Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1073243

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 # 31569
Name: Bach, Jason dba Bach Oil Production
Address 1: PO BOX 723
Address 2:
City: ALMA State: NE Zip: 68920 + 0723
Contact Person: Jason Bach
Phone: (308) 928-8920
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Bob Petersen
Purchaser: Coffeyville Resources

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 #:

12/20/2011	12/30/2011	1/09/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-147-20657-00-00
Spot Description:
SE - SW - SE - SE Sec. 11 Twp. 1 S. R. 19 ☐ East ☑ West
300 Feet from ☐ North / ☑ South Line of Section
790 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Phillips
Lease Name: Jessup Unit Well #: 1
Field Name:
Producing Formation: LKC
Elevation: Ground: 2021 Kelly Bushing: 2026
Total Vertical Depth: 3510 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 223 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 3510
feet depth to: 0 w/ 600 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 16500 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated

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: 04/09/2012
☑ **Confidential Release Date:** 04/09/2014
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 04/09/2012

[redacted] 1073243

Operator Name: Bach, Jason dba Bach Oil Production Lease Name: Jessup Unit Well #: 1

Sec. 11 Twp. 1 S. R. 19 ☐ East ☑ West County: Phillips

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Dual Induction
Compensated Density
Micro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Stone Corral	1656	+370
Base Stone Corral	1678	+348
Heebner	3207	-1181
Toronto	3235	-1209
Lansing	3253	-1227
Base Kansas City	3470	-1444

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	20	223	COM	160	3% CC/2% Gel
Production	7.875	5.5	17	3505	AMD	600	10% Salt/2% Gel

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	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
4	"C" @ 3288'-3292'	600 gal. 15% MCA; retreat 1000 gal. 20% NEFE	
4	"D" @ 3303'-3305'	600 gal. 15% MCA; retreat 1000 gal. 20% NEFE	
4	"I" @ 3402'-3406'	300 gal. 15% MCA	

TUBING RECORD: Size: 2 3/8" Set At: 3490' Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 1/15/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	50	0	35		36

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL: LKC

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

ALLIED
OIL & GAS SERVICES, LLC

24 S. Lincoln Street
P.O. Box 31
Russell, KS 67665-2906

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 129713
Invoice Date: Dec 21, 2011
Page: 1

Bill To:
Bach Oil Production R. R. #I Box 28 Phillipsburg, KS 67661

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Bach	Jessup Unit #1	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS2-01	Russell	Dec 21, 2011	1/20/12

Quantity	Item	Description	Unit Price	Amount
160.00	MAT	Class A Common	16.25	2,600.00
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
169.00	SER	Handling	2.25	380.25
115.00	SER	Mileage sks x mi x .11	18.59	2,137.85
1.00	SER	Surface	1,125.00	1,125.00
115.00	SER	Pump Truck Mileage	7.00	805.00
115.00	SER	Light Vehicle Mileage	4.00	460.00
1.00	CEMENTER	Glenn Ginther		
1.00	EQUIP OPER	Woody O'Neil		
1.00	OPER ASSIST	Robert Yakubovich		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

$ 165.06

ONLY IF PAID ON OR BEFORE
Jan 15, 2012

Subtotal	7,921.05
Sales Tax	204.88
Total Invoice Amount	8,125.93
Payment/Credit Applied	
TOTAL	**8,125.93**

ALLIED CEMENTING CO., LLC. 038222

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell KS.

DATE 12-21-2011	SEC. 11	TWP. 1S	RANGE 19W	CALLED OUT	ON LOCATION	JOB START 3:00 PM	JOB FINISH 2:30PM
LEASE Jessup	WELL # UNIT #1		LOCATION Hillsboro, KS, 18N 3W 1 1/4 S 1/4 to INTO			COUNTY Phillips	STATE Kansas
OLD OR (NEW) (Circle one)							

CONTRACTOR Murfin Drlg. Rig #16
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 223'
CASING SIZE 8 5/8 New DEPTH 222'
TUBING SIZE 23 # CSG DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 13 1/4 BBL

OWNER

EQUIPMENT

PUMP TRUCK CEMENTER Glenn
417 HELPER Woody
BULK TRUCK
378 DRIVER Bob Y.
BULK TRUCK
DRIVER

CEMENT

AMOUNT ORDERED 160 sx Comm. 3% cc 2% Gel

COMMON	160 SK	@ 16.25	2600.00
POZMIX		@	
GEL	3 SK	@ 21.25	63.75
CHLORIDE	6 SK	@ 58.20	349.20
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	169	@ 2.25	380.25
MILEAGE	115 Sx/Mile	@ 11¢	2137.85
		TOTAL	5531.05

REMARKS:

Ran 5 New JTS of 8 5/8 CSG. Set @ 222, Reached Circulation & Cement w/ 160 sx comm. 3% CC + 2% Gel, Displaced 13 1/4 BBL H2O & Shut In @ 250#. Cement Did Circulate To Surface, Thanks

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			1125.00
EXTRA FOOTAGE		@	
MILEAGE	115 MV	@ 7.00	805.00
MANIFOLD		@	
	LV 115	@ 4.00	460.00
		@	
		TOTAL	2390.00

CHARGE TO: Bach Oil Co.
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
		TOTAL	

SALES TAX (If Any)
TOTAL CHARGES 7921.05
DISCOUNT IF PAID IN 30 DAYS

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME
SIGNATURE

ALLIED
OIL & GAS SERVICES, LLC

PO Box 470308
Fort Worth, TX 76147

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 129765
Invoice Date: Dec 30, 2011
Page: 1

Bill To:

Bach Oil Production
R. R. #I Box 28
Phillipsburg, KS 67661

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Bach	Jessup Unit #1	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS2-02	Russell	Dec 30, 2011	1/29/12

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	16.25	2,437.50
3.00	MAT	Gel	21.25	63.75
450.00	MAT	AMD	23.55	10,597.50
400.00	MAT	Gilsonite	0.89	356.00
7.00	MAT	Salt	23.95	167.65
618.00	SER	Handling	2.25	1,390.50
80.00	SER	Mileage sks x mi x .11	67.98	5,438.40
1.00	SER	Production String	2,225.00	2,225.00
80.00	SER	Pump Truck Mileage	7.00	560.00
80.00	SER	Light Vehicle Mileage	4.00	320.00
1.00	EQP	5.5 Float Shoe	381.00	381.00
1.00	EQP	5.5 Latch Down Plug assemby	194.00	194.00
10.00	EQP	5.5 Centralizer	34.00	340.00
4.00	EQP	5.5 Basket	236.00	944.00
1.00	CEMENTER	Glenn Ginther		
1.00	EQUIP OPER	Ron Bennett		
1.00	OPER ASSIST	Cody Hoss		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

$ 6978.58

ONLY IF PAID ON OR BEFORE

Jan 24, 2012

Subtotal	25,415.30
Sales Tax	1,052.74
Total Invoice Amount	26,468.04
Payment/Credit Applied	
TOTAL	**26,468.04**

ALLIED CEMENTING CO., LLC. 034528

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell KS,

DATE 12-30-2011	SEC. 11	TWP. 1 S	RANGE 9 W	CALLED OUT	ON LOCATION	JOB START 6:30 PM	JOB FINISH 7:00PM
LEASE Jessup	WELL # UNIT #1	LOCATION Speed Ks. & Hwy 36 JCT 12 N 1/2 W & N INTO				COUNTY Phillips	STATE Kansas
OLD OR NEW (Circle one)							

CONTRACTOR Murfin Drlg. Rig #16
TYPE OF JOB Production String
HOLE SIZE 7 7/8 T.D. 3510
CASING SIZE 5 1/2 New DEPTH 3505
TUBING SIZE 17# CSG DEPTH
DRILL PIPE DEPTH
TOOL Latch Down Plug Assy DEPTH 3494
PRES. MAX 2000# MINIMUM 1500#
MEAS. LINE SHOE JOINT 11
CEMENT LEFT IN CSG. 11'
PERFS.
DISPLACEMENT 81 1/4 BBL

EQUIPMENT

PUMP TRUCK CEMENTER Glenn # 409 HELPER Todd
BULK TRUCK # 481 DRIVER Ron
BULK TRUCK # 378 DRIVER Cody

OWNER

CEMENT
AMOUNT ORDERED 450 sx AmD. (Top) 150 sx 60/40 10% Salt, 2% Gel, 5# Gilsonite/per sx, 500 Gal WFR-2 mud Flush

COMMON	150 SX	@ 16.25	2437.50
POZMIX		@	
GEL	3 SX	@ 21.25	63.75
CHLORIDE		@	
ASC		@	
AmD 450 sx @		@ 23.55	10597.50
Gilsonite	400 lb	@ .89	356.00
SALT	7 SX	@ 23.95	167.65
		@	
		@	
		@	
		@	
		@	
HANDLING	618	@ 2.25	1390.50
MILEAGE	80 x 618 x .11		5438.40
		TOTAL	20451.30

REMARKS:

Ran 85 JTS of 17# CSG (5 1/2) Set @ 3505 Circulate on Bottom 1 1/4 HR. Pump WFR-2 Flush, + 450 sx AmD. Followed By 150 sx 60/40 10% Salt, 2% Gel, 5# Gilsonite, Close Line, Release Latch Dn Plug, + Displace 81 1/4 BBL H2O, Land Plug @ 2000# Release & (Held). 30 sx @ Rat Hole 15 sx @ Mouse hole. THANKS

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			2225.00
EXTRA FOOTAGE		@	
MILEAGE	80 HV	@ 7.00	560.00
MANIFOLD		@	
	LV 80	@ 4.00	320.00
		@	
		TOTAL	3105.00

CHARGE TO: Jason Bloch
STREET
CITY STATE ZIP

Cement Did Circulate To Surface, Put Approx 25 sx Into Pit. Thanks Cementer

PLUG & FLOAT EQUIPMENT (WEATHERFORD)

Float Shoe			381.00
Latch Down Plug Assy		@	194.00
10 Centralizers		@ 34.00	340.00
4 Baskets		@ 236.00	944.00
		@	
		@	
		TOTAL	1859.00

SALES TAX (If Any)
TOTAL CHARGES 25415.30
DISCOUNT IF PAID IN 30 DAYS

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Dale Forland
SIGNATURE Dale Forland

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

BACH OIL PRODUCTION

WELL: JESSUP UNIT#1

LOC.: 300' FSL & 790' FEL
SEC. 11-1-19W
PHILLIPS COUNTY, KANSAS
API: 15-147-20657-00-00

DRILLING CONTR.: MURFIN RIG #16
SPUD: 12-20-11 COMP: 12-30-11
MUD UP: 2800' TYPE MUD: CHEM.
DRILL TIME: 2900 to' RTD
RTD: 3510' LTD: 3512
SAMPLES SAVED: 2950'-RTD
GEOLOGIST: ROBERT J. PETERSEN

ELEVATION

KB: 2026
GL: 2021
LOG MEASURED
FROM: KB

SURFACE CASING

20# 8 5/8 "
Casing set @ 223
w/160 SX

PRODUCTION CASING

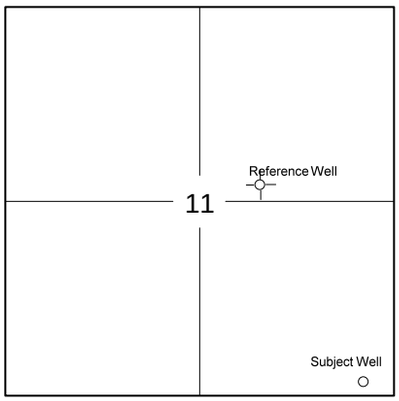
5 1/2" casing set

WELL LOG SURVEYS

DIL/CDL/MICRO

ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POSITION
Stone Corral	1656	+370	+3
Base Stone Corral	1678	+348	+6
Heebner	3207	-1181	+15
Toronto	3235	-1209	+14
Lansing	3253	-1227	+13
Base Kansas City	3470	-1444	+15



REFERENCE WELL:

Musgrove
Steenis #1
SE SW NE
11-1-19W

REMARKS AND RECOMMENDATIONS

Prodcution casing was set to further test this well.

DAILY REPORT @7:00 A.M.

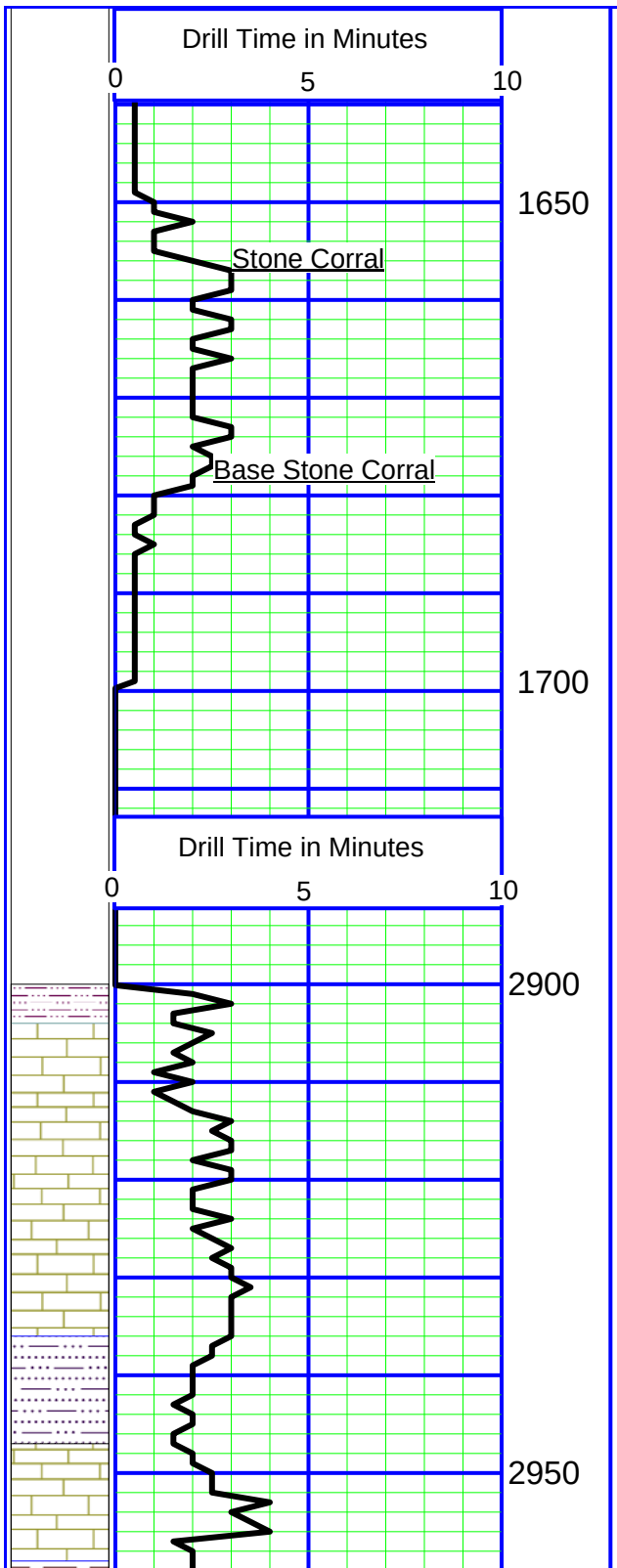
12-19-11 MIRU
12-20-11 SPUD
12-22-11 223' WOC
12-23-11 2530'
Christmas
12-26-11 2640'
12-27-11 3180'
12-28-11 3323'

Respectfully submitted,

Robert J. Petersen

Robert J. Petersen

12-29-11 3390'
12-30-11 3510' RTD



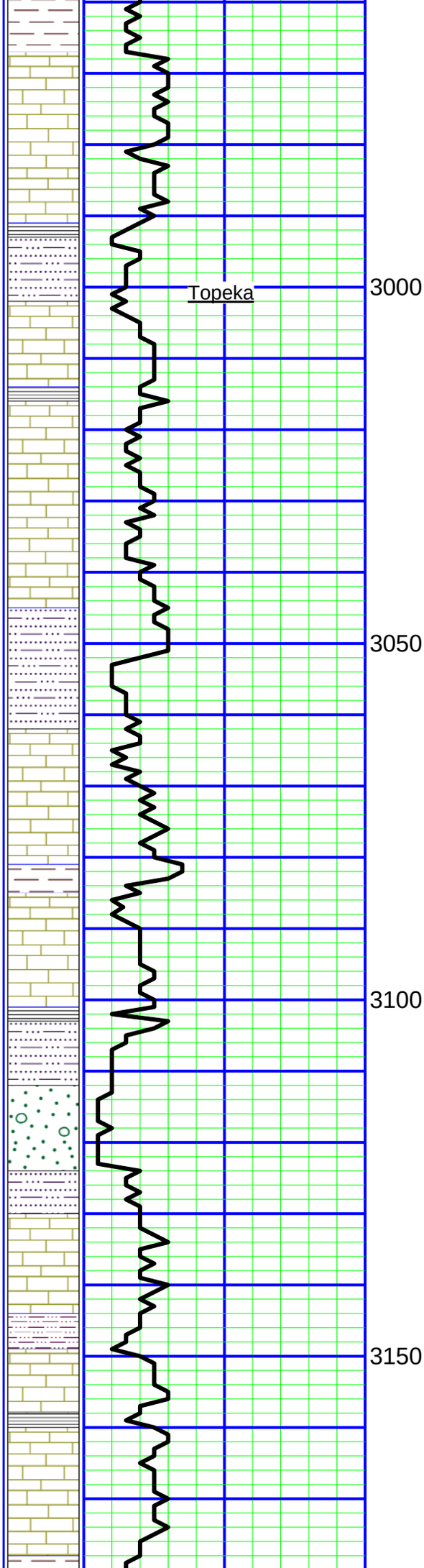
Strap @2640'
0.09 Short

SAMPLE DESCRIPTION

LS; Lt gray/gray, mottled, foss + SS; Gray, very fine grained, silty, hard (2950)

LS; Cream/lt gray, fine crystalline, sl dolo, foss (2960)

LS; Cream/lt gray, fine crystalline, foss + SS; Gray/tan, fine grained + SH; Red (2970)



LS; Lt gray, fine crystalline, dolo (2980)

LS; Cream/lt gray mottle, fine crystalline to dense, sl chalky (2990)

LS: Gray, dense, sl cherty/chalky (3000)

SH; Black (3010)

SH; Red/gray (3010)

LS; Gray, fine crystalline, foss, mottled (3010)

LS; Cream/lt gray, fine crystalline, sl foss, dolo, chalky (3020)

LS; Cream/lt gray, fine crystalline, foss w/moldic por + SH; Red/gray (3030)

LS; Cream/lt gray, fine crystalline, foss, cherty, chalky (3040)

LS; Cream/tan, fine crystalline, foss, cherty, trace stain (3050)

SH; Red + SS; Gray, hard (3060)

SH; Red, silty-sandy (3070)

LS; Cream/gray, fine crystalline, foss, trace dead stain (3080)

LS; Cream, fine crystalline, dolomitic, cherty (3090)

LS; Cream, fine crystalline, foss, chalky (3100)

LS; Cream, fine crystalline, foss-granularm chalky + SH; Red, silty (3110)

SH; Black (3120)

SS; Cream, very fine grained, angular (3140)

SH; Red, silty-sandy (3140)

LS; Tan/cream, fine crystalline, foss (3140)

LS; Cream/white, fine crystalline, foss, chalky (3150)

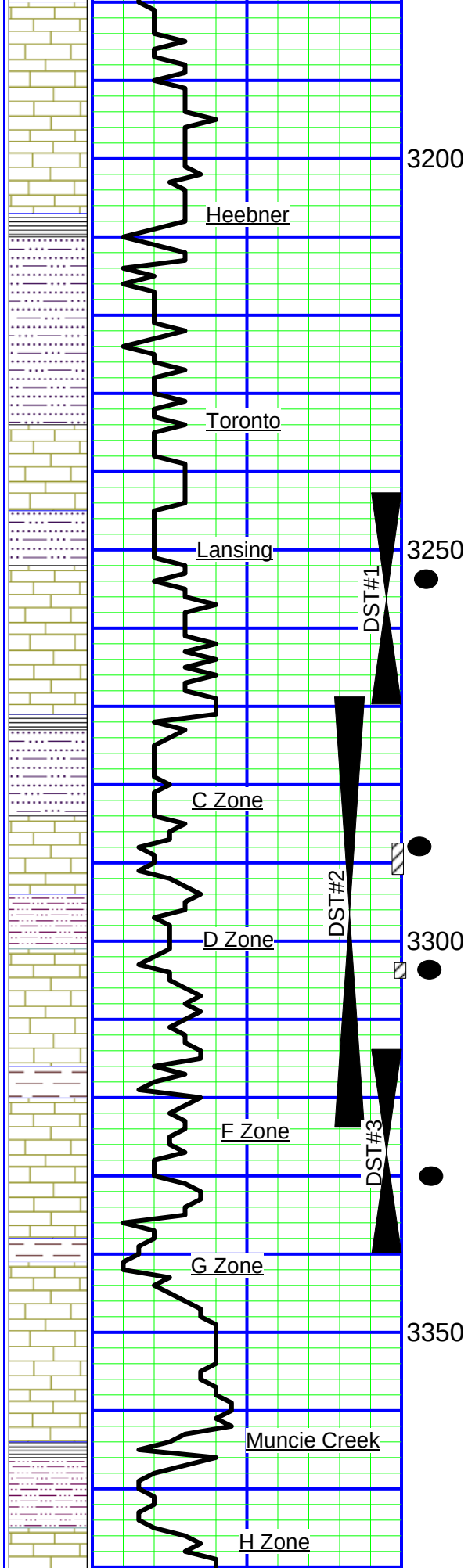
SH; Red, silty (3150)

SH; Gray (3160)

LS; Cream, fine crystalline, foss, subgranular + SH; Black (3170)

LS; Cream/white, fine crystalline, foss, subgranular w/trace stain (3180)

SH; Red, silty-sandy (3190)



LS; Cream, fine crystalline, foss, chalk (90)

LS; Cream/lt gray, fine crystalline to dense, chalky (3200)

LS; Cream/lt gray, fine crystalline, foss, chalky (3200/30")

SH; Black (flood 3220)
LS; Gray, dense, cherty (3220)

SH; Red, silty-sandy (3220-3230)

DST#1
3243-3270'
45-45-45-45
IF: Weak built to 2 1/4"
FF: Dead (plugging on chart)
Recovered: 15' Mud w/oil spots
SIP: 885-745#
FP: 17-24/na-29#

LS; Cream, fine crystalline, foss, sl dolo, chery, chalky sl pyritic (3245/20")

LS; Lt gray, foss, dense (3250)

SH; Red, silty-sandy (3260)

LS; Cream, fine crystalline, ool-granular w/fair to good intergran por, sfo, odor (3260) increase sfo w/patchy to full sat (gold) on dry (3270)

LS; Cream, fine crystalline to dense, sl ool, chalky (3270)

LS; Cream, dense, chalky (3270 20-40")

SH; Black (3290)

SH; Red/gray, silty-sandy (3290)

DST#2
3268-3323'
30-45-30-60
IFP: B.O.B. in 8.5 min.
ISI: 1/2" Blowback
FFP: B.O.B. in 13 min.
FSI: Surf built to 1"
Recovered:
60' GIP
45' FO
120' SOCWM -15%O 25%W
120' VSOCMW 1%O 89% W
SIP: 1090-1089#
FP: 45-108/119-164#

LS; Cream, fine crystalline, ool-granular, cherty (gray-foss-angular) with fair to good intergran por, gsfo, odor, even med to dark stain on dry (3290/20")

LS; Cream, fine crystalline, chalky, trace moldic por, ssfo (3300)

SH; Maroon/gray, silty (3300)

LS; Cream, fine crystalline to dense, foss, w/fair moldic por, cherty, sfo (bleeding), odor, dark full sat to patchy stain on dry (3310)

LS; Cream, fine crystalline, sl foss, chalky-cherty (gray/orange, foss) sl dolo (3315-3315/20")

SH; Gray, soft (3315/20") + SH; Gray/maroon, silty (3323)
LS; Cream/gray, medium crystalline, foss, sl chalky w/ppt red mottle (3323/20")
LS: Cream, fine crystalline, chert, ool-granular, ssfo (3323/40")
SH; Red/gray (3323/40")

SH; Gray,silty-sandy + LS; Cream, fine crystalline, foss (3330)
LS; Cream, fine crystalline, foss, subgranular to granular w/fair moldic por, sfo, odor, medium brown full saturation on dry (3340)
SH; Gray, gummy (3340/20")
LS; Cream, fine crystalline to dense, chalky, cherty (3340/40")
LS; Cream, fine crystalline, sl foss, very chalky-soft + SH; Black (3350)

DST#3
3314-3340'
30-45-15-30
IFP: B.O.B. in 2 min.
FFP: B.O.B. in 3.5 min
no return blow back on SI
Recovered:
825' Wuddy water w/ oil scum
SIP: 1071-1056#
FP: 48-314/328-422#

LS; Cream/white, fine crystalline, chalky + SH; Black (3360)

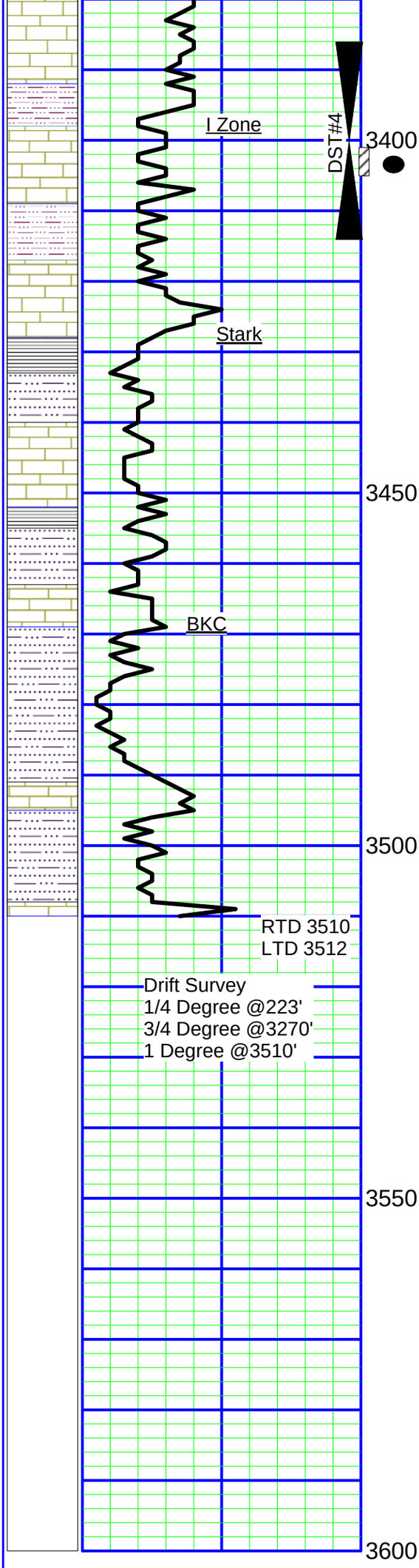
LS; Gray/tan, dense, foss, cherty + SH; Gray, silty (3370)

SH; Black (3380)

SH; Maroon/gray, silty-sandy (3380)

LS; Cream/gray, fine crystalline to dense, chalky, cherty(gray/angular/foss) (3390)

DST#4
3386-3414'
60-45-45-45
IFP: Weak blow built to 2 1/2"
FFP: Intermittent surface blow



-plugging on chart
Recoverd:
10' Free Oil
10' HOCM
SIP: 993-909#
FP: 16-21/22-24#

LS; Gray, fine crystalline, chalky, cherty (3400)

SH; Dark gray/red, silty (3400)

LS; Cream, dense, foss-in part, w/ppt moldic por, faint odor (trace) (3410)
LS; Cream, dense, foss -subgranular w/ppt intergranular / moldic por, gsfo, heavy odor, gas bubbles, dark sat on dry (3414)
LS; Cream/lt gray, fine crystalline, sl chalky, cherty w/ tr vug por (3414/20")
SH; Black (3414/40")
SH; Red/gray (3414/40")
SH; Maroon (3420)

LS; Cream, fine crystalline to dense, trace fracture por, chalky, trace stain (3430)

SH; Black (trace 3440) SH; Red (3440 flood)

LS; Lt gray, fine crystalline to dense, sl chalky (flood 3450)

SH; Gray/brown, silty, sandy (3460)

LS; Cream/white, fine crystalline, ool, chalky, cherty (3460)

SH; Black/SH; Red/gray, silty-sandy, sand -gray very fine grained (3470)

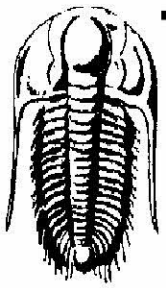
LS; Cream w/yellow mineral stain, fine crystalline, ool, chalky, w/trace spicular chert (3480/flood 3490)

SH; Maroon/gray, silty-sandy (3490)

+ SD; Gray/brown, silty (3500)

LS; Cream/lt gray, fine crystalline, chalky (3500)

SH; Gray/red, silt-sandy, sand-brown, fine grained, silty + LS; Cream/lt gray, fine crystalline to dense, foss (3510)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bach Oil Company**

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

#1 Jessup Unit

11-1s-19w Phillips,KS

Start Date: 2011.12.27 @ 16:29:35
End Date: 2011.12.27 @ 22:44:20
Job Ticket #: 44708 DST #: 1

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

Printed: 2012.02.06 @ 08:25:29

DRILL STEM TEST REPORT

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44708 **DST#: 1**

Test Start: 2011.12.27 @ 16:29:35

GENERAL INFORMATION:

Formation: **A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:07:35
Time Test Ended: 22:44:20

Test Type: Conventional Bottom Hole (Initial)
Tester: Jason McLemore
Unit No: 54

Interval: 3243.00 ft (KB) To 3270.00 ft (KB) (TVD)
Total Depth: 3270.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

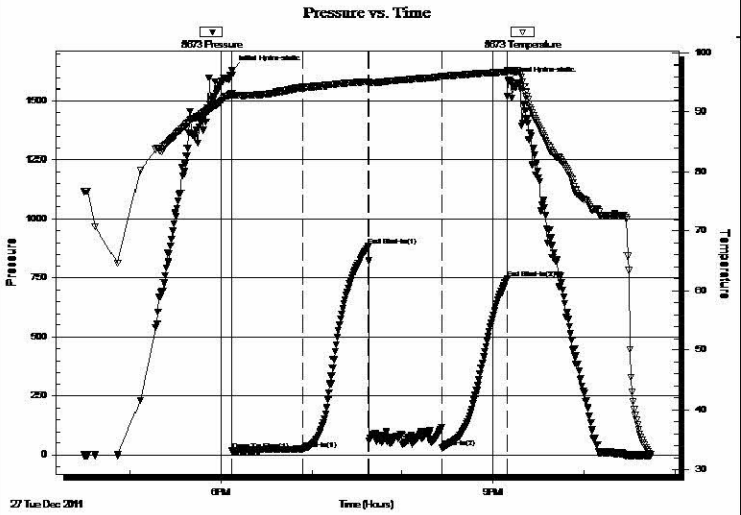
Reference Elevations: 2026.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8673 **Inside**

Press@RunDepth: 29.21 psig @ 3247.00 ft (KB)
Start Date: 2011.12.27 End Date: 2011.12.27
Start Time: 16:29:37 End Time: 22:44:20

Capacity: 8000.00 psig
Last Calib.: 2011.12.27
Time On Btm: 2011.12.27 @ 18:07:20
Time Off Btm: 2011.12.27 @ 21:09:50

TEST COMMENT: IFP-Weak Blow , Built to 2-1/4"
ISI-Dead
FFP-Dead
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.59	93.28	Initial Hydro-static
1	16.80	92.80	Open To Flow (1)
48	24.10	94.15	Shut-In(1)
91	884.93	95.10	End Shut-In(1)
91	61.61	94.82	Open To Flow (2)
139	29.21	95.99	Shut-In(2)
182	744.90	96.75	End Shut-In(2)
183	1585.26	96.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud W/Oil Specks	0.07

Gas Rates

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

DRILL STEM TEST REPORT

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44708 **DST#: 1**

Test Start: 2011.12.27 @ 16:29:35

GENERAL INFORMATION:

Formation: **A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:07:35
Time Test Ended: 22:44:20

Test Type: Conventional Bottom Hole (Initial)
Tester: Jason McLemore
Unit No: 54

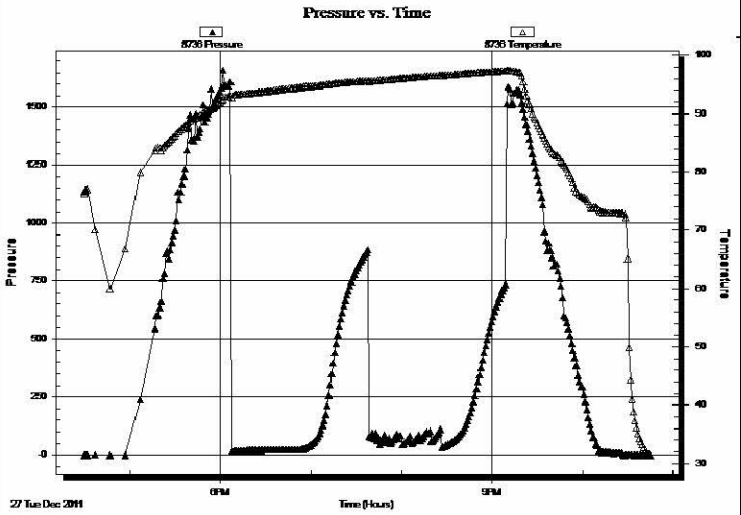
Interval: 3243.00 ft (KB) To 3270.00 ft (KB) (TVD)
Total Depth: 3270.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2026.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8736 **Outside**
Press@RunDepth: psig @ 3247.00 ft (KB)
Start Date: 2011.12.27 End Date: 2011.12.27
Start Time: 16:29:40 End Time: 22:44:34

Capacity: 8000.00 psig
Last Calib.: 2011.12.27
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Weak Blow , Built to 2-1/4"
ISI-Dead
FFP-Dead
FSI-Dead



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud W/Oil Specks	0.07

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44708 **DST#: 1**

Test Start: 2011.12.27 @ 16:29:35

Tool Information

Drill Pipe:	Length:	3199.00 ft	Diameter:	3.80 inches	Volume:	44.87 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	
					Total Volume:	45.02 bbl	

Drill Pipe Above KB:	14.00 ft
Depth to Top Packer:	3243.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	27.00 ft
Tool Length:	55.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		45000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	44000.00 lb
	Final	44000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3216.00		
Shut In Tool	5.00			3221.00		
Hydraulic tool	5.00			3226.00		
Jars	5.00			3231.00		
Safety Joint	2.00			3233.00		
Packer	5.00			3238.00	28.00	Bottom Of Top Packer
Packer	5.00			3243.00		
Stubb	1.00			3244.00		
Perforations	3.00			3247.00		
Recorder	0.00	8673	Inside	3247.00		
Recorder	0.00	8736	Outside	3247.00		
Perforations	20.00			3267.00		
Bullnose	3.00			3270.00	27.00	Bottom Packers & Anchor
Total Tool Length:	**55.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44708 **DST#: 1**

Test Start: 2011.12.27 @ 16:29:35

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	inches				

Recovery Information

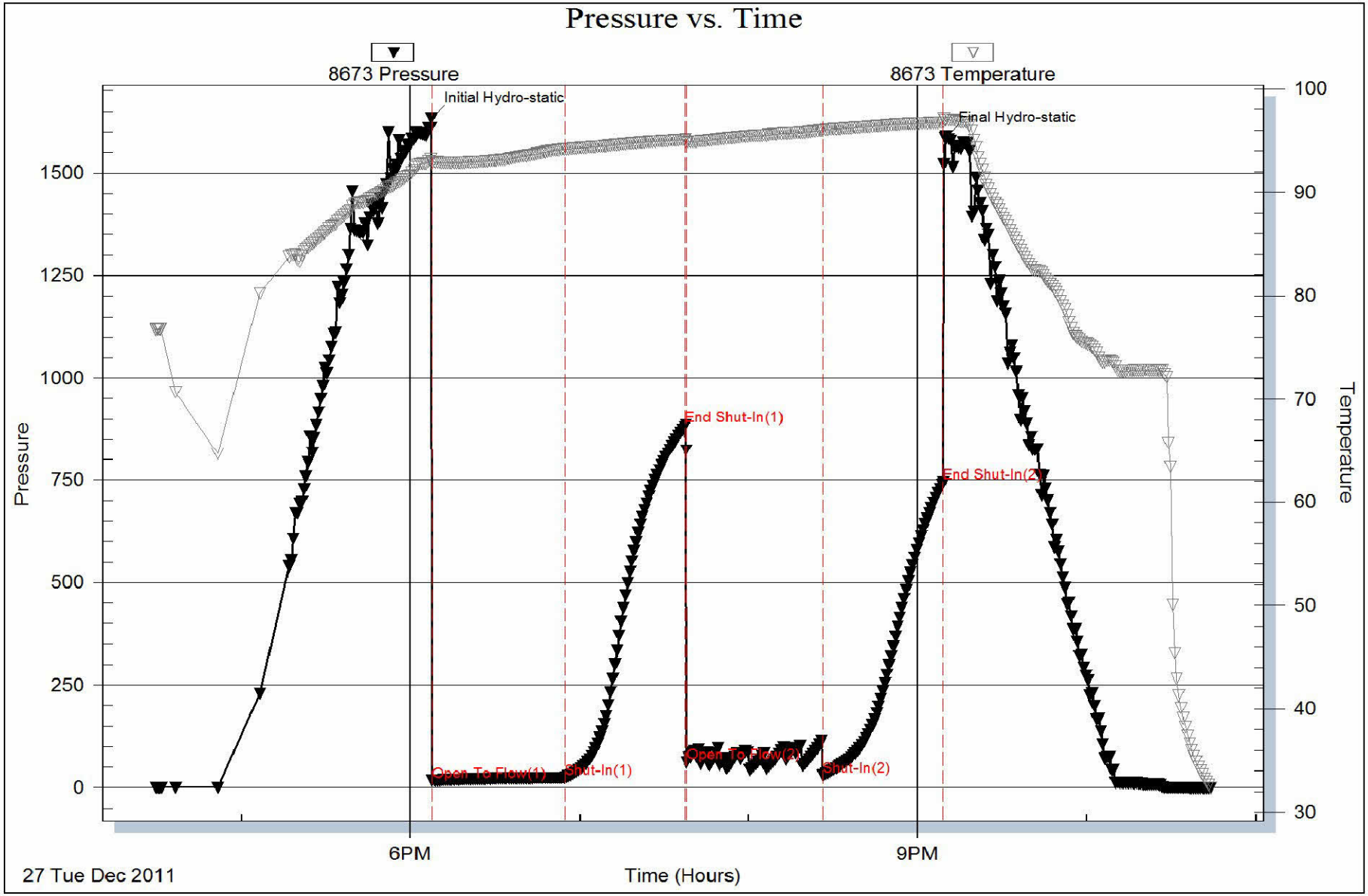
Recovery Table

Length ft	Description	Volume bbl
15.00	Mud W/Oil Specks	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

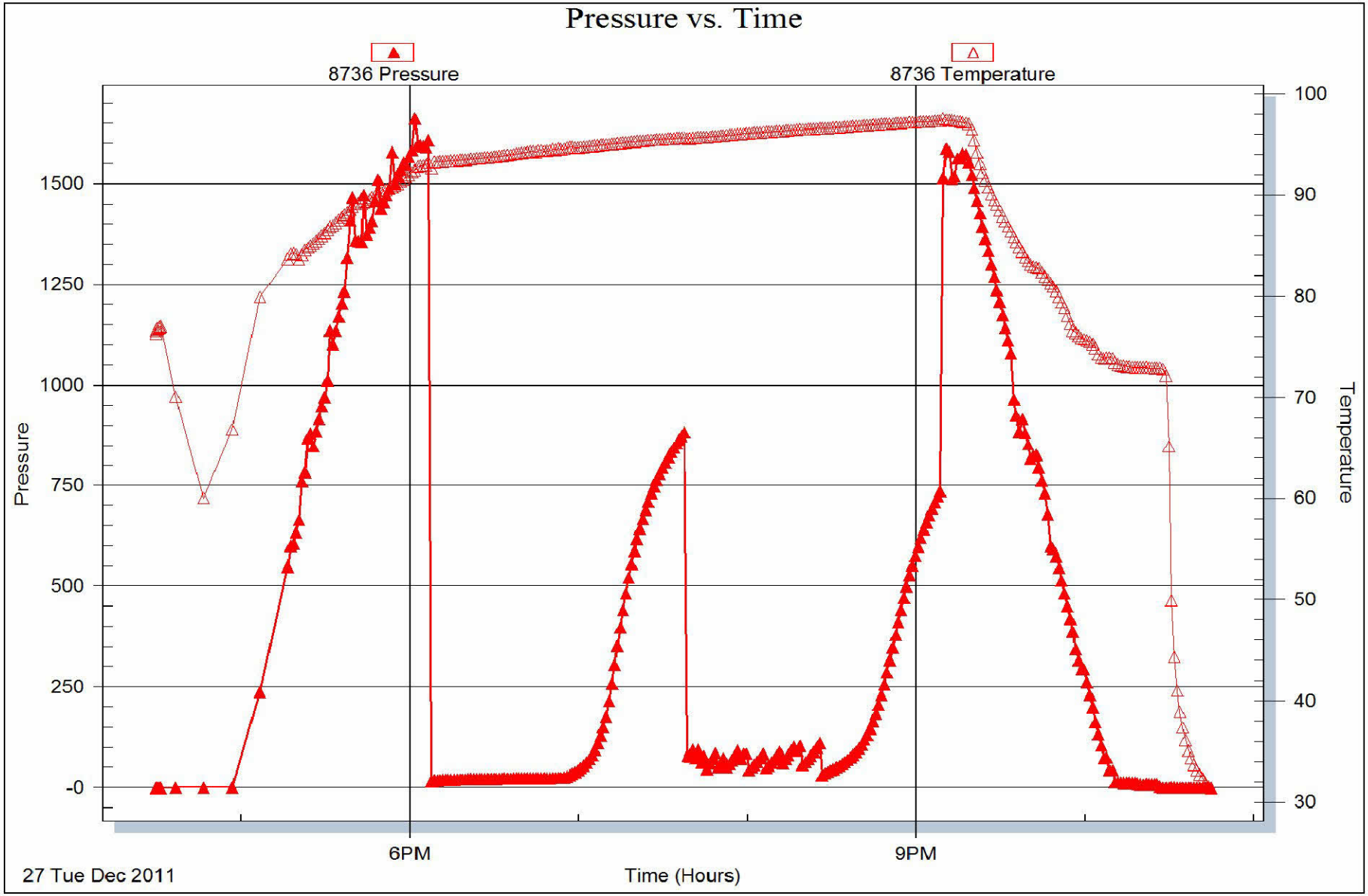
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8673 **Inside** Bach Oil Company #1 Jessup Unit DST Test Number: 1



Trilobite Testing, Inc Ref. No: 44708 Printed: 2012.02.06 @ 08:25:34

Serial #: 8736 **Outside** Bach Oil Company #1 Jessup Unit DST Test Number: 1



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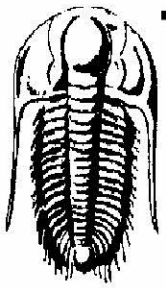


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bach Oil Company**

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

#1 Jessup Unit

11-1s-19w Phillips,KS

Start Date: 2011.12.28 @ 07:21:39
End Date: 2011.12.28 @ 14:49:24
Job Ticket #: 4479 DST #: 2

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

Printed: 2012.02.06 @ 08:26:44

DRILL STEM TEST REPORT

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 4479 **DST#: 2**

Test Start: 2011.12.28 @ 07:21:39

GENERAL INFORMATION:

Formation: **B-E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:50:24
Time Test Ended: 14:49:24

Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54

Interval: 3268.00 ft (KB) To 3323.00 ft (KB) (TVD)
Total Depth: 3323.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

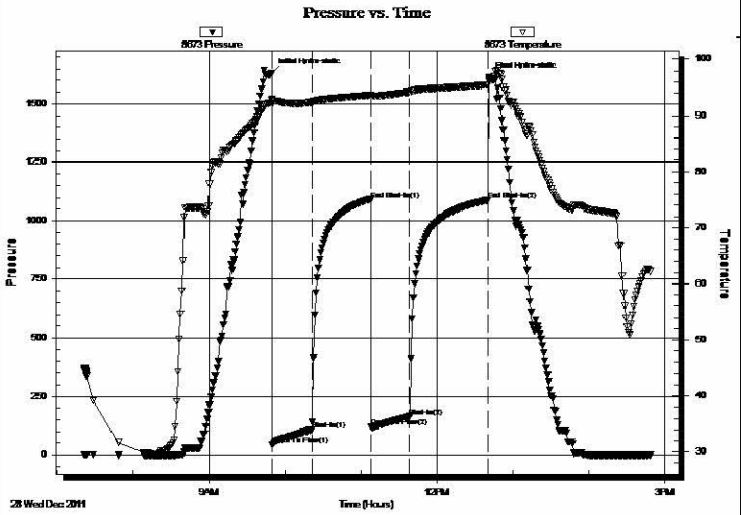
Reference Elevations: 2026.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8673 **Inside**

Press@RunDepth: 163.77 psig @ 3305.00 ft (KB)
Start Date: 2011.12.28 End Date: 2011.12.28
Start Time: 07:21:41 End Time: 14:49:24

Capacity: 8000.00 psig
Last Calib.: 2011.12.28
Time On Btm: 2011.12.28 @ 09:50:09
Time Off Btm: 2011.12.28 @ 12:41:24

TEST COMMENT: IFP-Good Blow ,BOB in 8-1/2 Min
ISI-Blow back Built to 1/2"
FFP-Good Blow , BOB in 13 Min.
FSI-Bow back Built to 1"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.79	92.88	Initial Hydro-static
1	44.88	92.14	Open To Flow (1)
32	107.80	92.36	Shut-In(1)
78	1089.87	93.65	End Shut-In(1)
79	119.26	93.39	Open To Flow (2)
109	163.77	94.15	Shut-In(2)
171	1089.33	95.48	End Shut-In(2)
172	1614.64	96.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSOCMW-1%O-89%W-10%M	1.41
120.00	SOCWM-15%O-25%W-60%M	1.68
45.00	Free Oil	0.63
0.00	60' Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 4479 **DST#: 2**

Test Start: 2011.12.28 @ 07:21:39

GENERAL INFORMATION:

Formation: **B-E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:50:24
Time Test Ended: 14:49:24

Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54

Interval: 3268.00 ft (KB) To 3323.00 ft (KB) (TVD)
Total Depth: 3323.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

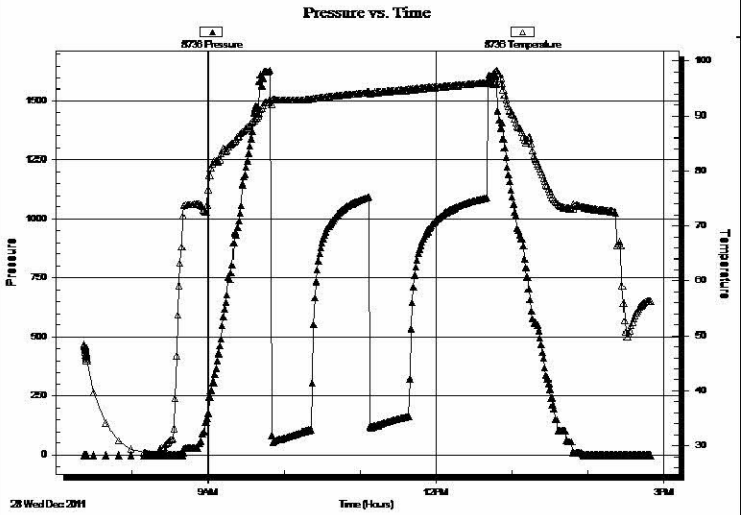
Reference Elevations: 2026.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8736 **Outside**

Press@RunDepth: psig @ 3305.00 ft (KB)
Start Date: 2011.12.28 End Date: 2011.12.28
Start Time: 07:22:27 End Time: 14:49:51

Capacity: 8000.00 psig
Last Calib.: 2011.12.28
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Good Blow ,BOB in 8-1/2 Min
ISI-Blow back Built to 1/2"
FFP-Good Blow , BOB in 13 Min.
FSI-Bow back Built to 1"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSOCMW-1%O-89%W-10%M	1.41
120.00	SOCWM-15%O-25%W-60%M	1.68
45.00	Free Oil	0.63
0.00	60' Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 4479 **DST#: 2**

Test Start: 2011.12.28 @ 07:21:39

Tool Information

Drill Pipe:	Length:	3232.00 ft	Diameter:	3.80 inches	Volume:	45.34 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	
					Total Volume:	45.49 bbl	

Drill Pipe Above KB:	22.00 ft
Depth to Top Packer:	3268.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	55.00 ft
Tool Length:	83.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2000.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	48000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	45000.00 lb
Final	46000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3241.00		
Shut In Tool	5.00			3246.00		
Hydraulic tool	5.00			3251.00		
Jars	5.00			3256.00		
Safety Joint	2.00			3258.00		
Packer	5.00			3263.00	28.00	Bottom Of Top Packer
Packer	5.00			3268.00		
Stubb	1.00			3269.00		
Perforations	3.00			3272.00		
Change Over Sub	1.00			3273.00		
Blank Spacing	31.00			3304.00		
Change Over Sub	1.00			3305.00		
Recorder	0.00	8673	Inside	3305.00		
Recorder	0.00	8736	Outside	3305.00		
Perforations	15.00			3320.00		
Bullnose	3.00			3323.00	55.00	Bottom Packers & Anchor
Total Tool Length:	**83.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 4479 **DST#: 2**

Test Start: 2011.12.28 @ 07:21:39

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	36 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	32000 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	inches				

Recovery Information

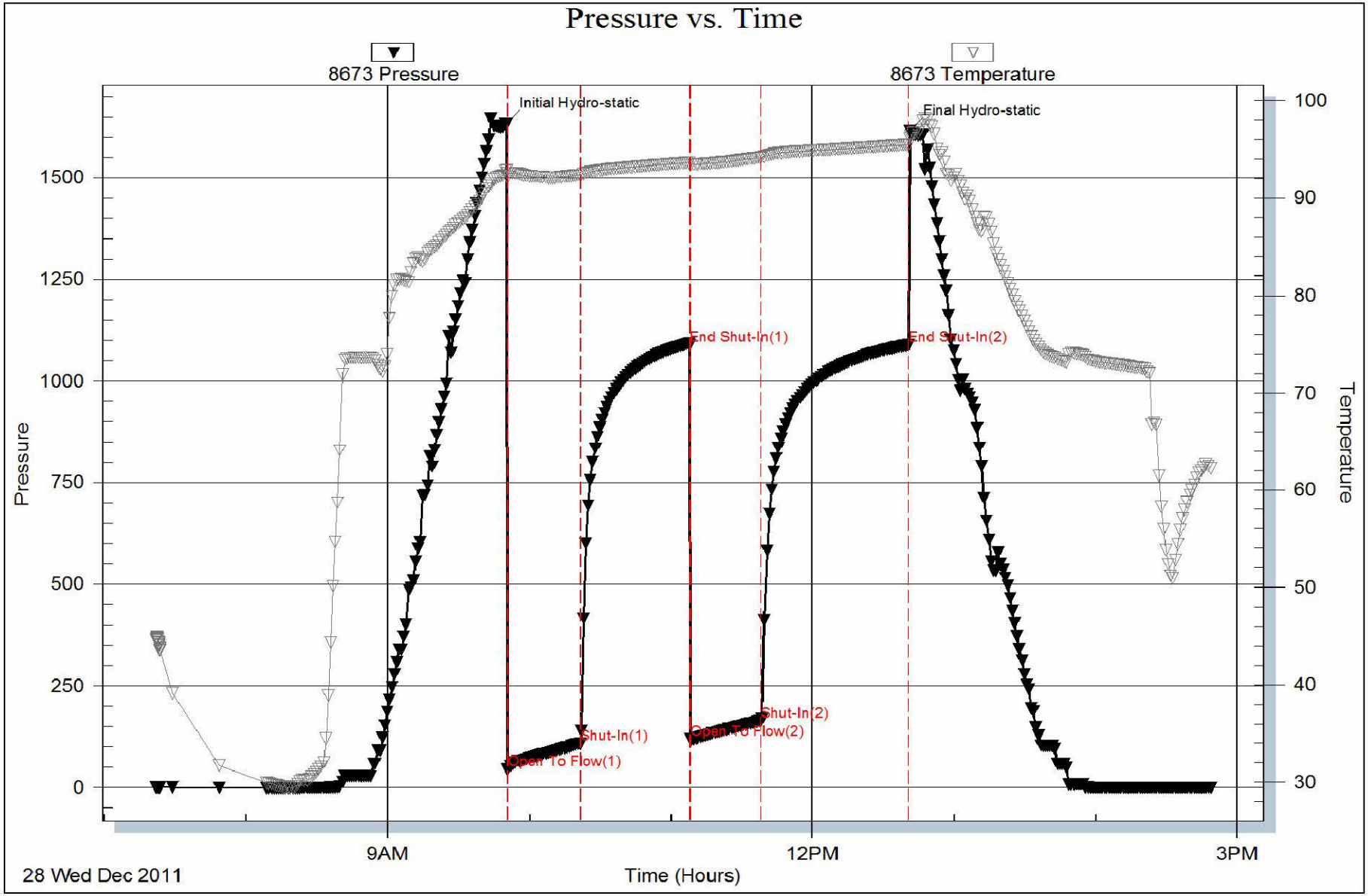
Recovery Table

Length ft	Description	Volume bbl
120.00	VSOCMW-1%O-89%W-10%M	1.410
120.00	SOCMW-15%O-25%W-60%M	1.683
45.00	Free Oil	0.631
0.00	60' Gas In Pipe	0.000

Total Length: 285.00 ft Total Volume: 3.724 bbl

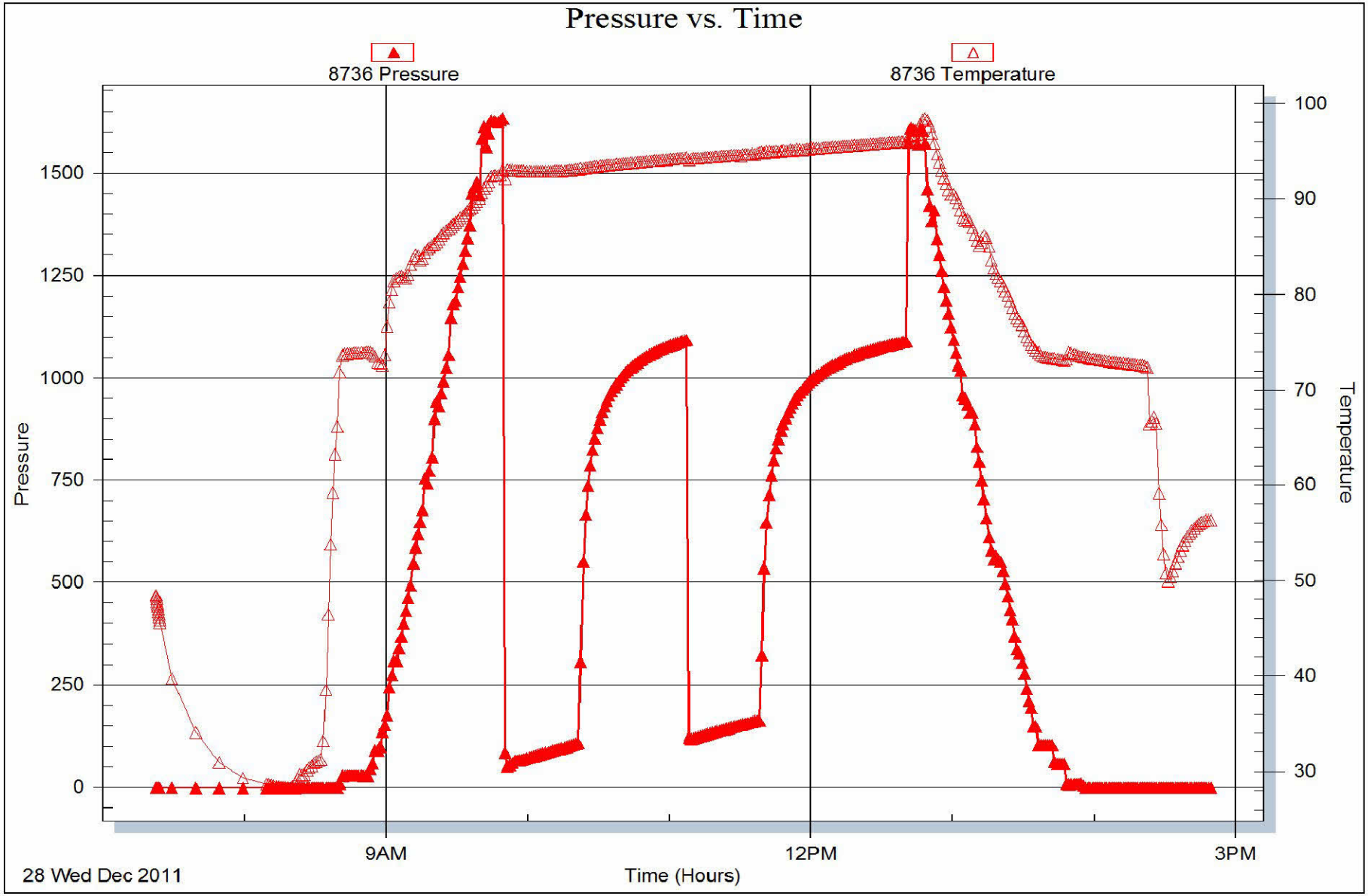
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8673 **Inside** Bach Oil Company #1 Jessup Unit DST Test Number: 2



Trilobite Testing, Inc Ref. No: 4479 Printed: 2012.02.06 @ 08:26:50

Serial #: 8736 **Outside** Bach Oil Company #1 Jessup Unit DST Test Number: 2



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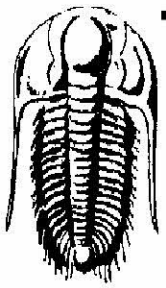


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bach Oil Company**

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

#1 Jessup Unit

11-1s-19w Phillips,KS

Start Date: 2011.12.28 @ 19:43:30
End Date: 2011.12.29 @ 01:47:15
Job Ticket #: 44710 DST #: 3

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

Printed: 2012.02.06 @ 08:28:36

DRILL STEM TEST REPORT

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44710 **DST#: 3**

Test Start: 2011.12.28 @ 19:43:30

GENERAL INFORMATION:

Formation: **F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:25:45
Time Test Ended: 01:47:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54

Interval: 2214.00 ft (KB) To 3340.00 ft (KB) (TVD)
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

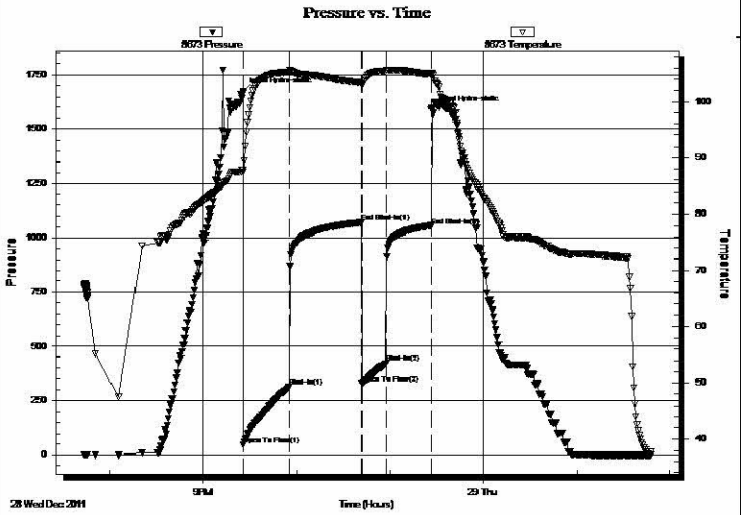
Reference Elevations: 2026.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8673 **Inside**

Press@RunDepth: 422.12 psig @ 3317.00 ft (KB)
Start Date: 2011.12.28 End Date: 2011.12.29
Start Time: 19:43:32 End Time: 01:47:15

Capacity: 8000.00 psig
Last Calib.: 2011.12.29
Time On Btm: 2011.12.28 @ 21:25:30
Time Off Btm: 2011.12.28 @ 23:26:45

TEST COMMENT: IFP-Strong, BOB in 2 Min.
ISI-Dead
FFP-Strong, BOB in 3-1/2 Min.
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.49	87.86	Initial Hydro-static
1	48.08	87.55	Open To Flow (1)
30	313.91	105.31	Shut-In(1)
76	1071.06	103.34	End Shut-In(1)
77	327.93	103.01	Open To Flow (2)
92	422.12	105.47	Shut-In(2)
121	1056.37	104.86	End Shut-In(2)
122	1588.35	104.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
825.00	Muddy Water W/Oil Scum 95%W-5%M	11.30

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44710 **DST#: 3**

Test Start: 2011.12.28 @ 19:43:30

GENERAL INFORMATION:

Formation: **F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:25:45
Time Test Ended: 01:47:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54

Interval: 2214.00 ft (KB) To 3340.00 ft (KB) (TVD)
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

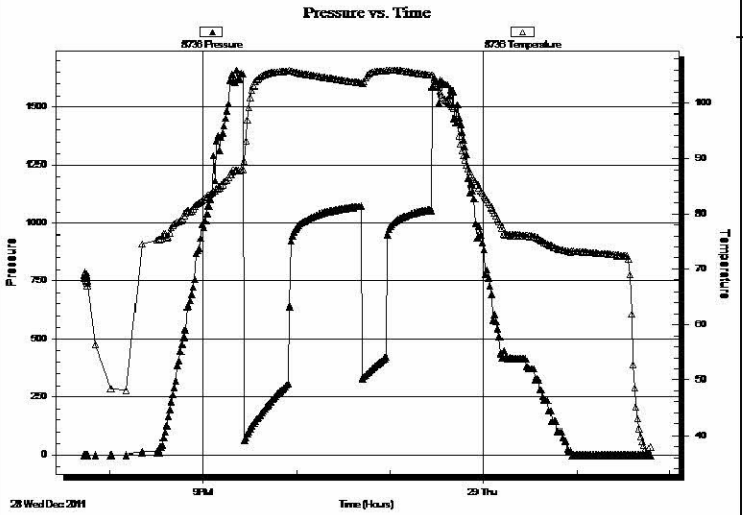
Reference Elevations: 2026.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8736 **Outside**

Press@RunDepth: psig @ 3317.00 ft (KB)
Start Date: 2011.12.28 End Date: 2011.12.29
Start Time: 19:43:20 End Time: 01:47:14

Capacity: 8000.00 psig
Last Calib.: 2011.12.29
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Strong, BOB in 2 Min.
ISI-Dead
FFP-Strong, BOB in 3-1/2 Min.
FSI-Dead



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
825.00	Muddy Water W/Oil Scum 95%W-5%M	11.30

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44710 **DST#: 3**

Test Start: 2011.12.28 @ 19:43:30

Tool Information

Drill Pipe:	Length:	3263.00 ft	Diameter:	3.80 inches	Volume:	45.77 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	
					Total Volume:	45.92 bbl	

Drill Pipe Above KB:	7.00 ft
Depth to Top Packer:	3314.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	26.00 ft
Tool Length:	54.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		50000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	44000.00 lb
	Final	48000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3287.00		
Shut In Tool	5.00			3292.00		
Hydraulic tool	5.00			3297.00		
Jars	5.00			3302.00		
Safety Joint	2.00			3304.00		
Packer	5.00			3309.00	28.00	Bottom Of Top Packer
Packer	5.00			3314.00		
Stubb	1.00			3315.00		
Perforations	2.00			3317.00		
Recorder	0.00	8673	Inside	3317.00		
Recorder	0.00	8736	Outside	3317.00		
Perforations	20.00			3337.00		
Bullnose	3.00			3340.00	26.00	Bottom Packers & Anchor
Total Tool Length:	**54.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44710 **DST#: 3**

Test Start: 2011.12.28 @ 19:43:30

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:	32000 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	inches				

Recovery Information

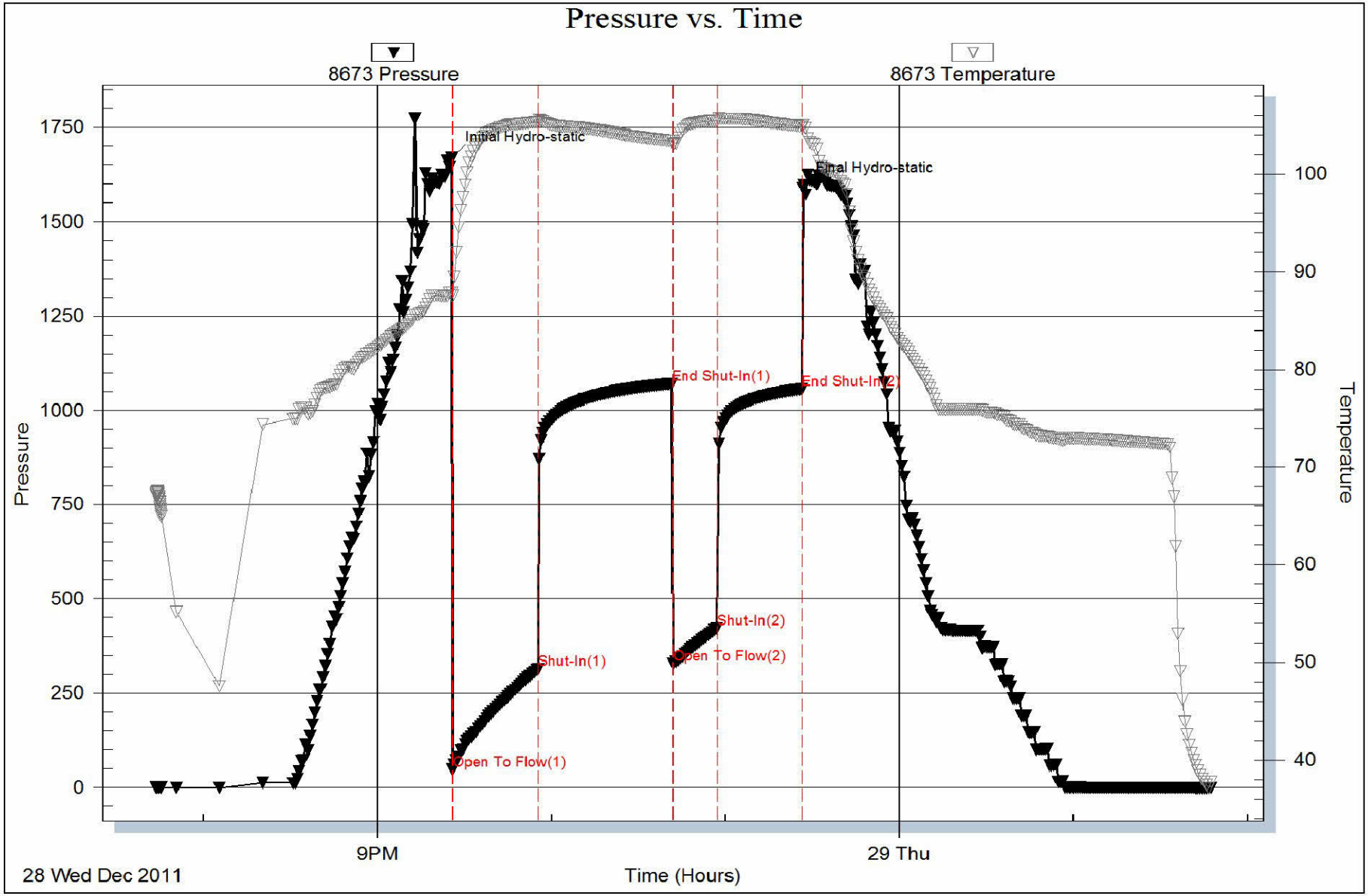
Recovery Table

Length ft	Description	Volume bbl
825.00	Muddy Water W/Oil Scum 95%W-5%M	11.299

Total Length: 825.00 ft Total Volume: 11.299 bbl

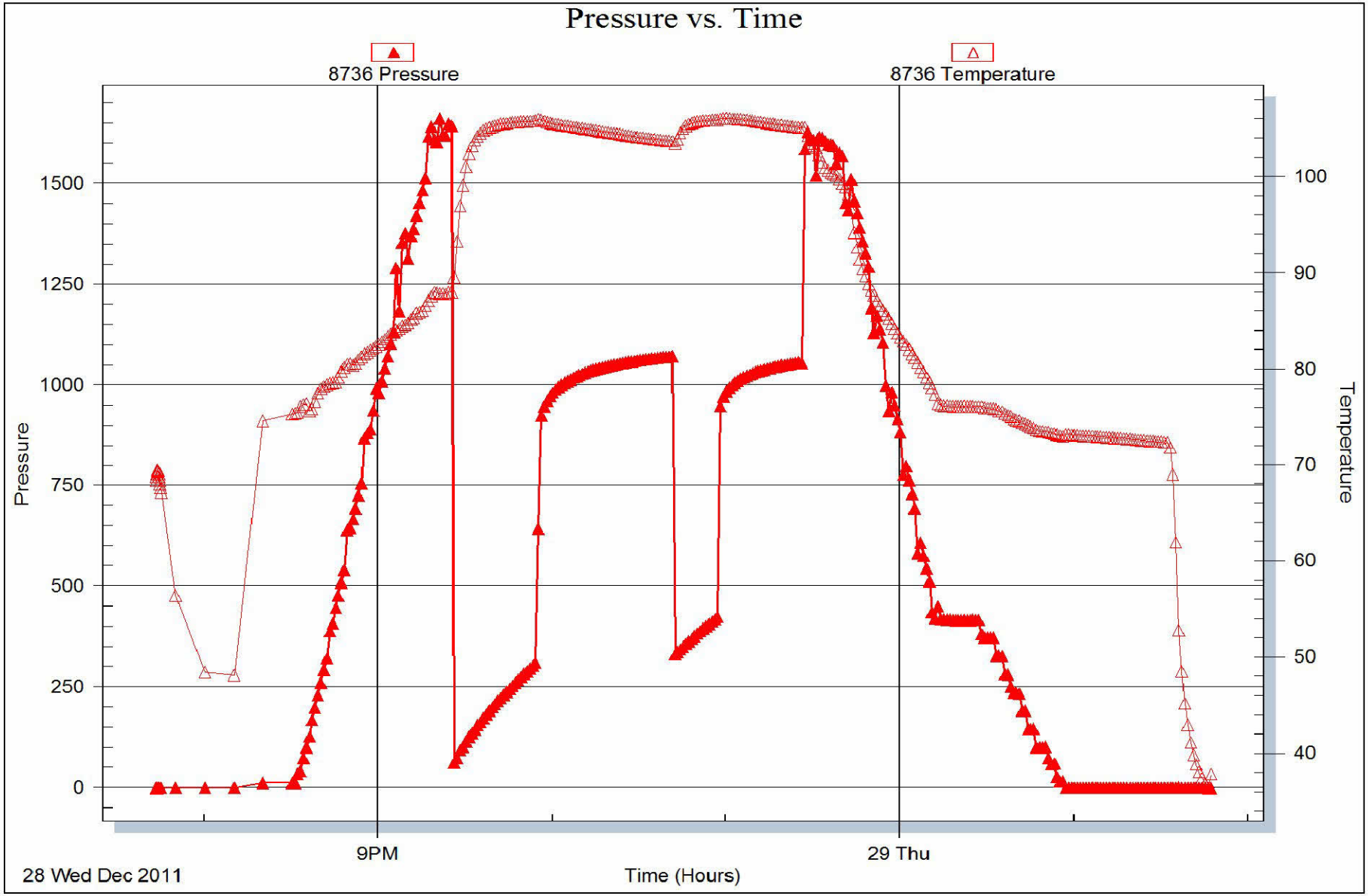
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8673 **Inside** Bach Oil Company #1 Jessup Unit DST Test Number: 3



Trilobite Testing, Inc Ref. No: 44710 Printed: 2012.02.06 @ 08:28:41

Serial #: 8736 **Outside** Bach Oil Company #1 Jessup Unit DST Test Number: 3



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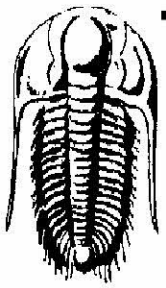


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bach Oil Company**

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

#1 Jessup Unit

11-1s-19w Phillips,KS

Start Date: 2011.12.29 @ 10:20:59
End Date: 2011.12.29 @ 17:15:44
Job Ticket #: 44711 DST #: 4

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

Printed: 2012.02.06 @ 08:29:51

Bach Oil Company 11-1s-19w Phillips,KS #1 Jessup Unit DST # 4 "I" 2011.12.29

DRILL STEM TEST REPORT

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44711 **DST#: 4**

Test Start: 2011.12.29 @ 10:20:59

GENERAL INFORMATION:

Formation: "I"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:16:59
Time Test Ended: 17:15:44

Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54

Interval: 3386.00 ft (KB) To 3414.00 ft (KB) (TVD)
Total Depth: 3414.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

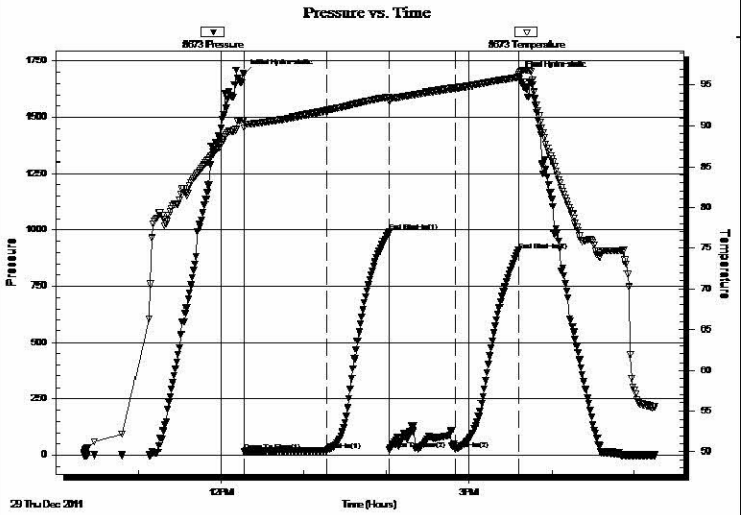
Reference Elevations: 2026.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8673 **Inside**

Press@RunDepth: 24.12 psig @ 3391.00 ft (KB)
Start Date: 2011.12.29 End Date: 2011.12.29
Start Time: 10:21:01 End Time: 17:15:44

Capacity: 8000.00 psig
Last Calib.: 2011.12.29
Time On Btm: 2011.12.29 @ 12:16:44
Time Off Btm: 2011.12.29 @ 15:36:29

TEST COMMENT: IFP-Weak Blow , Built to 1-1/2"
ISI-Dead
FFP-Intermittant Surface Blow
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1692.84	90.70	Initial Hydro-static
1	15.51	89.79	Open To Flow (1)
61	20.65	91.90	Shut-In(1)
105	992.77	93.58	End Shut-In(1)
106	22.27	93.00	Open To Flow (2)
154	24.12	94.64	Shut-In(2)
200	908.83	95.95	End Shut-In(2)
200	1682.11	96.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Free Oil	0.05
10.00	HOCM-50%O-50%M	0.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44711 **DST#: 4**

Test Start: 2011.12.29 @ 10:20:59

GENERAL INFORMATION:

Formation: "I"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:16:59
Time Test Ended: 17:15:44

Test Type: Conventional Bottom Hole (Reset)
Tester: Jason McLemore
Unit No: 54

Interval: 3386.00 ft (KB) To 3414.00 ft (KB) (TVD)
Total Depth: 3414.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

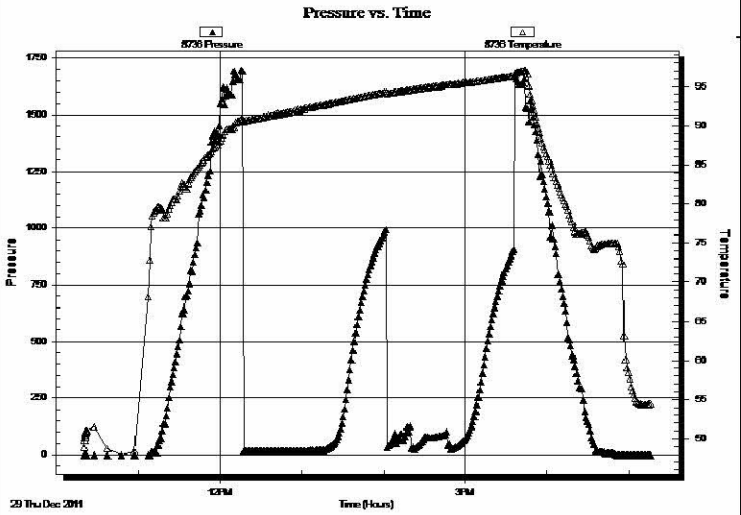
Reference Elevations: 2026.00 ft (KB)
2021.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8736 **Outside**

Press@RunDepth: psig @ 3391.00 ft (KB)
Start Date: 2011.12.29 End Date: 2011.12.29
Start Time: 10:20:34 End Time: 17:15:28

Capacity: 8000.00 psig
Last Calib.: 2011.12.29
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Weak Blow , Built to 1-1/2"
ISI-Dead
FFP-Intermittant Surface Blow
FSI-Dead



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Free Oil	0.05
10.00	HOCM-50%O-50%M	0.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44711 **DST#: 4**

Test Start: 2011.12.29 @ 10:20:59

Tool Information

Drill Pipe:	Length:	3360.00 ft	Diameter:	3.80 inches	Volume:	47.13 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		55000.00 lb
					Total Volume:	47.28 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		32.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3386.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		28.00 ft							
Tool Length:		56.00 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			3359.00		
Shut In Tool	5.00			3364.00		
Hydraulic tool	5.00			3369.00		
Jars	5.00			3374.00		
Safety Joint	2.00			3376.00		
Packer	5.00			3381.00	28.00	Bottom Of Top Packer
Packer	5.00			3386.00		
Stubb	1.00			3387.00		
Perforations	4.00			3391.00		
Recorder	0.00	8673	Inside	3391.00		
Recorder	0.00	8736	Outside	3391.00		
Perforations	20.00			3411.00		
Bullnose	3.00			3414.00	28.00	Bottom Packers & Anchor
Total Tool Length:	**56.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Company

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

11-1s-19w Phillips,KS

#1 Jessup Unit

Job Ticket: 44711 **DST#: 4**

Test Start: 2011.12.29 @ 10:20:59

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Free Oil	0.049
10.00	HOCM-50%O-50%M	0.049

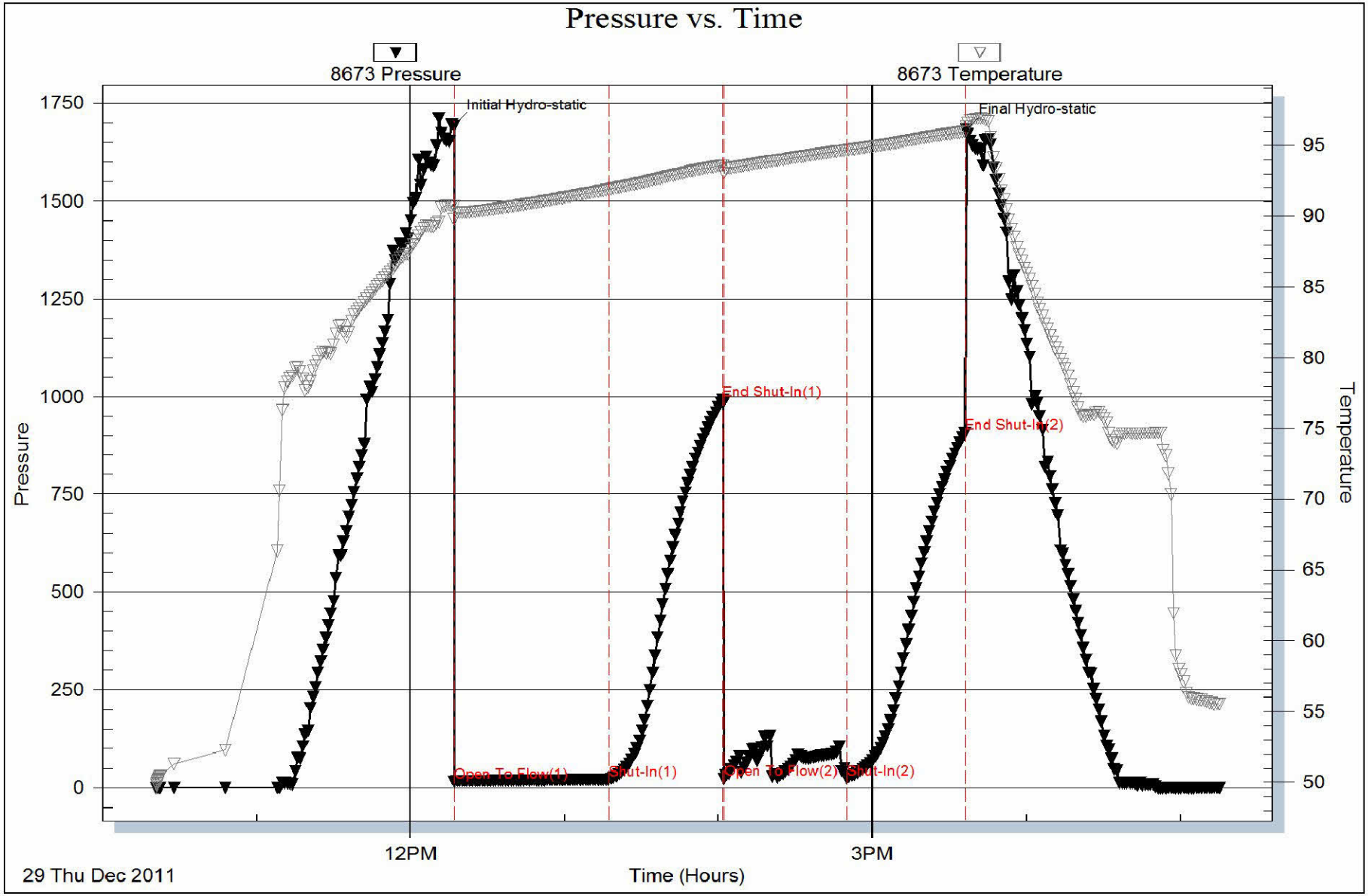
Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

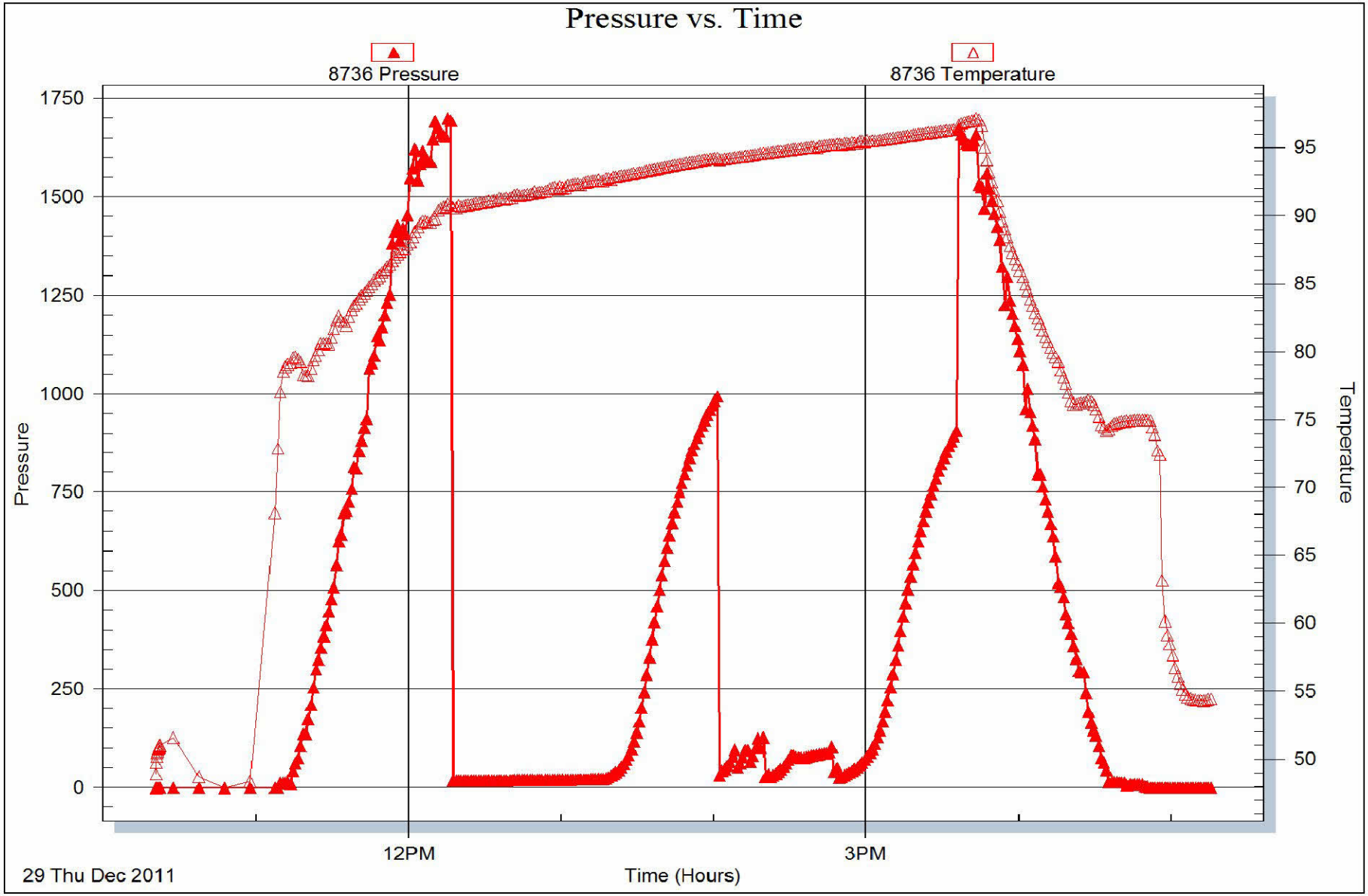
Recovery Comments:

Serial #: 8673 **Inside** Bach Oil Company #1 Jessup Unit DST Test Number: 4



Trilobite Testing, Inc Ref. No: 44711 Printed: 2012.02.06 @ 08:29:56

Serial #: 8736 **Outside** Bach Oil Company #1 Jessup Unit DST Test Number: 4



Trilobite Testing, Inc Ref. No: 44711 Printed: 2012.02.06 @ 08:29:56

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

Kansas
Corporation Commission

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

April 09, 2012

Jason Bach
Bach, Jason dba Bach Oil Production
PO BOX 723
ALMA, NE 68920-0723

Re: ACO1
API 15-147-20657-00-00
Jessup Unit 1
SE/4 Sec.11-01S-19W
Phillips 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,
Jason Bach