



**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      Date Reached TD      Completion Date or  
Recompletion Date           Recompletion Date

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: \_\_\_\_\_



1058190

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	Nuttycomb-Adee Unit 1-2
Doc ID	1058190

Tops

Name	Top	Datum
Anhydrite	1782	+348
Base Anhydrite	1808	+322
Topeka	3124	-994
Heebner	3325	-1195
Toronto	3351	-1221
Lansing	3368	-1238
Base Kansas City	3556	-1426
Marmaton	3594	-1464
Arbuckle	3633	-1503
Granite	3678	-1548
Total Depth	3690	-1560

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 22, 2011

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

Re: ACO1  
API 15-137-20567-00-00  
Nuttyscomb-Adee Unit 1-2  
SW/4 Sec.02-04S-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



A.P.I. # 15-137-20567-00-00

**GEOLOGICAL REPORT**  
 DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.  
 LEASE Nuttyscomb-Adco Unit #1-2  
 FIELD Wildcat  
 LOCATION 190'ESL+1840'FWL  
 SEC 2 TWSP 4S RGE 21W  
 COUNTY Norton STATE Kansas

ELEVATION  
 KB 2130'  
 DF 2128'  
 GL 2125'  
 Depths Measured From  
 Log NB Drilling KB

CONTRACTOR U/W Drilling Rig #8  
 SPUD 6-7-11 COMP 6-13-11  
 SAMPLES SAVED FROM 3100' TO R.T.D.

CASING  
 Surface 8 5/8" @ 218'  
 Production 5 1/2" @ 3686'  
 ELECTRIC LOGS  
 Superior Well Services

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
				•	•		
Anhydrite	1782	1782 +	348	+ 363	+ 347		
Base Anhydrite	1808	1808 +	322	+ 336	+ 319		
Topeka	3124	3124 -	994	. 993			
Meebner	3325	3325 -	1195	-1196	-1201		
Toronto	3351	3351 -	1221	-1221	-1227		
Lansing	3368	3368 -	1238	-1239	-1244		
Base Kansas City	3556	3556 -	1426	-1425	-1437		
Marmaton	3594	3594 -	1464	-1462			
Arbuckle	3633	3633 -	1503				
Granite	3678	3678 -	1548				
Total Depth	3689	3690 -	1560	-1534	-1446		

REFERENCE WELLS

- A Baird Oil Co.; Anna #1-3, 1655'ESL+740'FEI Sec. 3-4S-21W
- B Baird Oil Co.; Nuttyscomb #4, N/2-N/2-NE Sec 11-4S-21W
- C
- D Part collar @ 1811'



REMARKS

This well ran 1 foot to 6 feet higher on the Lansing top than the reference wells. Production casing was cemented to further test the well. The following zones should be tested; 3538-3541, 3519-3522, 3453, 3440-3442, 3419, 3370-3371.

7502

Richard B. Bell  
6-14-11

LEGEND

- Anhydrite  

- Salt  

- Sandstone  

- Shale  

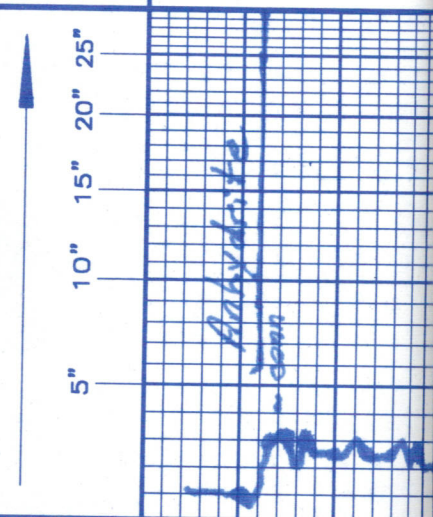

- Carb sh  

- Limestone  

- Ool.Lime  

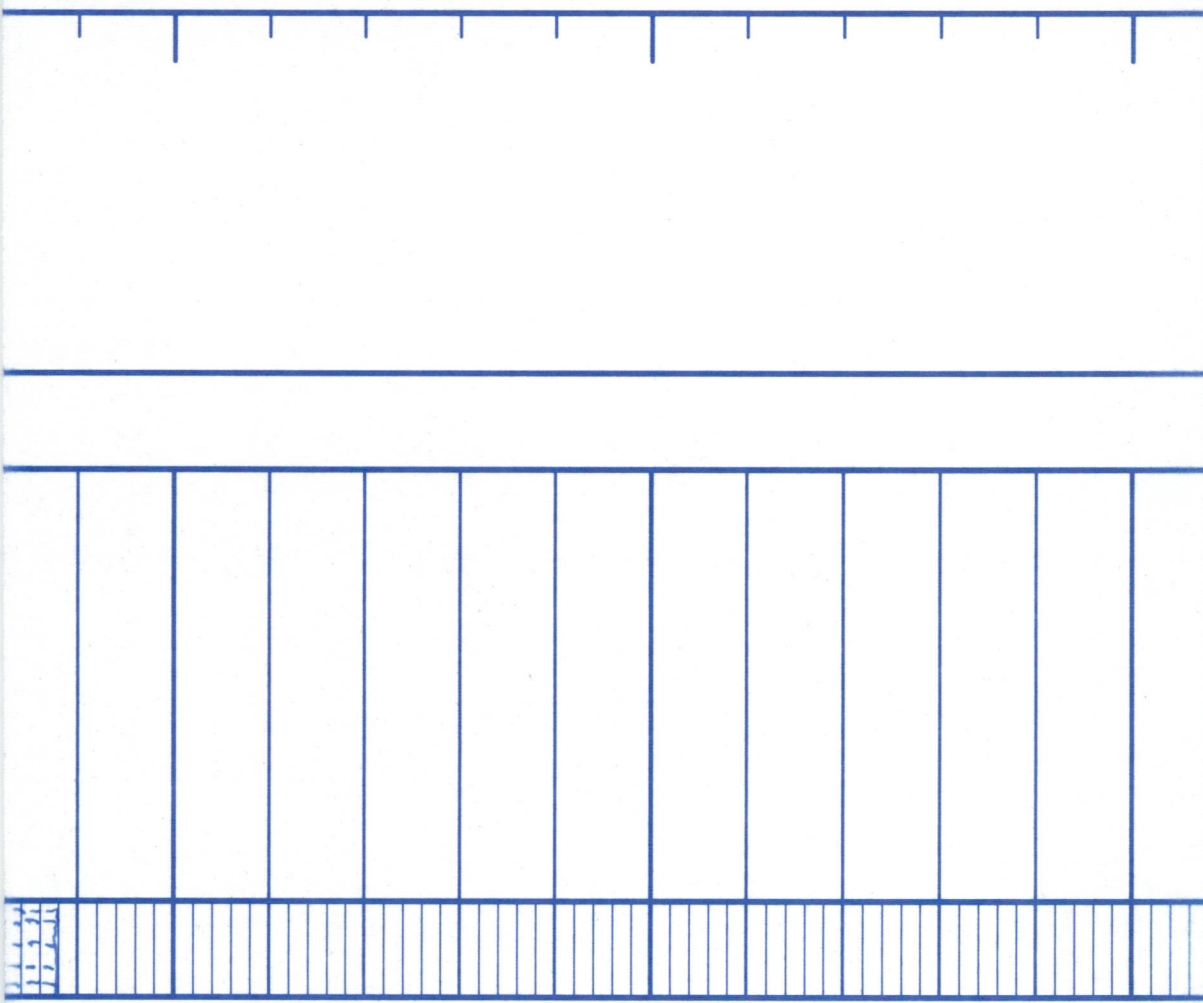
- Chert  

- Dolomite  


DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	1770				
	1800				

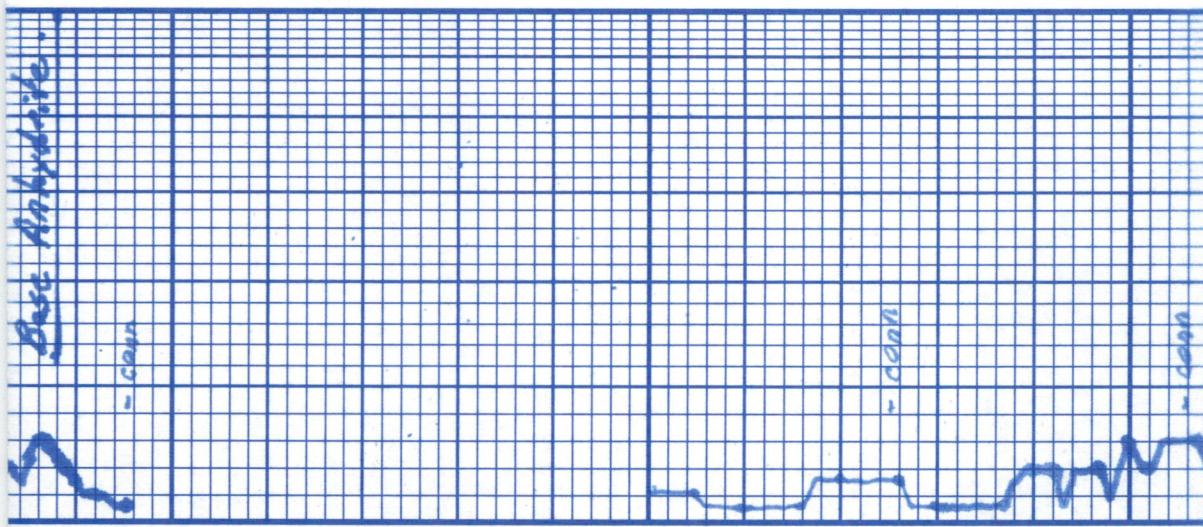
LOG 7710





2950

3000



Base Anhydride

1000

1000

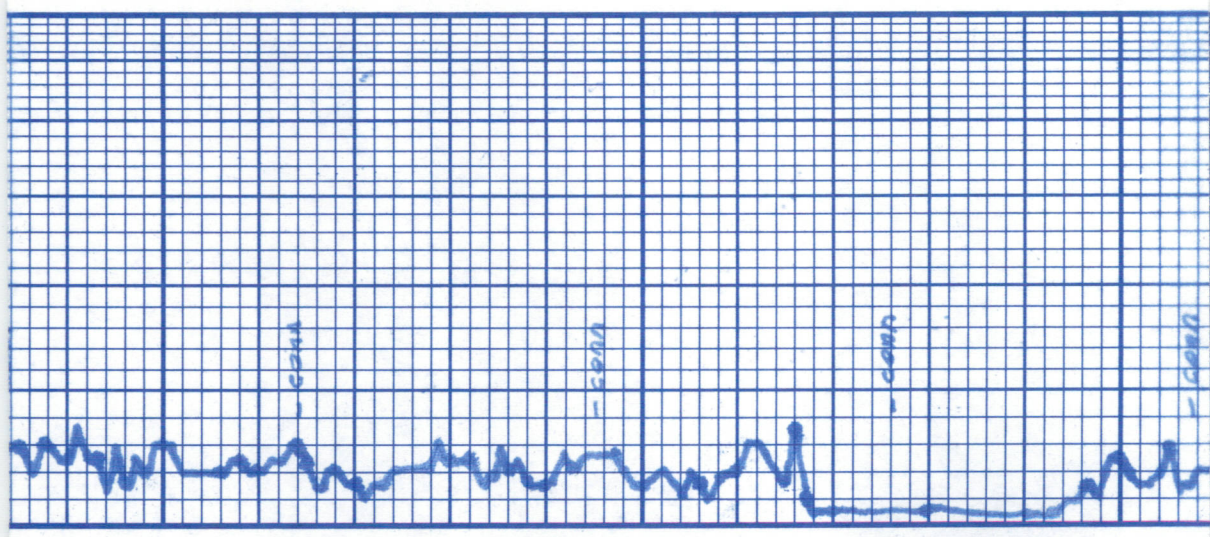
1000



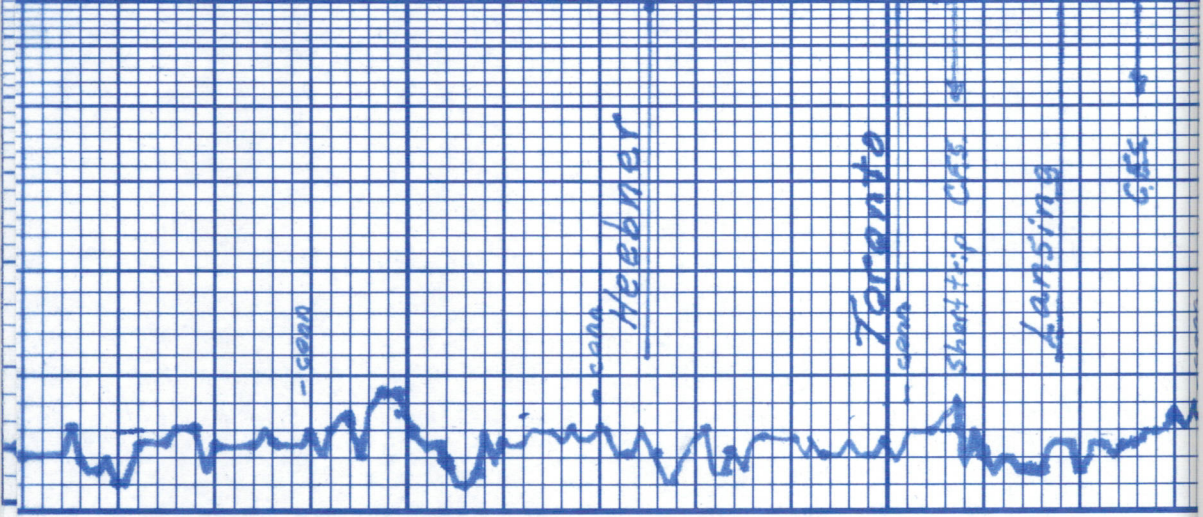




40	LS: wh - th cky - fxln - sli: fs/f Pr. pp φ N.S.O.
60	LS: gry, yel mtld fs/f dms Sh: brn; gry
80	LS: wh - th cky - fxln pr. pp φ N.S.O. Δ brn mtld fs/f
3200	Ststone: wh - gry Sh: brn sly
20	LS: gry mtld fs/f dms
40	LS: wh - th sli: cky - fxln sli: pp φ N.S.O. dry wh - th
	LS: wh - th sli: suc - fxln friable Th: 001 pp φ N.S.O. Sh: brn, gry Tr b/k Carb - sh.
	Ststone: gry Sh: brn
	Sh: brn Ststone: brn
	a.a.
	LS: th - gry fxln dms Tr pr. pp φ N.S.O.







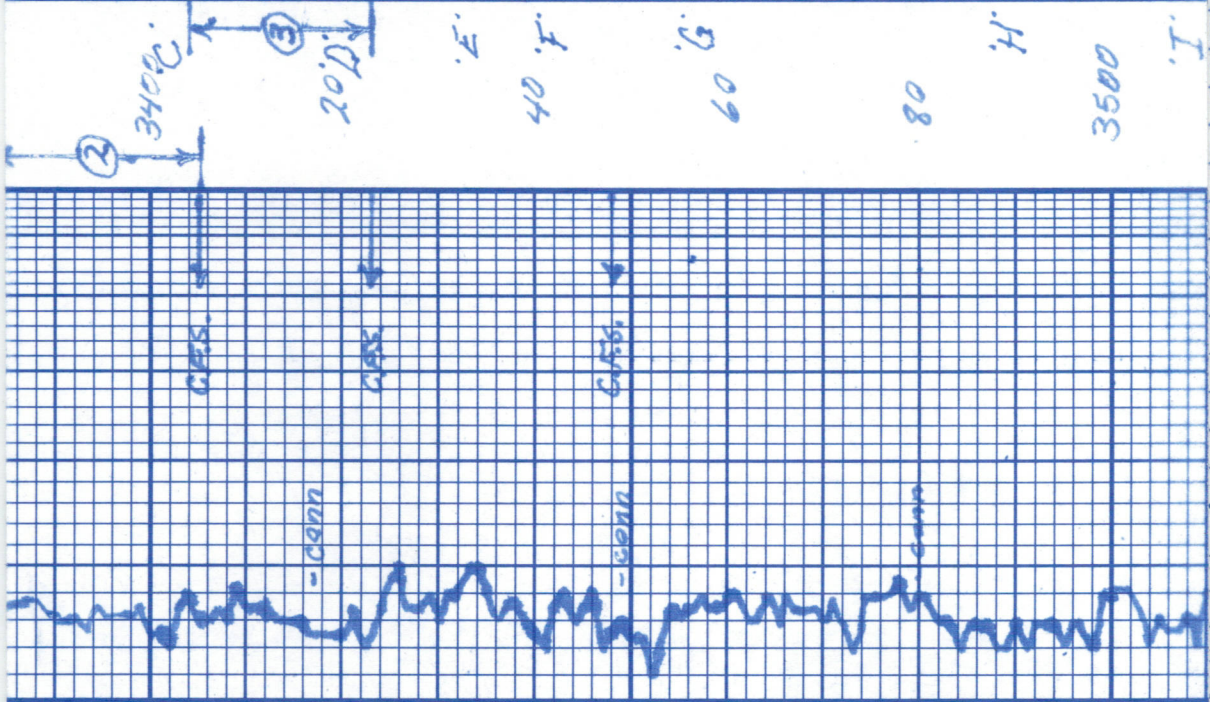
60	sh: brn, gry	LS: wh-tn cky-feln faly oöl PPØ NSQ sh: blk Carb.
80	sh: brn, gry	LS: wh-tn sli-cky-feln das TP Δ wh
3300	sh: brn, gry	LS: wh-tn-lt. brn feln das
20	sh: blk Carb. LS: tn fll das.	LS: wh-tk cky-feln oöl PPØ NSQ
40	shly: brn, gry	LS: tn-gry fely-sli-fs/f sli-ppis das NSQ
60	sh: brn, gry	LS: wh-tn sli-cky-feln TP Sli. oöl TP. pr. PPØ NSQ. Δ wh-tk
80	sh: brn, gry	LS: wh-tn feln oöl PPØ K.O. stn fely diss Dillon Crushing ft.-ft odor LS: wh-tn feln das

Strap 3385.94  
 Board 3384.51  
 Diff 1.43  
 Incline @ 9357' 3/4

Trilobite Testing

DST #/ 3355-3376  
 45-45-45-45  
 IF: wk blow incr. to 6"  
 FF: wk blow incr. to 2"  
 Recovery: 150' Total  
 20' G.O. 10% G. 90% O  
 70' GCMW 10% O,  
 60% W, 30% M  
 55' Ocmw 5% O  
 70% W, 25% M  
 5' Mud  
 1637#





LS: wh-tn fsh dms Sh: brn, gry	LS: wh-tn fsh oil-saly oil ppd 14-tr. fr. 0.5at. ppfr. fr odor & th	sh: brn, gry	LS: wh-tn fsh oil ppd fr. 0.5at. ppfr. ppfr. 0.5at. ppfr. sh: brn, gry	LS: a.a.	LS: wh-tn fsh oil w/ fss. includ. pr. ppd seat blk thick 0.5m pp blk thick. fr. fr odor & wh	LS: wh-tn fsh oil ppd fr. 0.5at. ppfr. ppfr. 0.5at. ppfr. sh: brn, gry	sh: blk, c. ash LS: th. gry mtd fsh dms	sh: gry, brn	LS: wh-tcky-fsh dms also sh: th. brn	sh: gry, brn	LS: wh-tcky-fsh dms fr. 0.5at. ppfr. ppfr. 0.5at. ppfr.
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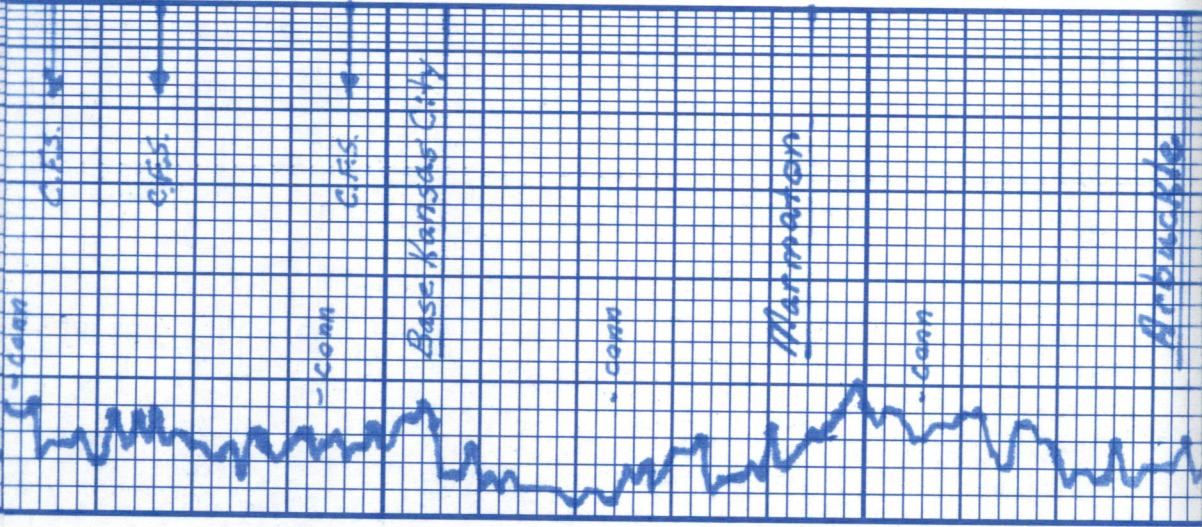
FP: 12-62/66-77#  
 BHP: 1062-1037#  
 BH Temp: 97°F  
 Chlorides: 65,000 ppm  
 Gravity: 38° A.P.F.

DST #2 3383'-3405'  
 30-30-30-30  
 IF: 44" blow  
 FF: 20 min. surface blow  
 Recovery: 10' OCM  
 27.0, 98.9%  
 MYD: 1659-1640#  
 FP: 13-15/16-20#  
 BHP: 553-90#  
 BH Temp: 94°F

DST #3 3404'-3423'  
 30-30-0-0  
 IF: wt blow mtr. to 44"  
 Recovery: 10' OCM  
 20.0, 80.7%  
 MYD: 1663-1722#  
 FP: 12-15#  
 BHP: 982#  
 BH Temp: 94°F

DST #4 3511'-3526'  
 45-45-45-45





20'	Sh: brn sly LS: wh-tkcky-faln to oil incl. pp & dk Q Sat seat pp for gd odor
40'	Sh: gry, brn LS: wh-tkcky-faln to oil w/blk tan speks RT p p f q encrushing no odor Sh: brn, gry
60'	LS: wh-tk-yel-faln dns
80'	Sh: brn, gry Sltstone: brn
3600'	LS: wh-tkcky-faln dns N.S.O. Sh: brn Sltstone: brn-tk LS: wh-tkcky-faln to oil Pr. pp & R.S.O.
20'	Tr. Dol: tk mxdn dns N.S.O. A to yel Sh: brn sly V. dty Tr. yel, ori Tr. calc A

H.P. D.V. 5. in 7 min  
 TSI: No blow back  
 FF: wk blow incr. to 8"  
 FSG: 25 min. wk blow  
 Recovery: 275' Total  
 215' G.O. 25% G, 75% O  
 60' OCM 20% O, 80% M  
 NYd: 1726-1720#  
 FP: 15-63/71-91#  
 BHP: 1124-1082#  
 8N Temp: 99°F  
 Gravity: 25" R.P.I.







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



# Invoice

DATE	INVOICE #
6/7/2011	19722

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	#2-3	Nattycomb-A...	Norton	WW Drilling #8	Oil	Development	Surface Pipe	Nick
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.) - 218 Feet				1	Job	750.00	750.00
290	D-Air				2	Gallon(s)	35.00	70.00T
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				589	Ton Miles	1.00	589.00
	Subtotal							4,049.00
	Sales Tax Norton County						7.05%	146.99
	<p style="text-align: center;">R6/13/2011            P6/13/2011            NuttyAde 190402 4195.99            Nuttycomb/Adee unit 1 - 2 - Pump            charge, cement &amp; other misc used            to cement surface casing</p>							

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$4,195.99
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Services, Inc.

TICKET 19722

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

DATE: 6-7-11 OWNER: Sam  
 ORDER NO.:  
 WELL LOCATION:  
 PAGE 1 OF 1

SERVICE LOCATIONS:  
 1. Hays, KS  
 2. Ness City, KS  
 3.  
 4.

WELL/PROJECT NO: #2-3 LEASE: Nathcomb-Adee COUNTY/PARISH: Norton STATE: Ks CITY:  
 TICKET TYPE:  SERVICE CONTRACTOR: Wark #8 RIG NAME/NO.:  
 SALES WELL TYPE: oil WELL CATEGORY: Development JOB PURPOSE: Surface Pipe SHIPPED VIA: CH DELIVERED TO: Location WELL PERMIT NO.:  
 REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575		1			MILEAGE #111	80	mi				5.00	400.00
576S		1			Pump Charge (surface pipe)	1	sq	218	'		250.00	250.00
290		1			D-Air	2	gal				35.00	70.00
325		2			Standard	150	shk				12.00	1800.00
278		2			Calcium Chloride	4	shk				35.00	140.00
279		2			Bentonite Gel	3	shk				25.00	75.00
581		2			Concrete Service Charge	150	shk				1.50	225.00
583		2			Drayage	589	TM				1.00	589.00

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: 6-7-11 TIME SIGNED: 1700  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: 4049.00

TOTAL: 4195.99

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

SWIFT OPERATOR: Mike Blake APPROVAL:

Thank You!





# SWIFT



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



## Invoice

DATE	INVOICE #
6/13/2011	19697

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	#1-2	Nuttycomb-A...	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
	<p style="text-align: center;">26/15/2011 9/6/15/2011 NuttyAde 190402 13906.00 Nuttycomb/Adee Unit 1-2 - Pump Charge, cement &amp; other misc expenses used to cement production casing</p>				

**We Appreciate Your Business!**

**Total**

\$13,906.00





CHARGE TO: Barnd Dr  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET  
 19697

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>HKS</u>	WELL/PROJECT NO. <u>1-2</u>	LEASE <u>NUTTYCOMB-UNIT</u>	COUNTY/PARISH <u>NOCTON</u>	STATE <u>LA</u>	CITY	DATE <u>06-13-11</u>	OWNER
2. <u>NESS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>WALDEG #8</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>DE Deansmore</u>	ORDER NO.	
3.	WELL TYPE <u>OIL</u>	WELL CATEGORY <u>Develop</u>	JOB PURPOSE <u>LOKSMAN</u>	WELL PERMIT NO. <u>K5-137-20567</u>	WELL LOCATION <u>SD-7-4121</u>		
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					MILEAGE #112	80	M			5.00	400.00
578					Pump Service	1	EA			1400.00	1400.00
281					LABOR	2	HR			25.00	50.00
280					FDCHECKED	500	DLR			2.50	1250.00
290					D-411	2	DLR			35.00	70.00
404					C-711111	11	EA			65.00	715.00
403					BANDST	1	EA			230.00	230.00
404					Particular	1	EA			2100.00	2100.00
406					Larchdown Plus Batter	1	EA			225.00	225.00
407					ESSERFDWARDS 4hrs Full	1	EA			300.00	300.00
411					Recipos SEARCHER	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 Hill DATE SIGNED 06-13-11 TIME SIGNED 1400

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

UN-DECIDED	DIS-AGREE	PAGE TOTAL	709
		7.05%	68
		TOTAL	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 Daveby APPROVAL

Thank You!





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

TICKET CONTINUATION

TICKET No. 19697

CUSTOMER *Barrow*

WELL *1-2, Buttycomb-Adder*

UNIT *cut* DATE *06-13-11*

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M	
325		2					200	SY	12.00		2400.00
326		2				<i>AD-400z 2/85z</i>	40	SY	9.50		380.00
276		2				<i>FLOCEL</i>	50	LB	1.50		75.00
277		2				<i>CRUSOLITE</i>	480	LB	.60		288.00
283		2				<i>SALT</i>	1550	LB	.15		232.50
285		2				<i>CR-1</i>	100	LB	4.00		400.00
581		2				<i>SERVICE CHG CUT</i>	240	SY	1.50		360.00
583		2				<i>DAMAGE</i>	970.88	TN	1.00		970.88
						SERVICE CHARGE					
						MILEAGE CHARGE					
						TOTAL WEIGHT					
						LOADED MILES					
						CUBIC FEET					
						TON MILES					

CONTINUATION TOTAL *5106.38*

**JOB LOG**

**SWIFT Services, Inc.**

DATE 06-13-11 PAGE NO. 1

CUSTOMER BANDOL WELL NO. 1-2 LEASE MUTTYCOMB - ADEEHUNT JOB TYPE LONGSTRING TICKET NO. 1987

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							ON LOCATION CMT 6 LENS 40 DISK 60-40 PIZ TAIL JOCKS STD RID 3690, SET PIPE 3690, SJ 45.19, TAIL CUT 3644 5 1/2 IN PER FOOT COLUMN ON TOP * 42, 180 FT CENT 1 THRU 10, 41 BASKET 42, RECIPROATE SCOURERS 3EA 1 THRU 10
	1600							START CASE DFE TAG BOTTOM - DROP 3RL
	1730							BREAK CIRC, RECIPROATE PIPE 20 FT
	1845		7					PLUG RH 30 DISK 1/2 60-40 PIZ
	1850	4.5	15		-		300	HCL FLUSH
			12		-			FLO CHECK 21 500 GAL
			5		-			HCL FLUSH
			4.5		-			60-40 PIZ
	1910		43.5		-			STD DROP PLUG, WASH OUT PL
	1915	6.0	0		-		300	START DISP
			42		-		450	CMT ON BOTTOM
			75		-		800	
			80		-		850	
			85		-		1000	
	1930	4.7	89		-		1400	LAND PLUG - RELEASE - DRY
	2000							JOB COMPLETE THANK YOU! DAVE JASWIS, JOE



# SWIFT



Services, Inc.

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



## Invoice

DATE	INVOICE #
6/16/2011	19772

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	#1-2	Nuttycomb-A...	Norton		Oil	Development	Cement Port Collar	Don

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	5.00	400.00
576D-D	Pump Charge - Port Collar - 1811 Feet	1	Job	1,100.00	1,100.00
290	D-Air	3	Gallon(s)	35.00	105.00T
104	5 1/2" Port Collar Tool Rental	1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)	225	Sacks	15.00	3,375.00T
581D	Service Charge Cement	225	Sacks	1.50	337.50
583D	Drayage	895.6	Ton Miles	1.00	895.60
	Subtotal				6,413.10
	Sales Tax Norton County			7.05%	259.44
	<p><i>R6/22/2011</i></p> <p><i>P6/22/2011</i></p> <p><i>NuttyAde 190402 6258.44</i></p> <p><i>Nuttycomb/Adee Unit 1-2 - Pump Charge, Cement + other misc expenses used to cement port collar</i></p> <p><i>NuttyAde 190402 414.10</i></p> <p><i>Nuttycomb/Adee Unit 1-2 - Rental of port collar + man when cementing port collar</i></p>				

**We Appreciate Your Business!**

**Total**

\$6,672.54



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

TICKET 19772  
 PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Hays, KS WELL/PROJECT NO. # 1-2 LEASE Nut Creek & Adee COUNTY/PARISH Norton STATE KS CITY  
 2. Ness City, KS TICKET TYPE CONTRACTOR RIG NAME/NO. NE/Denmore KS DELIVERED TO  
 3. Oil WELL TYPE Wicket WELL CATEGORY Convent Port Adee WELL PERMIT NO.  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575		1			MILEAGE #113	80 mi					500	40000
576-D		1			Ramp Change - cont Port Colbar	1 ea		180	ft		11000	110000
290		1			D-Air	3 gal					3500	10500
104		1			Port Colbar Tool Rental	1 ea		5	hr		20000	20000
330		2			SKD Cement	225	SKS			lb	1500	337500
581		2			Service Charge	225	SKS				150	33750
583		2			Drillage	89	56	70	22390	lb	100	89500

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 6-16-11 TIME SIGNED 0900  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 SERVICES?  
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 413.10  
 TOTAL 6672.54

SWIFT OPERATOR Ben Lemmer APPROVAL

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

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 6-16-11 PAGE NO. 1

CUSTOMER *Baird Oil Co.* WELL NO. *# 1-2* LEASE *Nuttcomb Adee* JOB TYPE *Cement Port @ 11.2* TICKET NO. *19772*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							On location with P.C. Tool
	0910							Rig start P.C tool in hole - P.C @ 1811'
								Locate P.C @ 1811'
						1000	1000	Tst closed - OK - wait on wtr
		3	2			C	300	open P.C - est. Rate
		3				300	300	Hook to hbq - Pump 2 BBI H2O
		3	2			300	300	Start mixing SMD cement - Ann Vol 56 Tbg?
			3			300	300	Have mud returns to pit
			110			350	350	Have cement circ @ 200 SKS mixed
						350	350	Mix 25 SKS @ 13# - Tool in cut
		119				<del>400</del> 350	<del>400</del> 350	Fin cement - Displ 6 BBI H2O
		6				<del>50</del> 50	<del>50</del> 50	Fin Displ - close in - hook to ANN
						C	1000	close P.C & Tst - OK
								Rig run 4 Jts.
								Rev-out Tbg.
								Fin rev-out
								Wash up & Rehook
	1145							Rig pull hbq & tool
								Job Complete
								Thanks Alan, Doug & Joe
								used
								200 SKS @ 11.2
								25 SKS @ 13#
								25 SKS to Pit @ 11.2 gal



## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**2-4s-21w Norton,KS**

**Nuttycomb-Adee Unit #1-2**

Start Date: 2011.06.10 @ 17:31:00

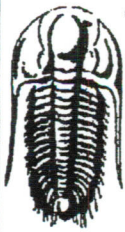
End Date: 2011.06.10 @ 23:58:00

Job Ticket #: 041118          DST #: 1

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

**Nuttycomb-Adee Unit #1-2**

PO Box 428  
Logan, KS 67646

**2-4s-21w Norton, KS**

Job Ticket: 041118

**DST#: 1**

ATTN: Richard Bell

Test Start: 2011.06.10 @ 17:31:00

## GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:27:00

Time Test Ended: 23:58:00

Test Type: Conventional Bottom Hole

Tester: Kevin Mack

Unit No: 43

Interval: **3355.00 ft (KB) To 3376.00 ft (KB) (TVD)**

Total Depth: 3376.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2130.00 ft (KB)

2125.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6799**

Inside

Press@RunDepth: 77.52 psig @ 3356.00 ft (KB)

Start Date: 2011.06.10

End Date: 2011.06.10

Capacity: 8000.00 psig

Last Calib.: 2011.06.11

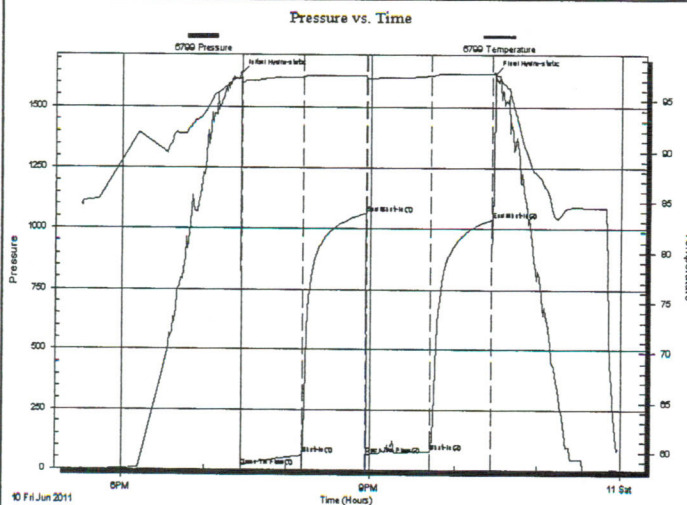
Start Time: 17:31:05

End Time: 23:57:59

Time On Btm: 2011.06.10 @ 19:26:45

Time Off Btm: 2011.06.10 @ 22:28:15

TEST COMMENT: IF: Blow built to 6"  
IS: No Return  
FF: Weak surface blow started @ 6 min. Built to 2"  
FS: No Return



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.08	97.27	Initial Hydro-static
1	12.83	96.44	Open To Flow (1)
45	62.64	97.33	Shut-In(1)
90	1062.10	97.49	End Shut-In(1)
91	66.03	97.25	Open To Flow (2)
136	77.52	97.44	Shut-In(2)
180	1037.71	97.68	End Shut-In(2)
182	1637.04	97.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (heavy) 100M	0.02
55.00	OCMV 5o 70W 25M	0.27
70.00	OCMV 10o 60W 30M	0.43
20.00	Gassy Oil 10G 90o	0.28

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

**Nuttycomb-Adee Unit #1-2**

PO Box 428  
Logan, KS 67646

**2-4s-21w Norton, KS**

Job Ticket: 041118      DST#: 1

ATTN: Richard Bell

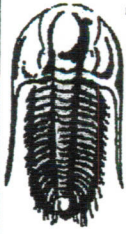
Test Start: 2011.06.10 @ 17:31:00

### Tool Information

Drill Pipe:	Length: 3233.00 ft	Diameter: 3.80 inches	Volume: 45.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 45.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3355.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3335.00	
Shut In Tool	5.00			3340.00	
Hydraulic tool	5.00			3345.00	
Packer	5.00			3350.00	21.00      Bottom Of Top Packer
Packer	5.00			3355.00	
Stubb	1.00			3356.00	
Recorder	0.00	8648	Inside	3356.00	
Recorder	0.00	6799	Inside	3356.00	
Perforations	15.00			3371.00	
Bullnose	5.00			3376.00	21.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company, LLC

**Nuttycomb-Adee Unit #1-2**

PO Box 428  
Logan, KS 67646

**2-4s-21w Norton, KS**

Job Ticket: 041118      DST#: 1

ATTN: Richard Bell

Test Start: 2011.06.10 @ 17:31:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 65000 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 800.00 ppm		
Filter Cake: 2.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (heavy) 100M	0.025
55.00	OCMV 5o 70W 25M	0.270
70.00	OCMV 10o 60W 30M	0.426
20.00	Gassy Oil 10G 90o	0.281

Total Length: 150.00 ft      Total Volume: 1.002 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Oil API 69 @ 72 deg = 38  
Salinity .12 @ 68 Deg = 65000

Serial #: 6799

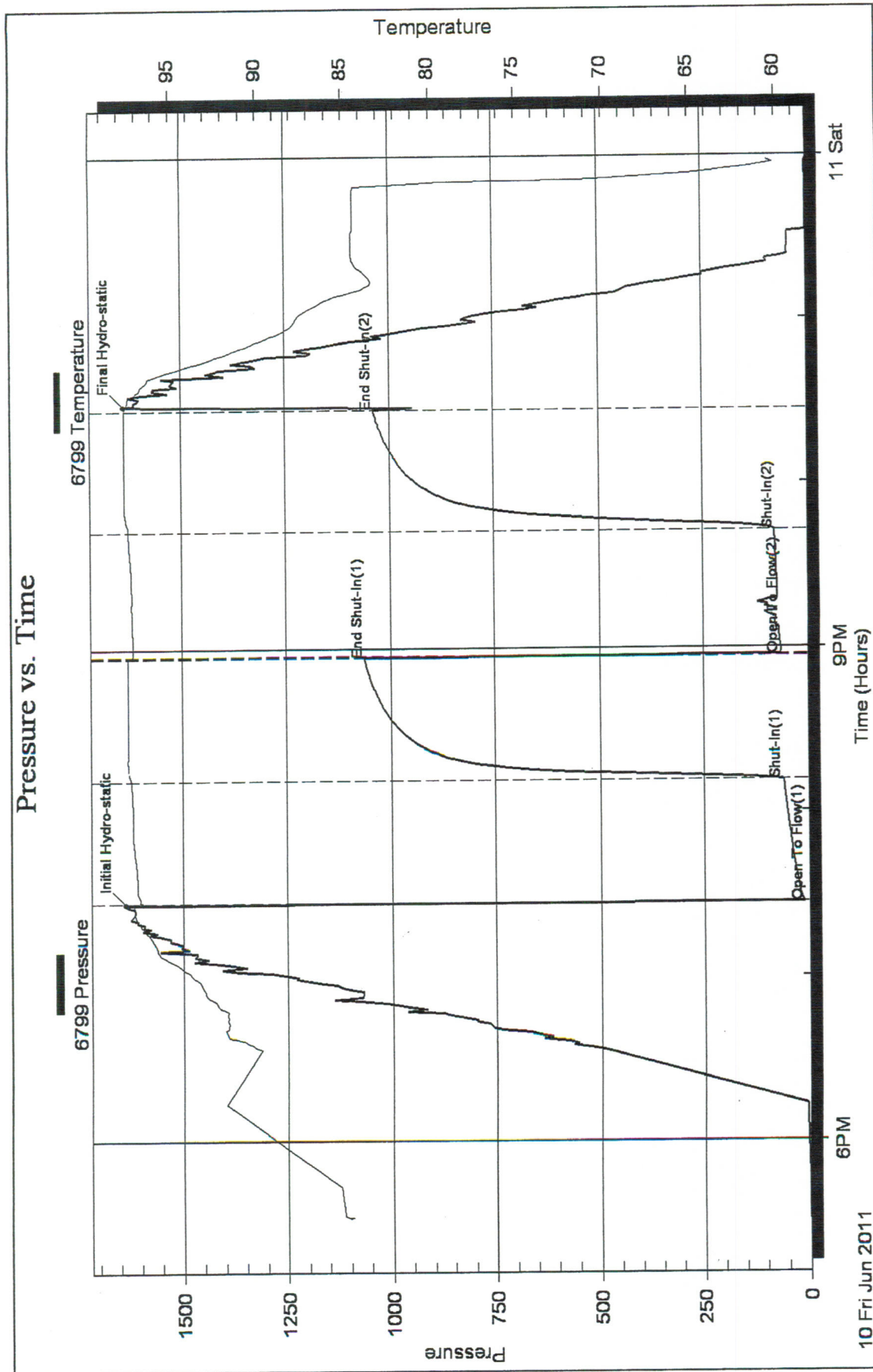
Inside

Baird Oil Company, LLC

2-4s-21w Norton, KS

DST Test Number: 1

### Pressure vs. Time







## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**2-4s-21w Norton,KS**

**Nuttycomb-Adee Unit #1-2**

Start Date: 2011.06.11 @ 05:53:00

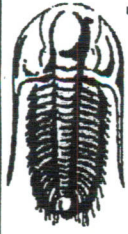
End Date: 2011.06.11 @ 10:39:15

Job Ticket #: 041119                      DST #: 2

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

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**Nuttycomb-Adee Unit #1-2**

**2-4s-21w Norton, KS**

Job Ticket: 041119

DST#: 2

Test Start: 2011.06.11 @ 05:53:00

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:21:15

Time Test Ended: 10:39:15

Test Type: Conventional Bottom Hole

Tester: Kevin Mack

Unit No: 43

Interval: **3383.00 ft (KB) To 3405.00 ft (KB) (TVD)**

Total Depth: 3405.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2130.00 ft (KB)

2125.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6799**

Inside

Press@RunDepth: 20.20 psig @ 3384.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.11

End Date:

2011.06.11

Last Calib.:

2011.06.11

Start Time: 05:53:05

End Time:

10:39:14

Time On Btrm

2011.06.11 @ 07:20:45

Time Off Btrm

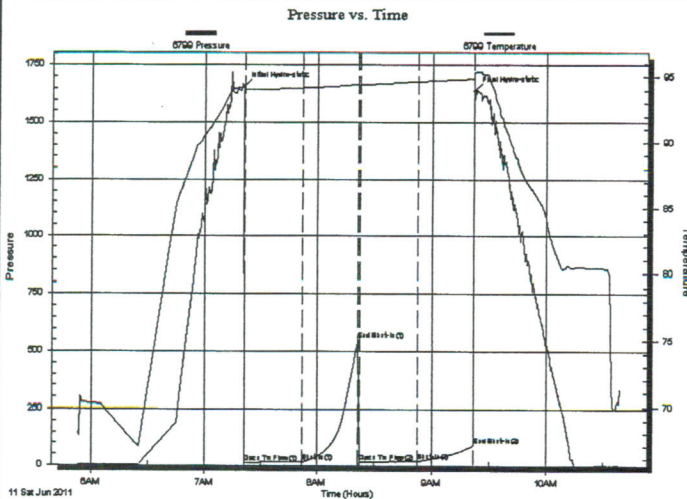
2011.06.11 @ 09:22:00

TEST COMMENT: IF: Blow built to 1/4"

IS: No Return

FF: Weak surface blow started at 7 min. Died at 20 min.

FS: No Return



## PRESSURE SUMMARY

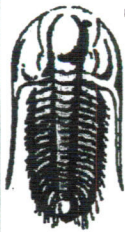
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.54	94.41	Initial Hydro-static
1	13.55	94.03	Open To Flow (1)
31	15.45	94.16	Shut-In(1)
61	553.66	94.47	End Shut-In(1)
62	16.27	94.39	Open To Flow (2)
92	20.20	94.65	Shut-In(2)
121	90.92	94.86	End Shut-In(2)
122	1640.58	95.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM2o 98M	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Baird Oil Company, LLC

**Nuttycomb-Adee Unit #1-2**

PO Box 428  
Logan, KS 67646

**2-4s-21w Norton, KS**

Job Ticket: 041119      **DST#: 2**

ATTN: Richard Bell

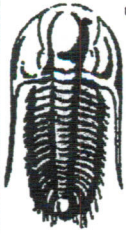
Test Start: 2011.06.11 @ 05:53:00

**Tool Information**

Drill Pipe:	Length: 3261.00 ft	Diameter: 3.80 inches	Volume: 45.74 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: 42000.00 lb
		Total Volume: 46.34 bbl		Tool Chased: ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3383.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3363.00	
Shut In Tool	5.00			3368.00	
Hydraulic tool	5.00			3373.00	
Packer	5.00			3378.00	21.00      Bottom Of Top Packer
Packer	5.00			3383.00	
Stubb	1.00			3384.00	
Recorder	0.00	8648	Inside	3384.00	
Recorder	0.00	6799	Inside	3384.00	
Perforations	16.00			3400.00	
Bullnose	5.00			3405.00	22.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Company, LLC

**Nuttycomb-Adee Unit #1-2**

PO Box 428  
Logan, KS 67646

**2-4s-21w Norton,KS**

Job Ticket: 041119      DST#: 2

ATTN: Richard Bell

Test Start: 2011.06.11 @ 05:53:00

**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: 54.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM2o 98M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 6799

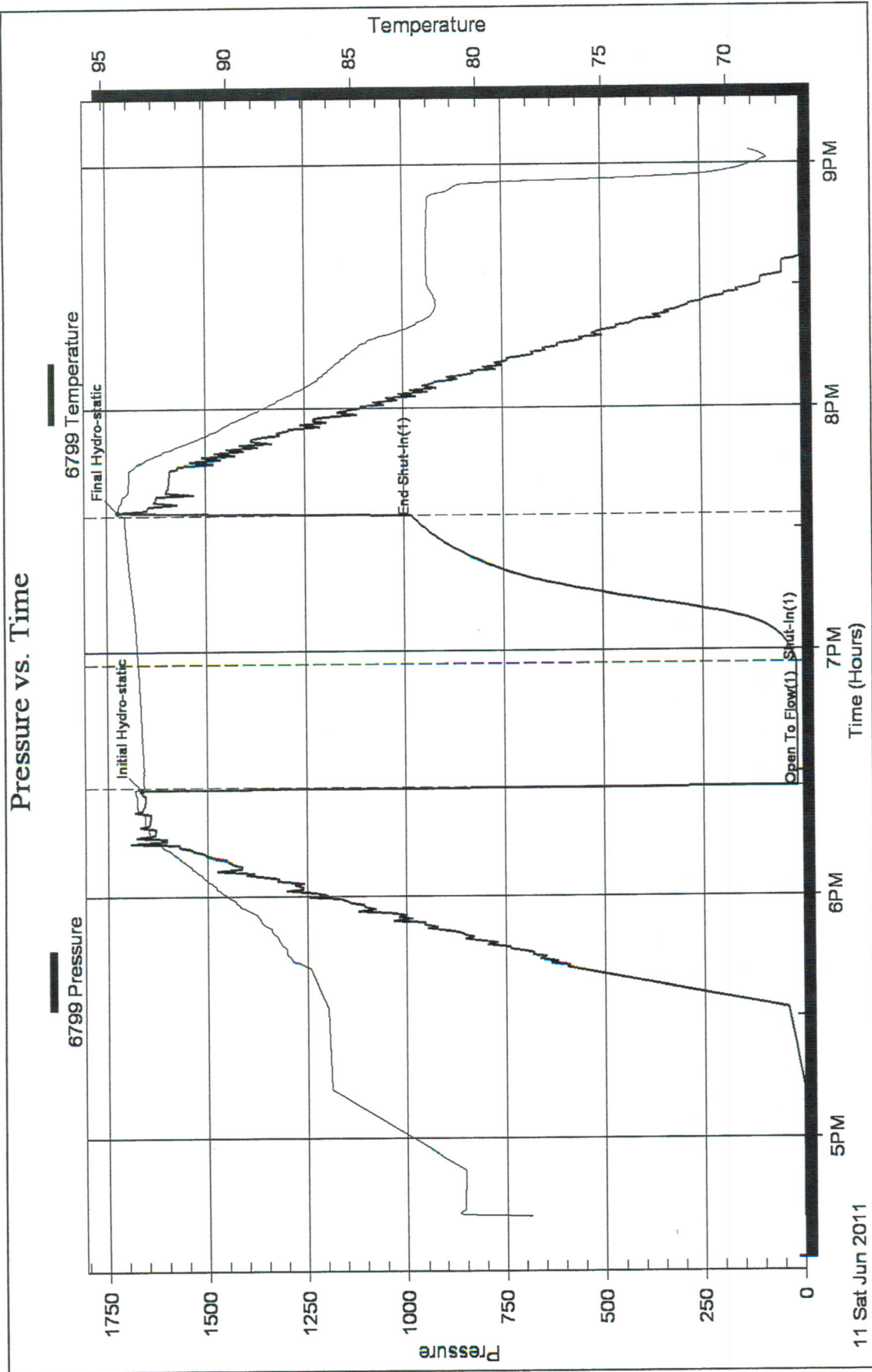
Inside

Baird Oil Company, LLC

2-4s-21w Norton, KS

DST Test Number: 2

### Pressure vs. Time



11 Sat Jun 2011



## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**2-4s-21w Norton,KS**

**Nuttycomb-Adee Unit #1-2**

Start Date: 2011.06.11 @ 16:40:00

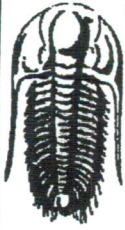
End Date: 2011.06.11 @ 21:03:30

Job Ticket #: 041120      DST#: 3

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

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**Nuttycomb-Adee Unit #1-2**

**2-4s-21w Norton, KS**

Job Ticket: 041120

**DST#: 3**

Test Start: 2011.06.11 @ 16:40:00

## GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:25:45

Time Test Ended: 21:03:30

Test Type: Conventional Bottom Hole

Tester: Kevin Mack

Unit No: 43

Interval: **3404.00 ft (KB) To 3423.00 ft (KB) (TVD)**

Total Depth: 3423.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2130.00 ft (KB)

2125.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6799**

Inside

Press@RunDepth: 15.31 psig @ 3405.00 ft (KB)

Start Date: 2011.06.11

End Date:

2011.06.11

Capacity:

8000.00 psig

Start Time: 16:40:05

End Time:

21:03:29

Last Calib.:

2011.06.11

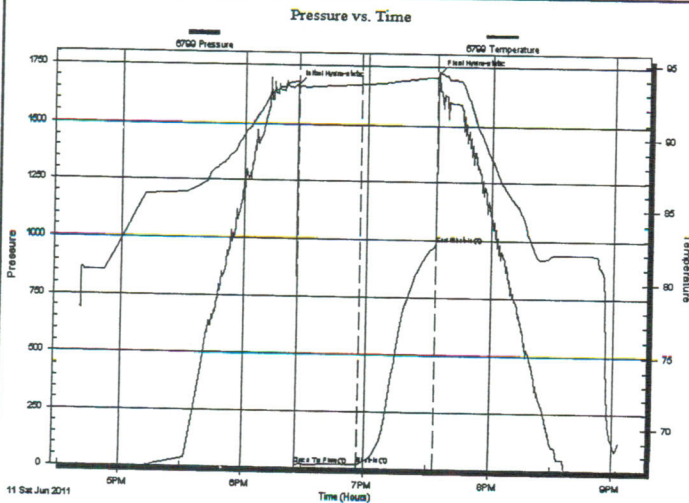
Time On Btmr

2011.06.11 @ 18:25:45

Time Off Btmr

2011.06.11 @ 19:34:15

TEST COMMENT: IF: Blow built to 1/4"  
IS: No Return



## PRESSURE SUMMARY

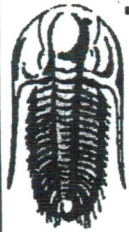
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1663.99	93.76	Initial Hydro-static
1	12.96	93.39	Open To Flow (1)
31	15.31	93.62	Shut-in(1)
68	982.04	94.15	End Shut-in(1)
69	1722.01	94.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 20o 80M	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company, LLC

**Nuttycomb-Adee Unit #1-2**

PO Box 428  
Logan, KS 67646

**2-4s-21w Norton, KS**

Job Ticket: 041120

**DST#: 3**

ATTN: Richard Bell

Test Start: 2011.06.11 @ 16:40:00

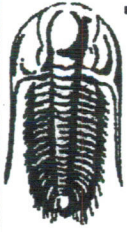
### Tool Information

Drill Pipe:	Length: 3295.00 ft	Diameter: 3.80 inches	Volume: 46.22 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: 42000.00 lb
			<u>Total Volume: 46.82 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3404.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3384.00	
Shut In Tool	5.00			3389.00	
Hydraulic tool	5.00			3394.00	
Packer	5.00			3399.00	21.00 Bottom Of Top Packer
Packer	5.00			3404.00	
Stubb	1.00			3405.00	
Recorder	0.00	8648	Inside	3405.00	
Recorder	0.00	6799	Inside	3405.00	
Perforations	13.00			3418.00	
Bullnose	5.00			3423.00	19.00 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

**Nuttycomb-Adee Unit #1-2**

PO Box 428  
Logan, KS 67646

**2-4s-21w Norton,KS**

Job Ticket: 041120      DST#: 3

ATTN: Richard Bell

Test Start: 2011.06.11 @ 16:40:00

**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: 54.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
5.00	OCM20o 80M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

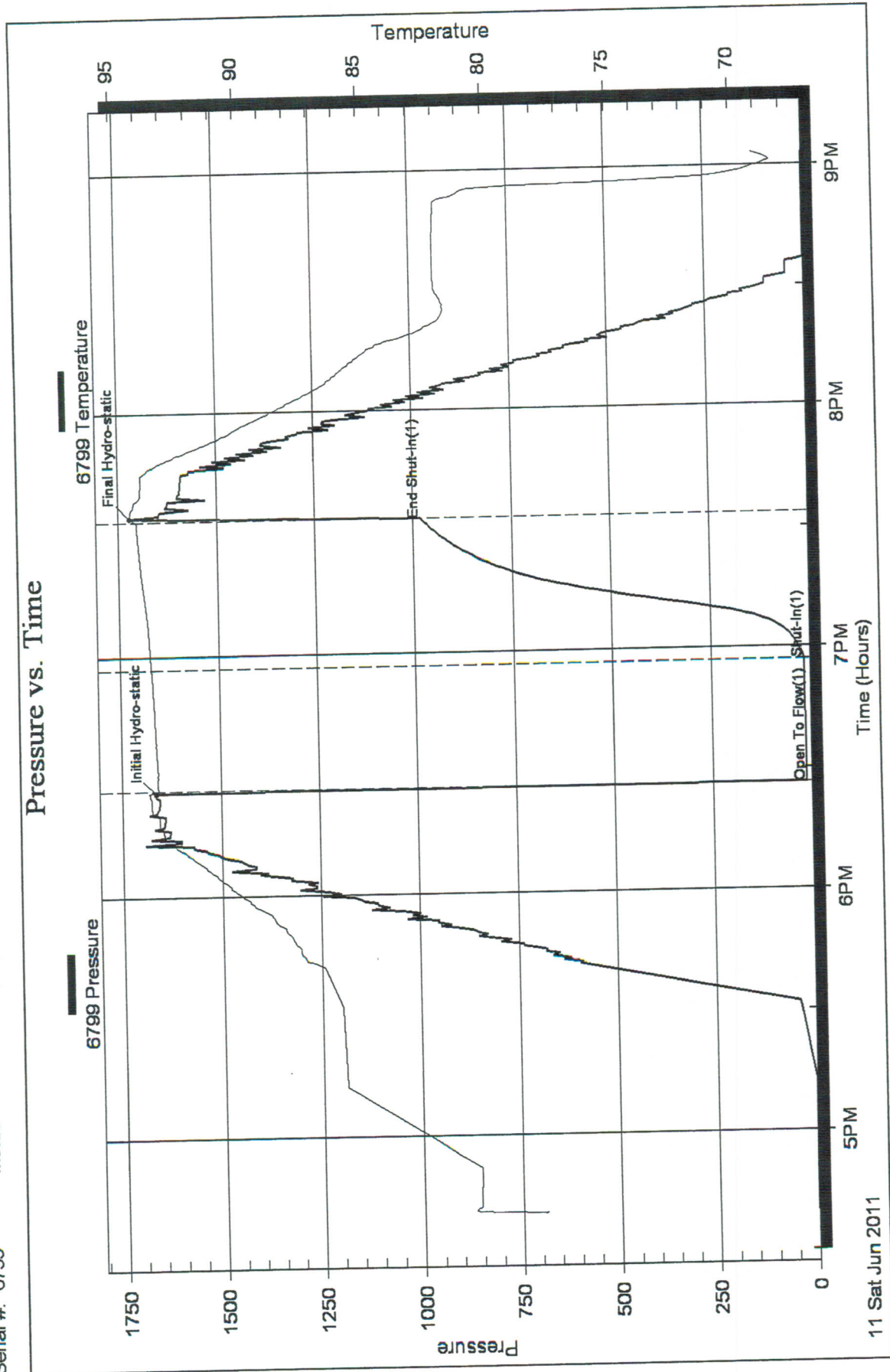
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

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

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**2-4s-21w Norton,KS**

**Nuttycomb-Adee Unit #1-2**

Start Date: 2011.06.12 @ 08:30:00

End Date: 2011.06.12 @ 15:16:45

Job Ticket #: 041121                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Baird Oil Company, LLC

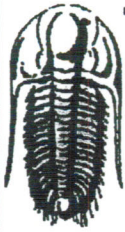
Nuttycomb-Adee Unit #1-2

2-4s-21w Norton,KS

DST # 4

LKC "J"

2011.06.12



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Baird Oil Company, LLC

**Nuttycomb-Adee Unit #1-2**

PO Box 428  
Logan, KS 67646

**2-4s-21w Norton, KS**

Job Ticket: 041121

**DST#: 4**

ATTN: Richard Bell

Test Start: 2011.06.12 @ 08:30:00

### GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:09:45

Time Test Ended: 15:16:45

Test Type: Conventional Bottom Hole

Tester: Kevin Mack

Unit No: 43

Interval: **3511.00 ft (KB) To 3526.00 ft (KB) (TVD)**

Reference Elevations: 2130.00 ft (KB)

Total Depth: 3526.00 ft (KB) (TVD)

2125.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 6799**

Inside

Press@RunDepth: 91.17 psig @ 3512.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.12

End Date:

2011.06.12

Last Calib.:

2011.06.12

Start Time: 08:30:05

End Time:

15:16:44

Time On Btm:

2011.06.12 @ 10:09:15

Time Off Btm:

2011.06.12 @ 13:14:00

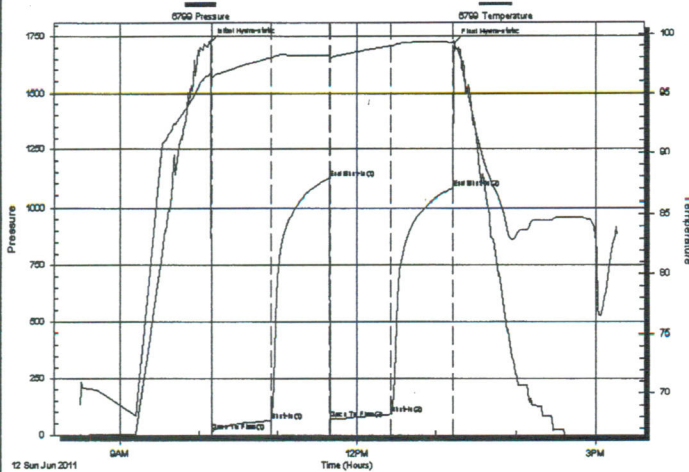
TEST COMMENT: IF: BOB in 43 min.

IS: No return

FF: Blow built to 8"

FS: Weak surface return started at 20 min. Did not build or die

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.63	96.66	Initial Hydro-static
1	15.15	96.26	Open To Flow (1)
46	63.56	98.01	Shut-In(1)
91	1124.00	98.18	End Shut-In(1)
92	71.90	97.95	Open To Flow (2)
137	91.17	98.98	Shut-In(2)
184	1082.06	99.28	End Shut-In(2)
185	1720.84	99.14	Final Hydro-static

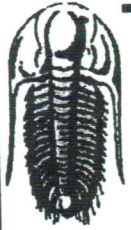
### Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 80M 20c	0.30
215.00	Clean Gassy Oil 75c 25G	2.46

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company, LLC

**Nuttycomb-Adee Unit #1-2**

PO Box 428  
Logan, KS 67646

**2-4s-21w Norton,KS**

Job Ticket: 041121

**DST#: 4**

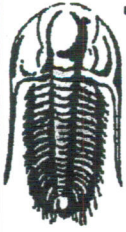
ATTN: Richard Bell

Test Start: 2011.06.12 @ 08:30:00

**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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 48.14 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3511.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3491.00	
Shut In Tool	5.00			3496.00	
Hydraulic tool	5.00			3501.00	
Packer	5.00			3506.00	21.00 Bottom Of Top Packer
Packer	5.00			3511.00	
Stubb	1.00			3512.00	
Recorder	0.00	8648	Inside	3512.00	
Recorder	0.00	6799	Inside	3512.00	
Perforations	9.00			3521.00	
Bullnose	5.00			3526.00	15.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company, LLC

**Nuttycomb-Adee Unit #1-2**

PO Box 428  
Logan, KS 67646

**2-4s-21w Norton,KS**

Job Ticket: 041121      DST#: 4

ATTN: Richard Bell

Test Start: 2011.06.12 @ 08:30:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	25 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 80M 20o	0.295
215.00	Clean Gassy Oil 75o 25G	2.460

Total Length: 275.00 ft      Total Volume: 2.755 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Oil API 27 @ 80 deg. = 25



### Pressure vs. Time

