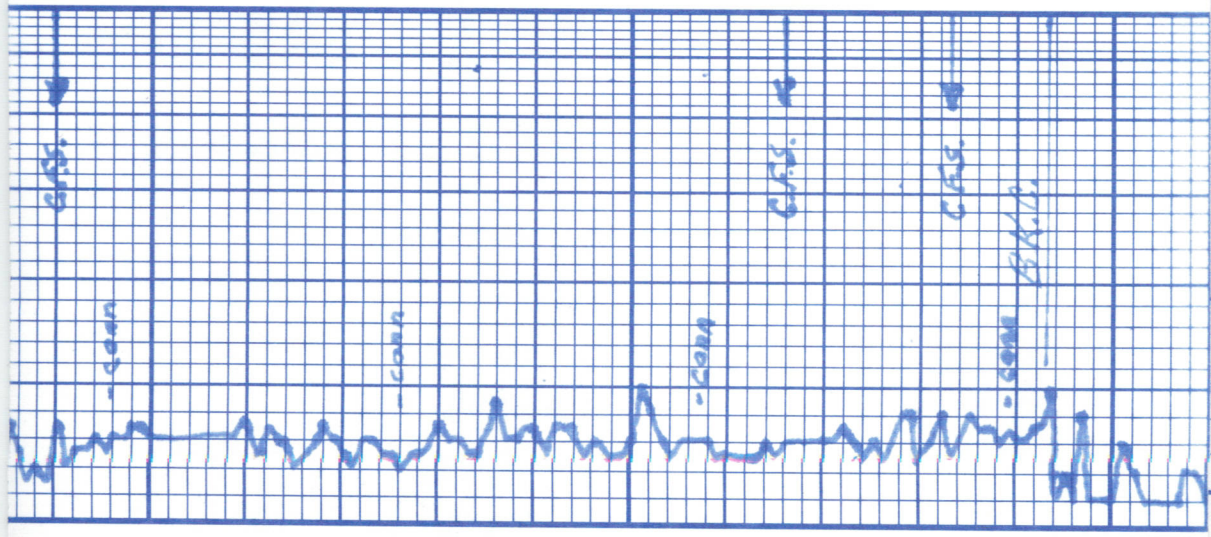
MYD: 1656-1640#  
FP: 26-66/73-92#  
BNP: 1232-1201#  
BNTemp: 100°F  
gravity: 36.4° A.P.I.

DST #2 3472'-3492'  
30-30-30-30  
IF: 1" blow  
FF: 1" blow

Recovery: 32' G.I.P.  
30' SWOCM 457% O,  
37% W, 52% M  
MYD 1682-1663#

FP: 12-15/15-20#  
BNP: 1064-989#  
BNTemp: 96°F



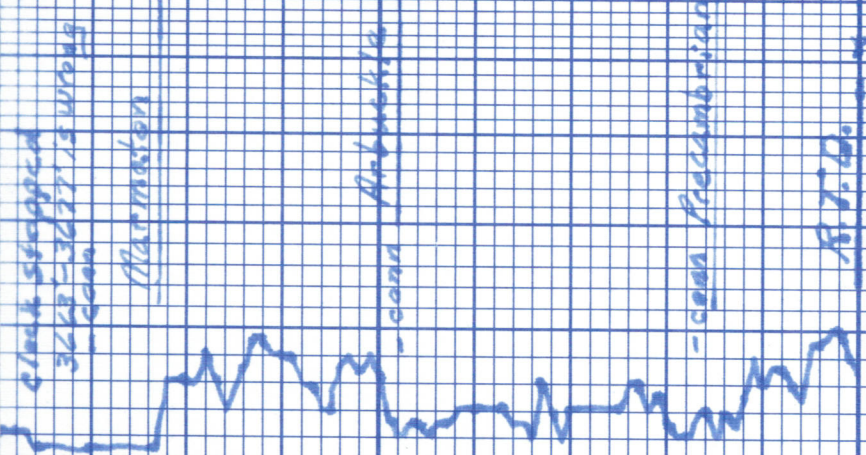


40	'G'	LS: wh. tn. ch. - in oil. ppd sp. sta. ppd. EQ. In. tary spks strong odor
60		LS: white. fcln. dns. N.S.O. T.A. tn. gry
80	'H'	sh. blk carb LS: gry. fcln. dns sh. gry. brn
3600	'I'	LS: wh. tn. gry. ch. fcln. sl. fcln. tr. ppd. friable N.S.O. LS: tn. gry. fcln. dns Sh. brn. slty
20	'J'	Sh. brn. gry LS: wh. tn. fcln. oil. / fass. includ. pp. ppd. drk. sp. sta. dns pp. drk. brn. fo. Sh. brn. gry Siltstone: brn
40	'K'	LS: wh. sl. ch. fcln. sl. oil. ppd. blk. tary. - asph spks Sh. brn
60	'L'	LS: tn. - ye. l. fcln. sub. oil dns. N.S.O. sh. brn. slty, gry. slty
60		sh. brn. slty

DST# 3 3514'-3532'  
 30-30-0-0  
 IF: WK blow  
 ISI: No blow back  
 Recovery: 15' OCM  
 21% O, 79% M  
 Hyd: 1689-1671#  
 FP: 12-17#  
 BHP: 444#  
 BHTemp: 97°F.

DST# 4 3514'-3540'  
 30-30-30-30  
 IF: 5 3/4" blow  
 ISI: No blow  
 FF: 4 1/4" blow  
 FSI: wk surface, blow  
 Recovery: 168' Total  
 5' OCM W 27% O,  
 40' W M 40% W, 33% M  
 123' M W 63% W, 37% M  
 Oil Trace  
 Hyd: 1700-1693#  
 FP: 14-72/73-91#  
 BHP: 1287-1283#  
 BHTemp: 98°F.  
 Chlorides: 20,000 ppm





80	Sh: stn. brn sli. shly. fch Sh: cor dms N.S.O. Sh: brn
3700	LS: wh. cky. fch dms Dol: wh fch - mxh VX $\Phi$ N.S.O
20	Dol: frs, yel, brn fch - coars VX $\Phi$ N.S.O Fe glauc. spks
40	Dol: a incr. brn shly Quartz, biotite, Tr. feldspar incr Quartz, biotite, feldspar

Incline @ 3753'  $1\frac{1}{4}^{\circ}$

