

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	Fossil Resources LLC
Well Name	NELSON 4
Doc ID	1425551

All Electric Logs Run

CDN
DIL
SONIC
MICRO

GLOBAL OIL FIELD SERVICES, LLC

3154X

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>4/15/18</u>	SEC. <u>33</u>	TWP. <u>12</u>	RANGE <u>36W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>4/15/18</u>	WELL #. <u>4</u>	LOCATION <u>7 miles N of Russell, 2 South</u>			COUNTY <u>Cherokee</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Global Oil Field Services, LLC

TYPE OF JOB Well Completion

HOLE SIZE 12 1/4 T.D.

CASING SIZE 3 1/2 DEPTH 263'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 0

PERFS

DISPLACEMENT

OWNER Fossil Resources

CEMENT AMOUNT ORDERED 2000 lbs / 100 bbl

EQUIPMENT

PUMP TRUCK CEMENTER 1

100 HELPER 1

BULK TRUCK

1 DRIVER 1

BULK TRUCK

DRIVER

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Well completion for well 4, 7 miles N of Russell, 2 South, Cherokee Co, KS. Cemented 263' with 3 1/2" casing. 2000 lbs cement, 100 bbl gel, 100 bbl Pozmix, 100 bbl Chloride, 100 bbl ASC.

CHARGE TO: Fossil Resources

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

Global Oil Field Services, 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 [Signature]

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



CHARGE TO: *Personal Resources*
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 27306
 PAGE 1 OF 1

SERVICE LOCATIONS
 1. *Days* WELL/PROJECT NO. # *4* LEASE *Nelson* COUNTY/PARISH *Louisiana* STATE *LA* CITY DATE *8-24-18* OWNER
 2. *Ness City, KS* CONTRACTOR *Discovery Drilling* RIG NAME/NO. *Rig # 1* SHIPPED VIA *Truck* DELIVERED TO *Location* ORDER NO.
 3. WELL TYPE *0/1* WELL CATEGORY *development* JOB PURPOSE *2nd stage CS.* WELL PERMIT NO. WELL LOCATION
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
						QTY.	UM	UM		
					MILEAGE					
					<i>For All</i>	<i>1</i>	<i>mi</i>		<i>5.00</i>	<i>5.00</i>
					<i>Ramp Charge - Two Slugs</i>	<i>1</i>	<i>hr</i>		<i>1800.00</i>	<i>1800.00</i>
					<i>Drive</i>	<i>6</i>	<i>hr</i>		<i>42.00</i>	<i>252.00</i>
					<i>Louisia bit</i>	<i>4</i>	<i>hr</i>		<i>25.00</i>	<i>100.00</i>
					<i>Blowfish</i>	<i>570</i>	<i>hr</i>		<i>1.50</i>	<i>750.00</i>
					<i>Antminer</i>	<i>90</i>	<i>hr</i>		<i>70.00</i>	<i>6300.00</i>
					<i>Concrt Basket</i>	<i>3</i>	<i>hr</i>		<i>275.00</i>	<i>825.00</i>
					<i>Turret Foot Shoe w/ Drill Bit</i>	<i>1</i>	<i>hr</i>		<i>325.00</i>	<i>325.00</i>
					<i>Dr. Tool & Plug Set</i>	<i>1</i>	<i>hr</i>		<i>3325.00</i>	<i>3325.00</i>
					<i>Dr. Tool Catd. Down Plug 1 Bush</i>	<i>1</i>	<i>hr</i>		<i>200.00</i>	<i>210.00</i>

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 X DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.
 REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300
 SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 CUSTOMER DID NOT WISH TO RESPOND
 TAX
 TOTAL
 SWIFT OPERATOR *David Eberhard* APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE
8-24-18

PAGE NO.

CUSTOMER
Fossil Resources

WELL NO.
#4

LEASE
Nelson

JOB TYPE
2 stage

TICKET NO.
27386

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1430							On location
								5 1/2 csg x 17# TD- 4516 Centralcees - 7, 10, 15, 21, 27 51, 58, 64, 84 Baskets 1, 51, 58 D.V. TOOL - 49 @ 2543
	1630							Start running csg
	1830							Circ on Bottom
		6	12			306		Pump mud flush - 500 gal
		6	20			300		Pump Kel spacer
		5	48			200		Take on mud for Disp pump CMT - 200 sts EA-2@15.5" Drop plug
		7	0			200		Start Disp
	2000	5	104			1500/1400		land plug - 1400 psi - 700# land psi - 1400#
								Release psi - Dry
	2005	2.5	8			0		plug rat hole - 30 sts
	2010	2.5	4			0		plug mouse hole - 20 sts
	2010							Drop D.V. opening bomb
	2020					1400		Open A.V. TOOL
	2070	6.5	0			300		start CMT - 275 sts Smell 11.2" End CMT
		6.5	155			100		Drop plug
		6	0					start Disp
	2050	6	55					Circ CMT - 10 sts 40 pit
	2100	6	59			900/1500		land plug - 1400 psi - 800# land psi - 1500#
								Release psi - Dry
								Thanks David, Zach, Kirby & Dusty



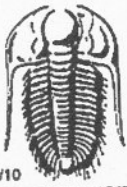
PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 27286

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE	PAGE			
		LOC	ACCT	DF			QTY	U/M		QTY	U/M	UNIT PRICE	AMOUNT
330		2				Swift Multi-Propell	295	lbs	16	25	5281	25	
325		2				Standard Cement	240	skt	13	00	2600	00	
384		2				Chascoal	9	gas	35	00	315	00	
285		2				Salt	1400	lbs	90	00	220	00	
292		2				Blahad 322	400	lbs	8	00	810	00	
276		2				Flucile	130	lbs	2	50	325	00	
581		2				Service Charge					135	75	
583		2				Mileage Charge					285	65	
TOTAL							5333					918	75
TOTAL WEIGHT							5333					2868	65
TOTAL CHARGE												10738	65

CONTINUATION TOTAL 10738 65



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64421

Well Name & No. Nelson #4 Test No. 5 Date 8/22/2018
 Company Fossil Resources, LLC Elevation 3136 KB 3128 GL
 Address 111 W 26th St Hays KS 67601
 Co. Rep / Geo. Lyle Herrman Rig Discovery #1
 Location: Sec. 33 Twp 12c Rge. 36w Co. Logan State Ks

Interval Tested 4239-4265 Zone Tested Pleasanton
 Anchor Length 26' Drill Pipe Run 3946 Mud Wt. 8.7
 Top Packer Depth 4234 Drill Collars Run 250 Vis 52
 Bottom Packer Depth 4239 Wt. Pipe Run 280 WL 8.0
 Total Depth 4265 Chlorides 6,000 ppm System LCM 2 1/2 #
 Blow Description IF 1 1/2" blow
ISI No return
FF Surface blow
ISI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>WCM</u>			<u>20</u>	<u>80</u>
	<u>oil spots</u>				

Rec Total 45 BHT 119 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2024 Test 2115 T-On Location
 (B) First Initial Flow 17 Jars 2218 T-Started
 (C) First Final Flow 26 Safety Joint 005 T-Open
 (D) Initial Shut-In 1113 Circ Sub 0315 T-Pulled
 (E) Second Initial Flow 26 Hourly Standby 0500 T-Out
 (F) Second Final Flow 31 Mileage
 (G) Final Shut-In 1078 Sampler
 (H) Final Hydrostatic 2020 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total _____

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total _____
 Total _____
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 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.

DRILL STEM TEST REPORT

Fossil Resources, LLC
 111 W 36th St.
 Hays, Ks 67601
 ATTN: Lyle Herrman

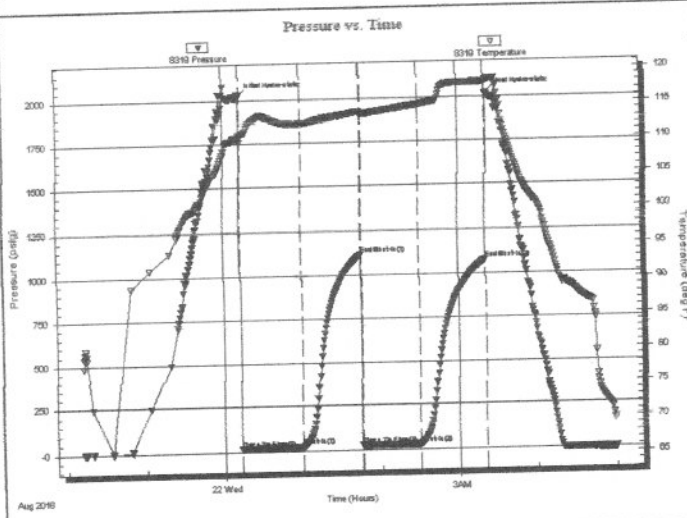
33 12s 36w Logan, Ks
Nelson #4
 Job Ticket: 64421 DST#: 5
 Test Start: 2018.08.21 @ 22:12:00

GENERAL INFORMATION:

Formation: **Pleasanton**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 00:13:00
 Time Test Ended: 05:00:00
 Interval: **4239.00 ft (KB) To 4265.00 ft (KB) (TVD)**
 Total Depth: **4265.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Bradley Walter**
 Unit No: **78**
 Reference Elevations: **3136.00 ft (KB)**
 3128.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 8319 **Outside**
 Press@RunDepth: **31.47 psig @ 4240.00 ft (KB)**
 Start Date: **2018.08.21** End Date: **2018.08.22**
 Start Time: **22:12:00** End Time: **05:00:00**
 Capacity: **8000.00 psig**
 Last Calib.: **2018.08.22**
 Time On Btm: **2018.08.22 @ 00:12:30**
 Time Off Btm: **2018.08.22 @ 03:22:15**

TEST COMMENT: IF: 1 1/2" blow.
 IS: No return.
 FF: Surface blow.
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2024.29	110.69	Initial Hydro-static
1	17.03	109.62	Open To Flow (1)
48	26.15	112.34	Shut-In(1)
93	1113.46	113.96	End Shut-In(1)
93	26.13	113.68	Open To Flow (2)
138	31.47	114.89	Shut-In(2)
189	1077.51	118.02	End Shut-In(2)
190	2020.21	118.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	w cm 20w 80m (oil spots)	0.33

Gas Rates

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

* Recovery from multiple tests

Serial #: 8319

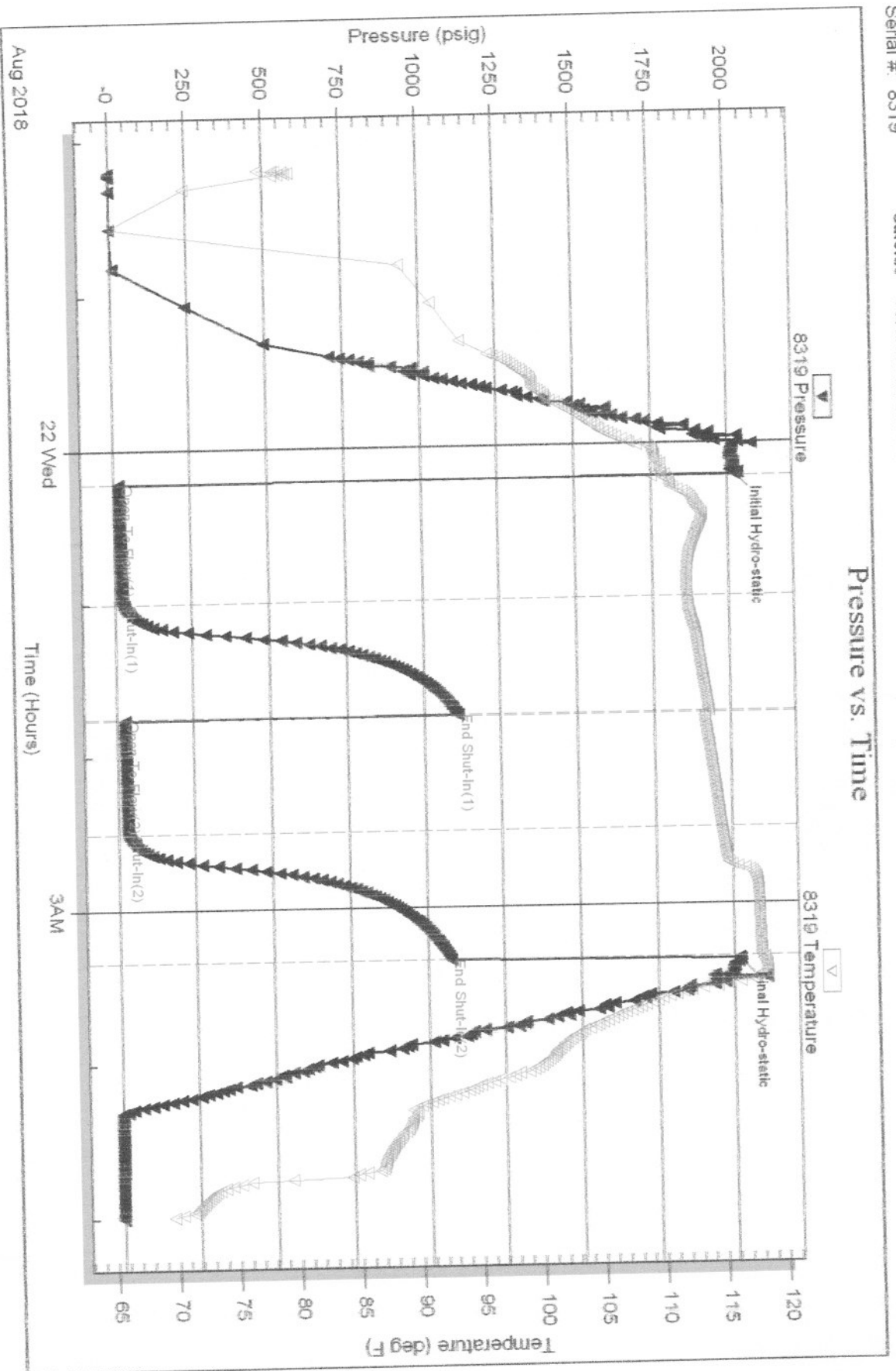
Outside

Fossil Resources, LLC

Wellson #4

DST Test Number: 5

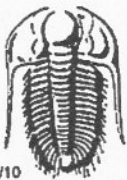
Pressure vs. Time



Trickle Testing, Inc

Ref. No: 64421

Printed: 2018.08.22 @ 05:13:27



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64420

Well Name & No. Nelson #4 Test No. 41 Date 8/21/2018
 Company Fossil Resources, LLC Elevation 3136 KB 3128 GL
 Address 111 W 26th St Hays, KS 67601
 Co. Rep / Geo. Lyle Herman Rig Discovery #1
 Location: Sec. 33 Twp 12 S Rge. 36 W Co. Logan State Ks

Interval Tested 3136 375 4094-4145 Zone Tested LKC T
 Anchor Length 51 Drill Pipe Run 3860 Mud Wt. 87
 Top Packer Depth 4089 Drill Collars Run 280 Vls 50
 Bottom Packer Depth 4094 Wt. Pipe Run 280 WL 10.4
 Total Depth 4145 Chlorides 14000 ppm System LCM 2nd
 Blow Description IF 1" blow receded to surface
FST No return
FF Surface blow
FST No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>mcw</u>			<u>50</u>	<u>50</u>
	<u>oil spots on top</u>				

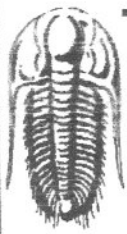
Rec Total 90 BHT 115 Gravity — API RW .242 @ 66 °F Chlorides 30000 ppm

(A) Initial Hydrostatic <u>1986</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>2315</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars	T-Started <u>2344</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0218</u>
(D) Initial Shut-In <u>1170</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/4</u>	T-Pulled <u>0518</u>
(E) Second Initial Flow <u>40</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0757</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage	Comments _____
(G) Final Shut-In <u>1119</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1979</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total _____
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total _____
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total _____	

Approved By _____

Our Representative [Signature]

Tritobite 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.

DRILL STEM TEST REPORT

Fossil Resources, LLC

111 W 36th St.
Hays, Ks 67601

ATTN: Lyle Herrman

33 12s 36w Logan, Ks

Nelson #4

Job Ticket: 64420

DST#: 4

Test Start: 2018.08.20 @ 23:44:00

GENERAL INFORMATION:

Formation: LKC- I
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:18:30
Time Test Ended: 07:56:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 4094.00 ft (KB) To 4145.00 ft (KB) (TVD)
Total Depth: 4145.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3136.00 ft (KB)
3128.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8522

Inside

Press@RunDepth: 56.86 psig @ 4095.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.20

End Date:

2018.08.21

Last Calib.: 2018.08.21

Start Time: 23:44:00

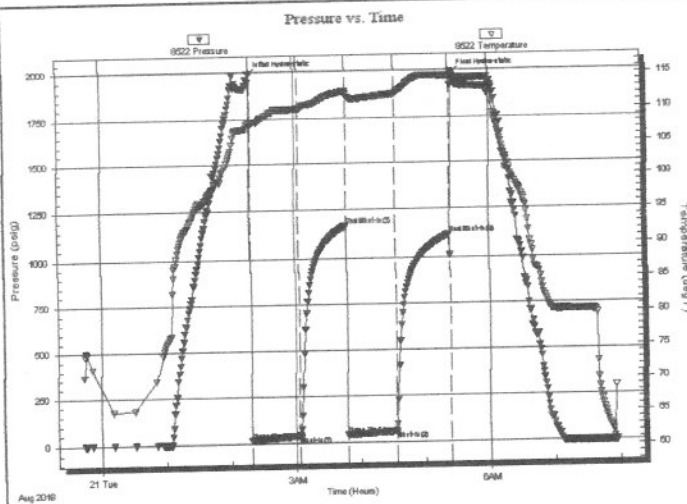
End Time:

07:56:45

Time On Btm: 2018.08.21 @ 02:18:15

Time Off Btm: 2018.08.21 @ 05:25:45

TEST COMMENT: IF: 1" blow, receded to Surface.
IS: No return.
FF: Surface blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1986.31	108.16	Initial Hydro-static
1	15.15	107.49	Open To Flow (1)
45	37.64	110.09	Shut-in(1)
89	1170.38	112.62	End Shut-in(1)
90	40.19	112.13	Open To Flow (2)
135	56.86	112.17	Shut-in(2)
185	1118.63	114.69	End Shut-in(2)
188	1979.30	114.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	mcw 50m 50w (oil spots on top)	0.66

* Recovery from multiple tests

Gas Rates

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

DST Test Number: 4

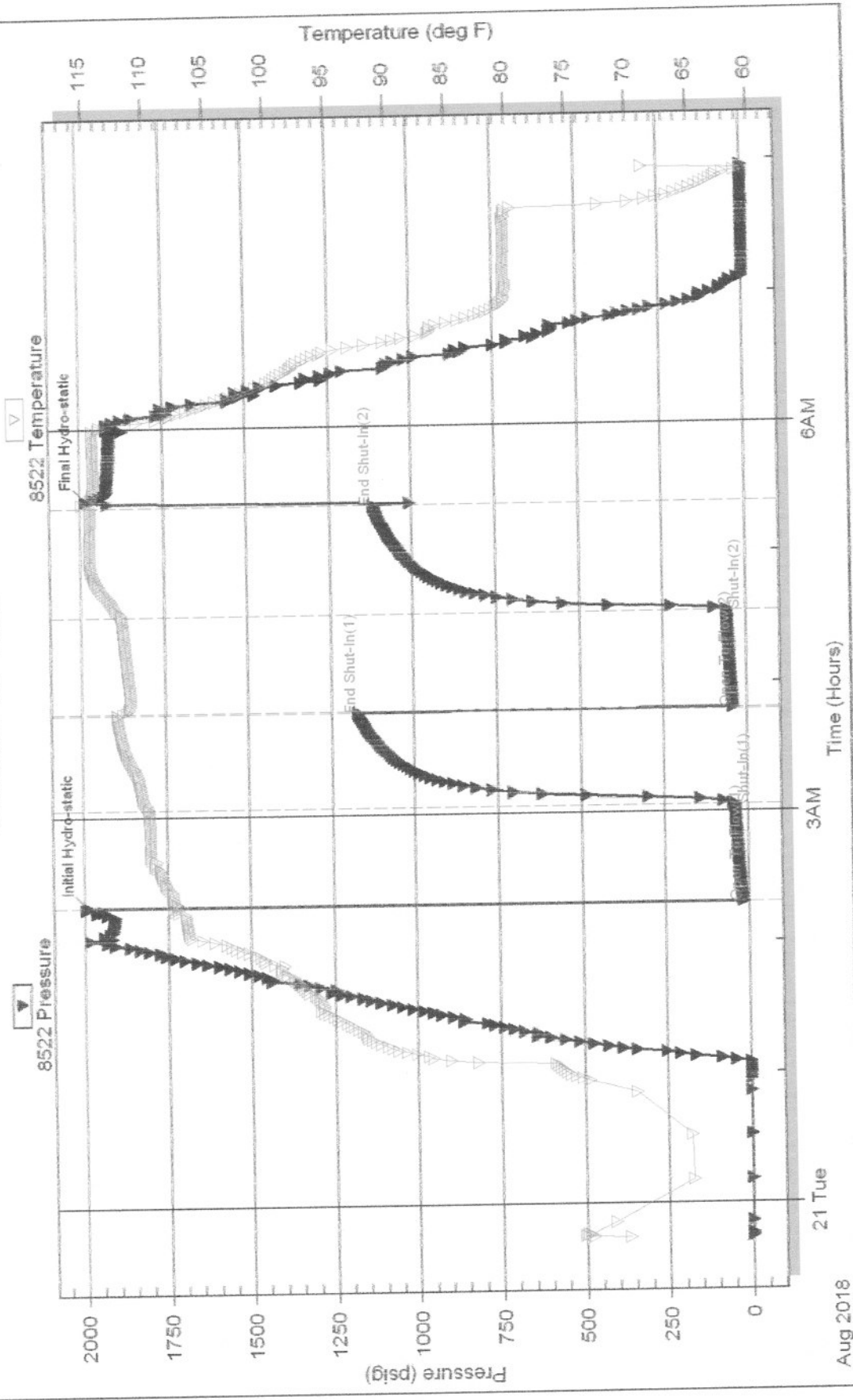
Nelson #4

Fossil Resources, LLC

Inside

Serial #: 8522

Pressure vs. Time



6AM

3AM

21 Tue

Aug 2018

Printed: 2018.08.21 @ 05:08:25

Ref. No: 64420

Trilobite Testing, Inc



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64419

Well Name & No. Nelson #4 Test No. 3 Date 8/20/2018
 Company Fossil Resources, LLC Elevation 3136 KB 5128 GL
 Address 111 W 26th St Hays KS 67601
 Co. Rep / Geo. Lyle Herrman Rig Discovery #1
 Location: Sec. 33 Twp 12S Rge. 36W Co. Logan State Ks

Interval Tested 3958-3985 Zone Tested LKC * D
 Anchor Length 27' Drill Pipe Run 3661 Mud Wt. 8.9
 Top Packer Depth 3953 Drill Collars Run — Vis 51
 Bottom Packer Depth 3958 Wt. Pipe Run 280 WL 8.8
 Total Depth 3985 Chlorides 10500 ppm System LCM 3#
 Blow Description IF 2" blow, receded to surface.
IST No return.
FF Surface return blow
FGT No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>0.1</u>		<u>100</u>		
<u>330</u>	<u>mca (oil spots)</u>			<u>95</u>	<u>5</u>

Rec Total 350 BHT 117 Gravity 29 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1940</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>2315</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars	T-Started <u>2348</u>
(C) First Final Flow <u>123</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0212</u>
(D) Initial Shut-In <u>726</u>	<input checked="" type="checkbox"/> Circ Sub <u>NK</u>	T-Pulled <u>0512</u>
(E) Second Initial Flow <u>136</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0751</u>
(F) Second Final Flow <u>176</u>	<input checked="" type="checkbox"/> Mileage	Comments
(G) Final Shut-In <u>715</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1886</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total	

Approved By _____

Our Representative _____

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.

DRILL STEM TEST REPORT

Fossil Resources, LLC

33 12s 36w Logan, Ks

111 W 36th St
Hays, Ks 67601

Nelson #4

Job Ticket: 64419

DST#: 3

ATTN: Lyle Herrman

Test Start: 2018.08.19 @ 23:38:00

GENERAL INFORMATION:

Formation: LKC - D
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:09:45
Time Test Ended: 07:51:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 3858.00 ft (KB) To 3985.00 ft (KB) (TVD)
Total Depth: 3985.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3136.00 ft (KB)
3128.00 ft (CF)
KB to GR/CF: 8.00 ft

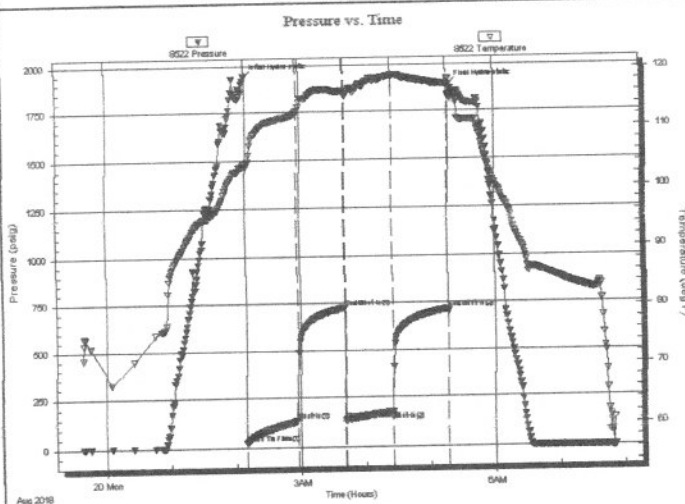
Serial #: 8522

Inside

Press@RunDepth: 176.24 psig @ 3959.00 ft (KB)
Start Date: 2018.08.19 End Date: 2018.08.20
Start Time: 23:38:00 End Time: 07:51:15

Capacity: 8000.00 psig
Last Calib.: 2018.08.20
Time On Btm: 2018.08.20 @ 02:09:00
Time Off Btm: 2018.08.20 @ 05:18:00

TEST COMMENT: IF: 2" blow, receded to surface.
IS: No return
FF: Surface blow.
FS: No return. Had a leak in surface equipment.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1939.65	103.86	Initial Hydro-static
1	22.21	103.36	Open To Flow (1)
48	133.47	112.51	Shut-in(1)
92	726.24	116.15	End Shut-in(1)
93	135.94	115.45	Open To Flow (2)
137	176.24	118.60	Shut-in(2)
188	715.45	117.26	End Shut-in(2)
189	1885.54	118.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
320.00	mcw 5m 95w (oil spots)	2.62
30.00	oil 100o	0.42

* Recovery from multiple tests

Gas Rates

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

DST Test Number: 3

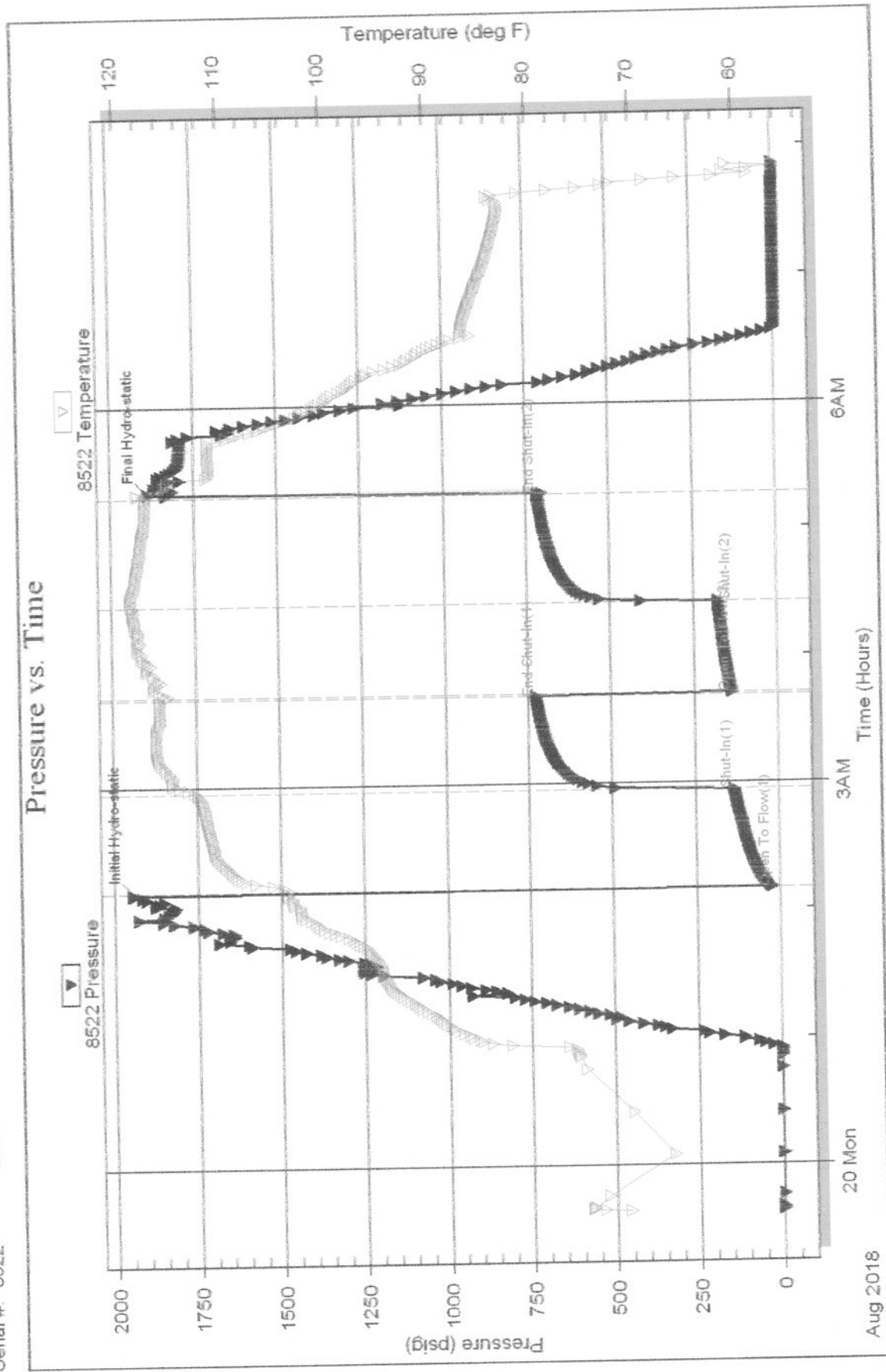
Nelson #4

Fossil Resources, LLC

Inside

Serial #: 8522

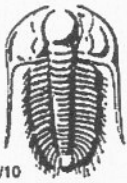
Pressure vs. Time



Printed: 2018.08.20 @ 06:09:34

Ref. No: 64419

Trilobite Testing, Inc



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64418

Well Name & No. Nelson #4 Test No. 2 Date 8/19/2018
 Company Fossil Resources, LLC Elevation 3136 KB 3128 GL
 Address 111 W 26th
 Co. Rep / Geo. Lyle Herrman Rig Discovery #1
 Location: Sec. 33 Twp 12S Rge. 36W Co. Logan State Ks

Interval Tested 3930 - 3965 Zone Tested LKC . C
 Anchor Length 35' Drill Pipe Run 3629 Mud Wt. 8.9
 Top Packer Depth 3925 Drill Collars Run - Vis 50
 Bottom Packer Depth 3930 Wt. Pipe Run 280 WL 8.0
 Total Depth 3965 Chlorides 10500 ppm System LCM 3.5
 Blow Description IF BOB@ 18 min Drilled to 23"
FST No return.
FF BOB@ 25 min Drilled to 165"
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Oil</u>	<u>100</u>			
<u>200</u>	<u>OMCW</u>	<u>5</u>	<u>65</u>	<u>30</u>	
<u>390</u>	<u>MCW (OIL SPOTS)</u>		<u>98</u>	<u>2</u>	

Rec Total 610 BHT 118 Gravity 31 API RW .145 @ 84 °F Chlorides 41,000 ppm

(A) Initial Hydrostatic 1904 Test _____ T-On Location 1515
 (B) First Initial Flow 30 Jars _____ T-Started 0612
 (C) First Final Flow 171 Safety Joint _____ T-Open 0912
 (D) Initial Shut-In 1191 Circ Sub N/C _____ T-Pulled 1212
 (E) Second Initial Flow 174 Hourly Standby _____ T-Out 1453
 (F) Second Final Flow 263 Mileage _____
 (G) Final Shut-In 1187 Sampler _____
 (H) Final Hydrostatic 1859 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total _____
 Total _____
 MP/DST Disc't _____

Approved By _____

Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or destroyed 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.

DRILL STEM TEST REPORT

Fossil Resources, LLC

33 12s 36w Logan, Ks

111 W 36th St.
Hays, Ks 67601

Nelson #4

Job Ticket: 64418

DST#: 2

ATTN: Lyle Herrman

Test Start: 2018.08.19 @ 06:12:00

GENERAL INFORMATION:

Formation: LKC C
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:12:30
 Time Test Ended: 14:53:15

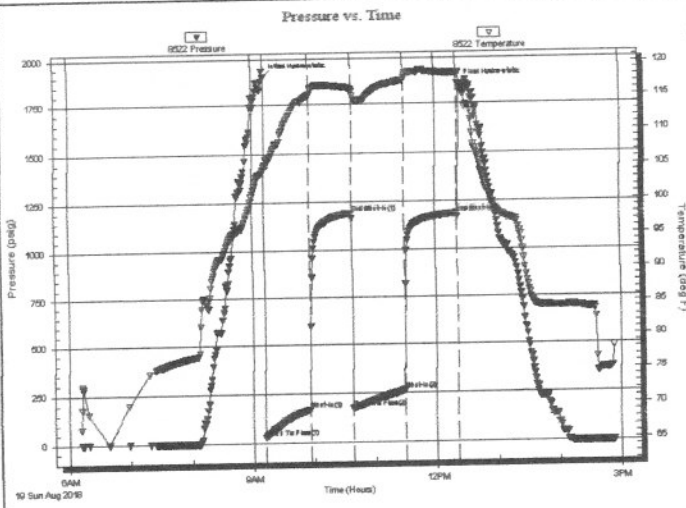
Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78

Interval: 3930.00 ft (KB) To 3965.00 ft (KB) (TVD)
 Total Depth: 3965.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3136.00 ft (KB)
 3128.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8522 Inside
 Press@RunDepth: 263.10 psig @ 3931.00 ft (KB)
 Start Date: 2018.08.19 End Date: 2018.08.19
 Start Time: 06:12:00 End Time: 14:53:15
 Capacity: 8000.00 psig
 Last Calib.: 2018.08.19
 Time On Btm: 2018.08.19 @ 09:12:15
 Time Off Btm: 2018.08.19 @ 12:22:15

TEST COMMENT: IF: BOB @ 18 min. built to 23"
 IS: No return.
 FF: BOB @ 25 min built to 16.5"
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.53	104.90	Initial Hydro-static
1	30.48	104.52	Open To Flow (1)
44	170.93	115.06	Shut-In(1)
86	1191.11	116.04	End Shut-In(1)
86	174.33	115.79	Open To Flow (2)
137	263.10	117.34	Shut-In(2)
189	1186.63	118.29	End Shut-In(2)
190	1858.50	118.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
390.00	mw 2m 98w (oil spots)	3.60
200.00	omcw 5o 30m 65w	2.81
20.00	oil 100o	0.28

* Recovery from multiple tests

Gas Rates

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

Serial #: 8522

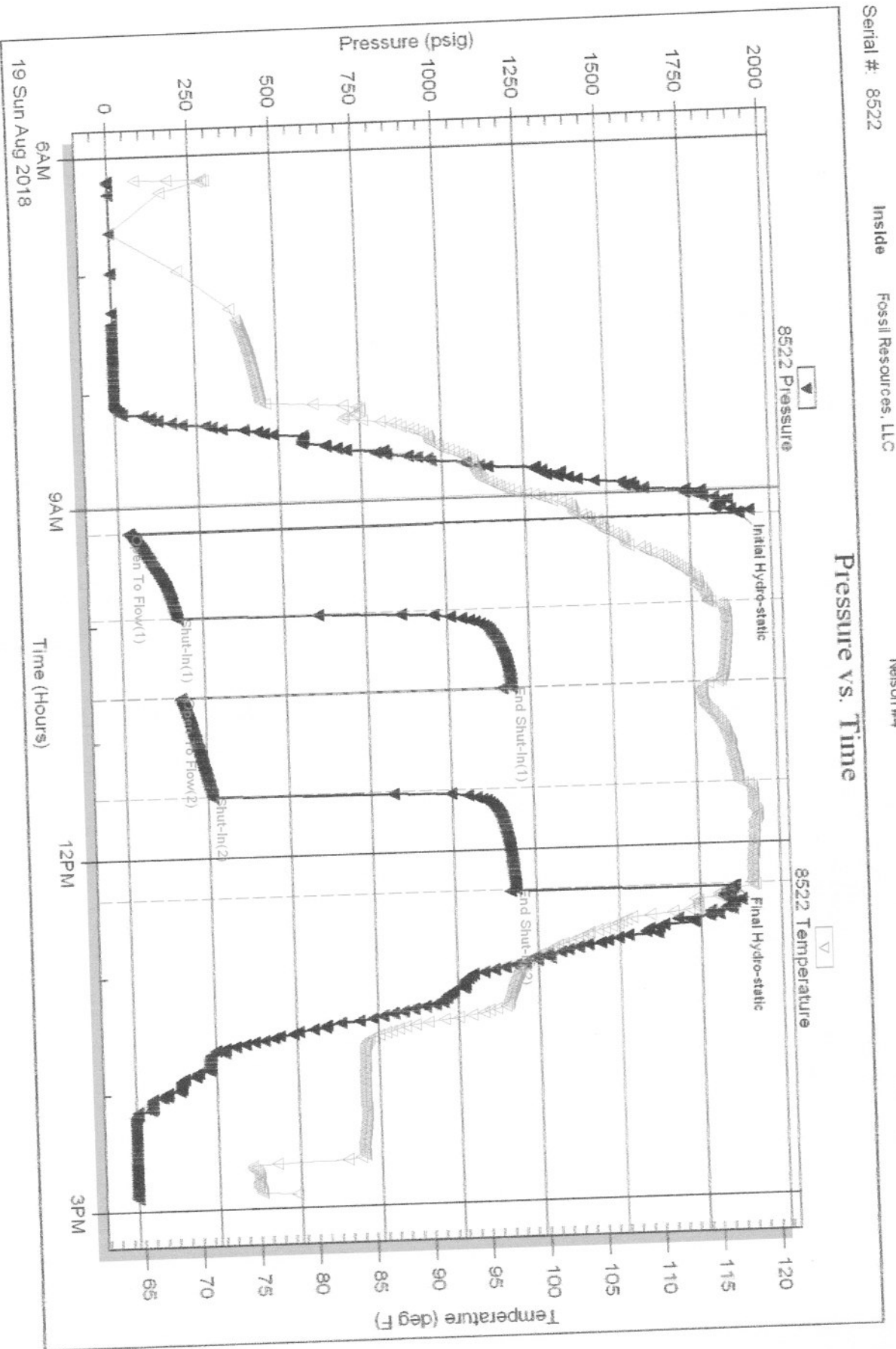
Inside

Fossil Resources, LLC

Nelson #4

DST Test Number: 2

Pressure vs. Time



Trillable Testing, Inc

Ref. No: 64418

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