

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)</i> <i>(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	Farmer, John O., Inc.
Well Name	COFFMAN 1
Doc ID	1415857

Tops

Name	Top	Datum
Mississippi	2358	(-991)
Kinderhook	2744	(-1377)
Hunton	2883	(-1516)
Maquoketa	2934	(-1567)
Viola	3001	(-1634)
Simpson Sand	3116	(-1749)
Arbuckle	3162	(-1795)
L.T.D.	3181	(-1814)



Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: John o. Farmer, Inc. Lic# 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548
370 West Wichita Avenue - P.O. Box 352 PO Box 763
Russell, KS 67665 + 2635 Hays, KS 67601

Lease: Coffman # 1 Location: 330 FNL - 2550 FWL
E/2/NE/NE/NW
Section 23/ 15S/ 11W
Lyon County, KS

Loggers Total Depth: 3181' API#15- 111-20,533-00-00
Rotary Total Depth: 3180' Elevation: ~~1359~~ ¹³⁵⁹ GL - ~~1367~~ ¹³⁶⁷ KB
Commenced: 3/25/2018 Completed: 4/3/2018
Casing: 8 5/8" @ 221.24'W/150sks Status: D & A
KCC Contact: Ryan Duling
Plugging Info: (1st Plug @ 3180'W/35sks)(2nd Plug @ 2800'W/35sks)
(3rd Plug @ 2300'W/35sks)(4th Plug @ 1400'W/35sks)
(5th 200'W/35sks)(6th Plug @ 40'W/10sks)(30sks In RH)
Total 215sks 60/40Poz 4%GelW/14#FS/sk-By QES,LLC
Completed @ 12:30AM 4/3/2018

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Kinderhook	<u> </u>
Shale & Lime	<u>445'</u>	Hunton	<u> </u>
Shale	<u>695'</u>	Viola	<u> </u>
Shale & Lime	<u>884'</u>	simpson	<u>3091'</u>
Shale	<u>1052'</u>	Arbuckle	<u> </u>
Shale & Lime	<u>1695'</u>	RTD	<u>3180'</u>
Miss	<u>2346'</u>		

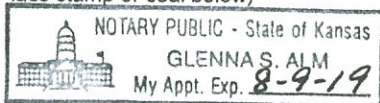
STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

Thomas H. Alm

Subscribed and sworn to before me on 4-11-18
My Commission expires: 8-9-19

(Place stamp or seal below)



Notary Public



PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

KET NUMBER 55388

LOCATION El Dorado

FOREMAN Brad Butler

FIELD TICKET & TREATMENT REPORT
CEMENT

API # 15-111-20533-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-26-18		Coffman #1	23	15s	11E	LYON
CUSTOMER John O. Farmer, Inc.		Discovery RIS #2	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 370 W. Wichita Ave / P.O. Box 352			760	Chris		
CITY Russell			713	Tracy		
STATE Ks.			702	Brad		
ZIP CODE 67665 + 2635						

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 223' CASING SIZE & WEIGHT 8 7/8" - 23lb
 CASING DEPTH 221' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 25'
 DISPLACEMENT 12 1/4 Bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting: Rig onto 8 7/8" casing, pumped fresh water ahead to get circulation.
Mixed 150 sacks Regular cement w/ 22 Gal. 3% CACL₂ and 1/2 lb 1/2 SK of Pheno-SEAL.
Displaced cement with 12 1/4 Bbls water. Shut down - closed casing in with good cement returns (7 Bbls disp).
Job complete at 10:15 AM.

Wash up & Trer down

"Thank you"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 0450	1	PUMP CHARGE	1500.00	1500.00
CE 0002	60	MILEAGE	7.15	429.00
CE 0001	60	Pickup mileage	3.00	180.00
CE 0710	7.00 Tons	Bulk Truck charge	1.75	740.25
CC 5871	150 sacks	Regular cement w/ 2% GCL + 3% CACL ₂	23.00	3450.00
CC 6079	75 lbs.	Pheno-SEAL	1.35	101.25
				6400.50
			40% discount	-2560.20
			SubTotal	3840.30
			SALES TAX	
			ESTIMATED TOTAL	

Ravin 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

TICKET NUMBER 55332

LOCATION Eldorado KS

FOREMAN Austin

FIELD TICKET & TREATMENT REPORT

CEMENT

API # 15-111-20533-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
<u>4-1-18</u>		<u>Coffman #1</u>	<u>23</u>	<u>15S</u>	<u>11E</u>	<u>24011</u>
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
<u>John O. Francis - FNC</u>			<u>866</u>	<u>Austin</u>		
MAILING ADDRESS			<u>446</u>	<u>Seamus</u>		
<u>370 W. Wichita Ave / P.O. Box 352</u>			<u>611</u>	<u>Tracy</u>		
CITY	STATE	ZIP CODE				
<u>Russel</u>	<u>KS</u>	<u>67665-2635</u>				

JOB TYPE <u>Plug</u>	HOLE SIZE <u>7 7/8</u>	HOLE DEPTH <u>3181</u>	CASING SIZE & WEIGHT
CASING DEPTH	DRILL PIPE <u>1 1/2</u>	TUBING	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Safety meeting Hooked up to shaft pipe 13686' broke circulation then pumped 10 bbl of water then 35 SKS of Cement then 3 bbl water unhooked rig displaced 3 1/2 mins with mud pump 2" plug set @ 2800' pumped 10 bbl of water then 35 SKS Cement then 3 bbl water displaced 30 bbl mud then set pipe @ 2300' pump 10 bbl water 35 SKS Cement 3 bbl water 30 bbl mud then set pipe @ 1400' pumped 5 bbl water 35 SKS Cement 3 bbl water 17 bbl mud then pipe set @ 700' then pumped 10 bbl water 35 SKS Cement 1 1/2 bbl water pulled all pipe use Kelly pushed 5 7/8 rubber plug down 11' then filled surface pipe with Cement then pumped 30 SKS Cement in RAT Hole

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0452	1	PUMP CHARGE	2300.00	2300.00
CE0000	10	MILEAGE	7.15	105.00
CE0710	10 ton	ton mileage	1.75	1050.00
CC5879	230	60/40 1 1/2	16.00	3680.00
CC5325	400	Calcium Chloride	1.25	500.00
CC6075	75	Poly flake	2.00	150.00
				4778.00
				3114.00
			SALES TAX	
			ESTIMATED TOTAL	4671.00
			DATE	4/2/18

Ravin 3737

AUTHORIZATION [Signature]

TITLE Tool Pusher

DATE 4/2/18

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

PO Box 352
Russell, KS 67665-2635

ATTN: Austin Klaus

Coffman #1

23-15S-11E Lyons, KS

Start Date: 2018.03.30 @ 22:43:00

End Date: 2018.03.31 @ 04:37:20

Job Ticket #: 63379 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.04 @ 14:36:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.
 PO Box 352
 Russell, KS 67665-2635
 ATTN: Austin Klaus

23-15S-11E Lyons, KS
Coffman #1
 Job Ticket: 63379 **DST#: 1**
 Test Start: 2018.03.30 @ 22:43:00

GENERAL INFORMATION:

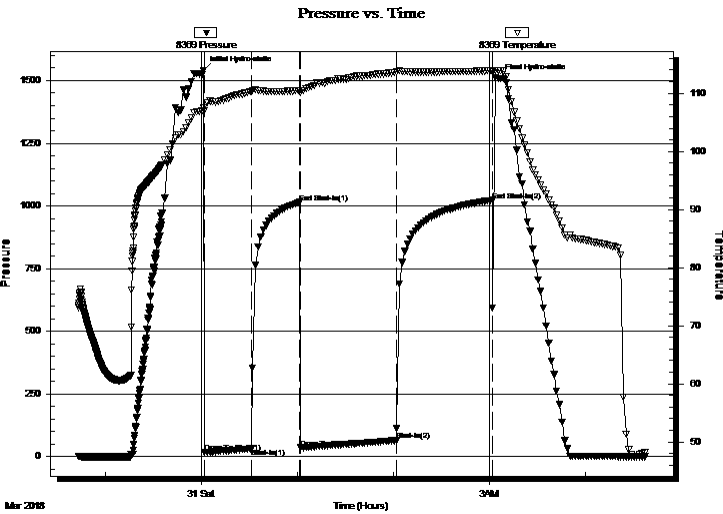
Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:01:50 Tester: Jimmy Ricketts
 Time Test Ended: 04:37:20 Unit No: 80
 Interval: **3108.00 ft (KB) To 3120.00 ft (KB) (TVD)** Reference Elevations: 1367.00 ft (KB)
 Total Depth: 3120.00 ft (KB) (TVD) 1359.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8369

Outside

Press@RunDepth: 63.62 psig @ 3109.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.30 End Date: 2018.03.31 Last Calib.: 2018.03.30
 Start Time: 22:43:01 End Time: 04:37:20 Time On Btm: 2018.03.31 @ 00:01:10
 Time Off Btm: 2018.03.31 @ 03:05:39

TEST COMMENT: IF - Weak blow built to 5"
 FF - Weak blow built to 6"
 FS - Surface blow back during final shut-in period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1540.45	107.47	Initial Hydro-static
1	16.01	107.07	Open To Flow (1)
30	31.26	110.34	Shut-In(1)
60	1014.03	110.46	End Shut-In(1)
61	34.40	110.15	Open To Flow (2)
121	63.62	113.68	Shut-In(2)
181	1022.16	113.88	End Shut-In(2)
185	1508.19	113.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Heavy oil cut mud 24% O 76% M	0.42
65.00	Clean oil 100% O	0.46

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.
PO Box 352
Russell, KS 67665-2635
ATTN: Austin Klaus

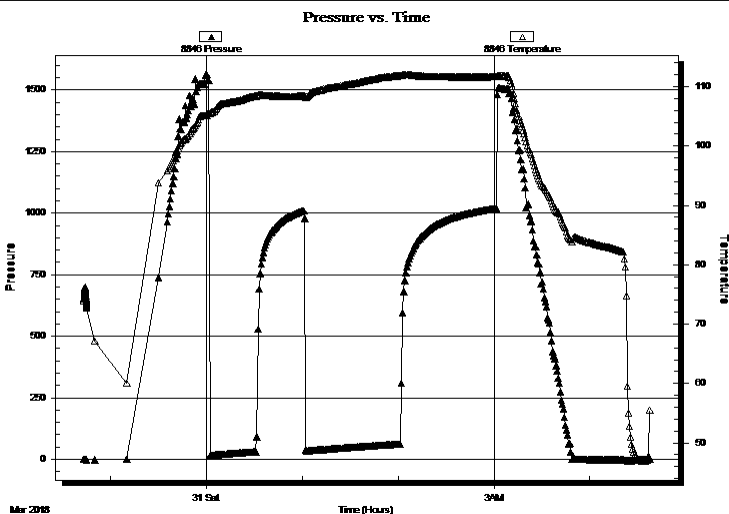
23-15S-11E Lyons, KS
Coffman #1
Job Ticket: 63379 **DST#: 1**
Test Start: 2018.03.30 @ 22:43:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 00:01:50 Tester: Jimmy Ricketts
Time Test Ended: 04:37:20 Unit No: 80
Interval: 3108.00 ft (KB) To 3120.00 ft (KB) (TVD) Reference Elevations: 1367.00 ft (KB)
Total Depth: 3120.00 ft (KB) (TVD) 1359.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8846 **Inside**
Press@RunDepth: psig @ 3109.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.03.30 End Date: 2018.03.31 Last Calib.: 1899.12.30
Start Time: 22:43:01 End Time: 04:37:30 Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow built to 5"
FF - Weak blow built to 6"
FS - Surface blow back during final shut-in period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Heavy oil cut mud 24% O 76% M	0.42
65.00	Clean oil 100% O	0.46

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc.

23-15S-11E Lyons, KS

PO Box 352
Russell, KS 67665-2635

Coffman #1

Job Ticket: 63379

DST#: 1

ATTN: Austin Klaus

Test Start: 2018.03.30 @ 22:43:00

Tool Information

Drill Pipe:	Length: 2783.00 ft	Diameter: 3.80 inches	Volume: 39.04 bbl	Tool Weight: 1900.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.70 inches	Volume: 2.21 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 41.25 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3108.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	32.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3089.00	
Shut In Tool	5.00			3094.00	
Hydraulic tool	5.00			3099.00	
Packer	4.00			3103.00	20.00 Bottom Of Top Packer
Packer	5.00			3108.00	
Stubb	1.00			3109.00	
Recorder	0.00	8369	Outside	3109.00	
Recorder	0.00	8846	Inside	3109.00	
Perforations	6.00			3115.00	
Bullnose	5.00			3120.00	12.00 Bottom Packers & Anchor
Total Tool Length:	32.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc.

23-15S-11E Lyons, KS

PO Box 352
Russell, KS 67665-2635

Coffman #1

Job Ticket: 63379

DST#: 1

ATTN: Austin Klaus

Test Start: 2018.03.30 @ 22:43:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 830.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Heavy oil cut mud 24% O 76% M	0.425
65.00	Clean oil 100% O	0.460

Total Length: 125.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

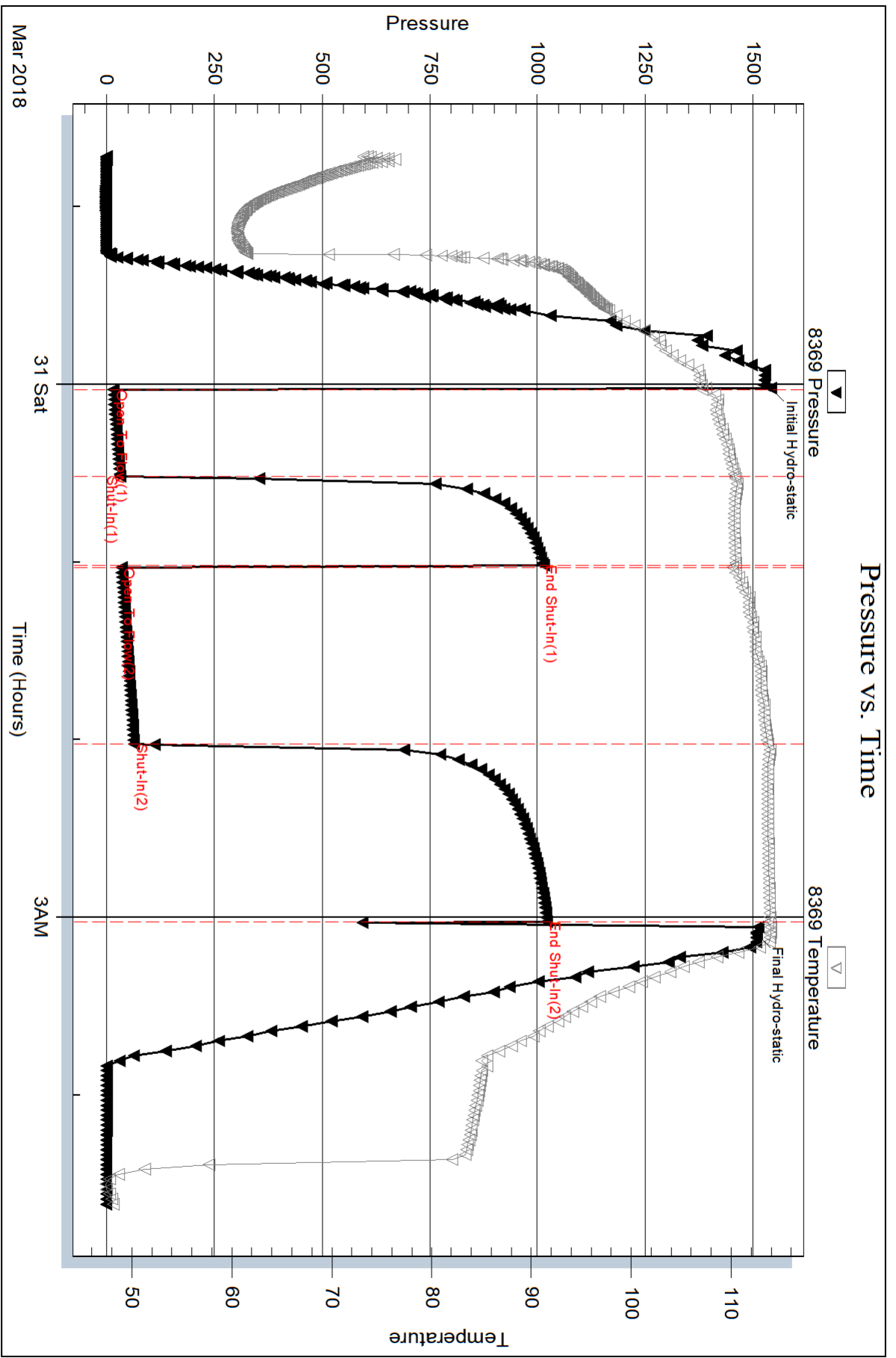
Num Gas Bombs: 0

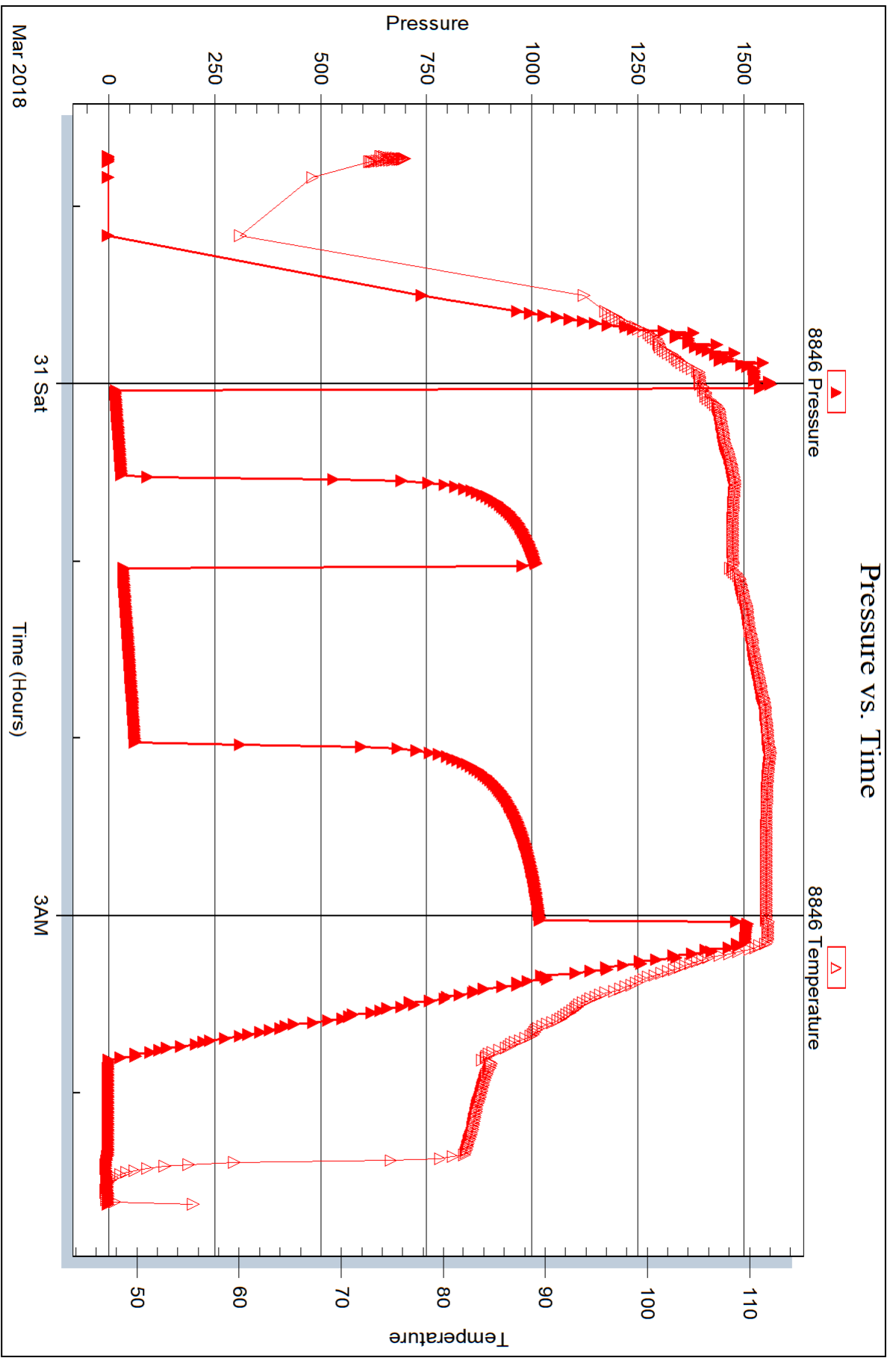
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

PO Box 352
Russell, KS 67665-2635

ATTN: Austin Klaus

Coffman #1

23-15S-11E Lyons, KS

Start Date: 2018.03.31 @ 10:57:00

End Date: 2018.03.31 @ 16:42:39

Job Ticket #: 63380 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.04 @ 14:36:16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer, Inc.
PO Box 352
Russell, KS 67665-2635
ATTN: Austin Klaus

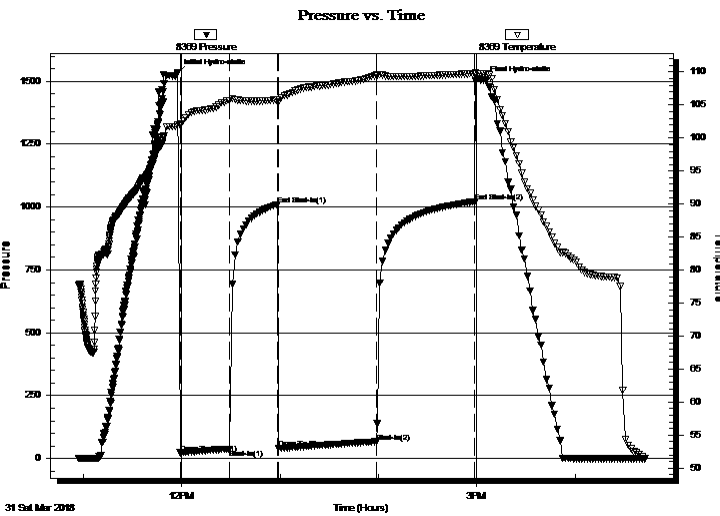
23-15S-11E Lyons, KS
Coffman #1
Job Ticket: 63380 **DST#: 2**
Test Start: 2018.03.31 @ 10:57:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:59:00
Time Test Ended: 16:42:39
Interval: **3109.00 ft (KB) To 3125.00 ft (KB) (TVD)**
Total Depth: 3125.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80
Reference Elevations: 1367.00 ft (KB)
1359.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 Outside
Press@RunDepth: 66.64 psig @ 3110.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.03.31 End Date: 2018.03.31 Last Calib.: 1899.12.30
Start Time: 10:57:01 End Time: 16:42:40 Time On Btm: 2018.03.31 @ 11:57:10
Time Off Btm: 2018.03.31 @ 15:04:00

TEST COMMENT: IF - Weak blow built to 6"
FF - Surface blow built to 5"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1530.98	102.05	Initial Hydro-static
2	22.46	101.87	Open To Flow (1)
32	37.90	105.65	Shut-In(1)
62	1009.25	105.77	End Shut-In(1)
62	40.66	105.46	Open To Flow (2)
122	66.64	109.50	Shut-In(2)
182	1020.94	109.75	End Shut-In(2)
187	1503.84	109.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Heavy oil cut mud 20% O 80% M	0.46
60.00	Clean oil 100% O	0.42

Gas Rates

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



TRILLOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.
PO Box 352
Russell, KS 67665-2635
ATTN: Austin Klaus

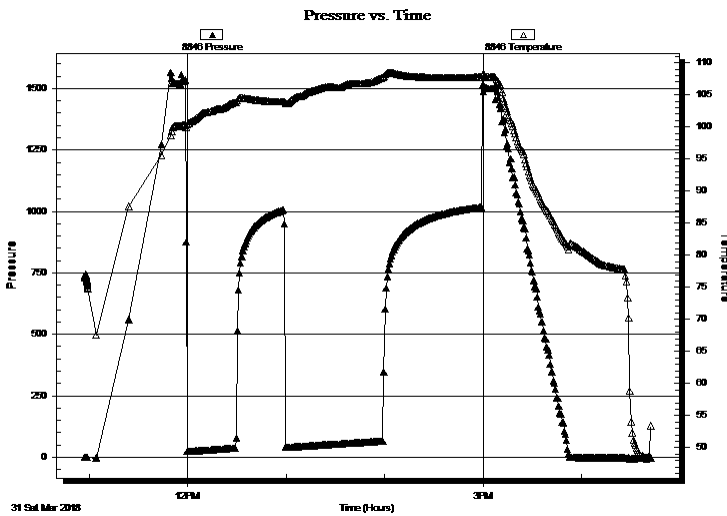
23-15S-11E Lyons, KS
Coffman #1
Job Ticket: 63380 **DST#: 2**
Test Start: 2018.03.31 @ 10:57:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 11:59:00 Tester: Jimmy Ricketts
Time Test Ended: 16:42:39 Unit No: 80
Interval: 3109.00 ft (KB) To 3125.00 ft (KB) (TVD) Reference Elevations: 1367.00 ft (KB)
Total Depth: 3125.00 ft (KB) (TVD) 1359.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

Serial #: 8846 **Inside**
Press@RunDepth: psig @ 3110.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.03.31 End Date: 2018.03.31 Last Calib.: 1899.12.30
Start Time: 10:57:01 End Time: 16:42:40 Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow built to 6"
FF - Surface blow built to 5"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Heavy oil cut mud 20% O 80% M	0.46
60.00	Clean oil 100% O	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc.

23-15S-11E Lyons, KS

PO Box 352
Russell, KS 67665-2635

Coffman #1

Job Ticket: 63380

DST#: 2

ATTN: Austin Klaus

Test Start: 2018.03.31 @ 10:57:00

Tool Information

Drill Pipe:	Length: 2783.00 ft	Diameter: 3.80 inches	Volume: 39.04 bbl	Tool Weight: 1900.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.70 inches	Volume: 2.21 bbl	Weight set on Packer: 27000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 41.25 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3109.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3090.00	
Shut In Tool	5.00			3095.00	
Hydraulic tool	5.00			3100.00	
Packer	4.00			3104.00	20.00 Bottom Of Top Packer
Packer	5.00			3109.00	
Stubb	1.00			3110.00	
Recorder	0.00	8369	Outside	3110.00	
Recorder	0.00	8846	Inside	3110.00	
Perforations	10.00			3120.00	
Bullnose	5.00			3125.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc.

23-15S-11E Lyons, KS

PO Box 352
Russell, KS 67665-2635

Coffman #1

Job Ticket: 63380

DST#: 2

ATTN: Austin Klaus

Test Start: 2018.03.31 @ 10:57:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 950.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	Heavy oil cut mud 20% O 80% M	0.460
60.00	Clean oil 100% O	0.425

Total Length: 125.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

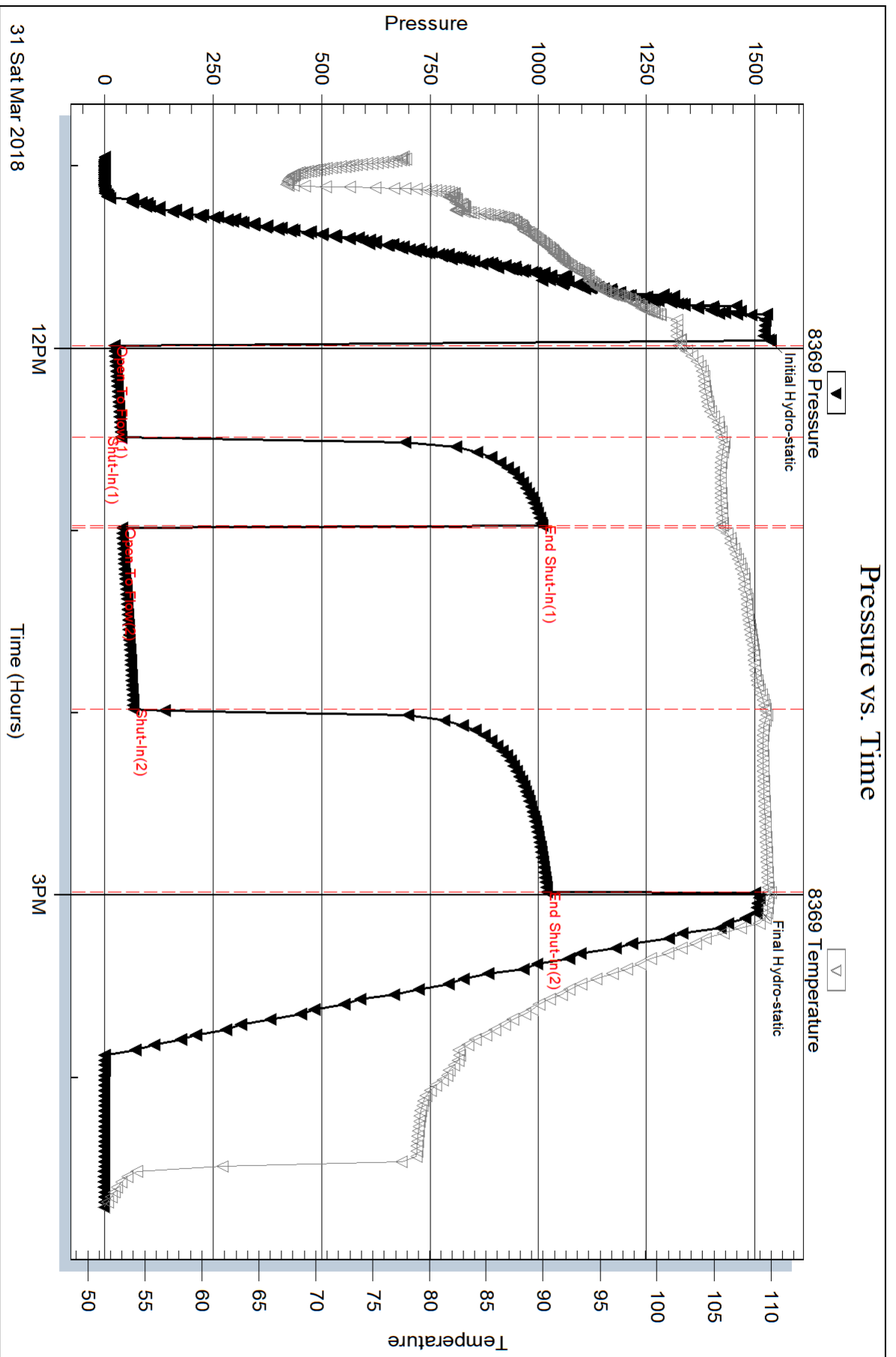
Num Gas Bombs: 0

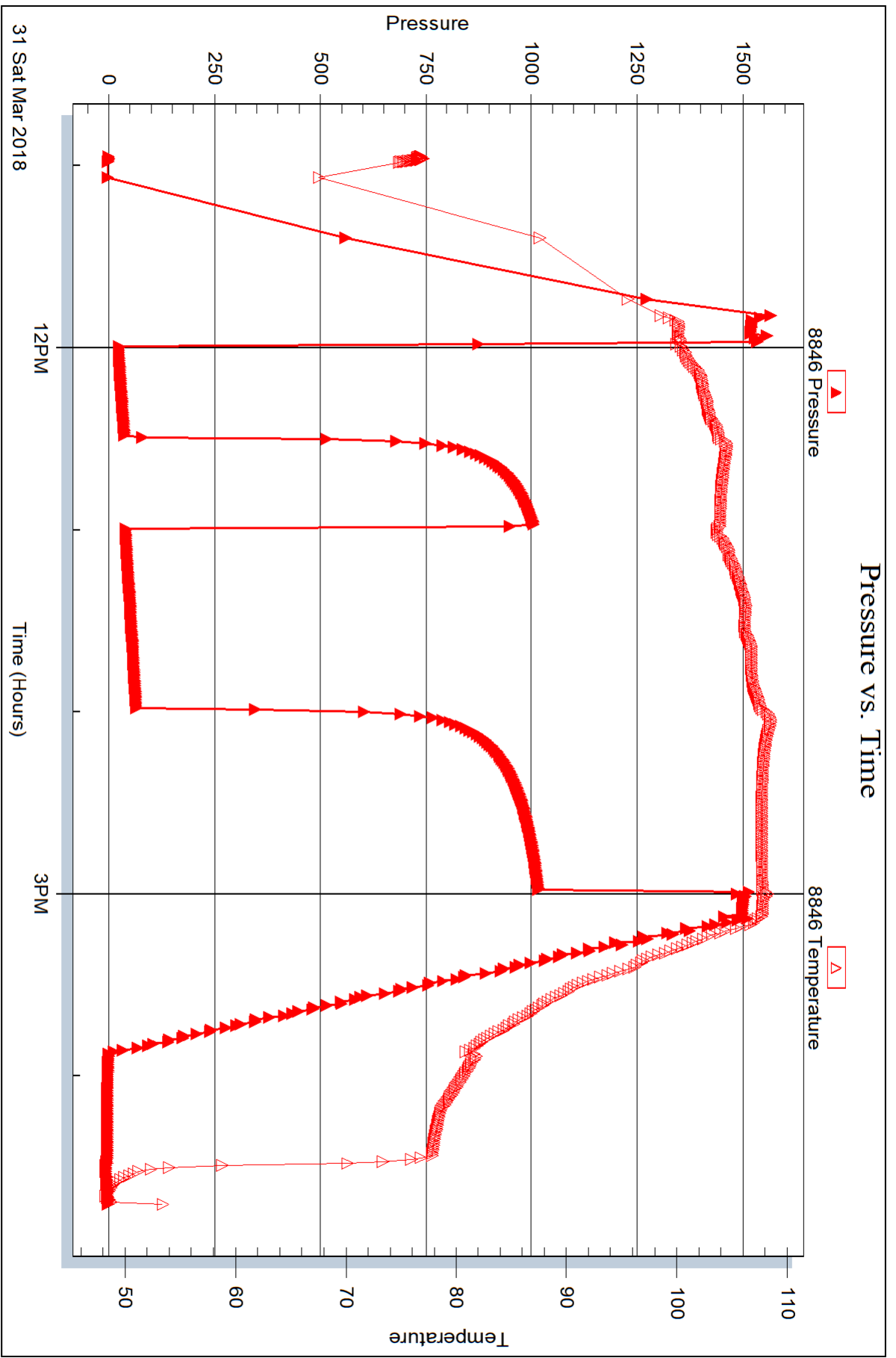
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

PO Box 352
Russell, KS 67665-2635

ATTN: Austin Klaus

Coffman #1

23-15S-11E Lyons, KS

Start Date: 2018.04.01 @ 08:12:00

End Date: 2018.04.01 @ 15:13:50

Job Ticket #: 63381 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.04 @ 14:35:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.
 PO Box 352
 Russell, KS 67665-2635
 ATTN: Austin Klaus

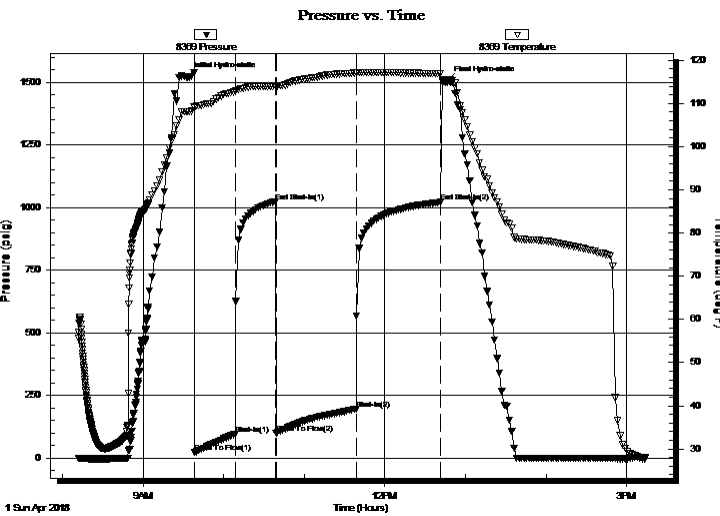
23-15S-11E Lyons, KS
Coffman #1
 Job Ticket: 63381 **DST#: 3**
 Test Start: 2018.04.01 @ 08:12:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:38:30
 Time Test Ended: 15:13:50
Interval: 3108.00 ft (KB) To 3137.00 ft (KB) (TVD)
 Total Depth: 3180.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Straddle (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1367.00 ft (KB)
 1359.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 196.68 psig @ 3109.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.01 End Date: 2018.04.01 Last Calib.: 2018.04.01
 Start Time: 08:12:01 End Time: 15:13:50 Time On Btm: 2018.04.01 @ 09:33:00
 Time Off Btm: 2018.04.01 @ 12:46:30

TEST COMMENT: IF - BOB in 23 minutes
 FF - BOB in 28 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1521.23	108.13	Initial Hydro-static
6	23.19	109.06	Open To Flow (1)
36	97.17	112.80	Shut-In(1)
66	1024.10	114.01	End Shut-In(1)
66	100.64	113.67	Open To Flow (2)
126	196.68	117.04	Shut-In(2)
189	1021.54	116.93	End Shut-In(2)
194	1507.70	114.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	SOMCW 5% O 86% W 9% M	3.44
20.00	Clean oil 100% O	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer, Inc.
PO Box 352
Russell, KS 67665-2635
ATTN: Austin Klaus

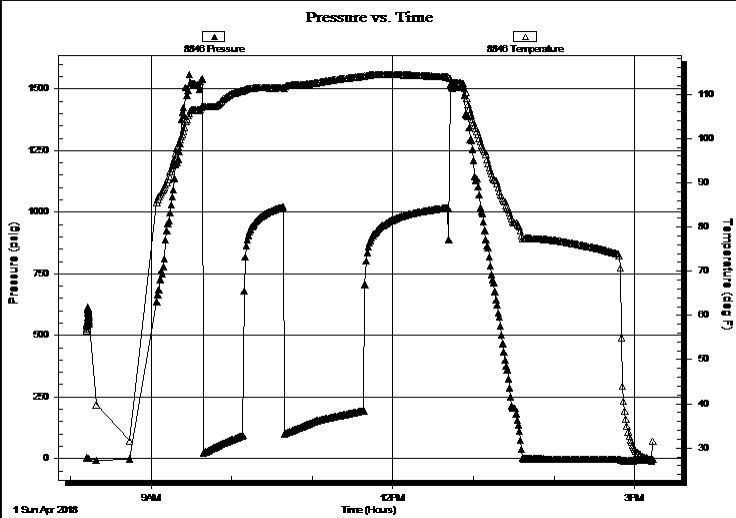
23-15S-11E Lyons, KS
Coffman #1
Job Ticket: 63381 **DST#: 3**
Test Start: 2018.04.01 @ 08:12:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:38:30
Time Test Ended: 15:13:50
Interval: **3108.00 ft (KB) To 3137.00 ft (KB) (TVD)**
Total Depth: 3180.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Reference Elevations: 1367.00 ft (KB)
1359.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Straddle (Initial)
Tester: Jimmy Riketts
Unit No: 80

Serial #: 8846 Inside
Press@RunDepth: psig @ 3109.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.04.01 End Date: 2018.04.01 Last Calib.: 1899.12.30
Start Time: 08:12:01 End Time: 15:14:00 Time On Btm:
Time Off Btm:

TEST COMMENT: IF - BOB in 23 minutes
FF - BOB in 28 minutes



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
400.00	SOMCW 5% O 86% W 9% M	3.44
20.00	Clean oil 100% O	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer, Inc.
 PO Box 352
 Russell, KS 67665-2635
 ATTN: Austin Klaus

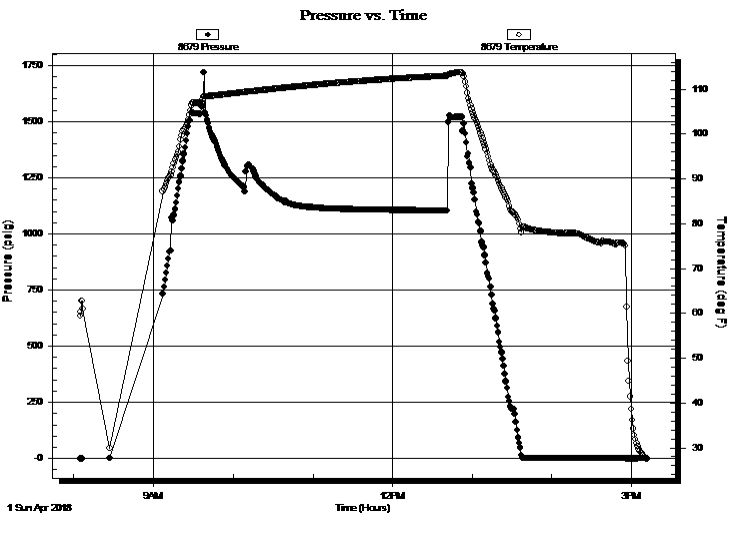
23-15S-11E Lyons, KS
Coffman #1
 Job Ticket: 63381 **DST#: 3**
 Test Start: 2018.04.01 @ 08:12:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Initial)
 Time Tool Opened: 09:38:30 Tester: Jimmy Ricketts
 Time Test Ended: 15:13:50 Unit No: 80
Interval: 3108.00 ft (KB) To 3137.00 ft (KB) (TVD) Reference Elevations: 1367.00 ft (KB)
 Total Depth: 3180.00 ft (KB) (TVD) 1359.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

Serial #: 8679 Below (Straddle)
 Press@RunDepth: psig @ 3138.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.01 End Date: 2018.04.01 Last Calib.: 1899.12.30
 Start Time: 08:05:05 End Time: 15:11:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF - BOB in 23 minutes
 FF - BOB in 28 minutes



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

Recovery		
Length (ft)	Description	Volume (bbl)
400.00	SOMCW 5% O 86% W 9% M	3.44
20.00	Clean oil 100% O	0.28

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc.
PO Box 352
Russell, KS 67665-2635
ATTN: Austin Klaus

23-15S-11E Lyons, KS
Coffman #1
Job Ticket: 63381 **DST#: 3**
Test Start: 2018.04.01 @ 08:12:00

Tool Information

Drill Pipe:	Length: 2784.00 ft	Diameter: 3.80 inches	Volume: 39.05 bbl	Tool Weight: 3200.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.70 inches	Volume: 2.21 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
		Total Volume: 41.26 bbl		Tool Chased 1.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3108.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	3137.00 ft			
Interval between Packers:	29.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3089.00	
Shut In Tool	5.00			3094.00	
Hydraulic tool	5.00			3099.00	
Packer	4.00			3103.00	20.00 Bottom Of Top Packer
Packer	5.00			3108.00	
Stubb	1.00			3109.00	
Recorder	0.00	8369	Outside	3109.00	
Recorder	0.00	8846	Inside	3109.00	
Perforations	23.00			3132.00	
Blank Off Sub	1.00			3133.00	
T.C.	4.00			3137.00	29.00 Tool Interval
Packer	0.00			3137.00	
Stubb	1.00			3138.00	
Recorder	0.00	8679	Below	3138.00	
Perforations	5.00			3143.00	
Change Over Sub	0.50			3143.50	
Blank Spacing	31.00			3174.50	
Change Over Sub	0.50			3175.00	
Bullnose	5.00			3180.00	43.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc.

23-15S-11E Lyons, KS

PO Box 352
Russell, KS 67665-2635

Coffman #1

Job Ticket: 63381

DST#: 3

ATTN: Austin Klaus

Test Start: 2018.04.01 @ 08:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

18.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

15000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: 950.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
400.00	SOMCW 5% O 86% W 9% M	3.444
20.00	Clean oil 100% O	0.281

Total Length: 420.00 ft

Total Volume: 3.725 bbl

Num Fluid Samples: 0

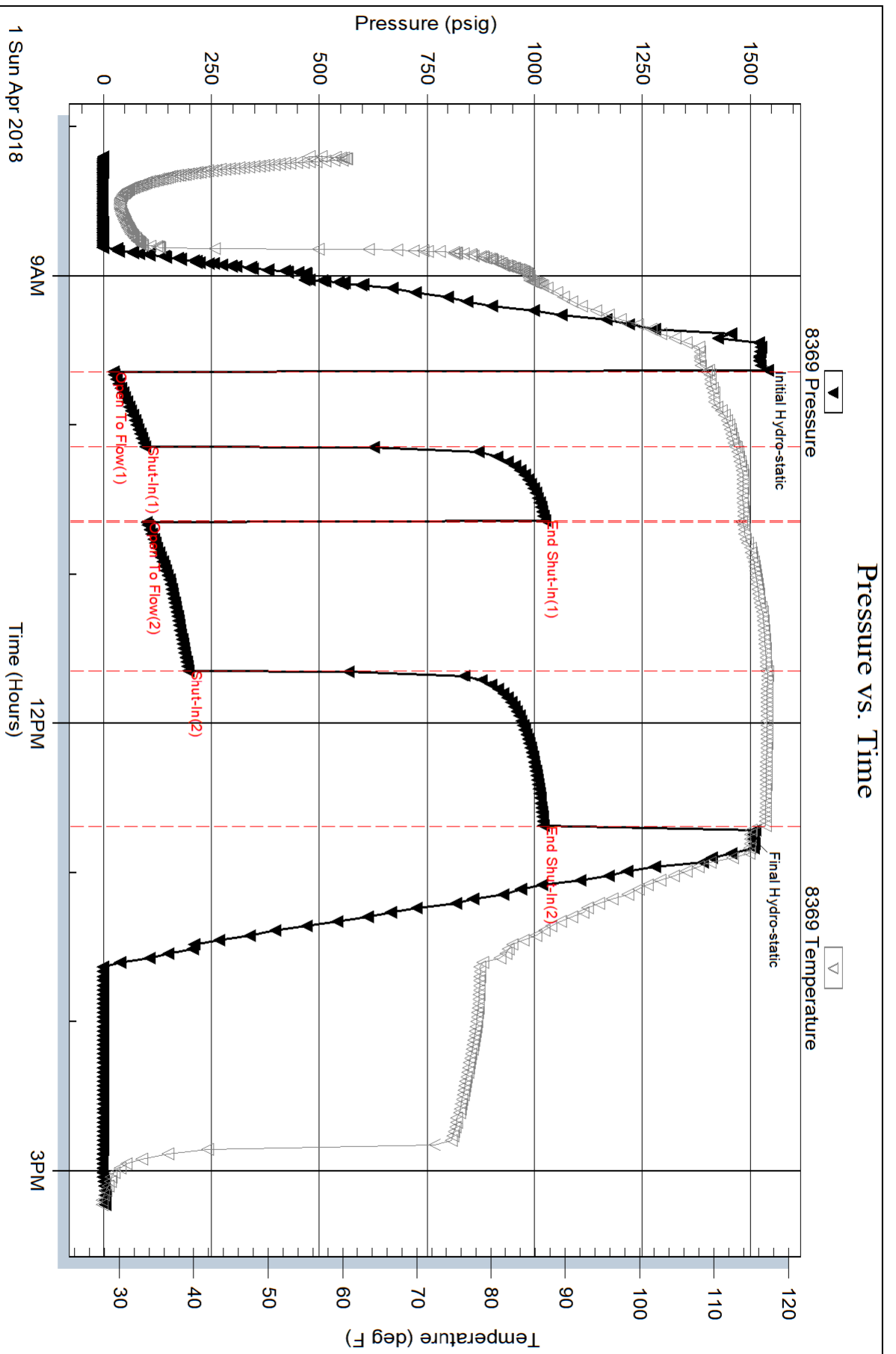
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



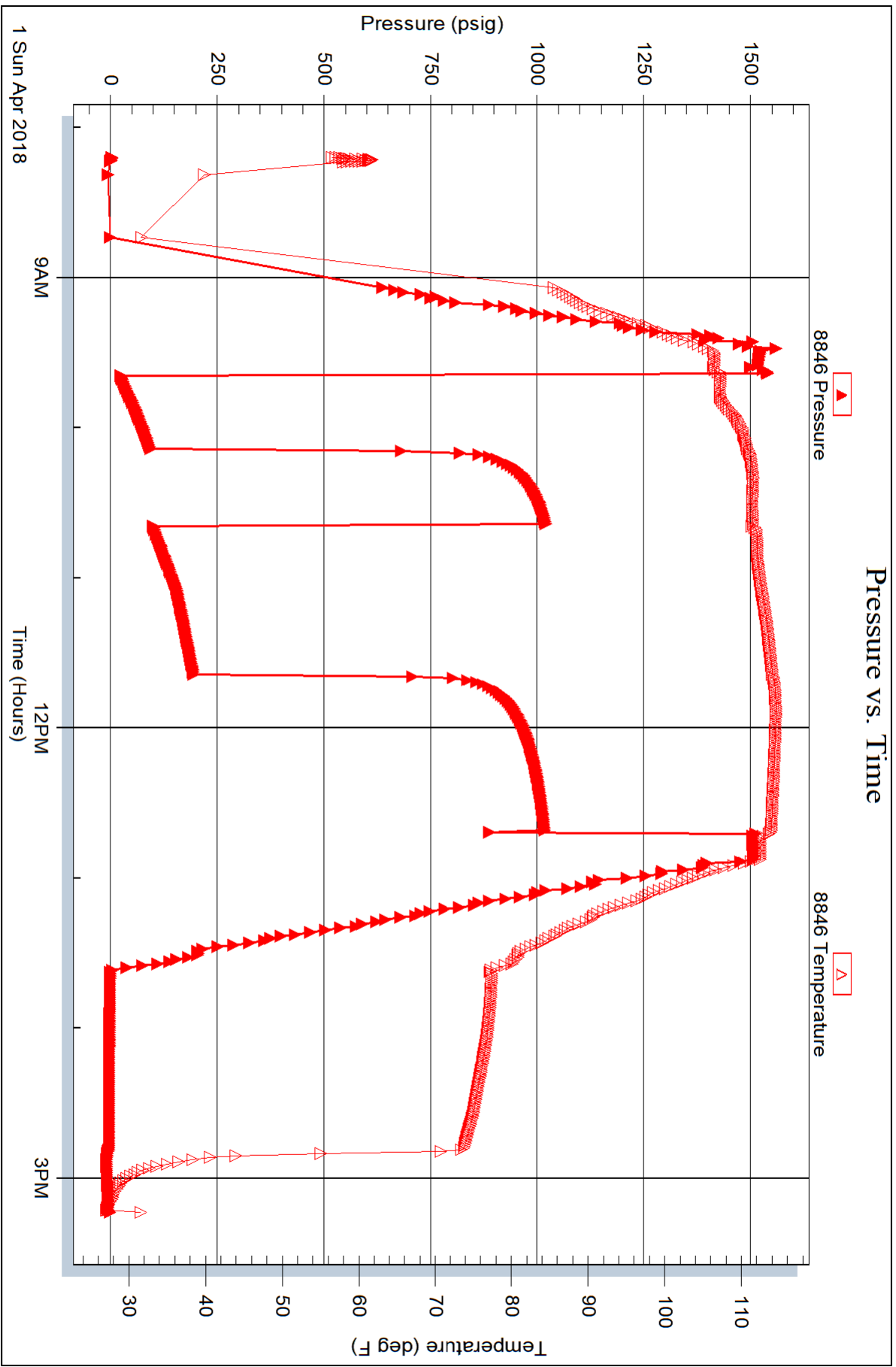
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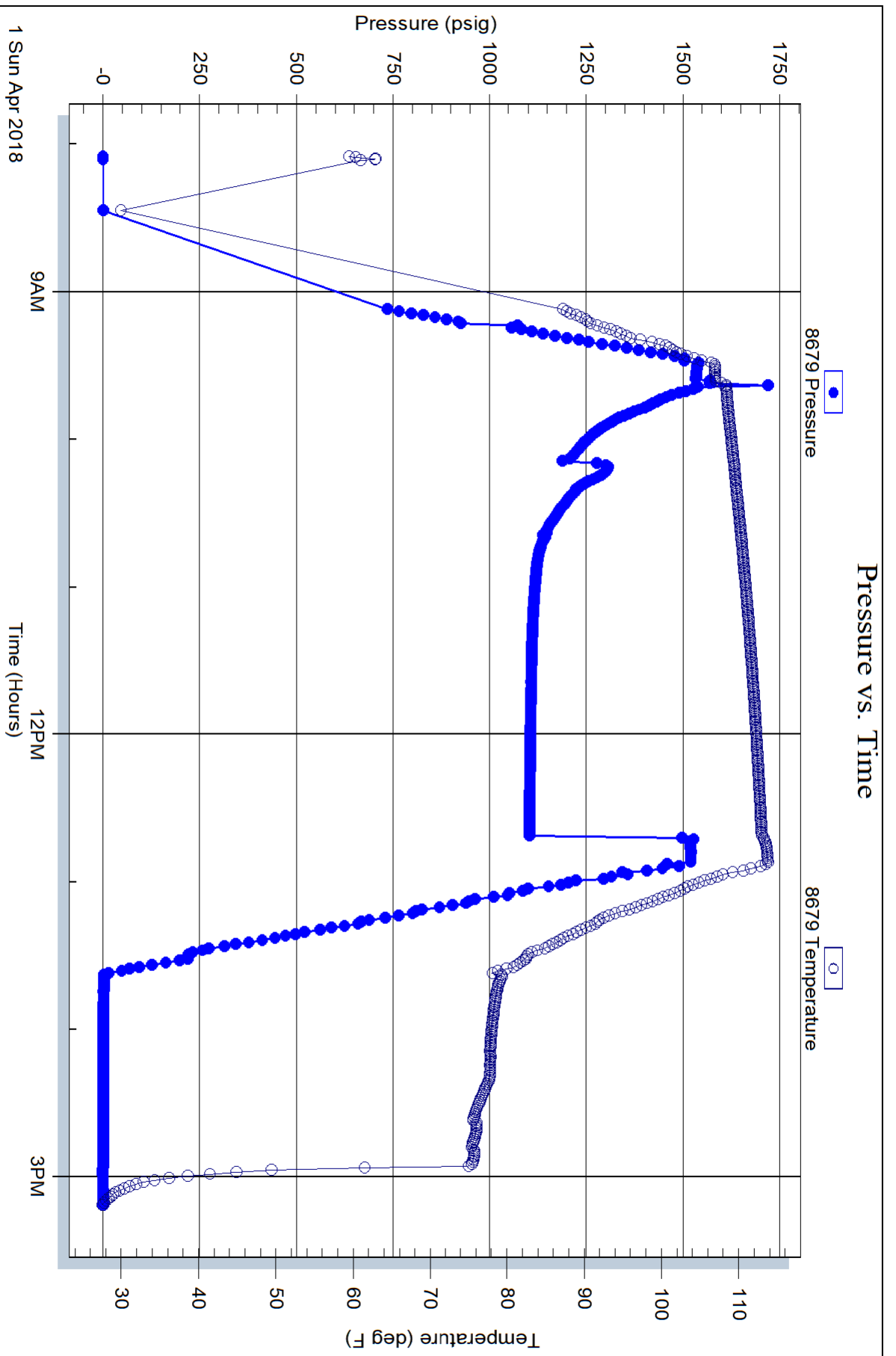
Inside

John O. Farmer, Inc.

Coffman #1

DST Test Number: 3







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63379

Well Name & No. Coffman #1 Test No. 1 Date 3-31-18
 Company John O. Farmer, Inc. Elevation 1367 KB 1359 GL
 Address P.O. Box 352 Russell, Ks. 67665-2635
 Co. Rep / Geo. John Farmer / Austin Klaus Rig Discovery Drilling #2
 Location: Sec. 23 Twp 15S Rge. 11E Co. Lxous State Ks

Interval Tested 3108-3120 Zone Tested Simpson Sand
 Anchor Length 12' Drill Pipe Run 2783 Mud Wt. 9.3
 Top Packer Depth 3103 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 3108 Wt. Pipe Run 312 WL 8.0
 Total Depth 3120 Chlorides 830 ppm System LCM
 Blow Description IF-weak blow building to 5 inches IFP.
FF-weak blow building to 6 inches FFP
FSS - Surface blow back during FSP

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Heavy oil cut mud</u>		<u>24%</u>		<u>76%</u>
<u>65</u>	<u>Clean oil</u>		<u>100%</u>		

Rec Total 125 BHT 114 Gravity 30.5 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1540</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>2200</u>
(B) First Initial Flow <u>16</u>	<input type="checkbox"/> Jars _____	T-Started <u>2243</u>
(C) First Final Flow <u>31</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>0002</u>
(D) Initial Shut-In <u>1014</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0302</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0430</u>
(F) Second Final Flow <u>64</u>	<input checked="" type="checkbox"/> Mileage <u>230</u> <u>RT 230</u>	Comments _____
(G) Final Shut-In <u>1022</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1508</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>36</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1280</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1280</u>	

Approved By _____ Our Representative Jimmy Ribbels
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63380

Well Name & No. Coffman #1 Test No. 2 Date 3-1-18
 Company John O. Farmer, Inc. Elevation 1367 KB 1359 GL
 Address P.O. Box 352 Russell, KS 67665-2635
 Co. Rep / Geo. John Farmer / Austin Klaus Rig Discovery Drilling #2
 Location: Sec. 23 Twp 15 S Rge. 11 E Co. Lyons State KS

Interval Tested 3109-3125 Zone Tested Simpson Sand
 Anchor Length 16' Drill Pipe Run 2783 Mud Wt. 9.35
 Top Packer Depth 3104 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 3109 Wt. Pipe Run 312 WL 8.0
 Total Depth 3125 Chlorides 950 ppm System LCM
 Blow Description IF - weak blow building to 6 inches IFP
FF - Surface blow building to 5 inches FFA

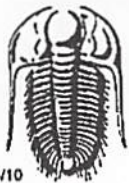
Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Heavy oil cut mud</u>		<u>20%</u>	<u>80%</u>	
<u>60</u>	<u>clean oil</u>		<u>100%</u>		

Rec Total 125 BHT 110 Gravity 24.0 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1531</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1020</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars _____	T-Started <u>1057</u>
(C) First Final Flow <u>38</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>1159</u>
(D) Initial Shut-In <u>1009</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1459</u>
(E) Second Initial Flow <u>41</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1640</u>
(F) Second Final Flow <u>67</u>	<input checked="" type="checkbox"/> Mileage <u>166</u> <u>RT 166</u>	Comments _____
(G) Final Shut-In <u>1021</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1504</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1216</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1216</u>	

Approved By [Signature] Our Representative Jimmy Dickbets

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63381

Well Name & No. Coffman #1 Test No. 3 Date 4-1-18
 Company John O. Farmer, Inc. Elevation 1367 KB 1359 GL
 Address P.O. Box 352 Russell, KS. 67665-2635
 Co. Rep / Geo. John Farmer / Austin Klaus Rig Discovery Drilling #2
 Location: Sec. 23 Twp 15 S Rge. 11 E Co. Lyons State KS

Interval Tested 3108 - 3137 Zone Tested Simpson Sand
 Anchor Length 29' Drill Pipe Run 2784 Mud Wt. 9.2
 Top Packer Depth 3103 mid 3108 Drill Collars Run 0 Vls 49
 Bottom Packer Depth 3137 Wt. Pipe Run 312 WL 8.0
 Total Depth 3180 Chlorides 950 ppm System LCM

Blow Description IF - weak blow building to strong blow 23 mins into FFP
FF - weak blow building to strong blow 28 mins into FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>400</u>	<u>Oil + mud cut water</u>		<u>5%</u>	<u>86%</u>	<u>9%</u>
<u>20</u>	<u>Clean Oil</u>		<u>100%</u>		

Rec Total 420 BHT 117 Gravity 18.8 API RW 887 @ 35 °F Chlorides 15000 ppm

(A) Initial Hydrostatic 1521 Test 1050 T-On Location 0700
 (B) First Initial Flow 23 Jars _____ T-Started 0805 0812
 (C) First Final Flow 97 Safety Joint _____ T-Open 0939
 (D) Initial Shut-In 1024 Circ Sub _____ T-Pulled 1242
 (E) Second Initial Flow ~~101~~ 101 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 197 Mileage 400rt RT 166 Comments _____
 (G) Final Shut-In 1022 Sampler _____
 (H) Final Hydrostatic 1508 Straddle 600 Ruined Shale Packer _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 60 Extra Recorder _____
 Final Shut-In 63 Day Standby _____
 Sub Total 2050 Accessibility _____
 Total 2050 MP/DST Disc't _____

Approved By _____ Our Representative Jimmy Rickelth

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Coffman #1
Location: Lyon County
License Number: API #15-111-20533-00-00
Spud Date: 3/25/18
Surface Coordinates: Section 23, Township 15 South, Range 11 East
Bottom Hole Coordinates: Vertical well w/ minimal deviation, same as above
Ground Elevation (ft): 1,359' **K.B. Elevation (ft):** 1,367'
Logged Interval (ft): 2,200 **To:** RTD **Total Depth (ft):** 3,180
Formation: Miss-Arbuckle
Type of Drilling Fluid: Chemical (Mud Co.)

Region: Kansas

Drilling Completed: 4/1/18

330' FNL & 2,550' FWL

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OPERATOR

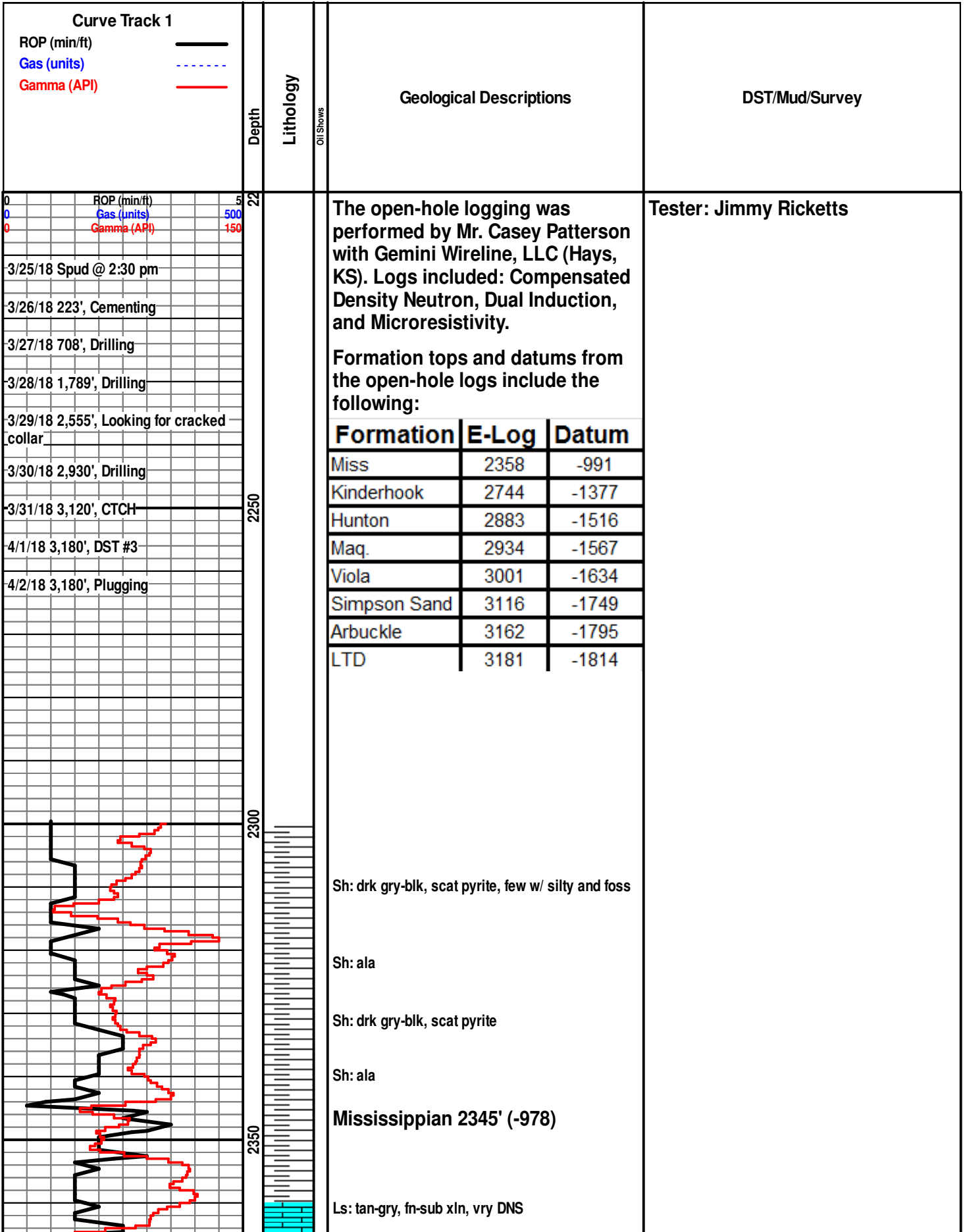
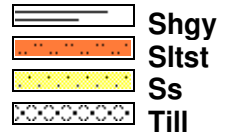
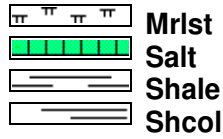
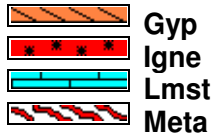
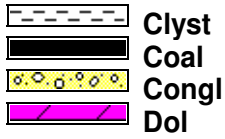
Company: John O. Farmer, Inc.
Address: 370 W. Wichita Ave.
Russell, KS 67665

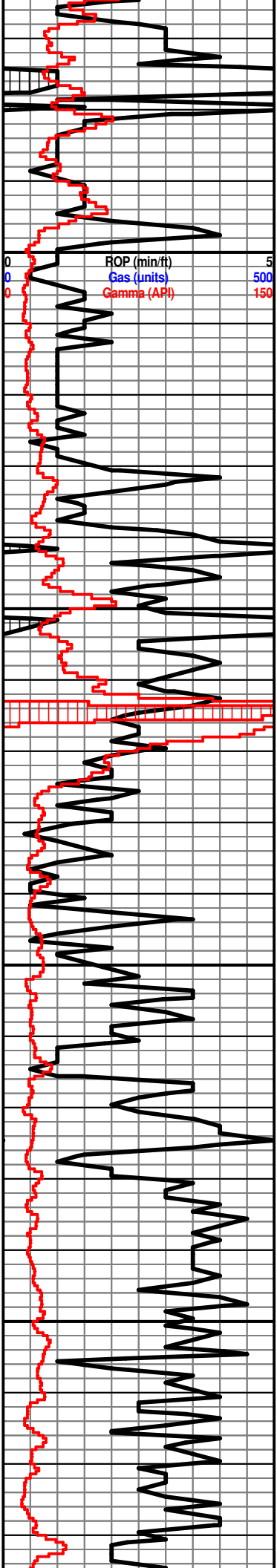
Comments

The Coffman #1 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Terry Wickham).

The location for the Coffman #1 was discovered via 3D seismic survey. Rock samples were gathered and evaluated from 2,300' - 3,180'. Oil shows were encountered in the Simpson Sand. Structurally, the Mississippian top was picked flat to the comparison well, Wheat Farm A #1 (110' FNL & 2,310' FEL Sec. 14). The Simpson Sand was encountered 2' high to the comparison well. Three drill stem tests were conducted in the Simpson Sand (see results below). After evaluation of all oil shows, drill stem tests, and electric logs, it was decided that the Coffman #1 be plugged on 4/1/218.

ROCK TYPES





Ls: off wh-tan, fn-sub xln, vry DNS, scat fossil,
scat chert: off wh-gry

Dolo: off wh-tan, fn-md xln, scat foss, mostly
DNS, scat chert-off wh

Dolo: ala

Dolo: tan-lt gry, fn-sub xln, mostly DNS, scat foss,
scat chert-off wh, NSFO

Dolo: tan-brn, fn-sub xln, poor int vug porosity,
scat chert-off wh, NSFO

Dolo: ala

Dolo: tan-gry, fn-sub xln, scat int vug porosity,
NSFO, scat chert-off wh

Dolo: tan-gry, fn-vry fn xln, mostly DNS, scat foss,
NSFO

Dolo: ala

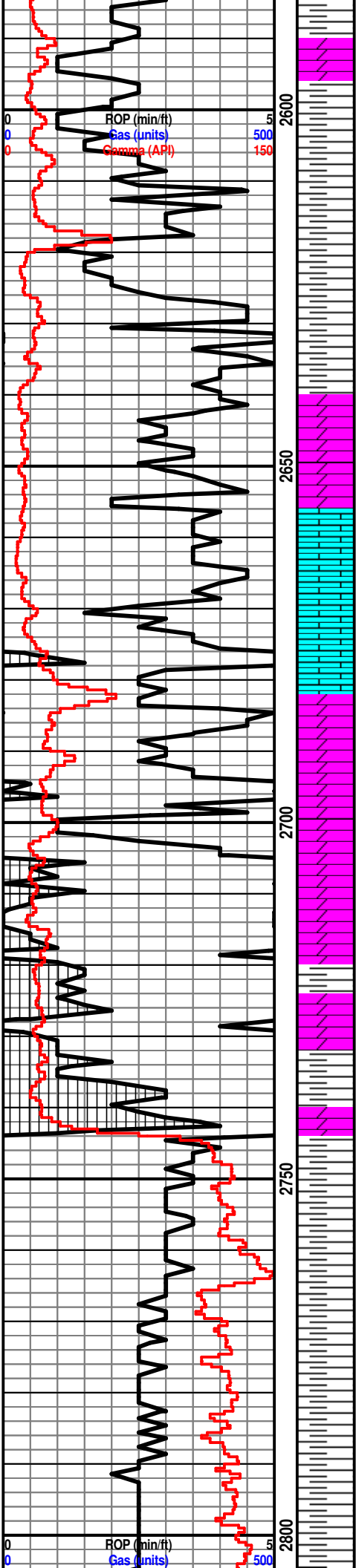
Dolo: off wh-tan, fn-micro xln, scat in xln porosity,
NSFO

Dolo: ala

Dolo: tan-gry-brn, fn-sub xln, mostly DNS, NSFO,
scat foss

Dolo: tan-gry-brn, fn-micro xln, mostly DNS,
NSFO, scat sh: drk gry-blk

Chert: off wh-gry, mott foss, scat dolo: ala, scat
sh: drk gry



Sh: lt-drk gry, blk, scat chert: ala

Sh: ala

Sh: lt-drk gry, grn, few pcs soft

Sh: ala

Dolo: off wh-tan, fn-micro xln, poor int xln porosity, NSFO

Ls: off wh-tan, fn-sub xln, scat ool, chalky, NSFO, scat dolo: off wh-crm

Ls: ala

Dolo: drk brn-gry, fn-vry fn xln, sub sucrosic, scat int chert

Dolo: ala

Dolo: drk brn-tan-gry, fn-vry fn xln, mostly DNS, scat ls: off wh-crm, NSFO

Sh: drk gry-blk, scat grn

Sh: ala

Kinderhook 2742 (-1375)

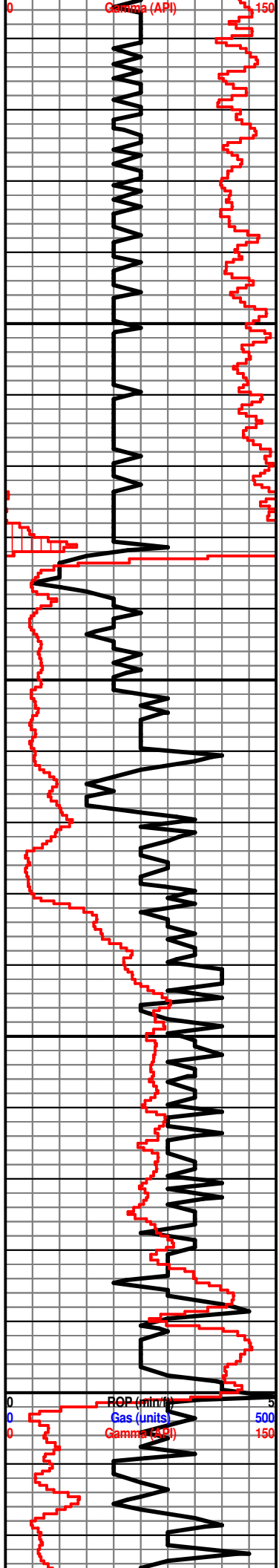
Sh: lt-drk gry, scat grn

Sh: ala

Sh: drk gry, scat brn & grn, scat pyrite

Sh: lt gry, soft

Sh: drk gry, soft, scat grn



Sh: ala

Sh: lt-drk gry, scat grn, some silty

Sh: drk gry

Sh: ala

Sh: drk brn, carb

Hunton 2880' (-1513)

Ss: qtz, off wh-clr, fn-md grn, poor-fair sorting, well rnd, fairly well cemented, fair int grn porosity, mostly barren, NSFO, sl odor, scat chert-wh

Chert: wh-gry, mot foss, trip, NSFO

Dolo: tan-gry, fn-sub xln, scat vuggy porosity, mostly DNS, NSFO, scat chert: off wh-gry, sharp

Dolo: ala

Maquoketa 2934' (-1567)

Siltstone: lt-drk gry, sil, mostly DNS

Sh: lt-drk gry, scat sltst

Sh: ala, scat dolo: off wh-gry, fn-sub xln, mostly DNS

Sh: ala

Sh: lt-drk gry, scat brn, dolo: tan-gry, fn-sub xln, DNS, scat pyrite

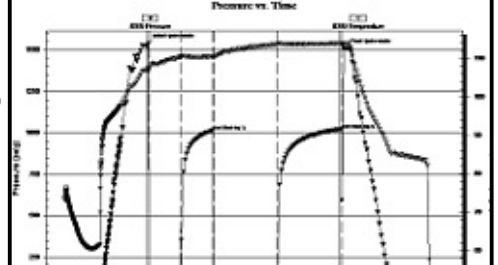
Viola 2998' (-1631)

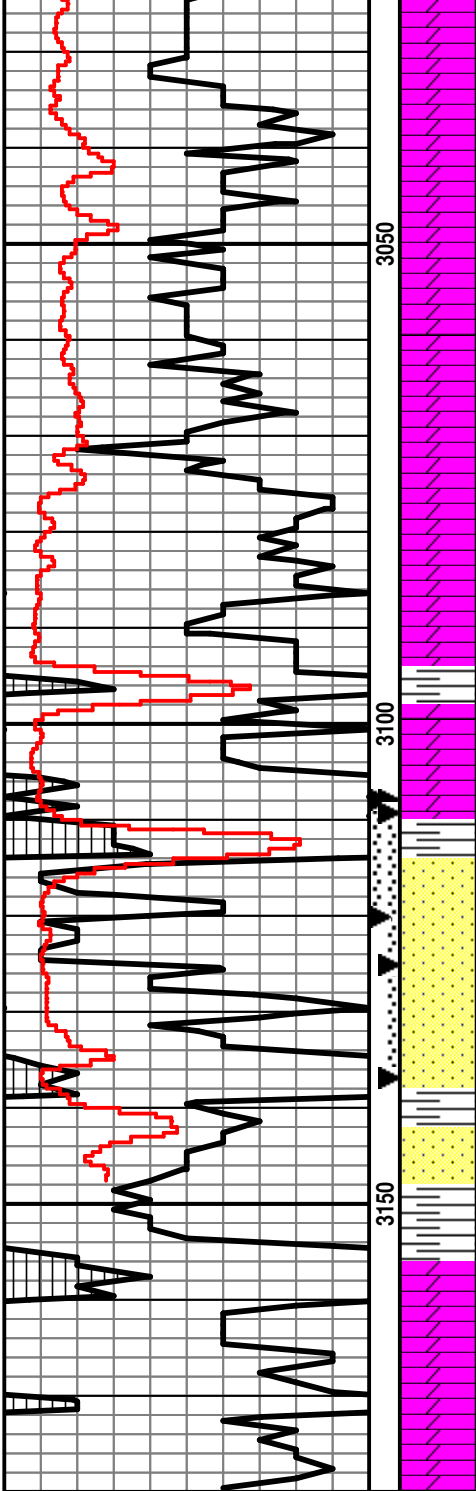
Dolo: off wh-lt gry, fn-md xln, poor int xln porosity, scat heavy tar oil in porosity, fair pung odor

Dolo: lt-drk brn, scat gry, fn-md xln, poor int xln porosity, scat chert-off wh

DST #1 3,108-3,120' (Top 9' Simpson Sand)

30"-30"-60"-60"
 IF: weak blow built to 5"
 FF: weak blow built to 6", surface blow back on shut in
 Rec: 65' Clean Oil
 60' Heavy Oil Cut Mud (24% O, 76% M)
 125' Total Fluid Recovery
 FP: 16-31, 34-64#
 SIP: 1,014-1,022#
 HP: 1,540-1,508#
 BHT: 114"





Dolo: lt-drk brn, fn-micro xln, poor int xln porosity, NSFO, scat chert-drk gry

Dolo: ala

Dolo: lt-drk brn, fn-micro xln, mostly DNS, scat chert-drk gry

Dolo: tan-gry, fn-micro xln, vry DNS, no visible porosity, NSFO, scat chert-off wh

Simpson Dolomite 3092' (-1725)

Dolo: off wh-tan, fn-micro xln, scat poor int xln porosity, poor-fair oil sat, SSFO, strong odor, dull yel fluor

Simpson Sand 3111' (-1744)

Ss: qtz, off wh, fn-md grn, fairly well rnd, friable, fair-good int grn porosity, good drk oil sat, GSFO, strong odor

Ss: qtz, off wh-clr, fn-md grn, fairly well sorted, poor int grn porosity, SSFO, sl odor, int bd sh: drk gry

Ss: qtz, off wh-clr, vry fn-md grn, poorly sorted, fair int grn porosity, mostly barren, int bd sh: drk gry

Ss: qtz, wh, vry fn-fn grn, fairly well sorted, well rnd, poor int grn porosity, well cemented, NSFO

Arbuckle 3156' (1789)

Dolo: tan-gry, fn-sub xln, vry DNS, NSFO

Dolo: ala

