

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Darrah, John Jay, Jr.
Well Name	BACHURA-HICKEY UNIT 20-1
Doc ID	1423227

All Electric Logs Run

Dual Induction
Dual Comp Porosity
Sonic
Micro resistivity

Form	ACO1 - Well Completion
Operator	Darrah, John Jay, Jr.
Well Name	BACHURA-HICKEY UNIT 20-1
Doc ID	1423227

Tops

Name	Top	Datum
Oread	1343	51
Heebner	1366	28
Toronto	1378	16
Douglas	1393	1
Lansing	1647	-253
BKC	2002	-608
Cherokee	2221	-827
Mississippian	2497	-1103
Kinderhook	2721	-1327
Hunton	2885	-1491
Maquoketa	2963	-1569
Viola	3043	-1649
Simpson	3117	-1723
Simpson Dolomite	3122	-1728
Simpson SS	3156	-1762
Arbuckle	3220	-1826



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John Jay Darrah, Jr.

20/16S/8E Morris, KS

P. O. Box 2786
Wichita, KS. 67201-2786

Bachura-Hickey U20-1

ATTN: Will Darrah/Seth Eve

Job Ticket: 63811

DST#: 1

Test Start: 2018.08.08 @ 16:28:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:04:10

Time Test Ended: 22:19:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 3043.00 ft (KB) To 3050.00 ft (KB) (TVD)

Reference Elevations: 1394.00 ft (KB)

Total Depth: 3050.00 ft (KB) (TVD)

1385.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8369 Outside

Press@RunDepth: 57.90 psig @ 3044.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.08 End Date: 2018.08.08

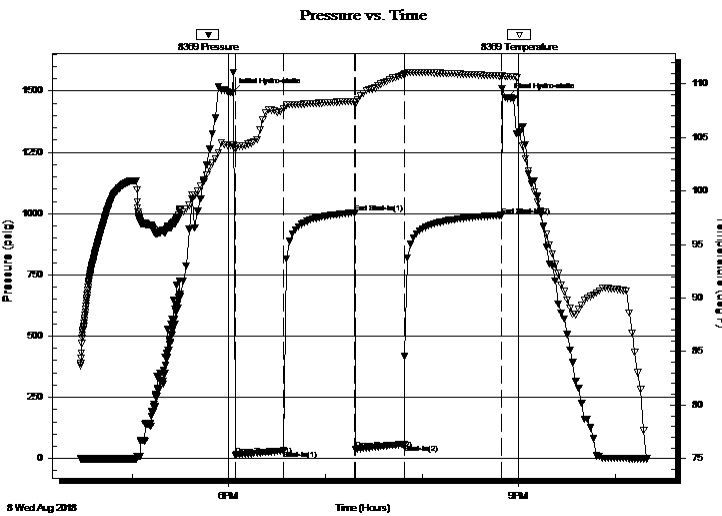
Last Calib.: 1899.12.30

Start Time: 16:28:01 End Time: 22:19:40

Time On Btm: 2018.08.08 @ 18:02:20

Time Off Btm: 2018.08.08 @ 20:53:00

TEST COMMENT: IF - Weak blow building to 2 inches initial flow period.
FF - Weak blow building to 2 inches final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1493.80	104.26	Initial Hydro-static
2	14.65	103.90	Open To Flow (1)
32	32.02	107.65	Shut-In(1)
76	1003.07	108.37	End Shut-In(1)
77	38.36	108.08	Open To Flow (2)
107	57.90	110.82	Shut-In(2)
167	992.20	110.74	End Shut-In(2)
171	1471.38	110.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	Oil specked mud TR O & 100% M	0.52

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John Jay Darrah, Jr.
P. O. Box 2786
Wichita, KS. 67201-2786
ATTN: Will Darrah/Seth Eve

20/16S/8E Morris, KS
Bachura-Hickey U20-1
Job Ticket: 63811 **DST#: 1**
Test Start: 2018.08.08 @ 16:28:00

GENERAL INFORMATION:

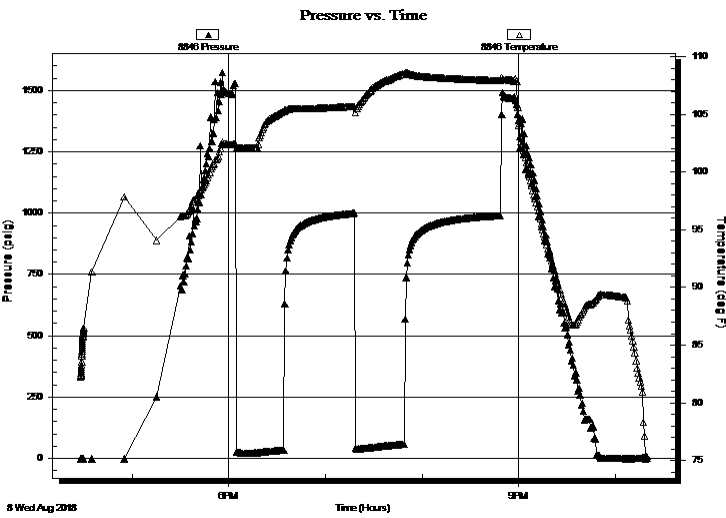
Formation: Viola			
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)		
Time Tool Opened: 18:04:10	Tester: Jimmy Ricketts		
Time Test Ended: 22:19:39	Unit No: 80		
Interval: 3043.00 ft (KB) To 3050.00 ft (KB) (TVD)	Reference Elevations: 1394.00 ft (KB)		
Total Depth: 3050.00 ft (KB) (TVD)	1385.00 ft (CF)		
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 9.00 ft	

Serial #: 8846

Inside

Press@RunDepth: psig @ 3044.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2018.08.08	End Date: 2018.08.08
Start Time: 16:28:01	End Time: 22:19:50
	Last Calib.: 1899.12.30
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF - Weak blow building to 2 inches initial flow period.
FF - Weak blow building to 2 inches final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
105.00	Oil specked mud TR O & 100% M	0.52

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John Jay Darrah, Jr.

20/16S/8E Morris, KS

P. O. Box 2786
Wichita, KS. 67201-2786

Bachura-Hickey U20-1

Job Ticket: 63811

DST#: 1

ATTN: Will Darrah/Seth Eve

Test Start: 2018.08.08 @ 16:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	Oil specked mud TR O & 100% M	0.516

Total Length: 105.00 ft Total Volume: 0.516 bbl

Num Fluid Samples: 0

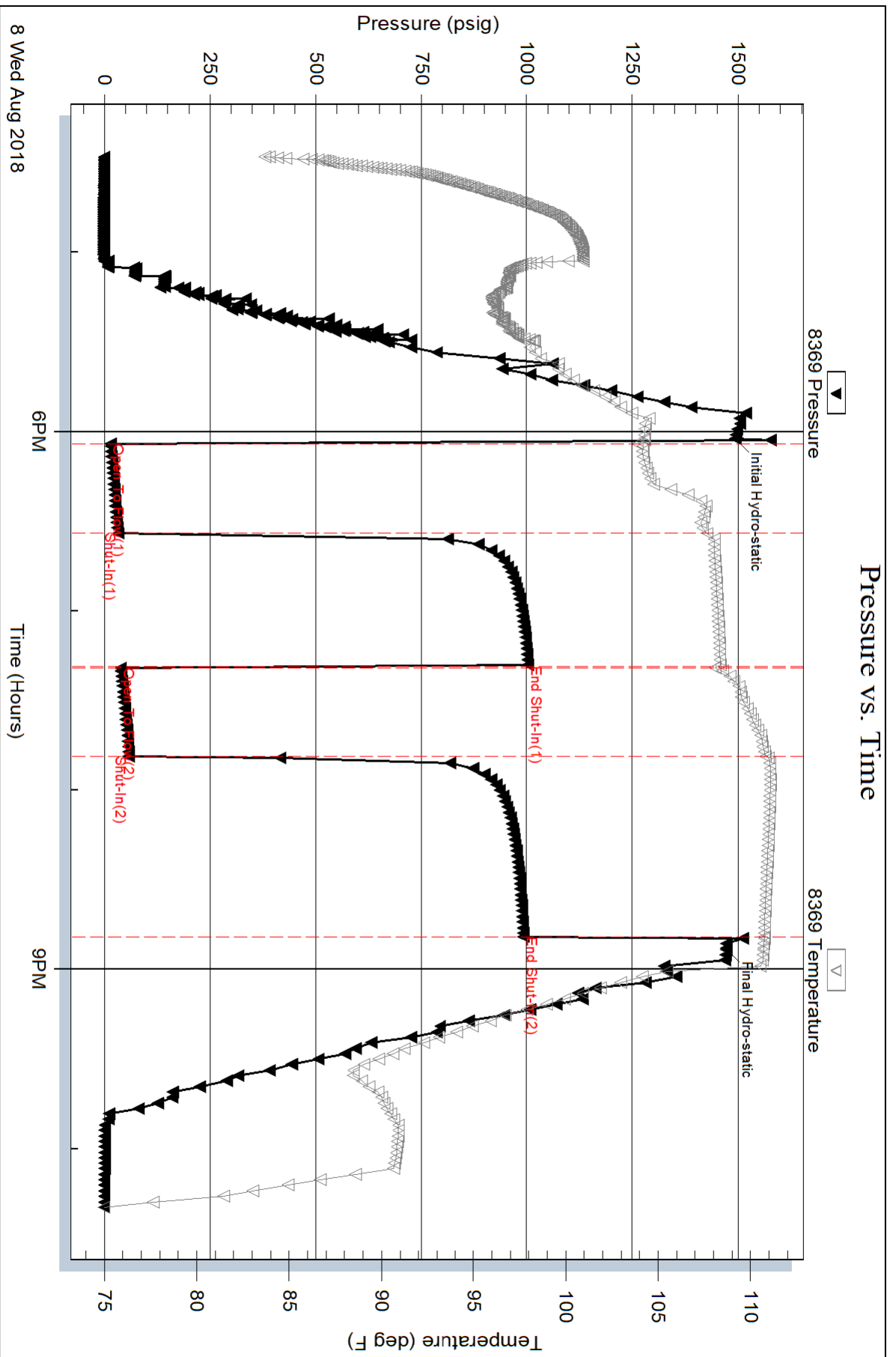
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



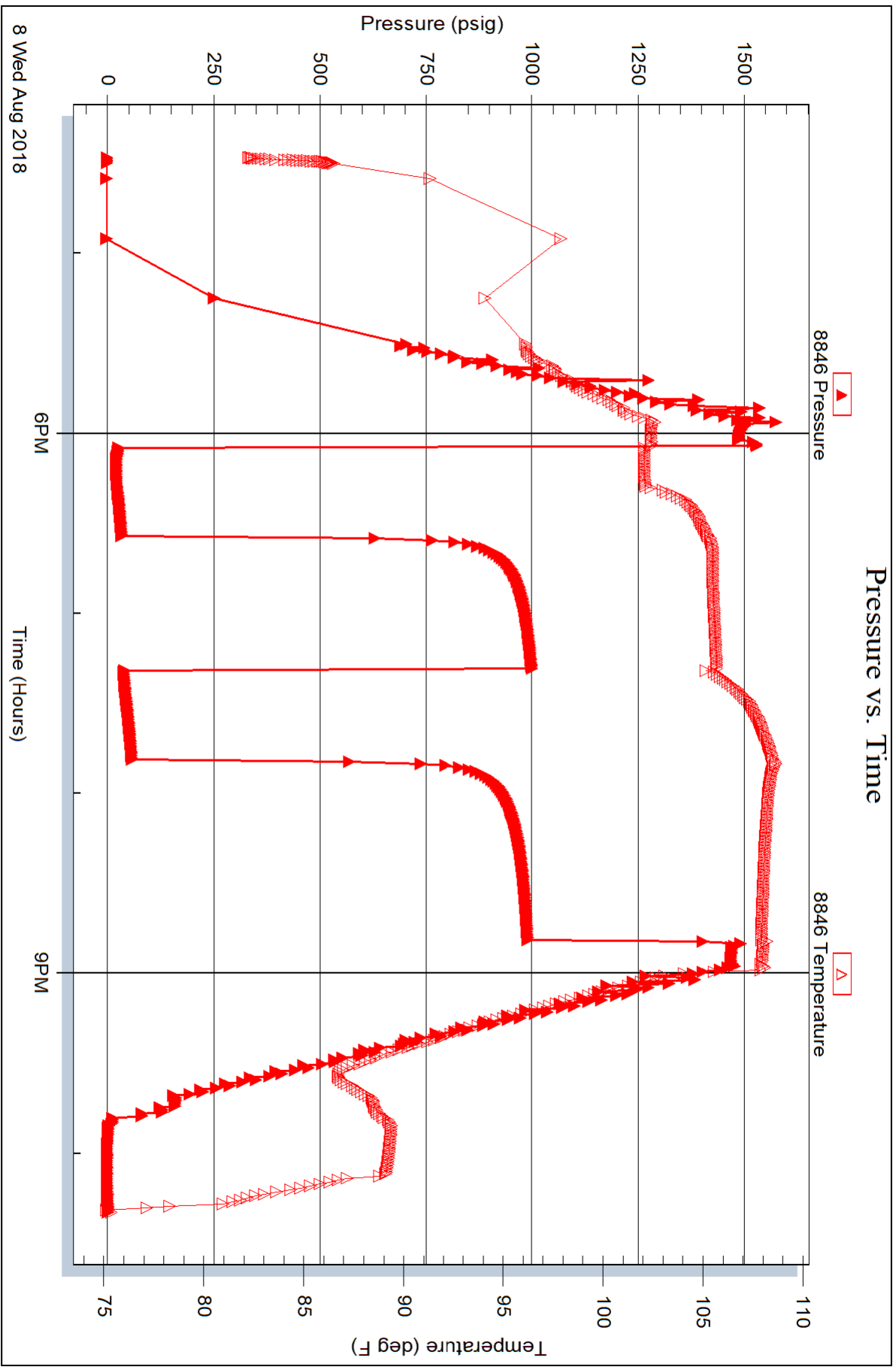
Serial #: 8846

Inside

John Jay Darrah, Jr.

Bachura-Hickey U20-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 63811

Printed: 2018.08.09 @ 06:54:53

COPELAND

Acid & Cement

BURRTON, KS (620) 463-5161
 GREAT BEND, KS (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

V45137

INVOICE NUMBER:
C45454-IN

BILL TO:

JOHN JAY DARRAH, JR.
 PO BOX 2786
 WICHITA, KS 67202-2786

LEASE: **BACHURA-HICKEY UNIT 20-1**

82300/800
 CEMENT

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
08/14/2018	C45454		08/06/2018		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		NEW WELL				
70.00	MI	MILEAGE CEMENT PUMP TRUCK		22.00	4.00	218.40
70.00	MI	MILEAGE PICK UP		22.00	2.00	109.20
1.00	EA	PUMP CHARGE-SURFACE CHARGE		22.00	1,100.00	858.00
150.00	SK	60/40 POZ MIX 2% GEL		22.00	11.00	1,287.00
8.00	SK	CALCIUM CHLORIDE		22.00	30.00	187.20
158.00	EA	BULK CHARGE		22.00	1.25	154.05
486.64	MI	BULK TRUCK - TON MILES		22.00	1.10	417.54
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		3,231.39
RECEIVED BY _____		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		MOSCO Sales Tax:		110.57
		NET 30 DAYS		Invoice Total:		3,341.96

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days past due.

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Main body of faint, illegible text, possibly a list or table of contents.

2000/00

Faint, illegible text at the bottom of the page, possibly a footer or additional notes.



NEW WELL

FIELD ORDER N° C 45454

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 8-6 20 18

IS AUTHORIZED BY: John Jay Darnah Jr.
(NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease Bachura-Hickey Unit Well No. 20-1 Customer Order No. _____

Sec. Twp. Range 20-16-8E County Morris State Ks

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED _____ By _____
Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	70	Mileage Pump Truck	4 ⁰⁰	280 ⁰⁰
2	70	Mileage Pick Up	2 ⁰⁰	140 ⁰⁰
2		Pump Charge Surface Pipe		1100 ⁰⁰
2	150	Stks 60/40 2" Gel	11 ⁰⁰	1650 ⁰⁰
2	8	Calcium Chloride	30 ⁰⁰	240 ⁰⁰
2	158	Bulk Charge	125	197.50
2		Bulk Truck Miles <u>6.9571 x 70 miles = 486.64</u>	1 ¹⁰	535.30
		Process License Fee on _____ Gallons	22%	4142.80
TOTAL BILLING				-911.42

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Greg C 3231.38

Station 6B Will D.
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

COPELAND

Acid & Cement

BURRTON, KS GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

V 45135

INVOICE NUMBER:
C45498-IN

BILL TO:

JOHN JAY DARRAH, JR.
PO BOX 2786
WICHITA, KS 67202-2786

LEASE: **BACHURA-HICKEY UNIT**

82300/800
 CEMENT

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
08/16/2018	C45498		08/10/2018		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		NEW WELL				
70.00	MI	MILEAGE CEMENT PUMP TRUCK		20.00	4.00	224.00
70.00	MI	MILEAGE PICKUP		20.00	2.00	112.00
1.00	EA	PUMP CHARGE-LONG STRING		20.00	1,600.00	1,280.00
125.00	SK	60/40 POZ MIX 2% GEL		20.00	11.00	1,100.00
750.00	LB	FINE SALT		25.92	0.09	50.00
100.00	LB	FRICTION REDUCER C-37		20.00	3.00	240.00
750.00	LB	GILSONITE		20.00	0.75	450.00
5.00	EACH	5 1/2" TURBO-CENTRALIZER		20.00	85.00	340.00
1.00	EACH	BASKETS		20.00	155.00	124.00
1.00	EA	LATCH DOWN PLUG AND BAFFLE		20.00	175.00	140.00
1.00	LB	FLOAT SHOE W/AUTO FILL		20.00	355.00	284.00
157.00	EA	BULK CHARGE		20.00	1.25	157.00
483.70	MI	BULK TRUCK - TON MILES		20.00	1.10	425.66
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		4,926.66
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		MOSCO Sales Tax:		204.60
RECEIVED BY		NET 30 DAYS		Invoice Total:		5,131.26

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days past due.



New Well

FIELD ORDER N^o C 45498

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 9/10/12 20

IS AUTHORIZED BY: John J. Arrick (NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease Bechura - Hickey Well No. Unit #20-1 Customer Order No. _____

Sec. Twp. Range _____ County Norris State B

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED _____ By _____
Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	70	mileage pump truck	4. ⁰⁰	280.00
2	70	mileage pickup	2. ⁰⁰	140.00
2	1	Pump Chase - 600 ft string		1,600.00
2	125	60/40 per. 2% sol	11.00	1,375.00
2	750 [#]	Salt	0.083323	62.50
2	100 [#]	C-37	3. ⁰⁰	300.00
2	750 [#]	Gilsonite	.75	562.50
2	5	5 1/2" Turbor Centralizers	95. ⁰⁰	475.00
2	1	Basket		155.00
2	1	Latch down plug & beaffle		175.00
2	1	Flood shoe w/ auto-fill		355.00
2	157	Bulk Charge	1. ²⁵	196.75
2		Bulk Truck Miles 6.917 x 70 = 483.77 x 1. ⁰⁰	1. ⁰⁰	532.07
		Process License Fee on _____ Gallons		6,154.32
TOTAL BILLING			20% -	1,221.66

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Nathan L.

4,926.66

Station G-B

Jud CIG Drilling
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

