



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1106468
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____-_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1106468

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

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

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

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

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

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

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

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

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

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

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	KSM Ranch 1-36
Doc ID	1106468

Tops

Name	Top	Datum
Anhydrite	1952	+331
Base Anhydrite	1983	+300
Topeka	3280	-997
Heebner	3480	-1197
Toronto	3503	-1220
Lansing	3520	-1237
Base Kansas City	3715	-1432
Marmaton	3743	-1460
Granite Wash	3767	-1484
Total Depth	3812	-1529

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



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

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

Sam Brownback, Governor

January 02, 2013

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

Re: ACO1
API 15-137-20614-00-00
KSM Ranch 1-36
NW/4 Sec.36-03S-22W
Norton County, Kansas

Dear Production Department:

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

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

Respectfully,
Jim R. Baird

Quality Well Service, Inc.

324 Simpson St.
Pratt, KS 67124

Invoice

Date	Invoice #
9/10/2012	C-618

Bill To
Baird Oil Co 113 W Main PO Box 428 Logan KS 67646

P.O. No.	Terms	Lease Name
		KSM Ranch #1-36

Description	Qty	Rate	Amount
Common	150	15.50	2,325.00T
Gel	3	20.50	61.50T
Calcium	5	53.00	265.00T
Handling	158	2.10	331.80
SFC 0-500'	1	600.00	600.00
.08 * sacks * miles	12,750	0.08	1,020.00
LMV	85	2.00	170.00
Pump Truck Mileage	85	8.00	680.00
Discount	397.73	-1.00	-397.73T
Discount	420.27	-1.00	-420.27
Discount Expires after 30 days from the date of the invoice		0.00	0.00
KSM Ranch #1-36 Norton Co. 9/12/2012 9/12/2012 KSM Ranch 190802 4794.19 KSM Ranch 1-36 - Pump charge, cement + other misc used to cement surface casing			

Thank You for your business!	Subtotal	\$4,635.30
	Sales Tax (7.05%)	\$158.89
	Total	\$4,794.19

QUALITY WELL SERVICE, INC.

5582

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410

Rich's Cell 620-727-3409

Office / Fax 620-672-3663

Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-8-12	36	3	22	Norton	KS		5:30 - 6:00pm

Lease	Well No.	Location
KSM Ranch	1-36	Edmson vs 2E 7N 1E 1/20 E into

Contractor	Owner
ww Drilling	To Quality Well Service, Inc.

Type Job	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size	T.D.	
12 1/4	218	

Csg.	Depth	Charge To
8 5/8	210	Baird Oil Co

Tbg. Size	Depth	Street

Tool	Depth	City	State

Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
15ft		

Meas Line	Displace	Cement Amount Ordered
	12.9	150sr com 3%cc 2%gel

EQUIPMENT

Pumptrk	No.		Common
	8	copy	150
Bulktrk	No.	mice	Poz. Mix
	10		
Bulktrk	No.		Gel.
			3
Pickup	No.		Calcium
			5

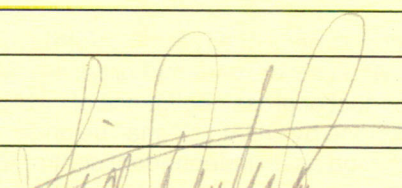
JOB SERVICES & REMARKS

Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
	CFL-117 or CD110 CAF 38
Ran 5 JTS of 8 5/8 casing & landing J+	Sand
	Handling 158
	Mileage 85

FLOAT EQUIPMENT

Est Circulation with mud pump	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Hooked up and mixed 150sr and disp with 12.9 bbl of H2O and shut in @ 200psi !!	Pumptrk Charge
	Surface
	Mileage
	85

X Signature 	Tax
	Discount
	Total Charge

X
Signature

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
9/14/2012	23179

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	#1-36	KSM Ranch	Norton	WW Drilling	Oil	Workover	PTA	Wayne

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575W	Mileage - 1 Way	80	Miles	6.00	480.00T
576W-P	Pump Charge - PTA	1	Job	1,000.00	1,000.00T
410-8	8 5/8" Top Plug	1	Each	100.00	100.00T
328-4	60/40 Pozmix (4% Gel)	230	Sacks	11.50	2,645.00T
276	Flocele	50	Lb(s)	2.00	100.00T
290	D-Air	3	Gallon(s)	35.00	105.00T
581W	Service Charge Cement	230	Sacks	2.00	460.00T
583W	Drayage	772.44	Ton Miles	1.00	772.44T
	Subtotal				5,662.44
	Sales Tax Norton County			7.05%	399.20
	<p>R9/20/2012 A9/20/2012 KSMRanch 190402 6061.64 KSM Ranch 1-36 - Pump charge, Cement + other misc expenses used to plug well</p>				

We Appreciate Your Business!

Total

\$6,061.64



CHARGE TO: **BARB OIL Co.**
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET
 No. 23179

PAGE 1 OF 1

1. SERVICE LOCATION: **NESS OH, KS** WELL/PROJECT NO.: **1-36** LEASE: **KSM RANCH** COUNTY/PARISH: **Norton** STATE: **KS** CITY: **LOCATION** DATE: **9-14-12** OWNER: **same**

2. TICKET TYPE: **SALES** CONTRACTOR: **WV DRLS** RIG NAME/NO.: **PTA** SHIPPED VIA: **TRUCK** DELIVERED TO: **LOCATION** ORDER NO.:

3. WELL TYPE: **OR** WELL CATEGORY: **ABANDONED** JOB PURPOSE: **PTA** WELL PERMIT NO.:

4. REFERRAL LOCATION: **OR** INVOICE INSTRUCTIONS: **Norton, KS - 5/2005, 7/2/11**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 113	80	ME			6.00	480.00
576P		1			PUMP CHARGE - PTA	1	STOB			1000.00	1000.00
410		1			TOP Plug	1	EA		85/8"	100.00	100.00
328-4		1			60 1/40 Pozmzx (48 gal)	230	SKS			11.50	2645.00
276		1			Floccle	501	BS			2.00	1002.00
290		1			D-ADR	3	Gal			35.00	105.00
581		1			SEALITE CHARGE CEMST	230	SKS			2.00	460.00
583		1			DAMAGE	19311	BS		772.44ftm	1.00	772.44

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: **9-14-12** TIME SIGNED: **2030** 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	5662.44
TAX	7.05%
TOTAL	6061.64

SWIFT OPERATOR: **Wayne Watson** APPROVAL: _____

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-14-12 PAGE NO. 1

CUSTOMER **BAIRD OIL Co.** WELL NO. **1-36** LEASE **KSM RANCH** JOB TYPE **PTA** TICKET NO. **23179**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2030							ON LOCATION
								8 5/8" = 218'
								OH = 3813'
	2130		6 1/2					1 ST PLUG 25 SKS CMT = 3746'
	2310		6 1/2					2 ND PLUG 25 SKS CMT = 1960'
	2345		26					3 RD PLUG 100 SKS CMT = 1260'
	0030		10 1/2					4 TH PLUG 40 SKS CMT = 270'
	0135		2 1/2					5 TH PLUG 10 SKS CMT = 40' w/ WZPER
	0145		8					6 TH PLUG 30 SKS CMT = RAYHOLE
								WASH TRUCK
	0230							JOB COMPLETE
								THANK YOU WAYNE, BRIAN, ROB

APT. # 15-137-20614-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.
LEASE Ksm Ranch # 1-36
FIELD _____
LOCATION 765'FNL + 415'FWL
SEC 36 TWSP 35 RGE 22W
COUNTY Norton STATE Kansas

ELEVATION
KB 2283'
DF 2281'
GL 2278'
Depths Measured From
Log KB Drilling KB

CONTRACTOR WW Drilling Rig # 8
SPUD 9-8-12 COMP 9-14-12
SAMPLES SAVED FROM 3250' TO B.T.O.

CASING
Surface 8 5/8" ID 218'
Production None
ELECTRIC LOGS
Superior Well Services

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>2709</u>				
<u>Anhydrite</u>	<u>1952</u>	<u>1952 +</u>	<u>331</u>	<u>+ 325</u>	<u>+ 325</u>		
<u>Base Anhydrite</u>	<u>1983</u>	<u>1983 +</u>	<u>300</u>	<u>+ 297</u>	<u>+ 296</u>		
<u>Topeka</u>	<u>3281</u>	<u>3280 -</u>	<u>997</u>	<u>- 995</u>	<u>- 996</u>		
<u>Wheeler</u>	<u>3480</u>	<u>3480 -</u>	<u>1197</u>	<u>- 1196</u>	<u>- 1196</u>		
<u>Toronto</u>	<u>3503</u>	<u>3503 -</u>	<u>1220</u>	<u>- 1222</u>	<u>- 1221</u>		
<u>Lansing</u>	<u>3520</u>	<u>3520 -</u>	<u>1237</u>	<u>- 1237</u>	<u>- 1238</u>		
<u>Base Kansas City</u>	<u>3715</u>	<u>3715 -</u>	<u>1432</u>	<u>- 1430</u>	<u>- 1429</u>		
<u>Marmaton</u>	<u>3743</u>	<u>3743 -</u>	<u>1460</u>	<u>- 1461</u>	<u>- 1460</u>		
<u>Granite Wash</u>	<u>3767</u>	<u>3767 -</u>	<u>1484</u>				
<u>Total Depth</u>	<u>3813</u>	<u>3812 -</u>	<u>1529</u>	<u>- 1546</u>	<u>- 1502</u>		

REFERENCE WELLS

- ^a Baird Oil Co., Esslinger Ranch, Inc. #1-26, 410' FSL + 1635' FWL Sec. 26-35-22W
- ^b Baird Oil Co., Esslinger Ranch, Inc. #7-35, 1115' FNL + 550' FWL Sec. 35-35-22W
- ^c
- ^d

REMARKS

This well ran flat to 1 foot higher on the casing top than the reference well. After reviewing the open hole log it was decided no further testing was warranted. The well was plugged and abandoned.

Richard S. Bell
9-15-12

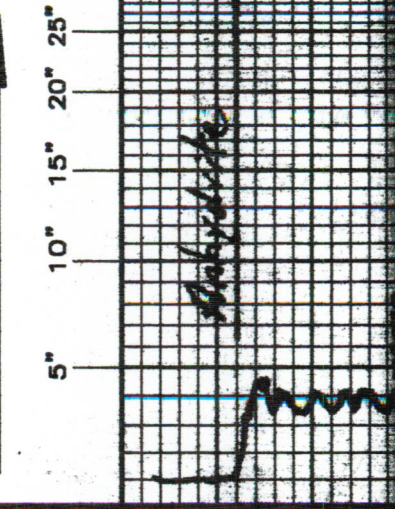
7502

LEGEND

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

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



1940

60

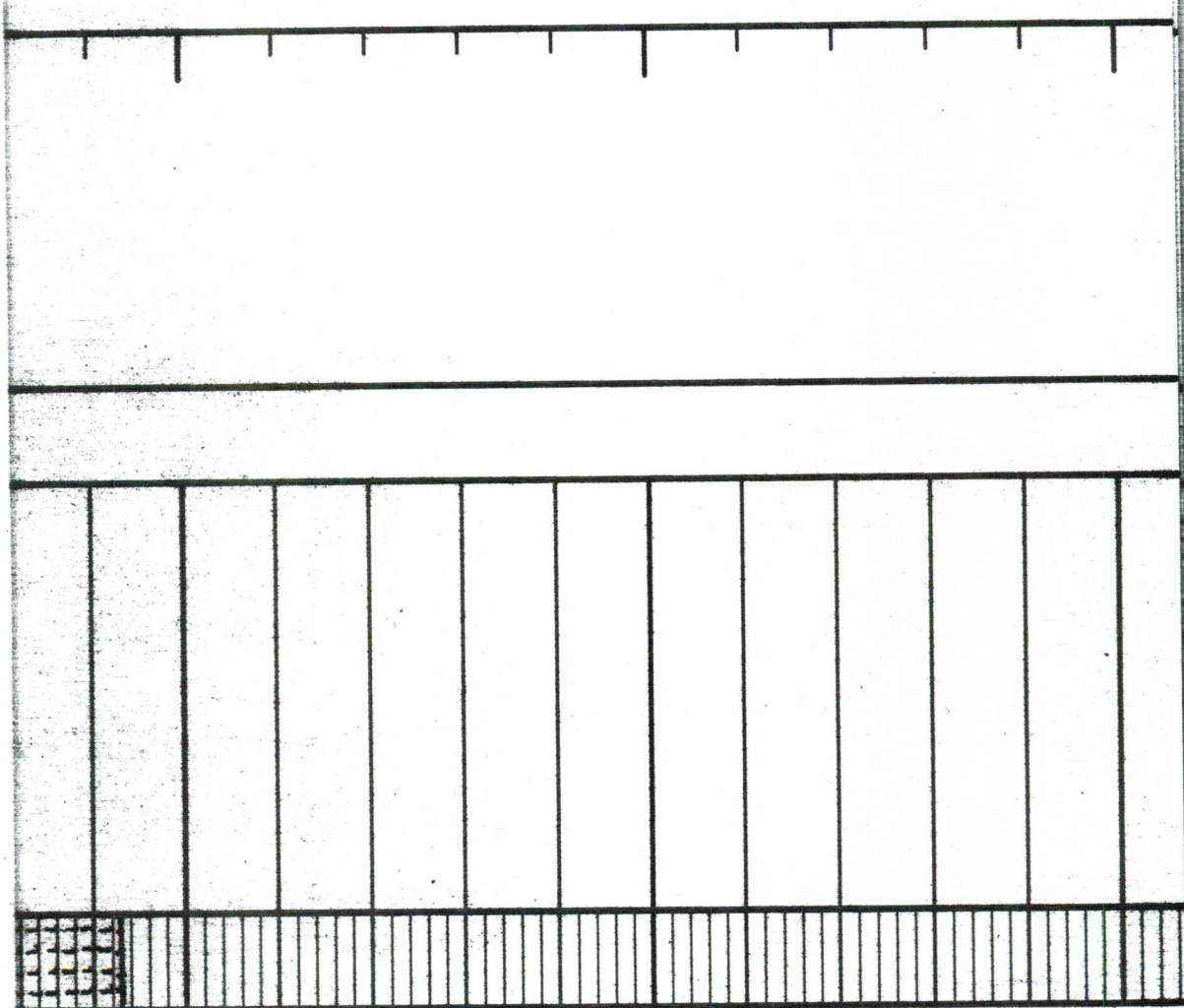
LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

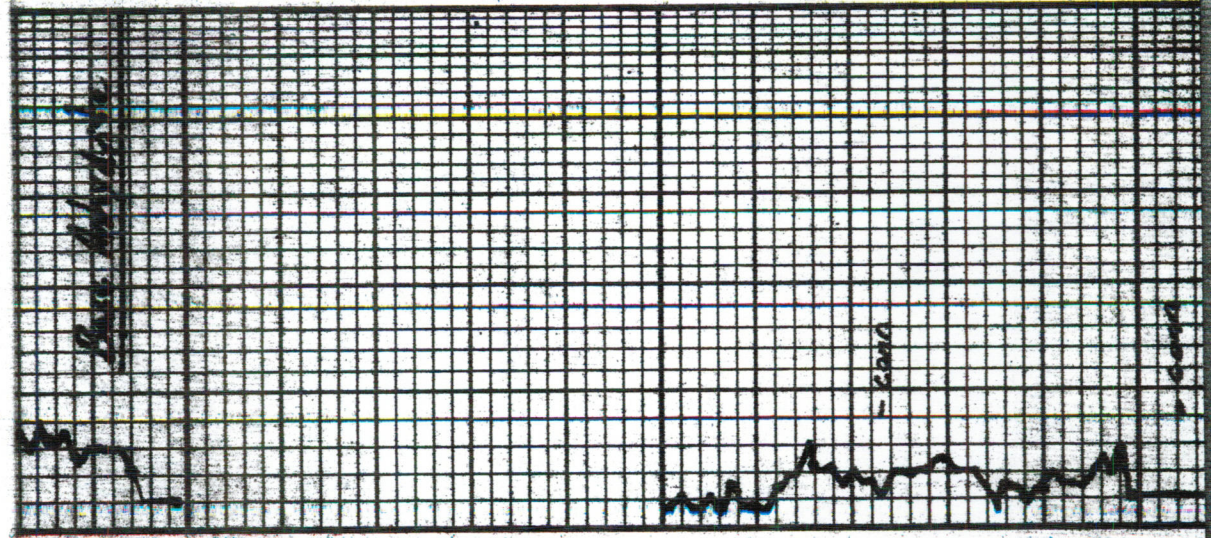
LOG 7710



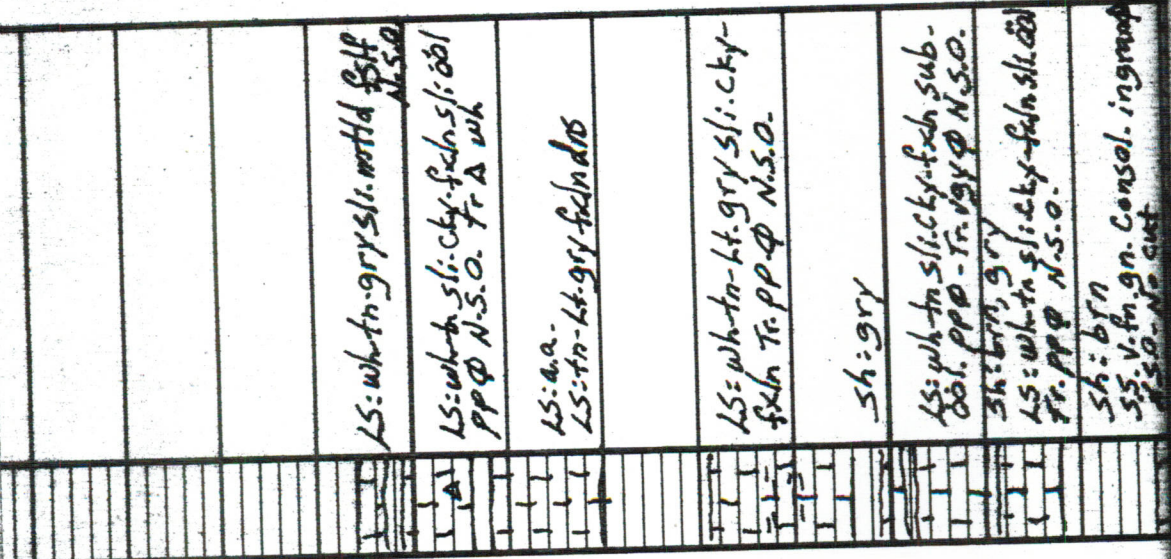
80

3150

3200



Samples are lagged
good samples



20

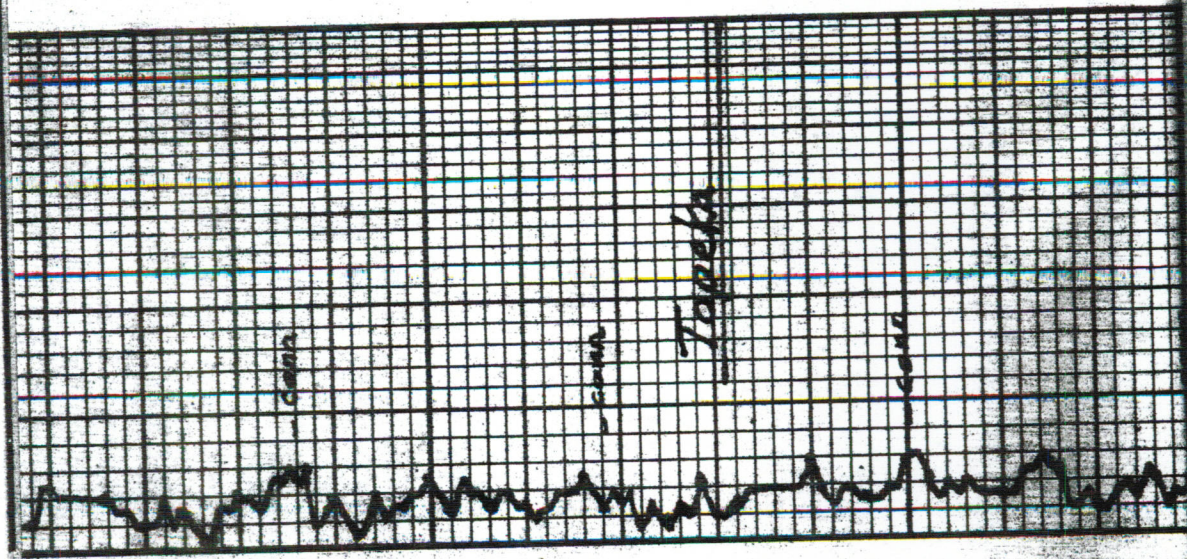
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60

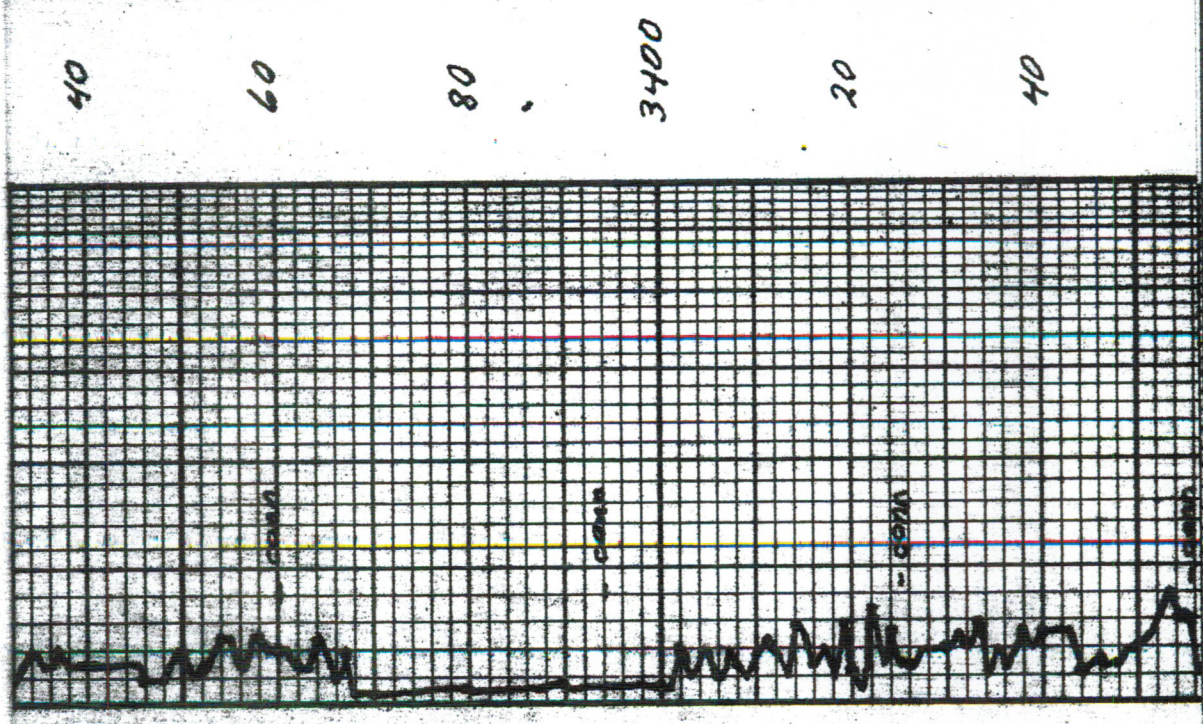
80

3300

20



N.S.O. 15: a.a. - Tr 15: gry sl. f. sl. B dms N.S.O.	LS: wht sl. cky f. l. a. o. l. Tr 61k LS: wht - gry cky - f. l. a. o. l. dms	Tr. blk carb. sh sh: lt gry slty, brn	Tr 55. brn f. n. gn. consol. in gran & N.S.O. No cnt		Sh: gry, brn slty 55. a.a.	LS: wht f. l. n. o. l. p. p. N.S.O.	sh: gry, brn	LS: wht - lt gry sl. cky - f. l. n. o. l. p. p. & N.S.O. sh: BTK carb.	LS: tm - gry f. l. n. dms	LS: wht f. l. n. o. l. p. p. N.S.O. sh: lt 15: brn f. l. n. dms	sh: brn, lav.
--	--	--	---	--	-------------------------------	--	--------------	--	---------------------------	---	---------------



Board 3550.11'
 Strap 3549.78'
 Diff. .33'
 Incline $1\frac{1}{2}^\circ @ 3537'$

DST #1 3513'-3537'
 45-45-45-45
 IF: wk blow incr. to 2"
 PF: wk blow incr. to $\frac{1}{2}$ "
 Recovery: 126' wtr.
 3" F.O.
 Hyd: 1735-1718#
 FP: 1276/71-91#
 BHP: 804-108#
 BHTemp: 96°F.
 Test tool out sync.
 FSI. is not right.

DST #2 3537'-3580'
 MSTRUN Hit a bridge
 around 2030'

DST #3 3537'-3580'
 30-45-30-45
 IF: wk blow died in 20min
 PF: No blow

ls: wh-tn cky-fxln ool
 pp N-S.O.
 brn-yel shly ds.

ls: sh-ht-gry sli. cky-fxln
 dns. Fr Δ tn

sh: Blk Carb

ls: tn-lt-gry sli. mald Fr
 pp N-S.O. DTY tn-or
 sh: brn slty, gry, grn

ls: wh-tn sli. suc.-fxln ool
 pp N-S.O. DTY tn-or
 sh: gry, brn, grn

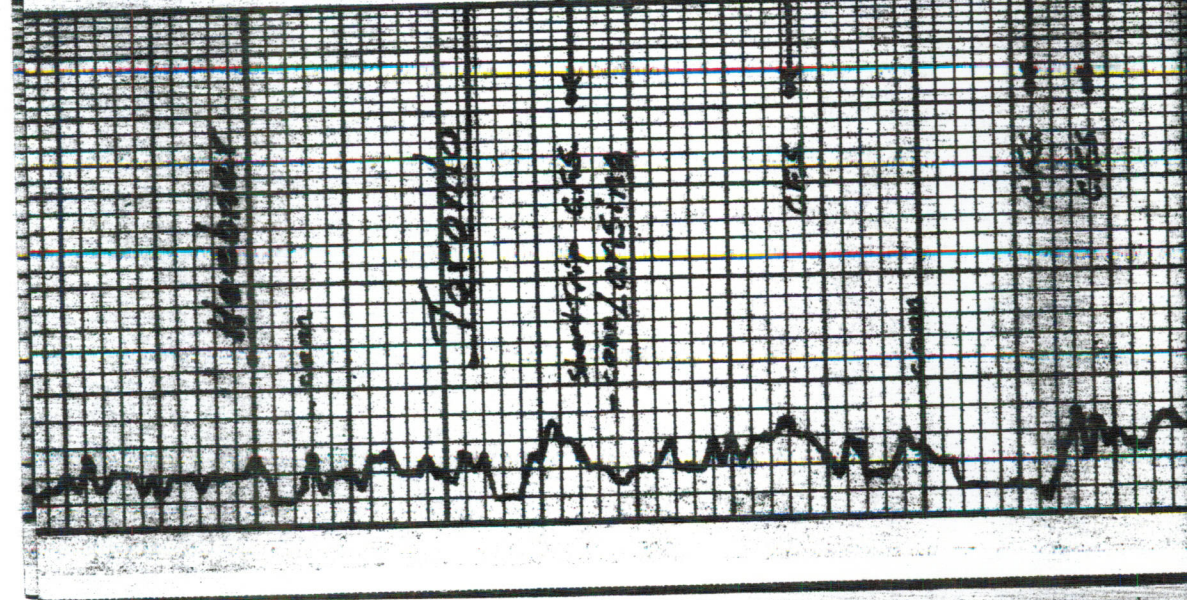
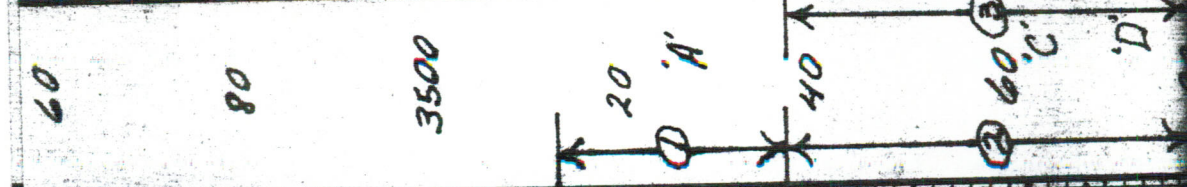
ls: wh-tn sli. cky-fxln ool
 w/ pass. inclus. pp Φ -Fr.
 in part Φ fr. o str. pp F.O.
 on reaching, fr-gd odor

ls: wh-tn fxln dns

sh: brn, gry, grn

sh: brn, gry, grn
 ss. cl. fr. brn v. fr. gn conse
 in str. Φ N-S.O.
 ls: sh-tn sli. cky-fxln dns
 N-S.O. a wh-tn
 sh: brn

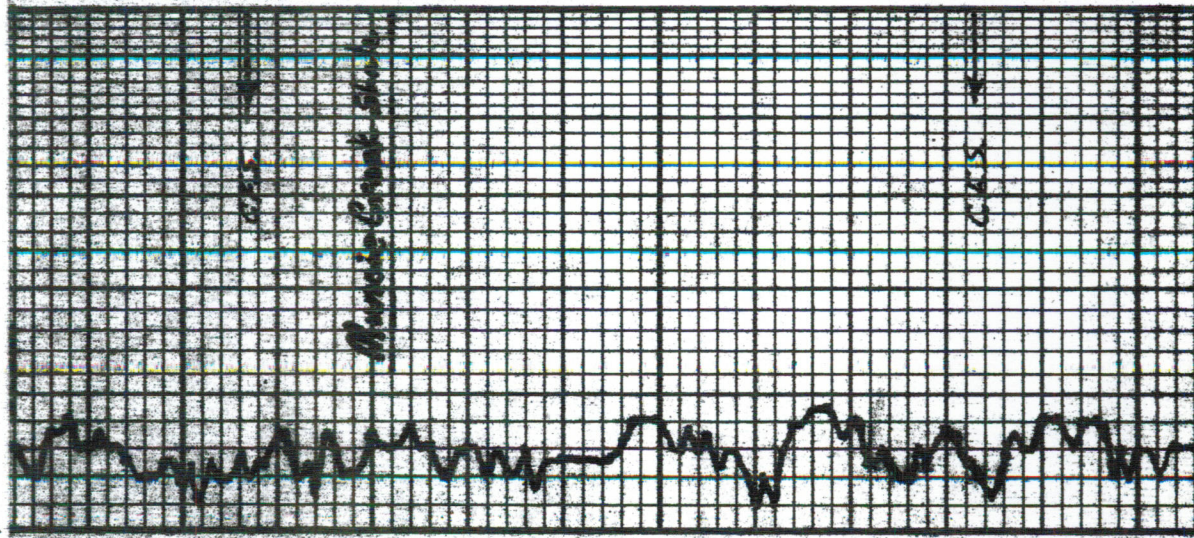
ls: wh-tn fxln ool pp Φ -Fr.
 w/ Φ fr. o str. M. rainbow
 ss. cl. pp F.O. fr. odor



No. 1871-1763#
 FP: 20-25/27-28#
 BHP: 317-254#
 BHTemp: 90°F.

15-in-14-gry-fxln dms sh-brn lvs. gen	15-in-14-gry-fxln dms pp. fr. 0.5 in pp. fr. a. fr. color	15-in-14-gry-fxln dms pp. fr. 0.5 in pp. fr. a. fr. color	sh-blk carb ls-in-gry fslf dms	sh-brn slty	ls-whtn v. chy-fxln dms N.S.O.	sh-brn	ls-in-yelf fslf dms N.S.O. brn shly ls sh-brn slty	15-in-14-gry-fxln Tr. oöl pp. fr. 0.5 in pp. fr. a. fr. color	sh-brn slty, gry	ls-whtn chy-fxln dms N.S.O.	sh-brn
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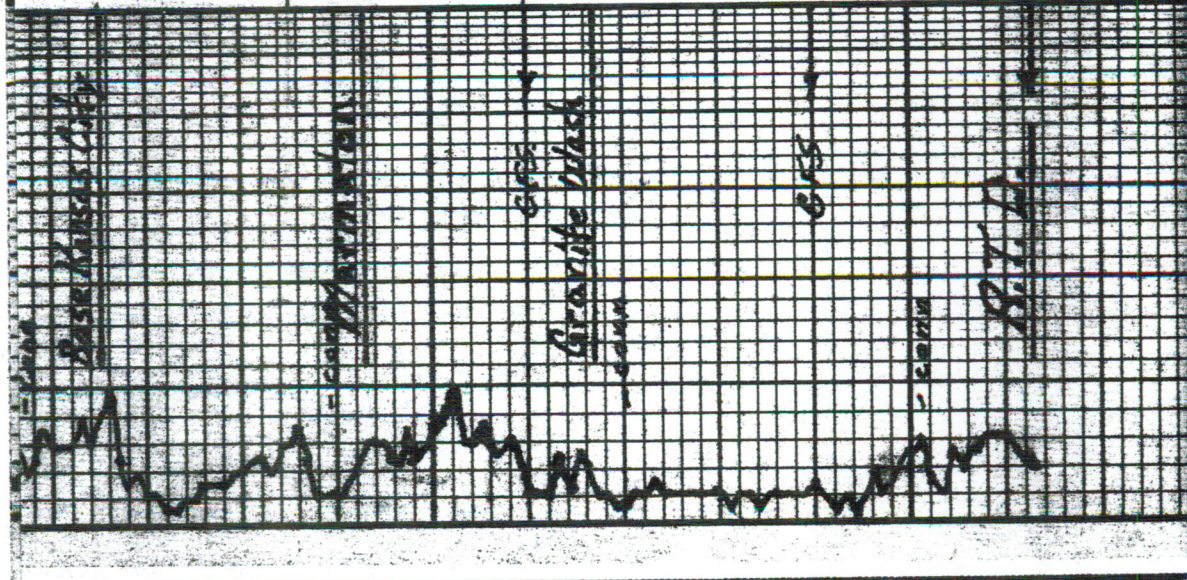
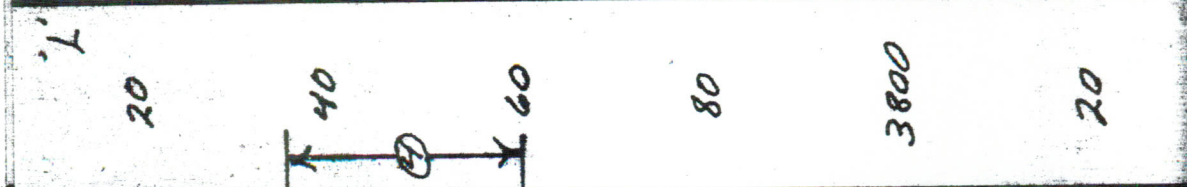
3600
 'G'
 20
 40 'H'
 60 'I'
 80 'J'
 3700 'K'



✓ ✓

DST #4 3735'-3760'
 30-30-0-0
 1st wk blow died in 5 min
 Pulled tool
 Recovery: 5' Mud
 HYD: 1955-1913#
 FP: 18-21#
 BHP: 55#
 BH Temp: 96°F

LS: wh. to cky-feln. dms N.S.O.	Sh: brn slty SS: brn fn gr consol ingran N.S.O.	LS: wh. to cky-feln. oöl lot foss inclus. dms N.S.O.	LS: wh. to sli. cky-feln. oöl ppp - fr. v. g. s. g. fr. ingran ppp brn. s. g. fr. d. u. g. odor Sh: brn, gry	LS: wh. to feln. oöl ppp - v. g. pp bleeding f.o. sdy LS wh. f. g. s. g. fr. ingran ppp s. g. fr. bleeding f.o. fb. odor Qtz. ckr - frusted ang w/ brotite spks. Incr. Qtz. ang - ckr - frusted Sh: brn wea. Qtz, biot. felds arkasio SS incr arkasio SS. (Qtz, biot, felds)
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DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

KSM Ranch #1-36

36-3s-22w Norton,KS

Start Date: 2012.09.12 @ 04:45:00

End Date: 2012.09.12 @ 10:48:00

Job Ticket #: 46192 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.18 @ 14:22:39



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46192

DST#: 1

ATTN: Richard Bell

Test Start: 2012.09.12 @ 04:45:00

GENERAL INFORMATION:

Formation: **LKC-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:15:00

Time Test Ended: 10:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3513.00 ft (KB) To 3537.00 ft (KB) (TVD)

Reference Elevations: 2283.00 ft (KB)

Total Depth: 3537.00 ft (KB) (TVD)

2278.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 90.47 psig @ 3514.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.12 End Date: 2012.09.12

Last Calib.: 2012.09.12

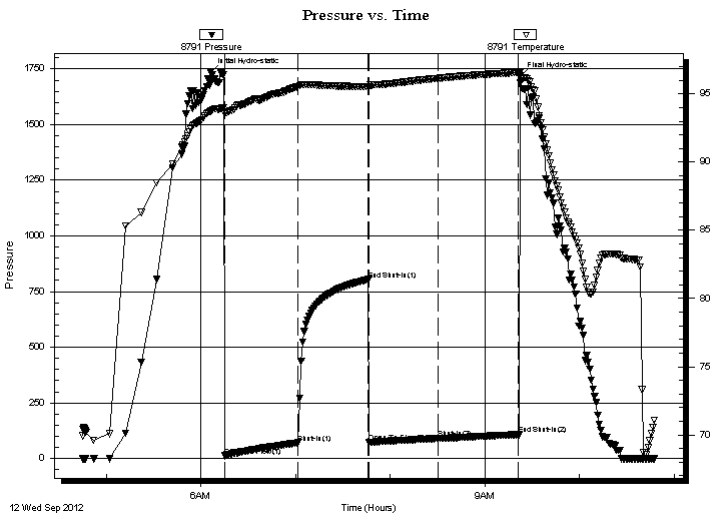
Start Time: 04:45:05 End Time: 10:47:59

Time On Btm: 2012.09.12 @ 06:06:00

Time Off Btm: 2012.09.12 @ 09:22:00

TEST COMMENT: IF: Weak blow, Built to 2 in. Over 45 mins.
IS: No blow back over 45 mins.
FF: Weak blow, Built to 1/2 in. over 45 mins.
FS: No blow back over 45 mins.

PRESSURE SUMMARY



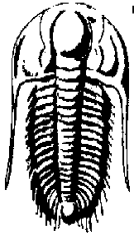
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1734.59	93.70	Initial Hydro-static
9	12.45	93.56	Open To Flow (1)
56	70.55	95.56	Shut-In(1)
100	803.79	95.55	End Shut-In(1)
101	71.28	95.49	Open To Flow (2)
145	90.47	96.16	Shut-In(2)
195	107.71	96.58	End Shut-In(2)
196	1717.89	96.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	water-3 in. free oil.	0.64

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

36-3s-22w Norton, KS

KSM Ranch #1-36

Job Ticket: 46192

DST#: 1

Test Start: 2012.09.12 @ 04:45:00

GENERAL INFORMATION:

Formation: **LKC-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:15:00

Time Test Ended: 10:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3513.00 ft (KB) To 3537.00 ft (KB) (TVD)

Total Depth: 3537.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2283.00 ft (KB)

2278.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8673 Outside

Press @ Run Depth: psig @ 3514.00 ft (KB)

Start Date: 2012.09.12

End Date: 2012.09.12

Start Time: 04:45:05

End Time: 10:47:59

Capacity: 8000.00 psig

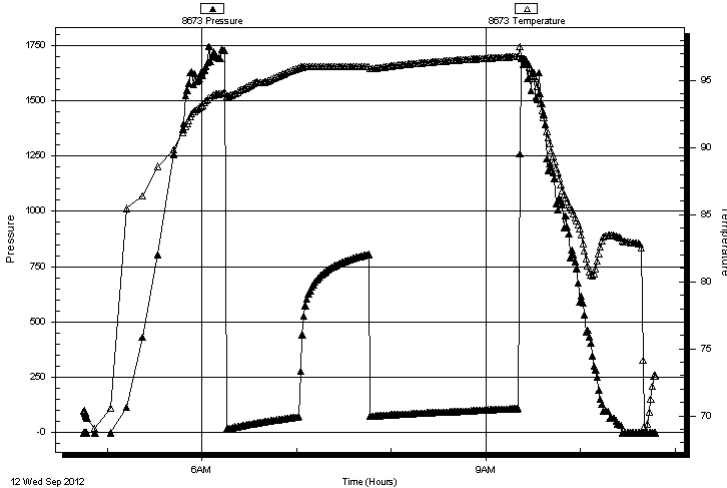
Last Calib.: 2012.09.12

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak blow, Built to 2 in. Over 45 mins.
IS: No blow back over 45 mins.
FF: Weak blow, Built to 1/2 in. over 45 mins.
FS: No blow back over 45 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
126.00	water-3 in. free oil.	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

36-3s-22w Norton,KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46192

DST#: 1

ATTN: Richard Bell

Test Start: 2012.09.12 @ 04:45:00

Tool Information

Drill Pipe:	Length: 3399.00 ft	Diameter: 3.80 inches	Volume: 47.68 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.29 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3513.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3498.00	
Hydraulic tool	5.00			3503.00	
Packer	5.00			3508.00	20.00 Bottom Of Top Packer
Packer	5.00			3513.00	
Stubb	1.00			3514.00	
Recorder	0.00	8791	Inside	3514.00	
Recorder	0.00	8673	Outside	3514.00	
Perforations	20.00			3534.00	
Bullnose	3.00			3537.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46192

DST#: 1

ATTN: Richard Bell

Test Start: 2012.09.12 @ 04:45:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	water-3 in. free oil.	0.638

Total Length: 126.00 ft

Total Volume: 0.638 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

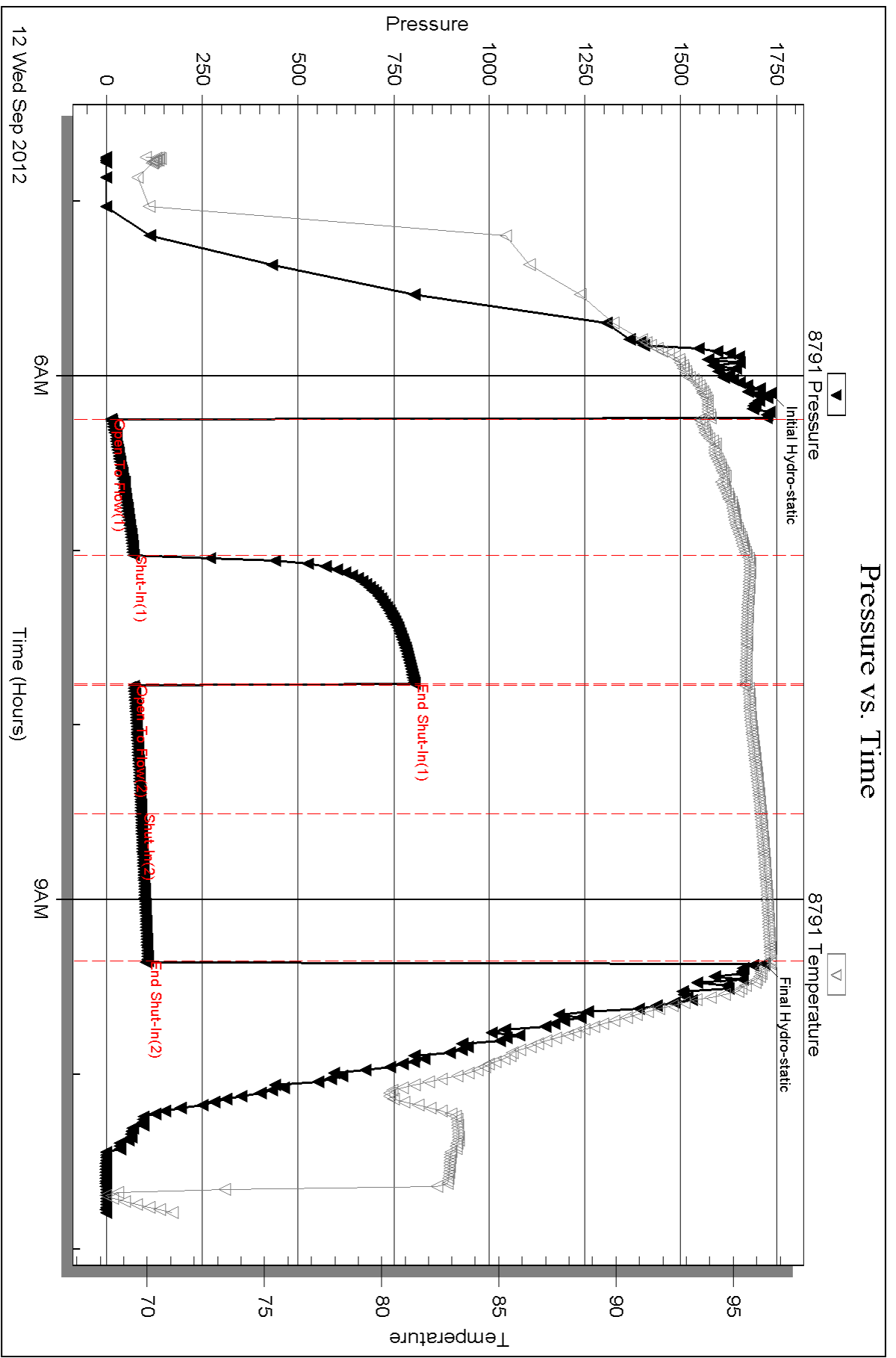
Serial #: 8791

Inside

Baird Oil Company

KSM Ranch #1-36

DST Test Number: 1

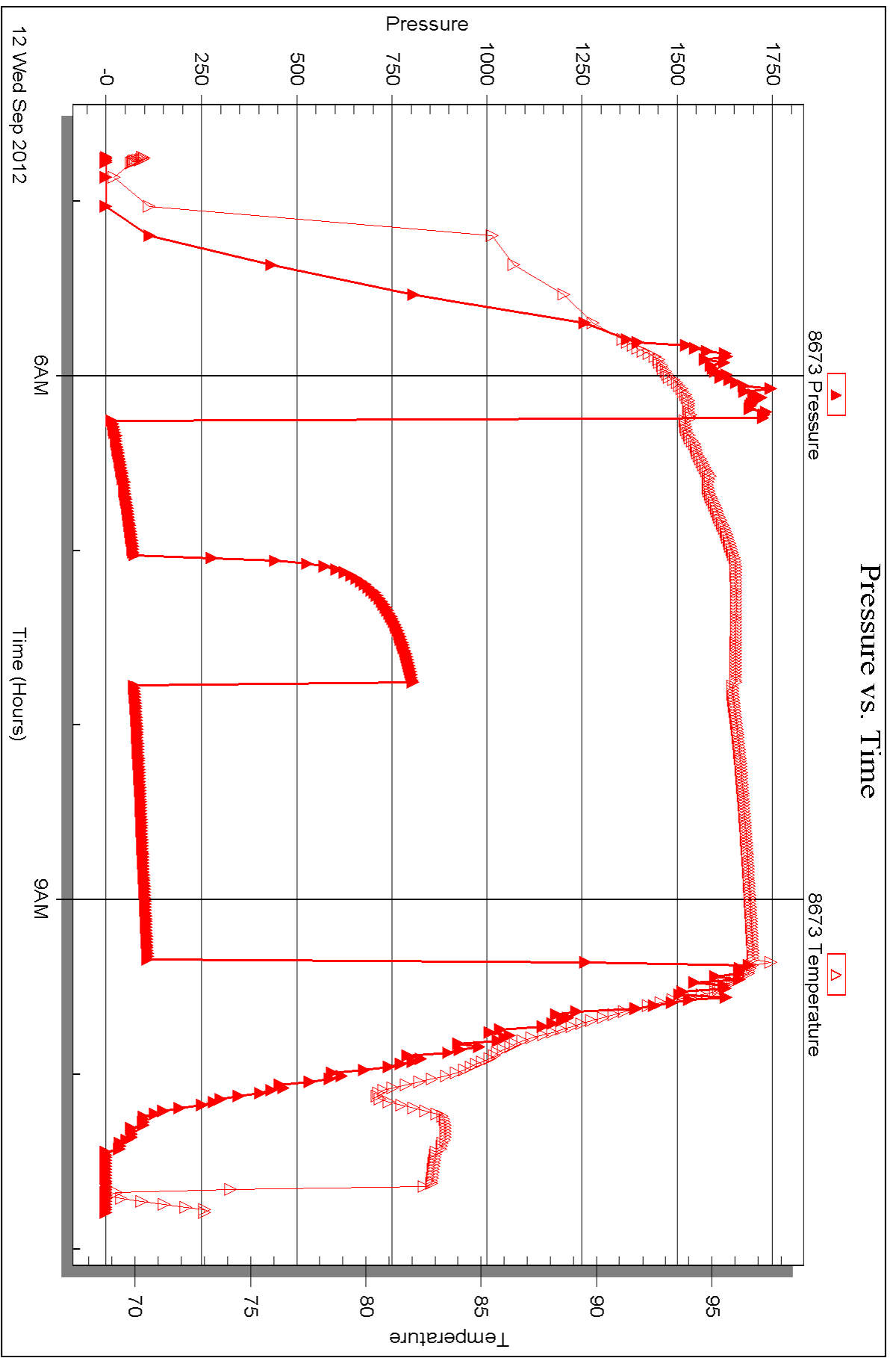


Serial #: 8673

Outside Baird Oil Company

KSM Ranch #1-36

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46192

Printed: 2012.09.18 @ 14:22:44



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

KSM Ranch #1-36

36-3s-22w Norton,KS

Start Date: 2012.09.12 @ 20:30:00

End Date: 2012.09.12 @ 22:36:30

Job Ticket #: 46193 DST #: 2

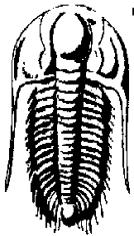
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.18 @ 14:21:41

Baird Oil Company
36-3s-22w Norton,KS
KSM Ranch #1-36
DST # 2
LKC-D
2012.09.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46193

DST#: 2

ATTN: Richard Bell

Test Start: 2012.09.12 @ 20:30:00

GENERAL INFORMATION:

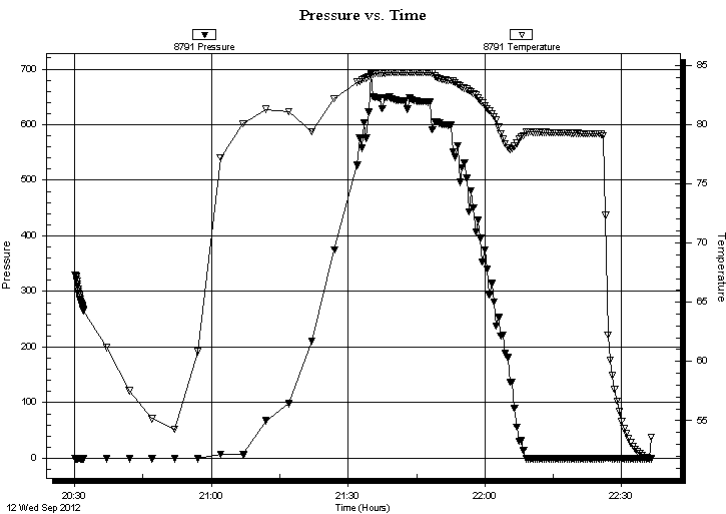
Formation: **LKC-D**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: Tester: Chuck Kreutzer Jr.
 Time Test Ended: 22:36:30 Unit No: 61
 Interval: **3537.00 ft (KB) To 3580.00 ft (KB) (TVD)**
 Total Depth: 3580.00 ft (KB) (TVD) Reference Elevations: 2283.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: psig @ 3539.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.12 End Date: 2012.09.12 Last Calib.: 2012.09.12
 Start Time: 20:30:05 End Time: 22:36:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: _____ Hit Bridge Tripping in with tool At 2000 ft.-----



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46193

DST#: 2

ATTN: Richard Bell

Test Start: 2012.09.12 @ 20:30:00

Tool Information

Drill Pipe:	Length: 3397.00 ft	Diameter: 3.80 inches	Volume: 47.65 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:	lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 48.26 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3537.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	63.00 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			3522.00	
Hydraulic tool	5.00			3527.00	
Packer	5.00			3532.00	20.00 Bottom Of Top Packer
Packer	5.00			3537.00	
Stubb	1.00			3538.00	
Perforations	1.00			3539.00	
Recorder	0.00	8791	Inside	3539.00	
Recorder	0.00	8673	Outside	3539.00	
Change Over Sub	1.00			3540.00	
Blank Spacing	31.00			3571.00	
Change Over Sub	1.00			3572.00	
Perforations	5.00			3577.00	
Bullnose	3.00			3580.00	43.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46193

DST#: 2

ATTN: Richard Bell

Test Start: 2012.09.12 @ 20:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

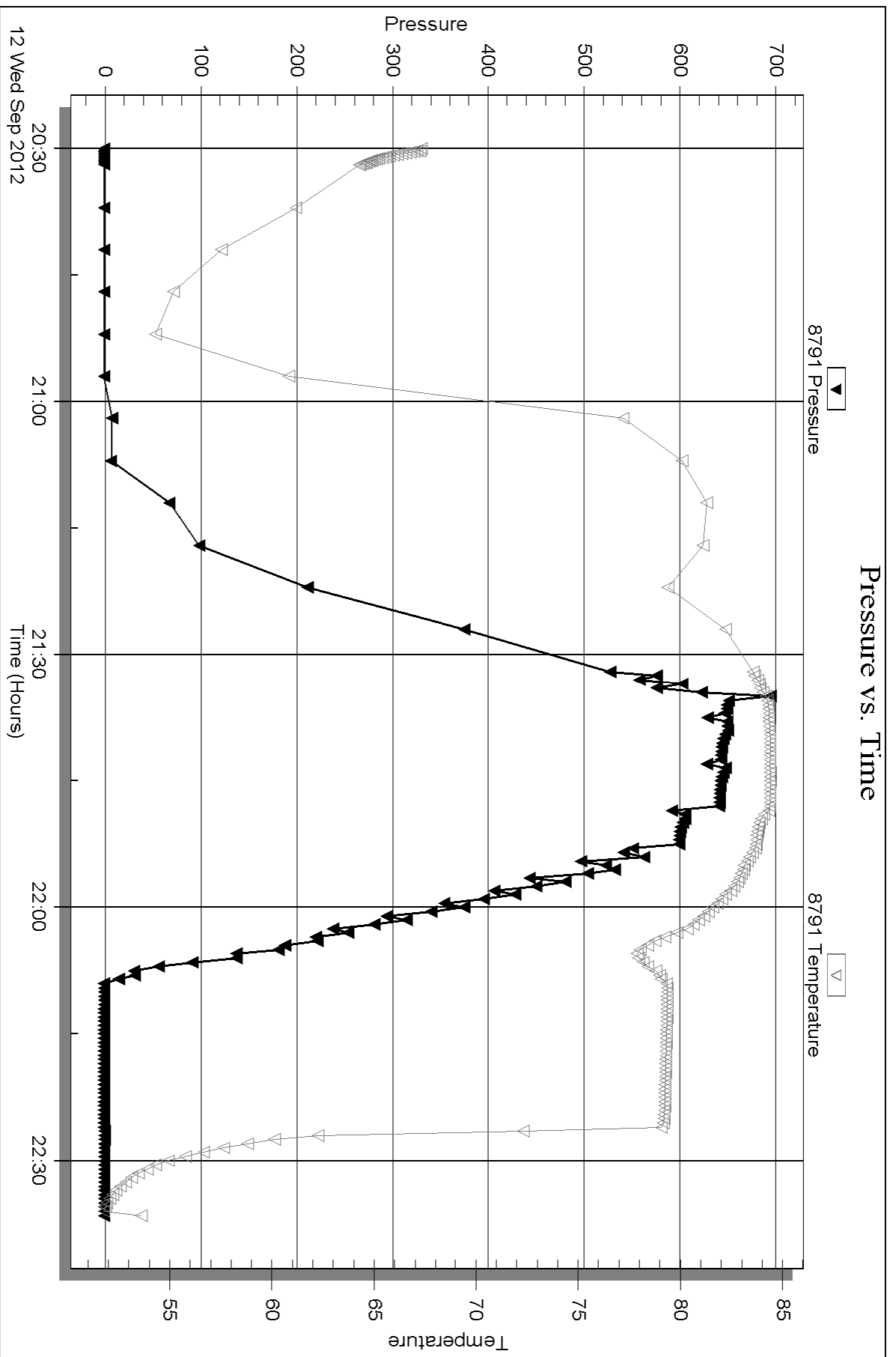
Serial #: 8791

Inside

Baird Oil Company

KSM Ranch #1-36

DST Test Number: 2

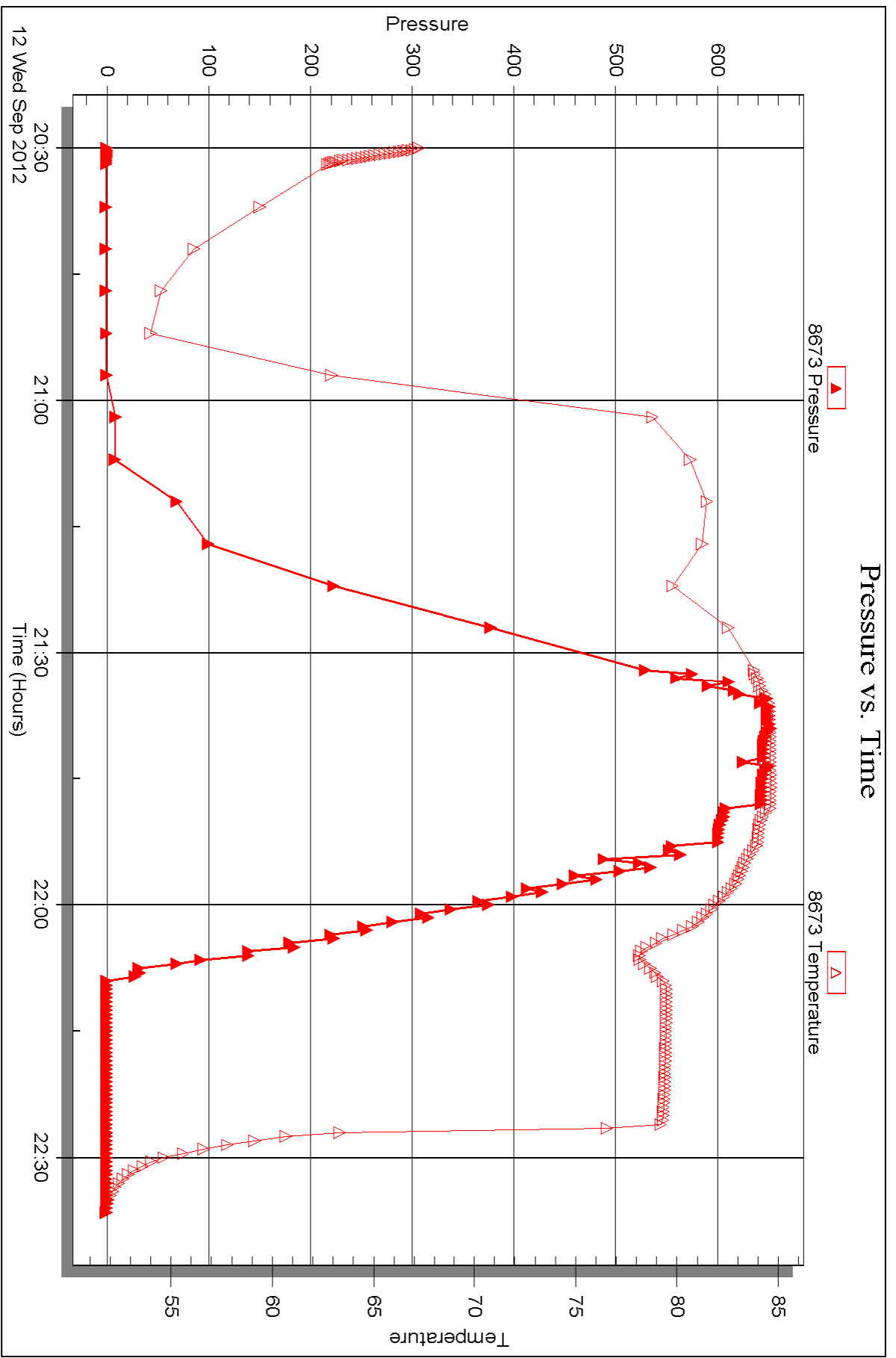


Serial #: 8673

Outside Baird Oil Company

KSM Ranch #1-36

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

KSM Ranch #1-36

36-3s-22w Norton,KS

Start Date: 2012.09.13 @ 02:55:00

End Date: 2012.09.13 @ 09:23:00

Job Ticket #: 46194 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.18 @ 14:20:52

Baird Oil Company
36-3s-22w Norton,KS
KSM Ranch #1-36
DST # 3
LKC-D
2012.09.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46194

DST#: 3

ATTN: Richard Bell

Test Start: 2012.09.13 @ 02:55:00

GENERAL INFORMATION:

Formation: **LKC-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:18:30

Time Test Ended: 09:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3537.00 ft (KB) To 3580.00 ft (KB) (TVD)

Reference Elevations: 2283.00 ft (KB)

Total Depth: 3580.00 ft (KB) (TVD)

2278.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press @ Run Depth: 28.27 psig @ 3539.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.13

End Date:

2012.09.13

Last Calib.: 2012.09.13

Start Time: 02:55:05

End Time:

09:22:59

Time On Btm: 2012.09.13 @ 05:16:30

Time Off Btm: 2012.09.13 @ 08:00:30

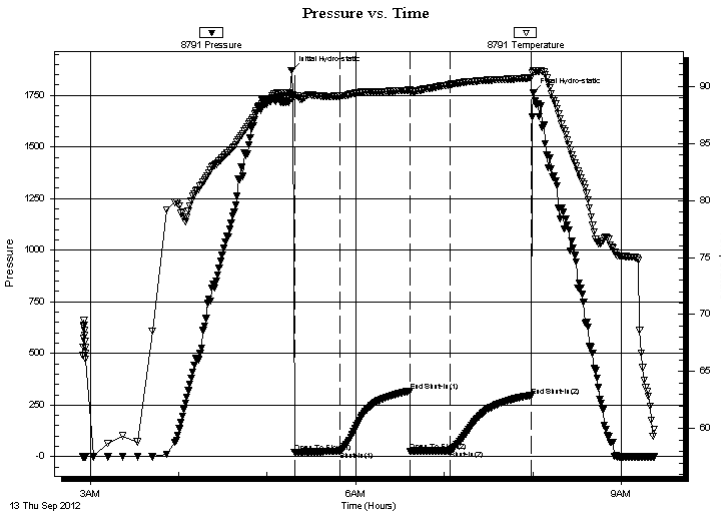
TEST COMMENT: IF: Weak blow, Died in 20 mins.

IS: No blow back

FF: No blow

FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.18	88.91	Initial Hydro-static
2	20.18	89.00	Open To Flow (1)
33	24.87	89.14	Shut-In(1)
80	317.21	89.65	End Shut-In(1)
81	26.73	89.57	Open To Flow (2)
108	28.27	90.16	Shut-In(2)
163	294.40	90.73	End Shut-In(2)
164	1763.16	91.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46194

DST#: 3

ATTN: Richard Bell

Test Start: 2012.09.13 @ 02:55:00

Tool Information

Drill Pipe:	Length: 3397.00 ft	Diameter: 3.80 inches	Volume: 47.65 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.26 bbl</u>	Tool Chased 15.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3537.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 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			3514.00	
Hydraulic tool	5.00			3519.00	
Jars	5.00			3524.00	
Safety Joint	3.00			3527.00	
Packer	5.00			3532.00	28.00 Bottom Of Top Packer
Packer	5.00			3537.00	
Stubb	1.00			3538.00	
Perforations	1.00			3539.00	
Recorder	0.00	8791	Inside	3539.00	
Recorder	0.00	8673	Outside	3539.00	
Change Over Sub	1.00			3540.00	
Drill Pipe	31.00			3571.00	
Change Over Sub	1.00			3572.00	
Perforations	5.00			3577.00	
Bullnose	3.00			3580.00	43.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46194

DST#: 3

ATTN: Richard Bell

Test Start: 2012.09.13 @ 02:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8791

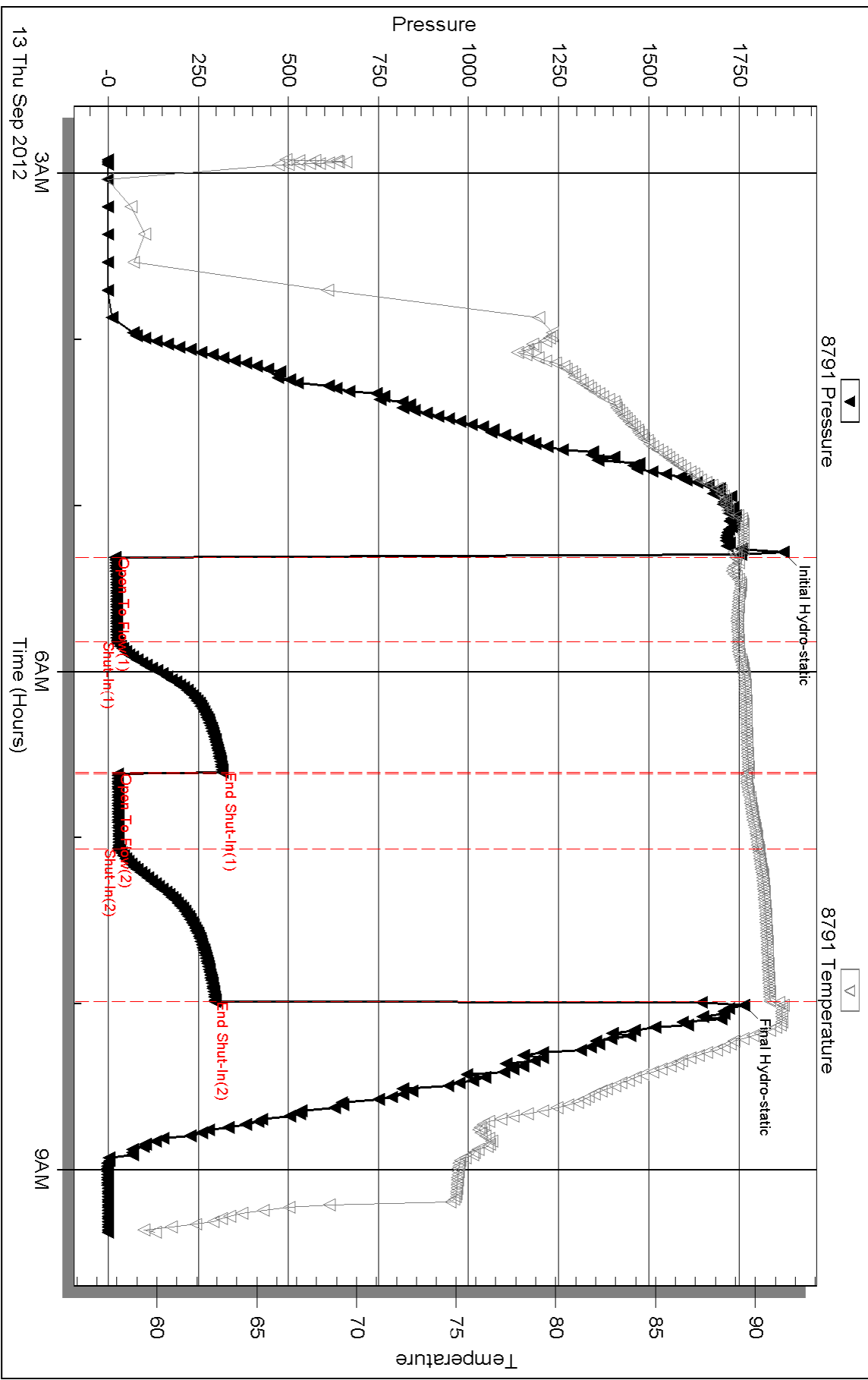
Inside

Baird Oil Company

KSM Ranch #1-36

DST Test Number: 3

Pressure vs. Time

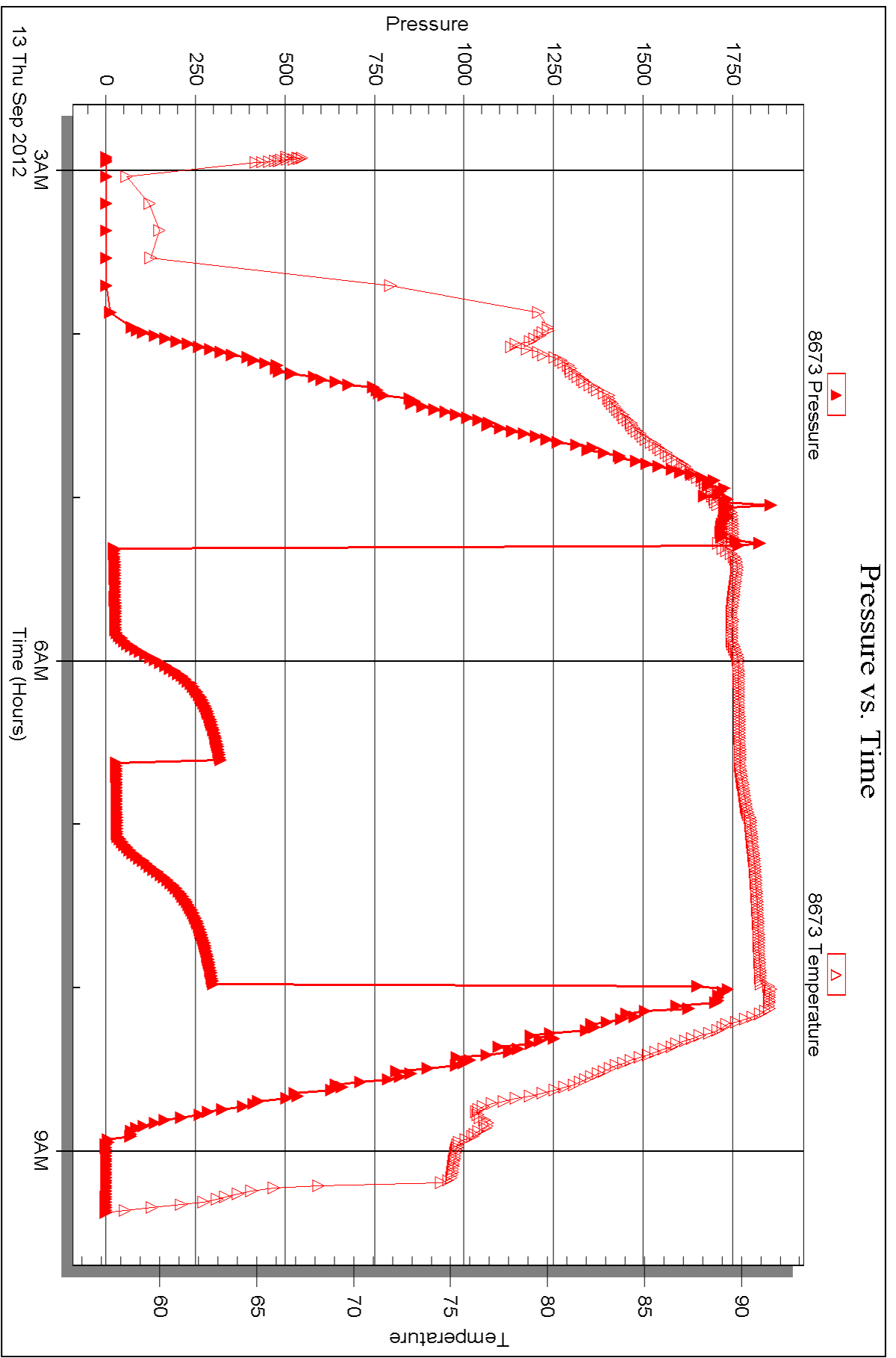


Serial #: 8673

Outside Baird Oil Company

KSM Ranch #1-36

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

KSM Ranch #1-36

36-3s-22w Norton,KS

Start Date: 2012.09.14 @ 02:30:00

End Date: 2012.09.14 @ 07:08:30

Job Ticket #: 46195 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.18 @ 14:19:57



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

ATTN: Richard Bell

Job Ticket: 46195

DST#: 4

Test Start: 2012.09.14 @ 02:30:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:35:30

Time Test Ended: 07:08:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr.

Unit No: 61

Interval: 3735.00 ft (KB) To 3760.00 ft (KB) (TVD)

Reference Elevations: 2283.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

2278.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8791 Inside

Press @ Run Depth: 21.20 psig @ 3736.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.14

End Date:

2012.09.14

Last Calib.: 2012.09.14

Start Time: 02:30:05

End Time:

07:08:29

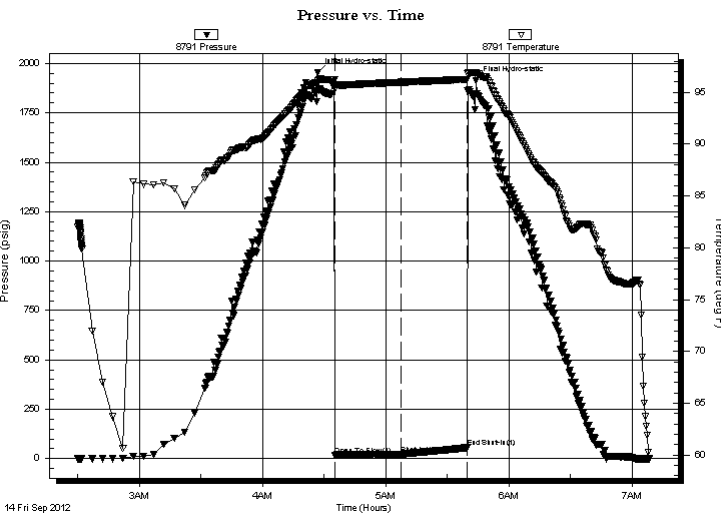
Time On Btm: 2012.09.14 @ 04:27:00

Time Off Btm: 2012.09.14 @ 05:44:00

TEST COMMENT: IF: Weak blow, Died in 5 mins.

IS: No blow back.

-----pulled tool-----



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.71	96.12	Initial Hydro-static
9	18.29	95.37	Open To Flow (1)
41	21.20	95.97	Shut-In(1)
73	55.33	96.24	End Shut-In(1)
77	1912.83	96.92	Final Hydro-static

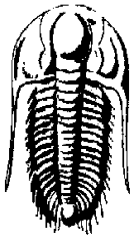
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46195 **DST#: 4**

ATTN: Richard Bell

Test Start: 2012.09.14 @ 02:30:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:35:30

Time Test Ended: 07:08:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

Interval: 3735.00 ft (KB) To 3760.00 ft (KB) (TVD)

Reference Elevations: 2283.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

2278.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8673 Outside

Press @ Run Depth: psig @ 3736.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.14 End Date: 2012.09.14

Last Calib.: 2012.09.14

Start Time: 02:30:05 End Time: 07:08:29

Time On Btm:

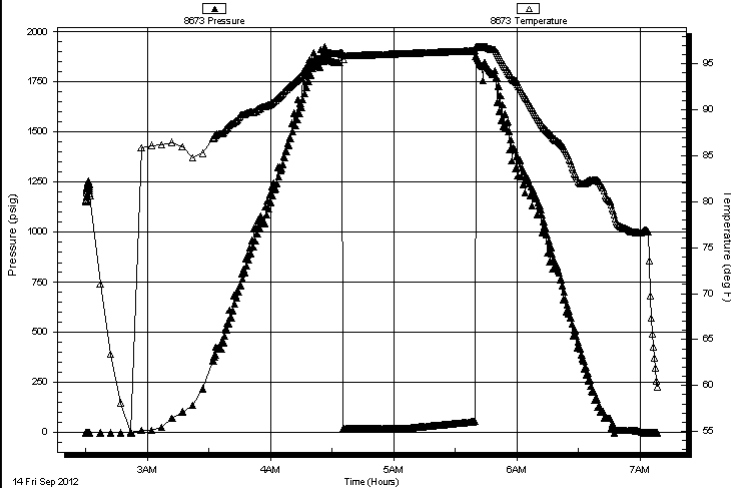
Time Off Btm:

TEST COMMENT: IF: Weak blow , Died in 5 mins.

ISI: No blow back.

-----pulled tool-----

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46195

DST#: 4

ATTN: Richard Bell

Test Start: 2012.09.14 @ 02:30:00

Tool Information

Drill Pipe:	Length: 3621.00 ft	Diameter: 3.80 inches	Volume: 50.79 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 51.40 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3735.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3720.00	
Hydraulic tool	5.00			3725.00	
Packer	5.00			3730.00	20.00 Bottom Of Top Packer
Packer	5.00			3735.00	
Stubb	1.00			3736.00	
Recorder	0.00	8791	Inside	3736.00	
Recorder	0.00	8673	Outside	3736.00	
Perforations	21.00			3757.00	
Bullnose	3.00			3760.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company

36-3s-22w Norton, KS

PO Box 428
Logan, KS 67646

KSM Ranch #1-36

Job Ticket: 46195

DST#: 4

ATTN: Richard Bell

Test Start: 2012.09.14 @ 02:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

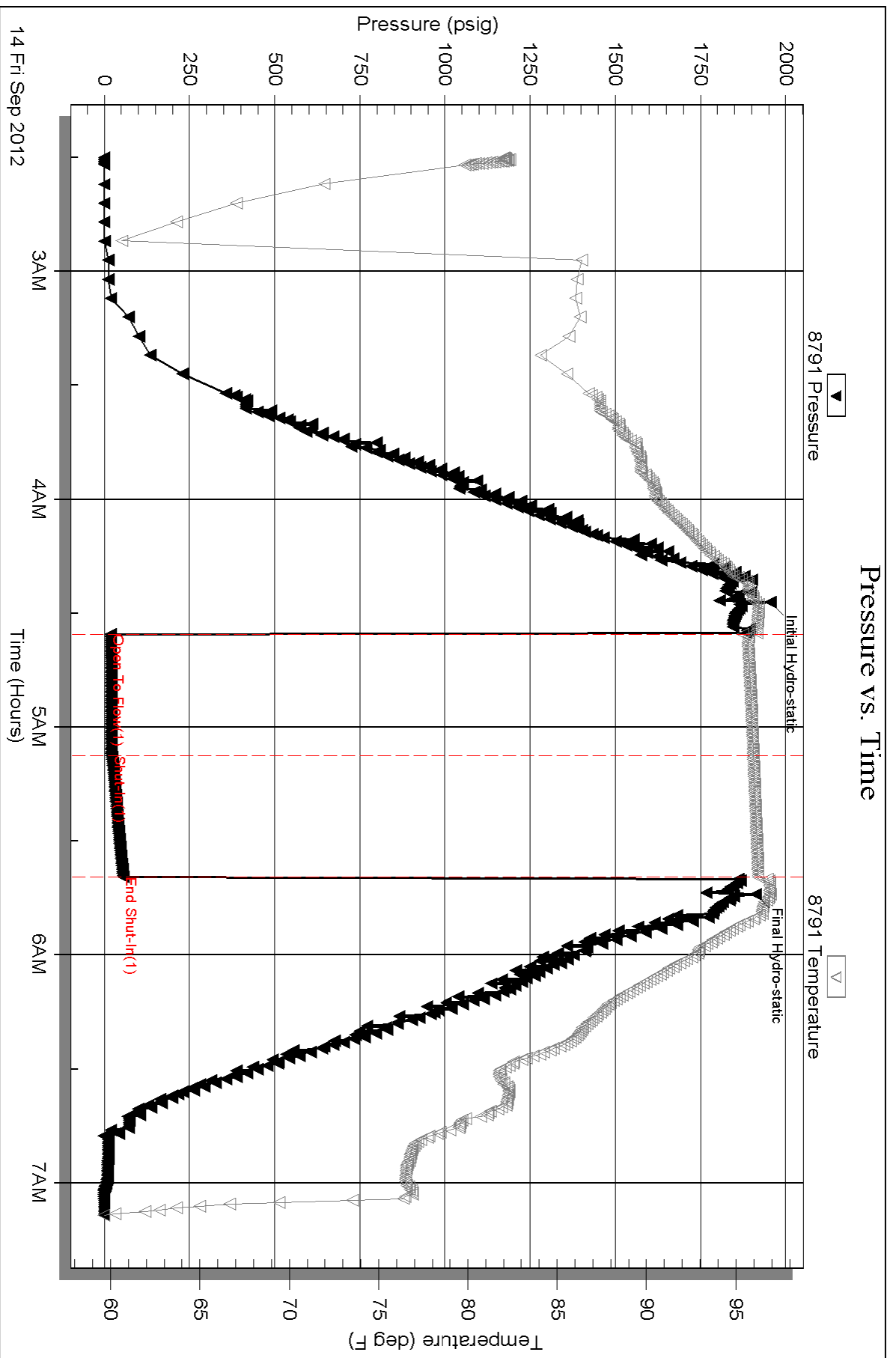
Serial #: 8791

Inside

Baird Oil Company

KSM Ranch #1-36

DST Test Number: 4

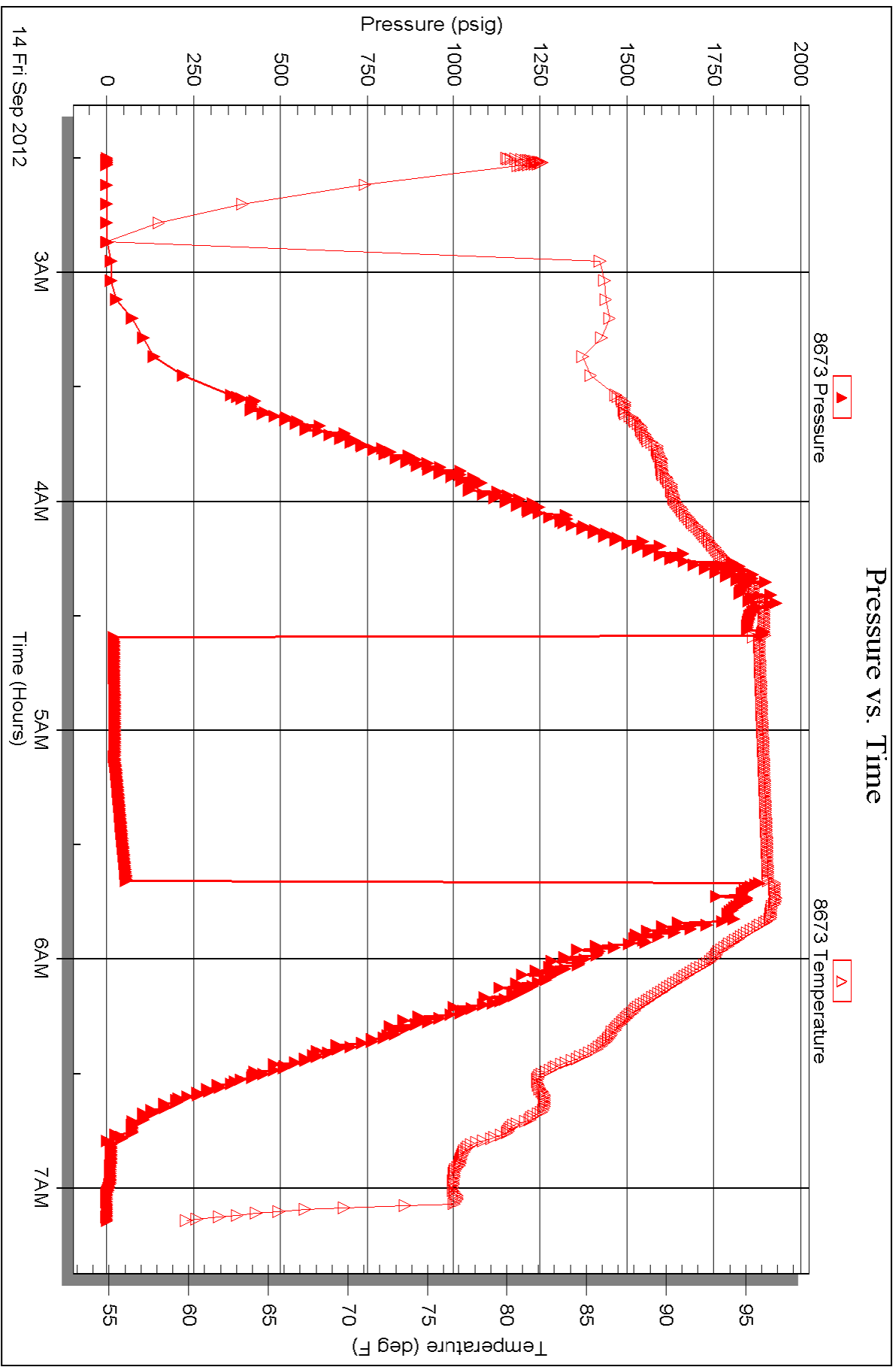


Serial #: 8673

Outside Baird Oil Company

KSM Ranch #1-36

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **46192**

4/10

Well Name & No. KSM Ranch #1-36 Test No. 1 Date 9-12-2012
 Company Baird oil company Elevation 2283 KB 2278 GL
 Address P.O. Box 428 Logan, KS 67546
 Co. Rep / Geo. Richard Bell Rig WW#8
 Location: Sec. 36 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3513 3537 Zone Tested LKC-A
 Anchor Length 24 Drill Pipe Run 3399 Mud Wt. 8.8
 Top Packer Depth 3508 Drill Collars Run 124 Vis 64
 Bottom Packer Depth 3513 Wt. Pipe Run -0- WL 7.2
 Total Depth 3537 Chlorides 2000 ppm System LCM 2#

Blow Description IF: Weak blow, Built to air over 45 mins
ISI: No blow back

FF: Weak blow back, 1/2 air over 45 mins.

FSD: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>Feet of water with 3 in. Free oil</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 126 BHT 96.6 Gravity _____ API RW .22 @ 65 °F Chlorides 36000 ppm

(A) Initial Hydrostatic 1735 Test 1150 T-On Location 4:25
 (B) First Initial Flow 12 Jars T-Started 4:45
 (C) First Final Flow 76 Safety Joint T-Open 6:15
 (D) Initial Shut-In 804 Circ Sub T-Pulled 9:20
 (E) Second Initial Flow 71 Hourly Standby T-Out 10:48
 (F) Second Final Flow 90 Mileage 50 x 2 = 100 x 1.55 155 Comments _____
 (G) Final Shut-In 108 Sampler _____
 (H) Final Hydrostatic 1718 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 45 Extra Packer _____
 Initial Shut-In 45 Extra Recorder _____
 Final Flow 45 Day Standby _____
 Final Shut-In 46 Accessibility _____
 Sub Total 1305 MP/DST Disc't _____

Approved By _____ Our Representative Chuck Hoyer

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46193

4/10

Well Name & No. KSM - Ranch #1-36 Test No. 2 Date 9-12-2012
 Company Barco oil company Elevation 2283 KB 2278 GL
 Address P.O. Box ~~2278~~ Logan, KS 67646
 Co. Rep / Geo. Rich Beo Rig WW# 8
 Location: Sec. 36 Twp. 35 Rge. 22w Co. Norton State KS

Interval Tested 3537 3580 Zone Tested LKC-D
 Anchor Length 43 Drill Pipe Run 3397 Mud Wt. 9.0
 Top Packer Depth 3532 Drill Collars Run 124 Vis 56
 Bottom Packer Depth 3537 Wt. Pipe Run 0- WL 8.0
 Total Depth 3580 Chlorides 4600 ppm System LCM 1.5#
 Blow Description Hit a Bridge tripping in with tool at 2000 ft Hyd.

HIT Bridge at 2000ft Hyd.

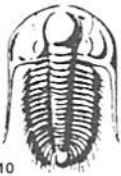
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic _____ Test 950 _____ T-On Location 20:15
 (B) First Initial Flow _____ Jars _____ T-Started 20:30
 (C) First Final Flow _____ Safety Joint _____ T-Open _____
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 2130 ~~2030~~
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 2230
 (F) Second Final Flow _____ Mileage 50KB = 100 x 1.55 155 _____ Comments Never Left location
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Initial Open _____ Extra Packer _____ Extra Copies _____
 Initial Shut-In _____ Extra Recorder _____ Sub Total 0
 Final Flow _____ Day Standby _____ Total 1105
 Final Shut-In _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 1105

Approved By _____ Our Representative Chuck [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46194

Well Name & No. KSM - Ranch #1-36 Test No. 3 Date 9-13-2012
 Company Baird oil company Elevation 2283 KB 2278 GL
 Address P.O. Box ~~2283~~ Logan KS, 67646
 Co. Rep / Geo. Rich Bell Rig WW-#8
 Location: Sec. 36 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3537 3580 Zone Tested LKC-0
 Anchor Length 43 Drill Pipe Run 3347 Mud Wt. 9.0
 Top Packer Depth 3532 Drill Collars Run 124 Vis 56
 Bottom Packer Depth 3537 Wt. Pipe Run 0 WL 8.0
 Total Depth 3580 Chlorides 4600 ppm System LCM 1.5#

Blow Description IF: weak blow, died 20 mins.
ISI: No blow back
FF: No blow
FSE: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 90 Gravity 1150 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>1871</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location _____
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>2:55</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>5:18</u>
(D) Initial Shut-In <u>317</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>8:00</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:23</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage _____	Comments <u>Never Left Location</u>
(G) Final Shut-In <u>294</u>	<input type="checkbox"/> Sampler _____	<u>Between DST #2 & DST #3</u>
(H) Final Hydrostatic <u>1763</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1475</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1475</u>	

Approved By _____ Our Representative check
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46195

4/10

Well Name & No. KSM - Ranch #1-36 Test No. 4 Date 9-14-2012
 Company Board oil company Elevation 2283 KB 2278 GL
 Address P.O. Box Logan KS 67646
 Co. Rep / Geo. Rich Bell Rig ww# 8
 Location: Sec. 36 Twp. 3E Rge. 22W Co. Morton State KS

Interval Tested 3735 3760 Zone Tested TKC marmaton
 Anchor Length 25 Drill Pipe Run 3621 Mud Wt. 9.1
 Top Packer Depth 3730 Drill Collars Run 124 Vis 59
 Bottom Packer Depth 3735 Wt. Pipe Run 0 WL 2.6
 Total Depth 3760 Chlorides 3200 ppm System LCM 1#
 Blow Description IF: Weak blow, Dried in 5 mins.
ISF: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>				

Rec Total 5 BHT 96.2 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1955</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>2:30</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>3:30</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>4:35</u>
(D) Initial Shut-In <u>55</u>	<input type="checkbox"/> Circ Sub	T-Pulled _____
(E) Second Initial Flow <u>1913</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>7:08</u>
(F) Second Final Flow _____	<input checked="" type="checkbox"/> Mileage <u>50x2 = 100x1.55</u> 155	Comments _____
(G) Final Shut-In _____	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic _____	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow _____	<input type="checkbox"/> Extra Recorder	Total <u>1550</u>
Final Shut-In _____	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1550</u>	

Approved By _____ Our Representative Chuck Hays

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