

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 Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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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**#1 Fischer Unit 3C**

226' FSL & 267' FWL

104' S & 63' W of SW SW SW Section 3-26S-24W

Ford County, Kansas

API# 15-057-21072-0000

Elevation: GL: 2,518', KB: 2,530'

Sample Tops							
Anhydrite	1624	+906					
B/Anhydrite	1668	+862					
Stotler	3551	-1021					
Heebner	4180	-1650					
Toronto	4196	-1666					
Lansing	4284	-1754					
Muncie	4468	-1938					
Stark	4597	-2067					
Hush	4637	-2107					
BKC	4682	-2152					
Marmaton	4722	-2192					
Altamont	4742	-2212					
Pawnee	4806	-2276					
Ft. Scott	4858	-2328					
Cherokee	4886	-2356					
Johnson	4918	-2388					
Morrow	4948	-2418					
RTD	4965	-2435					

# QUALITY WELL SERVICE, INC.

7990

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410  
Fax 620-672-3663

Rich's Cell 620-727-3409  
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-22-22	3	266	246	Ford	Ks		
Lease Fisher Unit	Well No. 30-1		Location Wright Ks 283-50 St 2N Haysboro				
Contractor Duke Dalg R.G. 1				Owner 2W Hints			
Type Job Surface				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 12 1/4	T.D. 355'		Charge To Ritchie Exploration Inc				
Csg. 85/3	Depth 354'		Street				
Tbg. Size	Depth		City State				
Tool	Depth		City State				
Cement Left in Csg.	Shoe Joint 25		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace 21		Cement Amount Ordered 30056 Cornman				
<b>EQUIPMENT</b>				2 1/2 Gal 3/4 CC 1/2" PI 1500 250 g			
Pumptrk 8 No.			Common 250				
Bulktrk 11 No.			Poz. Mix				
Bulktrk No.			Gel. 470"				
Pickup No.			Calcium 705"				
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Run B.H. 85/3 23' csg set 354				Sand			
START CSG CSG on Bottom				Handling 269			
Hook up to Csg: Break (ca w/216				Mileage 60 / 13,000			
START Pumping 1130				<b>FLOAT EQUIPMENT</b>			
START MISC Pump 250 cc Cornman				Guide Shoe			
2 1/2 Gal 3/4 CC 1/2" PI 14.3"/gal				Centralizer			
START DISP				Baskets			
PLUG DOWN				AFU Inserts			
Close Valve on Csg				Float Shoe			
Cross circ thro JCS				Latch Down			
Circ CMT TO PET				SERVICE SOW 1EM			
				LMV 60'			
				Pumptrk Charge Surface			
THANK YOU				Mileage 120			
PLEASE CALL WADSW							
Signature Mike Brady				Tax			
				Discount			
				Total Charge			



CHARGE TO: Ritchie Exploration  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 34616

PAGE 1 OF 1

SERVICE LOCATIONS		WELL/PROJECT NO.		LEASE		COUNTY/PARISH		STATE		CITY		DATE		OWNER	
1. <u>Ness City KS</u>		<u>3C #1</u>		<u>Fischer Unit</u>		<u>Ford</u>		<u>KS</u>		<u>Dodge City</u>		<u>7-6-2008</u>			
2.		TICKET TYPE		CONTRACTOR		RIG NAME/NO.		SHIPPED VIA		DELIVERED TO		ORDER NO.			
3.		<input checked="" type="checkbox"/> SERVICE		<u>Express</u>				<u>CR</u>		<u>Location</u>					
4.		WELL TYPE		WELL CATEGORY		JOB PURPOSE		WELL PERMIT NO.		WELL LOCATION					
REFERRAL LOCATION		<u>0/1</u>		<u>Development</u>		<u>Port Collar Pump Sub</u>				<u>N of Dodge City</u>					
INVOICE INSTRUCTIONS															

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.		UNIT		AMOUNT				
						UM	UM	PRICE	PRICE					
<u>576</u>		<u>1</u>			MILEAGE <u>Trk # 115</u>			<u>62mi</u>	<u>7.00</u>	<u>420.00</u>				
<u>577</u>		<u>1</u>			<u>Pump Charge</u>			<u>1 job</u>	<u>1,050.00</u>	<u>1,050.00</u>				
<u>581</u>		<u>1</u>			<u>Cement Service Charge</u>			<u>400 lbs</u>	<u>2.00</u>	<u>800.00</u>				
<u>583</u>		<u>1</u>			<u>Drayage</u>			<u>35200 lbs</u>	<u>1.056 TM</u>	<u>1.00</u>	<u>1,056.00</u>			
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.					REMIT PAYMENT TO:						PAGE TOTAL			
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.					SWIFT SERVICES, INC.						<u>1</u>		<u>3,326.00</u>	
DATE SIGNED					P.O. BOX 466									
TIME SIGNED					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 SATISFACTORILY?									
					ARE YOU SATISFIED WITH OUR SERVICE?									
					<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND									
					TOTAL								<u>3326.00</u>	

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

SWIFT OPERATOR Budem Tunks APPROVAL [Signature]

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 7-6-2020	PAGE NO. 1
TICKET NO. 34616	

CUSTOMER Ritchie Exploration	WELL NO. 3L #1	LEASE Fischer Unit	JOB TYPE Pump Job
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							ON LOCATION 2 3/8" x 5 1/2" PC: 1,600'
		0	-	✓		1,200		P Test to 1,200 PSI * Hold Go to open PC * Tubing Stacked out Unable to get opening tool deep enough to open PC TOH TIH w/ 2 7/8" Collar on Bottom
	1445	2 1/2	20	✓		200		Pump 20 bbl H2O * Still CANNOT get through PC
	1515							Job Complete  Thanks!  Gideon, Mark, John

# Wellsite Services, LLC

John Goldsmith  
(316) 640-0236

427 Roosevelt St.  
Cheney, KS 67025

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

Well Name: #1 Fischer Unit 3C  
API: 15-057-21072  
Location: 104' S & 63' W of SW SW SW, Sec 3-26S-24W  
License Number: #4767  
Spud Date: 6/21/2022  
Surface Coordinates: LAT = 37.808887  
LONG = -99.940905  
Bottom Hole Vertical hole  
Coordinates: 1 Degree Deviation  
Ground Elevation (ft): 2518' K.B. Elevation (ft): 2530'  
Logged Interval (ft): 4000' To: RTD Total Depth (ft): 4965'  
Formation: Morrow at RTD  
Type of Drilling Fluid: Chemical

Region: Ford County  
Drilling Completed: 6/30/2022

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

Company: Ritchie Exploration, Inc.  
Address: 8100 E. 22nd St. N. Bldg. #700  
Wichita, KS 67226  
(316) 691-9500

### GEOLOGIST

Name: John Goldsmith  
Company: Wellsite Services, LLC  
Address: 427 Roosevelt St.  
Cheney, KS 67025  
(316) 640-0236

### COMMENTS

Contractor: Duke Drilling Co. Rig #1  
Pusher: Mike Godfrey (620) 786-1727  
Surface Casing: 8 joints of 8 5/8" set at 355'  
Production Casing: 5.5" Production Casing was installed.  
Mud by: MudCo Mud  
DST's by: Trilobite Testing  
Logs by: ELI Wireline Services (DIL, CN-CD, ML, CS)  
RTD=4965'  
LTD=4954'



### FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
B/Anhydrite	1668'	+862	1662'	+868
Stotler	3551'	-1021	3551'	-1021
Heebner Shale	4180'	-1650	4169'	-1639
Toronto	4196'	-1666	4185'	-1655
Lansing	4284'	-1754	4272'	-1742
Muncie Creek Shale	4468'	-1938	4457'	-1927
Stark Shale	4597'	-2067	4585'	-2055
Hushpuckney Shale	4637'	-2107	4624'	-2094
Base of KC	4682'	-2152	4668'	-2138
Marmaton	4722'	-2192	4706'	-2176
Altamont	4742'	-2212	4727'	-2197
Pawnee	4806'	-2276	4794'	-2264
Ft. Scott	4858'	-2328	4848'	-2318
Cherokee Shale	4886'	-2356	4874'	-2344
Johnson	4918'	-2388	4910'	-2380
Morrow	4948'	-2418	4940'	-2410
RTD	4965'	-2435		
LTD			4954'	-2424

At the conclusion of logging, we determined that the sample tops were off by fluctuating amounts throughout the hole due to inaccurate pipe tally by the drilling contractor; log tops reflect the accurate datums.

### DSTs

DST #1: 4,944' – 4,965' (Morrow) Rec: 1,260' GIP, 693' GO (10% gas, 90% oil), and 63' GOM (20% gas, 20% oil, 60% mud).

Total fluid 756' (10.83% gas, 84.17% oil, 5.00% mud), 37° API Oil.

IFP: 44-165#/30" ISIP: 1484#/30"





FFP: 170-268#/30" FSIP: 1503#/60"

### ROCK TYPES

 Anhy	 Dol	 Slst	 Gry sh
 Cht	 Lmst	 Ss	 Sandylms
 Congl	 Shale	 Carb sh	 Shaly ls

### ACCESSORIES






#### FOSSIL

	Brach
	Bryozoa
	Crin
	Foram
	Fossil







	Gastro
	Oolite
	Fuss
	Oomold

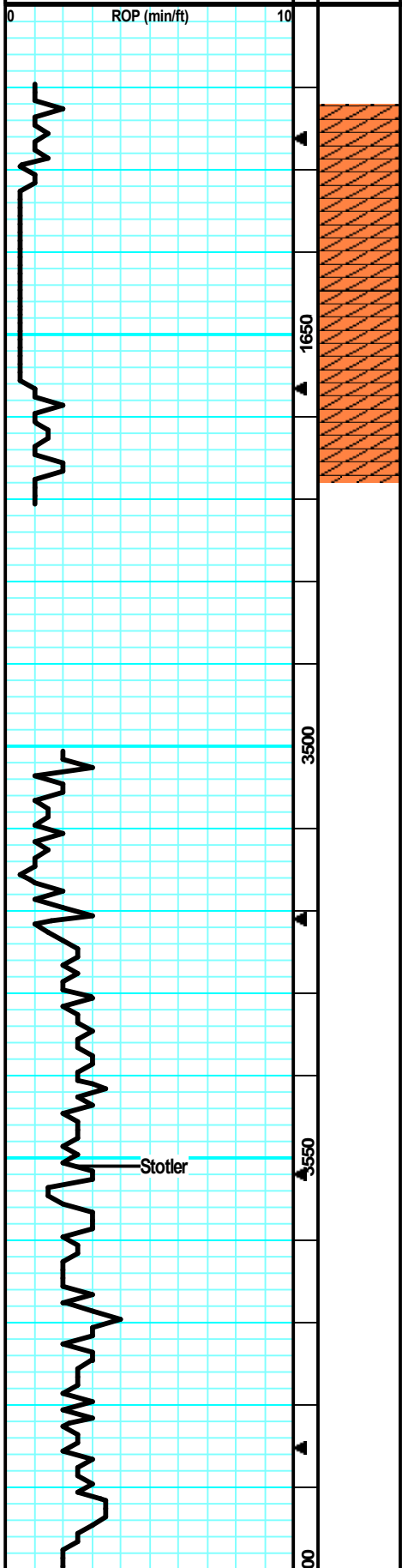
#### MINERAL

	Chtdk
	Chtlt
	Glau
	Pyr
	Sil

#### TEXTURE

	Chalky
	Crslxn
	Finexln
	Microxln

ROP (min/ft)	ROP (min/ft)	MD	Lithology	CFS Point	Oil Shows	Geological Descriptions	TG, C1-C5
							TG C1 C2 C3 C4 C5

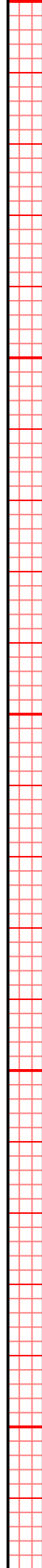
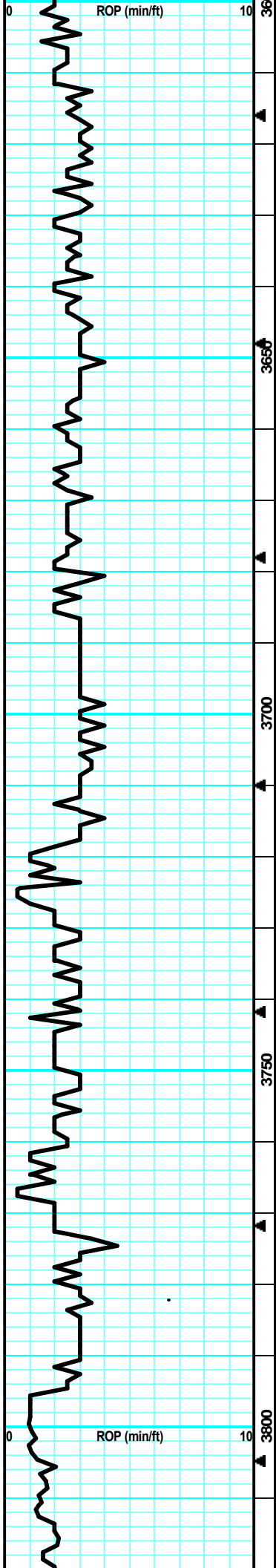


**Morning Report Depth/Activity**

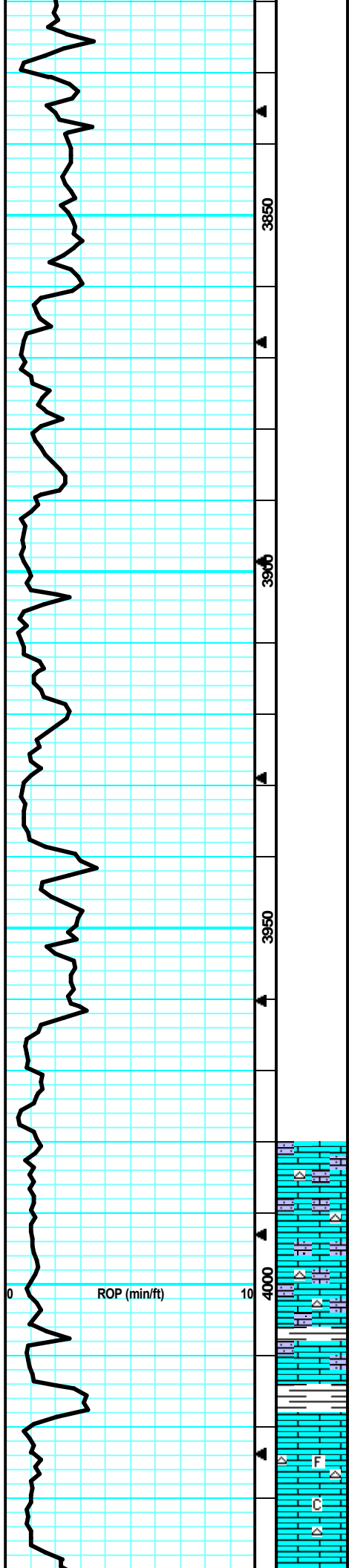
6/21/22: Spud @ 9:30 am, plug down @ 4:30 am.  
 6/22/22: WOC, drilled out @ 12:30 pm.  
 6/23/22: Drig @ 1410'  
 6/24/22: Drig @ 2590'  
 6/25/22: Drig @ 3190'  
 6/26/22: Drig @ 3710'  
 6/27/22: Drig @ 4340'  
 6/28/22: Drig @ 4740'  
 6/29/22: Taking DST #1 (Morrow). Ran E-Log.  
 6/30/22: Ran 5.5" Production Casing.

ROP Data begins @ 3500' on 6/26/2022

1	TG, C1-C5	100
Survey @ 355' = 1 Degree		
Mud Report #2		
355'	6/22/22	
Wt	Vis	pH
8.3	27	7.0
Filt	Chl	LCM
n/c	100	0#
Survey @ 1341' = 1 Degree		
Mud Report #3		
1479'	6/23/22	
Wt	Vis	pH
9.4	34	7.0
Filt	Chl	LCM
n/c	300	5#
Survey @ 2320' = 3/4 Degree		
Mud Report #4		
2605'	6/24/22	
Wt	Vis	pH
9.7	32	7.0
Filt	Chl	LCM
n/c	65K	2#
Mud Report #5		
3215'	6/25/22	
Wt	Vis	pH
9.7	32	7.0
Filt	Chl	LCM
n/c	61K	2#
Stotler @ 3551' (-1021)		



1	TG, C1-C5	100
<p>Mud Report #6          3657 6/26/22          Wt Vis pH          8.8 58 11.5          Filtr Chl LCM          8.0 22K 0#</p>		
1	TG, C1-C5	100



Drill cutting samples at 10' intervals start at 4000'.

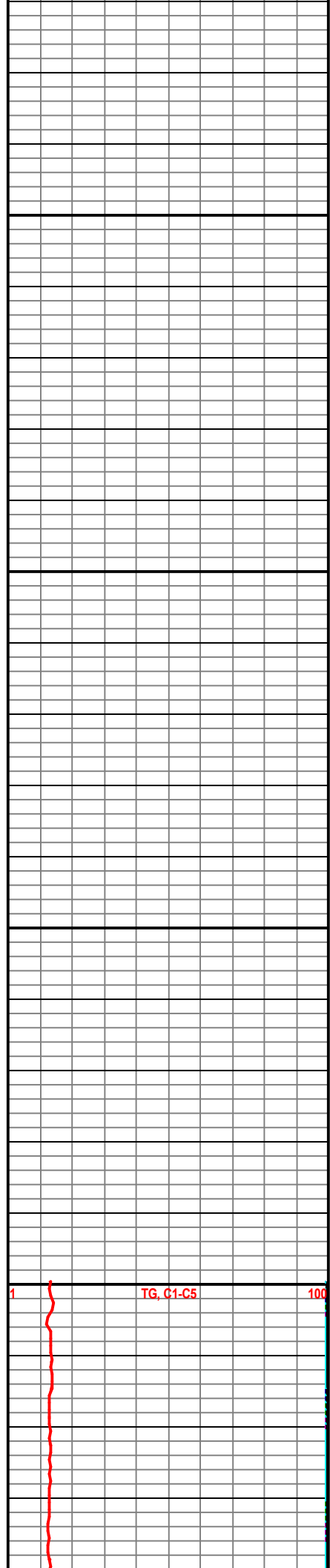
LS: cm/t tan, sing, fn xln, fw sandy/gritty, pr intxn por in sm, fw Chert: wht/opaq, foss, sharp, no odr, ns.

Much of the same.

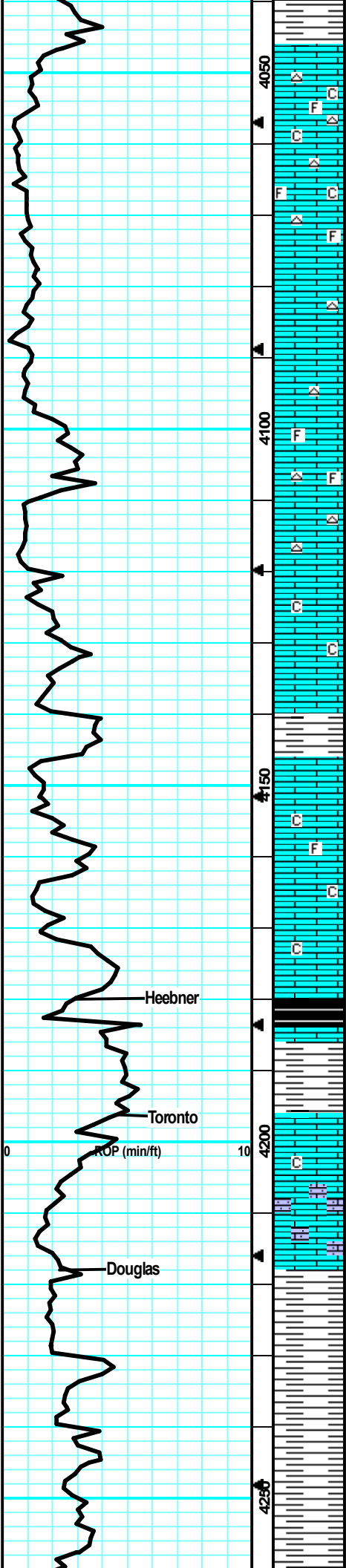
SH: gry, soft, waxy, fissile.

LS: lt tan/lt gry, fn xln, sub-chlky, fw foss, britl, fw Chert: wht/gry, foss, sharp, no odr, ns.

Much of the same.



1 TG, C1-C5 100



SH: gry/bm, silty/gritty, britl.

LS: lt tan/crm, chlky, britl, tr-nvp, svrl pcs chl, fw Chert: wht/gry, foss, no odr, ns.

LS: lt tan, britl, chlky, tr-nvp, fw SS: gry/tan, sub ang, arg, wel cent, friabl, tr-nvp, sm Chert: gry/wht, foss, no odr, ns.

LS: lt tan, sing, sandy, brittle, tr-nvp, svrl StStn: bm/gry, soft, gritty, svrl SH: gry, waxy, fissile, no odr, ns.

Much of the same.

LS: tan/lt tan/lt gry, fn xln, sm foss in prt, sm firm, fw sub-chlky & britl, tr-pr intxn por in sm, fw Chert: wht/gry, foss, no odr, ns.

LS: tan/lt tan, fn xln, fw gritty/sandy, sub-chlky in prt, fr intxn por in sm, fw Chert: wht, fresh, no odr, ns.

LS: tan, fn xln, sm dense, sub-chlky in prt, britl, tr-nvp, fw pcs w drk min stns, no odr, ns.

Much of the same, infx of fw SH: gry/bm/gm, waxy, soft, fw fissile, no odr, ns.

Much of the same.

LS: lt gry/tan, slight mott in prt, fn xln, sm dense, sub-chlky in prt, fw foss, tr-nvp, fw SH: gry, soft, no odr, ns.

LS: lt gry/lt tan, fn xln, fn-med xln, britl, sub-chlky, tr-pr intxn por in sm, no odr, ns.

SH: blk, carb, soft.

SH: gry/blk, silty, soft, fw carb, sm LS: lt gry/tan, mott, fn xln, sm foss, sub-chlky, tr-nvp, no odr, ns.

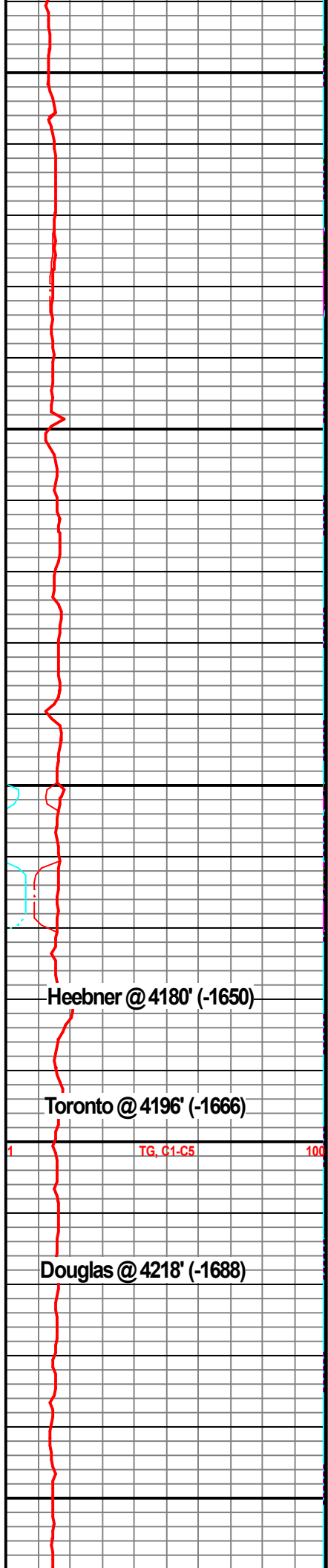
LS: tan/lt tan, sing, fn xln, mostly dense, sub-chlky, britl, tr-pr intxn por in sm, sm SH: gry/bm/blu, silty, soft, no odr, ns.

LS: crm/lt tan, sing, fn xln, sm gritty, sandy, britl ppt-pr intgm por in fw, no odr, ns.

SH: gry/blu/bm, soft, waxy, v silty, sm LS: lt gry/crm, fn xln, dense, sm britl, tr-nvp, no odr, ns.

Much of the same.

SH: gry/blu/gm, silty, sm med crush, waxy, svrl LS: crm/lt tan, sing, fn xln, dense, sm firm, sub-chlky in prt, tr-nvp, no odr, ns.



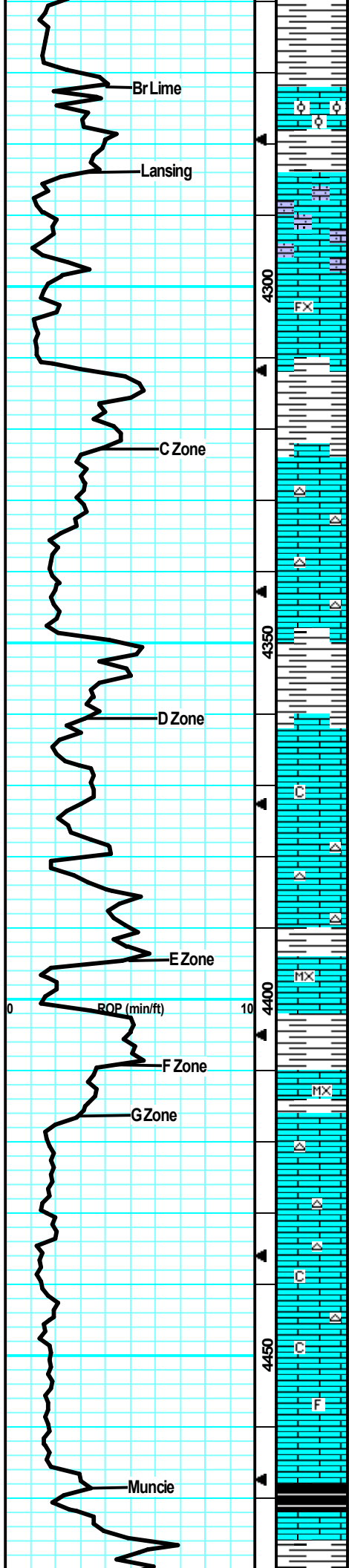
Heebner @ 4180' (-1650)

Toronto @ 4196' (-1666)

Douglas @ 4218' (-1688)

TG, C1-C5

100



LS: tan/lt tan, mott in prt, sm grainy, britl, sub-chlky in prt, tr-nvp, abund SH: gry/bm, silty, soft, smpl v dirty, no odr, ns.

LS: gry/bm, mott, fn xln, sm v ool, hard, tr-nvp, abund SH: gry/bm, gritty, no odr, ns.

LS: tan/lt tan, slight mott, fn xln, sandy/gritty, sub-chlky in prt, britl, sm pr intxn por in fw pcs, no odr, ns.

Much of the same, infix LS: lt tan, dense, firm.

LS: lt tan, sing, fn xln, dense, sm firm, tr-nvp, infix SH: blu-gry, soft, waxy, no odr, ns.

SH: gry/blu, silty, sm waxy, soft.

LS: lt gry/lt tan, sing, fn xln, dense, sm firm, tr-nvp, sm Chert: wht/gry, sharp, no odr, ns.

Much of the same.

LS: lt gry/tan, sing, fn xln, sm flakey/mealy, dense, firm, tr-nvp, svrl SH: drk gry, soft, fw fissile, no odr, ns.

LS: lt gry/tan, slight mott, fn bxn, sm flakey/mealy, many hard, tr-pr intxn in v fw, svrl SH: gry/blu, soft, no odr, ns.

LS: tan/lt gry, fn xln, mostly dense, sm hard, fw flakey/mealy, tr-nvp, no odr, ns.

SH: gry/drk gry/bly, silty, soft, sm fissile, sm LS: gry/tan, mott, dense, firm, tr-nvp, fw Chert: gry, foss, sharp, no odr, ns.

LS: mostly lt tan, sing, micro xln, sub-chlky, britl, tr-nvp, fw LS: gry, flakey, hard, tr-nvp, fw Chert: wht/opaq, frsh, no odr, ns.

LS: cm/lt tan, sing, micro-fn xln, dense, sub-chlky, britl, tr-nvp, abund SH: gry/blu, silty, soft, no odr, ns.

Much of the same, svrl Chert: wht/opaq, sharp, no odr, ns.

LS: lt tan/lt gry, sing, fn xln, many flakey/mealy, tr-nvp, svrl Chert: wht/opaq, sharp, no odr, ns.

LS: tan/lt tan, sing, fn xln, chlky, britl, sm fr intxn por in sm, svrl pcs pur chl, svrl Chert.

Much of the same.

LS: cm/lt gry, slight mott, fn xln, fw foss frags, sm fr intxn por w gd scat infoss vugs, svrl pcs pur chl, no odr, ns.

SH: blk, carb, med crush.

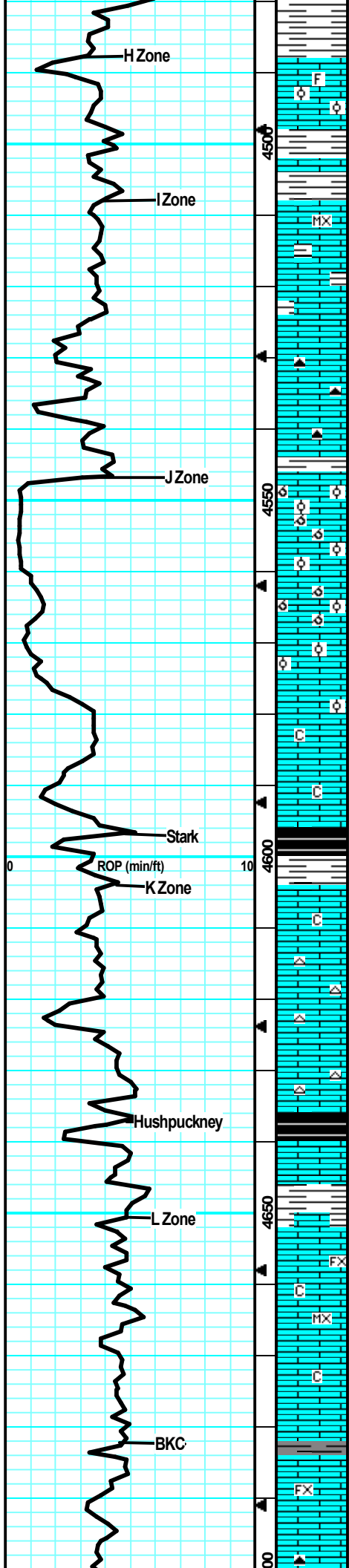
LS: gry/lt bm, fn-crx xln, dense, hard, flakey, tr-nvp, svrl pcs pur chl, no odr, ns.

Lansing @ 4284' (-1754)

Mud Report #7  
 4360' 6/27/22  
 Wt Vis pH  
 9.4 57 11.0  
 Filt Chl LCM  
 8.8 3.4K 0#

TG, C1-C5 100

Muncie Creek @ 4468' (-1938)



LS: tan/lt gry, fn xln, fw foss/ool, mostly firm, sub-chlky, tr-nvp, no odr, ns.

LS: tan/lt gry, fn xln, dense, firm, sub-chlky in prt, tr-nvp, infix SH: bm/gry, fissile, no odr, ns.

LS; lt gry/lt tan, sing, micro-fn xln, dense, firm, tr-nvp, fw pcs pur chl, no odr, ns.

Much of the same.

LS: tan/lt gry, fn xln, mostly dense, fw foss, sm flakey/mealy, sub-chlky, tr-nvp, no odr, ns.

LS: tan/lt gry, sing, fn xln, mostly dense, sub-chlky, fw flakey/mealy, tr-nvp, fw Chert: gry/bm, smokey, no odr, ns.

LS: lt bm/tan, mott, sm profus ool, sm britl, fw hard, gd oolcast por, no odr, ns.

LS: tan/lt bm, mott, profus ool, fw firm yet britl, gd oolcast por, no odr, ns.

Much of the same.

LS: tan/lt tan, mott, fn xln, profus ool, sub-chlky, britl, sm good oolcast por, sm fr-pr intool por, fw pcs pur chl, no odr, ns.

LS: lt gry/tan, sing, fn xln, dense, firm, tr-nvp, svrl pcs pur chl, no odr, ns.

SH: blk, silty, carb, med crush.

LS: lt gry/lt tan, sing, fn xln, dense, firm, sub-chlky, svrl pcs pur chl, no odr, ns.

Much of the same, fw Chert: wht/opaq, fresh, no odr, ns.

LS: lt gry/lt tan, sing, fn xln, dense, sub-chlky, fw flakey/mealy, tr-nvp, fw Chert: wht/opaq, sharp,

SH: blk, silty, carb.

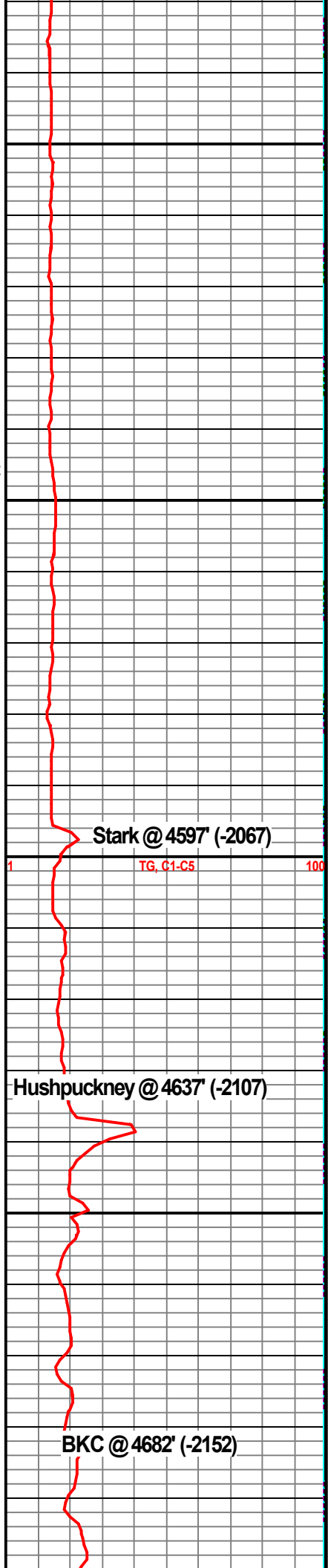
LS: gry/lt tan, slight mott, fn xln, mostly dense, firm yet britl, fw sub-chlky, tr-nvp, abund SH: drk gry/blu, silty, soft, no odr, ns.

LS: lt gry/lt tan, sing, micro-fn xln, dense, britl, sub-chlky in prt, tr-nvp, svrl pcs pur chl, no odr, ns.

Much of the same, lr infix SH: drk gry/blu/gm, silty, soft, fissile.

LS: tan/gry, mott in prt, fn-med xln, firm/hard, many mealy and flakey, tr-nvp, svrl SH: gry/blu, silty soft, fw fissile, no odr, ns.

LS: tan/lt bm/gry, mott, fn-crs xln, many flakey/mealy, dense, best temp for chert; bw/mott, fw med profus ool,



hard, tr-nvp, tw Chert: bm/gry, mott, pr frac edge por, no odr, ns.

Much of the same hard mott LS and mott Chert, lrg infx of SH: gry/lt gry, sm soft, waxy, no odr, ns.

SH: gry/bm, gritty, many w med crush, fw fissile, sm LS: gry/tan, fn xln, dense, tr-nvp, no odr, ns.

LS: gry/tan, fn-med xln, dense, hard, fw flakey/mealy, tr-nvp, abund SH: gry/bm, no odr, ns.

LS: gry/tan/lt bm, fn-crs xln, hard, flakey/mealy, tr-nvp, abund SH: gry/bm, no odr, ns.

LS: lt gry/tan, slight mott, fn-med xln, sub-chlky, flakey/mealy, tr-nvp, no odr, ns.

LS: tan/lt gry, mott in prt, fn-crs xln, flakey/mealy, svrl hard, tr-nvp, infx SH: gry/blu, silty, soft, no odr, ns.

LS: tan/lt gry, fn xln, dense, sub-chlky, sm britl, tr-nvp fw pcs pur chl, no odr, ns.

LS: tan/lt gry, fn xln, dense, sm hard, sub-chlky in prt, tr-nvp, no odr, ns.

Much of the same, infx of Chert: bm/gry, trans, sharp, no odr, ns.

SH: blk, silty, carb.

LS: cm/lt tan, slight mott, fn xln, chlky, sandy/v sm ool, fw foss, v britl, tr-nvp, abund pur chl, no odr, ns.

Much of the same.

SH: blk, silty, carb, med crush.

LS: cm/lt tan, sing, micro-fn xln, chlky, britl, sm sandy/grainy, tr-nvp, svrl pcs pur chl, no odr, ns.

SH: blk, carb, silty.

LS: bm, fn xln, dense, v hard, tr-nvp, svrl SH: blk/blu/gry, soft, no odr, ns.

LS: tan/lt gry, fn xln, dense, hard, fw flakey/mealy, sub-chlky, tr-nvp, fw Chert: wht/opaq, sharp, sm SH: gry/blk, soft, sm carb, no odr, ns.

SH: Blk, silty, carb, med crush.

LS: gry/tan/lt bm, fn xln, dense, hard, sm flakey/mealy, tr-nvp, svrl SH: drk gry/gry, soft, no odr, ns.

SH: gry/drk gry/blu, silty, soft, fw waxy, svrl LS: gry/tan, mott, fn-crs xln, foss in prt, flakey, hard, tr-nvp, no odr, ns.

Much of the same.

Marmaton @ 4722' (-2192)

Altamont @ 4741' (-2211)

Mud Report #8  
4760' 6/28/22

Wt	Vis	pH
9.4	48	11.0
Filt	Chi	LCM
7.6	2.8K	2#

Pawnee @ 4807' (-2277)

Survey @ 4826' = 3/4 Degree

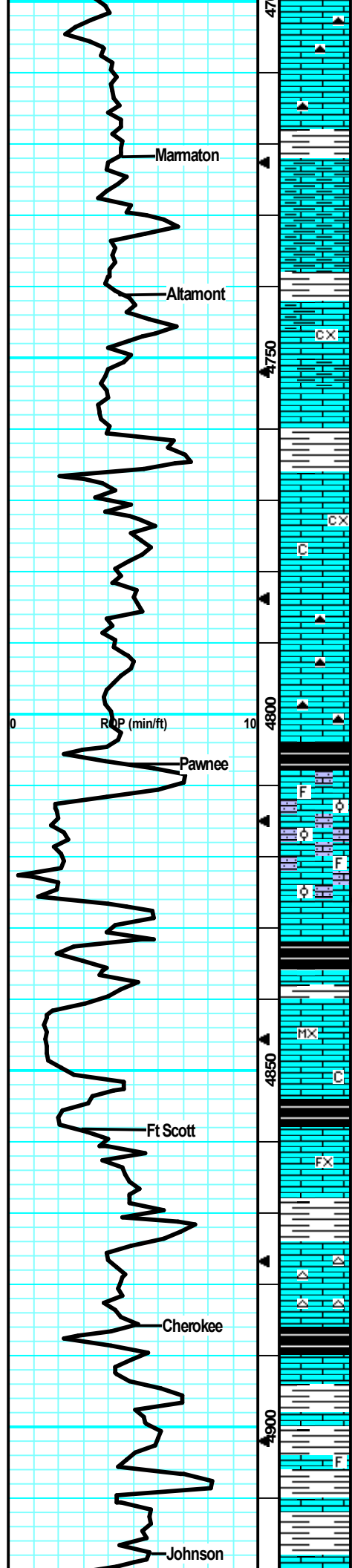
CFS @ 4826' (20"/45")

Ran wiper trip at 4826' to surface.

Ft Scott @ 4858' (-2328)

Cherokee @ 4886' (-2356)

Johnson @ 4918' (-2388)



Marmaton

Altamont

Pawnee

Ft Scott

Cherokee

Johnson

ROP (min/ft)

4700

4750

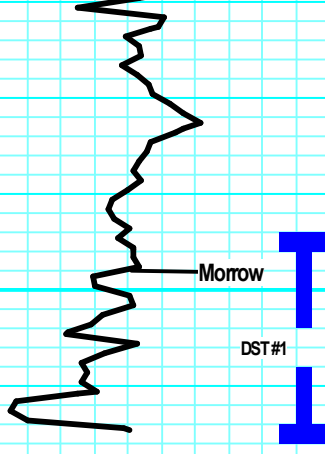
4800

4850

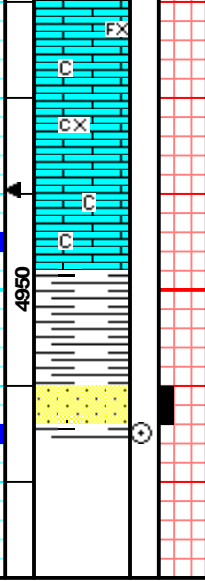
4900

100





RTD = 4965' (-2435)  
LTD = 4954' (-2424)



LS: lt gry/lt tan, sing, fn xln, sub-chlky, sm britl, tr-nvp, fw pcs pur chl, no odr, ns.

LS: tan/gry, fn-crs xln, sub-chlky in prt, firm, tr-nvp, fw pcs pur chl, sm SH: gry/blu, silty, no odr, ns.

LS: tan, sing, fn xln, sub-chlky, fw britl, tr-nvp, svrl pcs pur chl, no odr, ns.

LS: lt tan, sing, micro-fn xln, dense, sub-chlky, tr-nvp, no odr, ns, abnd SH: gry/blu, silty, soft, fw lk wthrd.

SS: gry, fr-med qrtz grns, sub ang, fr srted, fw well cem, fr intgrn por, drk blk strns in por, ful yel fluor, gd cut resid, shw of drk hvy oil on brk 2-3 pcs, frt-wk cup odr.

DST #1: 4,944' - 4,965' (Morrow) Rec: 1,260' GIP, 693' GO (10% gas, 90% oil), and 63' GOM (20% gas, 20% oil, 60% mud).  
Total fluid 756' (10.83% gas, 84.17% oil, 5.00% mud), 37" API Oil.  
IFP: 44-165#30" ISIP: 1484#30"  
FFP: 170-268#30" FSIP: 1503#60"

**Morrow @ 4948' (-2418)**

Mud Report #9  
4965' 6/29/22

CFS @ 4965' (30"/60")	Wt	Vis	pH
	9.3	60	11.0
	Filt	Chl	LCM
	8.8	3.2K	2#

Survey @ 4965' = 1 Degree



## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

PO Box 738188  
Wichita, KS 67278

ATTN: John Goldsmith

### **Fischer Unit 3C #1**

### **3-26s-24w Ford,KS**

Start Date: 2022.06.29 @ 10:57:00

End Date: 2022.06.29 @ 18:47:02

Job Ticket #: 68902                      DST #: 1

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

Printed: 2022.06.30 @ 16:26:09



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

**3-26s-24w Ford,KS**

PO Box 738188  
Wichita, KS 67278

**Fischer Unit 3C #1**

ATTN: John Goldsmith

Job Ticket: 68902

**DST#: 1**

Test Start: 2022.06.29 @ 10:57:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 2530.00 ft (KB)

Time Tool Opened: 13:10:17

Time Test Ended: 18:47:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

**Interval: 4944.00 ft (KB) To 4965.00 ft (KB) (TVD)**

Reference Elevations: 2530.00 ft (KB)

Total Depth: 4965.00 ft (KB) (TVD)

2518.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: 268.18 psig @ 4947.00 ft (KB)

Capacity: psig

Start Date: 2022.06.29

End Date: 2022.06.29

Last Calib.: 2022.06.29

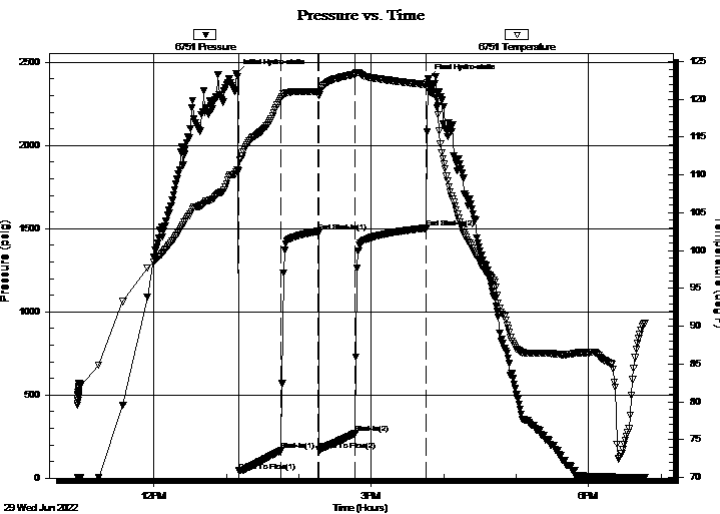
Start Time: 10:57:01

End Time: 18:47:02

Time On Btm: 2022.06.29 @ 13:08:17

Time Off Btm: 2022.06.29 @ 15:47:17

**TEST COMMENT:** IF: 30 min., BOB 4 min., strong building blow , 75 inches  
IS: 30 min., Blow back 30 sec., 5.4 inches  
FF: 30 min., BOB 5 min., strong building blow , 43 inches  
FS: 60 min., Blow back 30 sec., 6 inches



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2433.67	110.45	Initial Hydro-static
2	43.80	110.60	Open To Flow (1)
38	164.77	120.07	Shut-In(1)
68	1483.71	120.99	End Shut-In(1)
69	170.27	120.53	Open To Flow (2)
99	268.18	123.35	Shut-In(2)
158	1503.42	121.93	End Shut-In(2)
159	2401.05	121.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM 20%G, 20%O, 60%M	0.88
693.00	GO 10%G, 90%O	9.72
0.00	1200' GIP 100%G	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

**3-26s-24w Ford, KS**

PO Box 738188  
Wichita, KS 67278

**Fischer Unit 3C #1**

ATTN: John Goldsmith

Job Ticket: 68902

**DST#: 1**

Test Start: 2022.06.29 @ 10:57:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 2530.00 ft (KB)

Time Tool Opened: 13:10:17

Time Test Ended: 18:47:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

**Interval: 4944.00 ft (KB) To 4965.00 ft (KB) (TVD)**

Reference Elevations: 2530.00 ft (KB)

Total Depth: 4965.00 ft (KB) (TVD)

2518.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 8672 Inside**

Press@RunDepth: psig @ 4947.00 ft (KB)

Capacity: psig

Start Date: 2022.06.29

End Date: 2022.06.29

Last Calib.: 1899.12.30

Start Time: 11:47:01

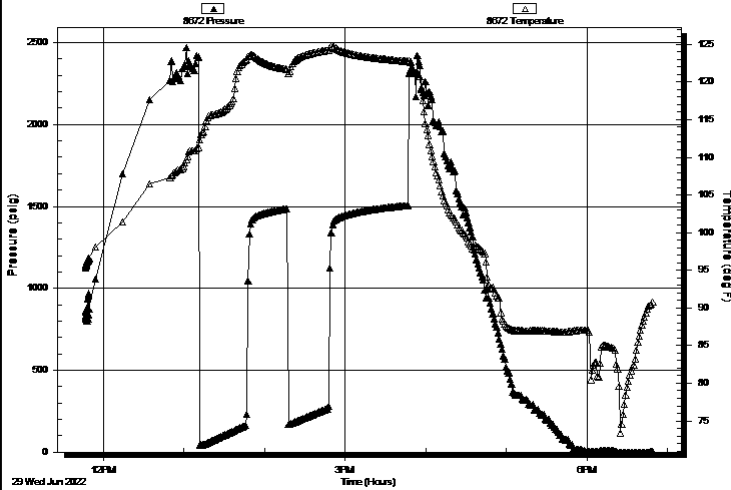
End Time: 18:49:02

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: 30 min., BOB 4 min., strong building blow, 75 inches  
IS: 30 min., Blow back 30 sec., 5.4 inches  
FF: 30 min., BOB 5 min., strong building blow, 43 inches  
FS: 60 min., Blow back 30 sec., 6 inches

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GOCM 20%G, 20%O, 60%M	0.88
693.00	GO 10%G, 90%O	9.72
0.00	1200' GIP 100%G	0.00

Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration, Inc.

**3-26s-24w Ford,KS**

PO Box 738188  
Wichita, KS 67278

**Fischer Unit 3C #1**

Job Ticket: 68902

**DST#: 1**

ATTN: John Goldsmith

Test Start: 2022.06.29 @ 10:57:00

## Tool Information

Drill Pipe:	Length: 4923.00 ft	Diameter: 3.80 inches	Volume: 69.06 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 69.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4944.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4919.00	
Hydraulic tool	5.00			4924.00	
Isolator Sub	3.00			4927.00	
Jars	5.00			4932.00	
Safety Joint	3.00			4935.00	
Packer	5.00			4940.00	30.00 Bottom Of Top Packer
Packer	4.00			4944.00	
Stubb	1.00			4945.00	
Perforations	2.00			4947.00	
Recorder	0.00	8672	Inside	4947.00	
Recorder	0.00	6751	Outside	4947.00	
Pickup sub perf	5.00			4952.00	
Perforations	10.00			4962.00	
Bullnose	3.00			4965.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Ritchie Exploration, Inc.

**3-26s-24w Ford,KS**

PO Box 738188  
Wichita, KS 67278

**Fischer Unit 3C #1**

Job Ticket: 68902

**DST#: 1**

ATTN: John Goldsmith

Test Start: 2022.06.29 @ 10:57:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 8.79 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3150.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 37 deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	GOCM 20%G, 20%O, 60%M	0.884
693.00	GO 10%G, 90%O	9.721
0.00	1200' GIP 100%G	0.000

Total Length: 756.00 ft      Total Volume: 10.605 bbl

Num Fluid Samples: 0

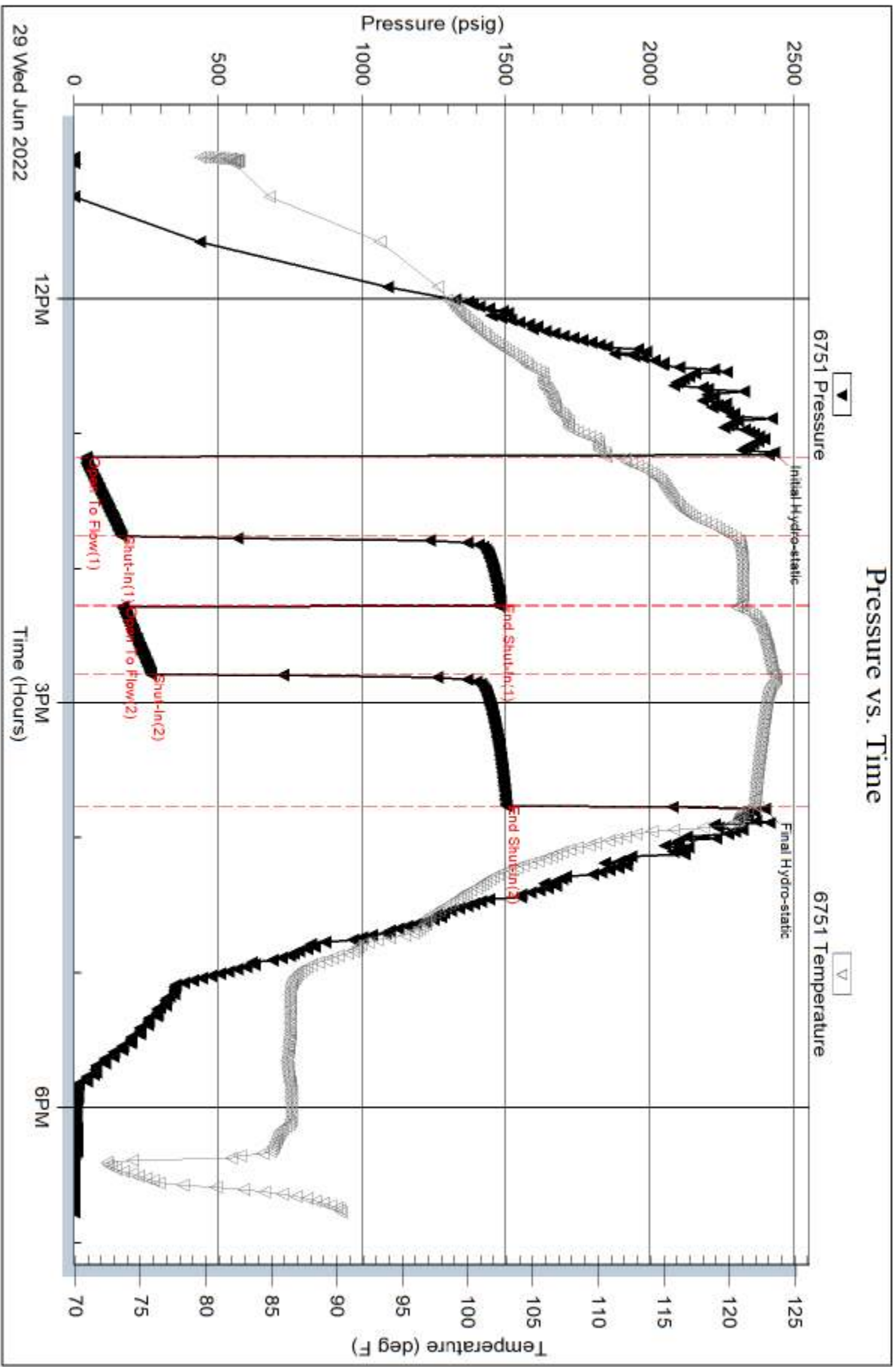
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API=40@90F=37



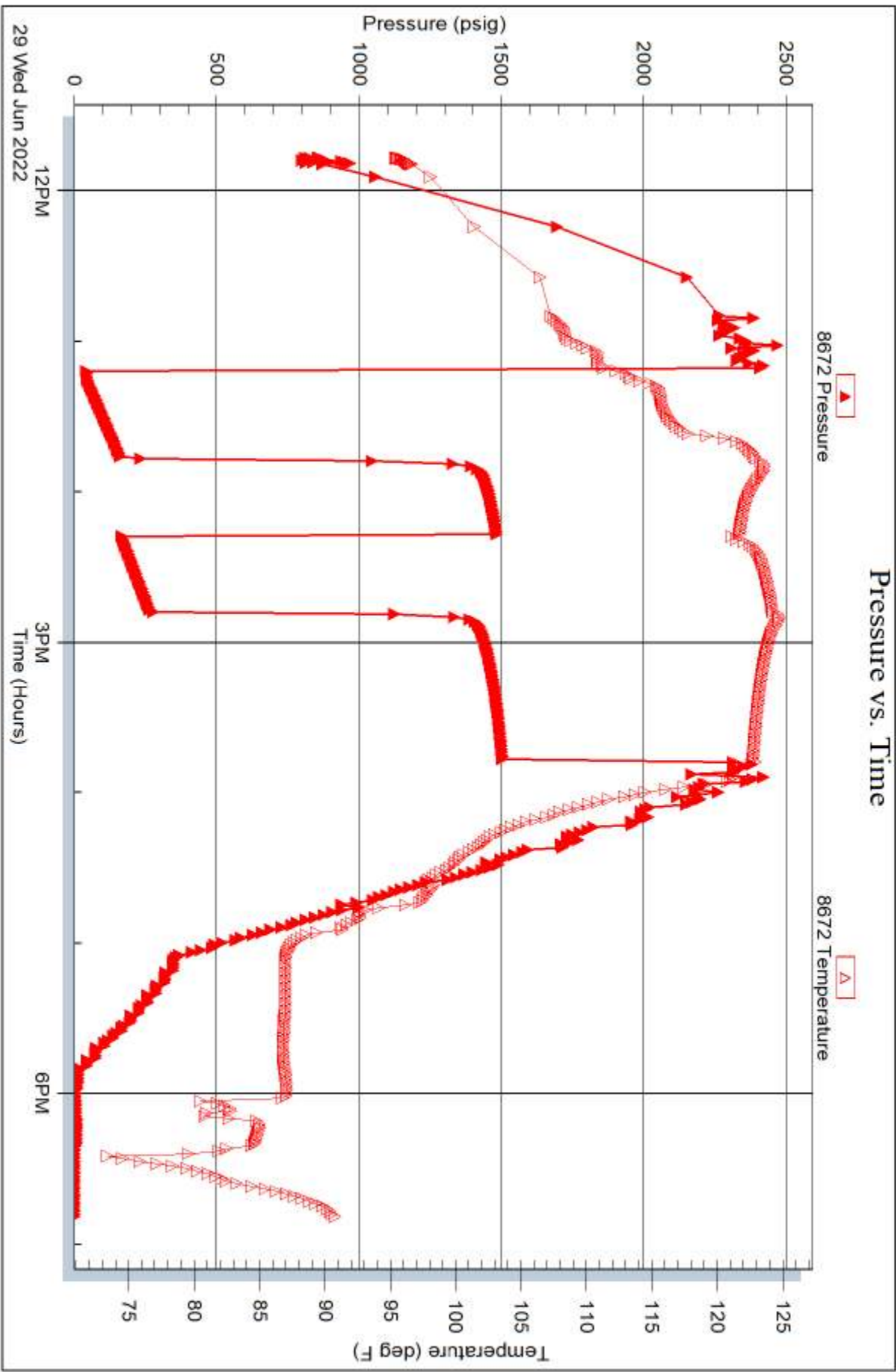
Serial #: 8672

Inside

Ritchie Exploration, Inc.

Fischer Unit 3C #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68902

Printed: 2022.06.30 @ 16:26:10





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68902**

Well Name & No. Fischer Unit 3C Test No. 1 Date 6-29-22  
 Company R. White Exploration, Inc. Elevation 2530 KB 2518 GL  
 Address P.O. Box 783188 Wichita, KS 67278  
 Co. Rep / Geo. \_\_\_\_\_ Rig Duke #1  
 Location: Sec. 3 Twp 26 Rge. 24 Co. Ford State KS

Interval Tested 4944-4965 Zone Tested Marlow  
 Anchor Length 21' Drill Pipe Run 4923 Mud Wt. 9.3  
 Top Packer Depth 4939 Drill Collars Run Ø Vis 60  
 Bottom Packer Depth 4944 Wt. Pipe Run N.A. WL 8.8  
 Total Depth 5965 Chlorides 3150 ppm System LCM 2#

Blow Description IF: 30 min., BOB 4 min., strong building blow, 17.5 inches  
ISD: 30 min., Blow back 30 sec., 5.4 inches  
FF: 30 min., BOB 5 min., strong building blow, 43 inches  
FSD: 60 min., Blow back 30 sec., 6 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>gassy oily mud</u>	<u>20</u>	<u>20</u>	<u>60</u>	
<u>693</u>	<u>gassy oil</u>	<u>10</u>	<u>90</u>		
	<u>1260' GIP</u>				

Rec Total 756 BHT 123 Gravity 317 API 40 @ 90 ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2434  Test CONV. 1950 T-On Location 1000  
 (B) First Initial Flow 44  Jars 300 T-Started 1100  
 (C) First Final Flow 165  Safety Joint \_\_\_\_\_ T-Open 1315  
 (D) Initial Shut-In 1484  Circ Sub \_\_\_\_\_ T-Pulled 1545  
 (E) Second Initial Flow 170  Hourly Standby \_\_\_\_\_ T-Out 1830  
 (F) Second Final Flow 268  Mileage x 160 (Print) Comments lets @ 1057  
 (G) Final Shut-In 1503  Sampler 240 EM @ 1030  
 (H) Final Hydrostatic 2401  Straddle \_\_\_\_\_  EM Tool no good -350

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 60  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2490  
 Sub Total \_\_\_\_\_  
 Total 2140  
 Total \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Chris Hagan

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.