

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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Scale 1:240 Imperial

Well Name: GREEN CD #1
Surface Location: SE, NE, SW, SW Sec, 22, T8S, R19W
Bottom Location:
API: 15-163-24433
License Number: 34903
Spud Date: 8/27/2021 Time: 5:45 PM
Region: ROOKS CO.
Drilling Completed: 9/1/2021 Time: 1:15 PM
Surface Coordinates: 720' FSL & 1050' FWL
Bottom Hole Coordinates:
Ground Elevation: 1965.00ft
K.B. Elevation: 1972.00ft
Logged Interval: 2850.00ft To: 3500.00ft
Total Depth: 3500.00ft
Formation: ARBUCKLE
Drilling Fluid Type: CHEMICAL MUD

OPERATOR

Company: JASPAR CO. INC.
Address: P.O. BOX 1120

Contact Geologist: SHANE VEHIGE
Contact Phone Nbr: 785-650-4910
Well Name: GREEN CD #1
Location: SE, NE, SW, SW Sec, 22, T8S, R19W
API: 15-163-24433
Pool: Field: WEBSTER
State: KS Country:

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.43335
Latitude: 39.33801
N/S Co-ord: 720' FSL
E/W Co-ord: 1050' FWL

LOGGED BY

Company:
Address: 2511 E 19TH
HAYS, KS 67601
Phone Nbr: (785) 639-0721
Logged By: Geologist Name: CAMERON BRIN

CONTRACTOR

Contractor: STP DRILLING
Rig #: 1
Rig Type: MUD ROTARY
Spud Date: 8/27/2021 Time: 5:45 PM
TD Date: 9/1/2021 Time: 1:15 PM
Rig Release: 9/2/2021 Time: 5:30 AM

ELEVATIONS

K.B. Elevation: 1972.00ft Ground Elevation: 1965.00ft
K.B. to Ground: 7.00ft

NOTES

AFTER REVIEWING THE LOGS AND NEGATIVE DST'S, DECISION WAS MADE TO PLUG AND ABANDON THE GREEN CD #1.

TOPS COMPARISON

FORMATION	GREEN CD #1				GREEN D #3				GREEN D #1				D&A 1/23/91 GREEN #1							
	BLACK DIAMOND OIL				BLACK DIAMOND OIL				BLACK DIAMOND OIL				VIKING RESOURCES							
	W2, SW, SW, Sec. 22, T8S, R19W				E2, NW, SE, SW, Sec 22, T8S, R19W				SW, SE, SW, Sec. 22, T8S, R19W				SE, SW, SW, Sec. 22, T8S, R19W							
	KB		1972		KB		1989		KB		1987		KB		1972					
	LOG TOPS	SAMPLE TOPS		LOG	LOG	SMPL.		COMP. CARD	LOG	SMPL.		LOGS	LOG	SMPL.		COMP. CARD	LOG	SMPL.		
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	
ANHYDRITE TOP	1380	592	1384	588	1397	592	+ 0 - 4	1397	590	+ 2 - 2	1379	587	+ 5 + 1	1385	587	+ 5 + 1				
BASE	1415	557	1418	554	1431	558	- 1 - 4	1427	560	- 3 - 6	1413	553	+ 4 + 1							
TOPEKA	2909	-937	2910	-938	2924	-935	- 2 - 3	2929	-942	+ 5 + 4	2906	-940	+ 3 + 2							
HEERNER SHALE	3115	-1143	3117	-1145	3132	-1143	+ 0 - 2	3138	-1151	+ 8 + 6	3116	-1150	+ 7 + 5	3117	-1145	+ 2 + 0				
TORONTO	3144	-1172	3143	-1171	3158	-1169	- 3 - 2	3160	-1173	+ 1 + 2	3142	-1176	+ 4 + 5							
LKC	3158	-1186	3158	-1186	3172	-1183	- 3 - 3	3178	-1191	+ 5 + 5	3158	-1192	+ 6 + 6	3160	-1188	+ 2 + 2				
BKC	3377	-1405	3378	-1406	3387	-1398	- 7 - 8	3395	-1408	+ 3 + 2	3373	-1407	+ 2 + 1							
REWORKED ARBUCKLE	3400	-1428	3406	-1434																
ARBUCKLE	3407	-1435	3412	-1440	3417	-1428	- 7 - 12	3426	-1439	+ 4 - 1	3398	-1432	- 3 - 8	3408	-1436	+ 1 - 4				
TOTAL DEPTH	3499	-1527	3500	-1528	3421	-1432	- 95 - 96	3430	-1443	- 84 - 85	3600	-1634	+ 107 + 106	3427	-1455	- 72 - 73				

ANHYDRITE



DST #1

DRILL STEM TEST REPORT

Jasper Co. 22_8_19 Rooks, KS

PO Box 1120 Green CD #1

Hays, KS 67601 Job Ticket: 68281 **DST#:** 1

ATTN: Cameron Brin Test Start: 2021.08.31 @ 15:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 17:32:45 Tester: Dustin Day

Time Test Ended: 20:41:00 Unit No: 70

Interval: **3360.00 ft (KB) To 3415.00 ft (KB) (TVD)** Reference Elevations: 1972.00 ft (KB)

Total Depth: 3415.00 ft (KB) (TVD) 1965.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

Serial #: 6625 Inside

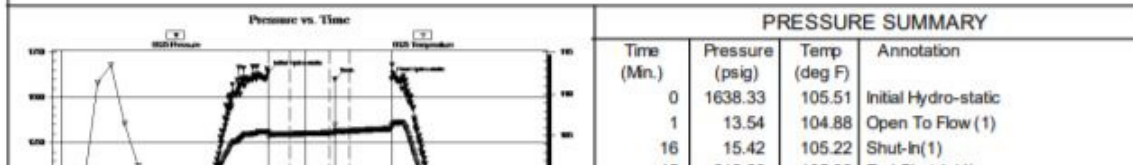
Press@RunDepth: 23.42 psig @ 3361.00 ft (KB) Capacity: 8000.00 psig

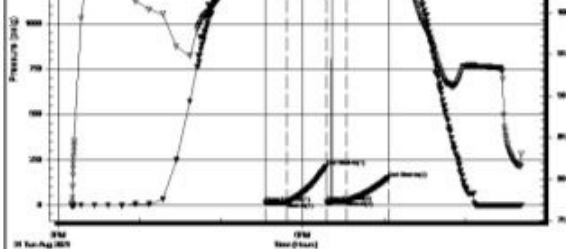
Start Date: 2021.08.31 End Date: 2021.08.31 Last Calib.: 2021.08.31

Start Time: 15:10:05 End Time: 20:40:59 Time On Btm: 2021.08.31 @ 17:32:30

Time Off Btm: 2021.08.31 @ 19:03:15

TEST COMMENT: F- Built to 1/2", Died to a surface blow
 SI1- No return
 FF- No blow, Flushed tool, No blow
 SI2- No return





45	212.29	105.38	End Shut-in(1)
46	17.06	105.32	Open To Flow(2)
49	1601.28	106.28	flush
60	23.42	105.58	Shut-in(2)
91	149.96	105.86	End Shut-in(2)
91	1605.25	106.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 90 Mud 10 Oil	0.05

Gas Rates


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

Trilobite Testing, Inc

Ref. No: 68281

Printed: 2021.08.31 @ 22:02:46

DST #2



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Jasper Co.

PO Box 1120
Hays, KS 67601

ATTN: Cameron Brin

22-8s-19w Rooks, KS

Green CD #1

Job Ticket: 68282 **DST#: 2**

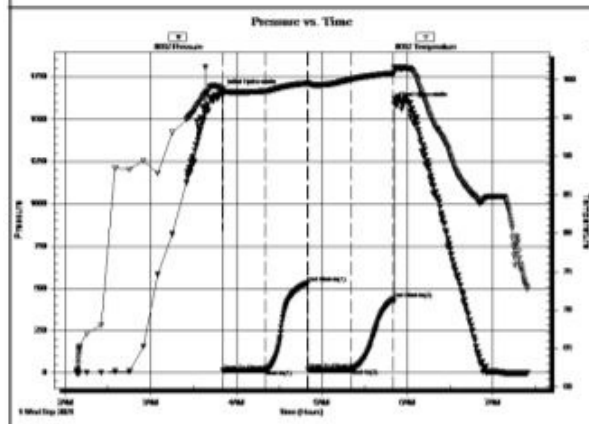
Test Start: 2021.09.01 @ 02:08:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:50:30
 Time Test Ended: 07:24:15
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Interval: **3410.00 ft (KB) To 3419.00 ft (KB) (TVD)**
 Total Depth: 3415.00 ft (KB) (TVD)
 Reference Elevations: 1972.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Good 1965.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8652 Outside
 Press@RunDepth: 23.39 psig @ 3411.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.01 End Date: 2021.09.01 Last Calib.: 2021.09.01
 Start Time: 02:08:05 End Time: 07:24:14 Time On Btm: 2021.09.01 @ 03:50:15
 Time Off Btm: 2021.09.01 @ 05:50:45

TEST COMMENT: F- Built to 1"
 SI1- No return
 FF- no blow
 SI2- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.90	98.83	Initial Hydro-static
1	13.88	97.91	Open To Flow (1)
30	18.77	98.49	Shut-in(1)
60	531.93	99.51	End Shut-in(1)
61	20.56	99.44	Open To Flow(2)
91	23.39	100.03	Shut-in(2)
120	438.10	100.84	End Shut-in(2)
121	1592.35	101.64	Final Hydro-static

Recovery







Length (ft)	Description	Volume (bbl)
10.00	OCM 85 mud 15 oil	0.05

Gas Rates

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

* Recovery from multiple tests

ROCK TYPES

 Congl	 Dolsec	 shale, gry
 Dolprim	 Lmst fw7>	 Carbon Sh

ACCESSORIES




MINERAL

- ▲ Chert, dark
- Sandy
- △ Chert White

FOSSIL

- F Fossils < 20%
- Oolite
- ⊕ Oomoldic

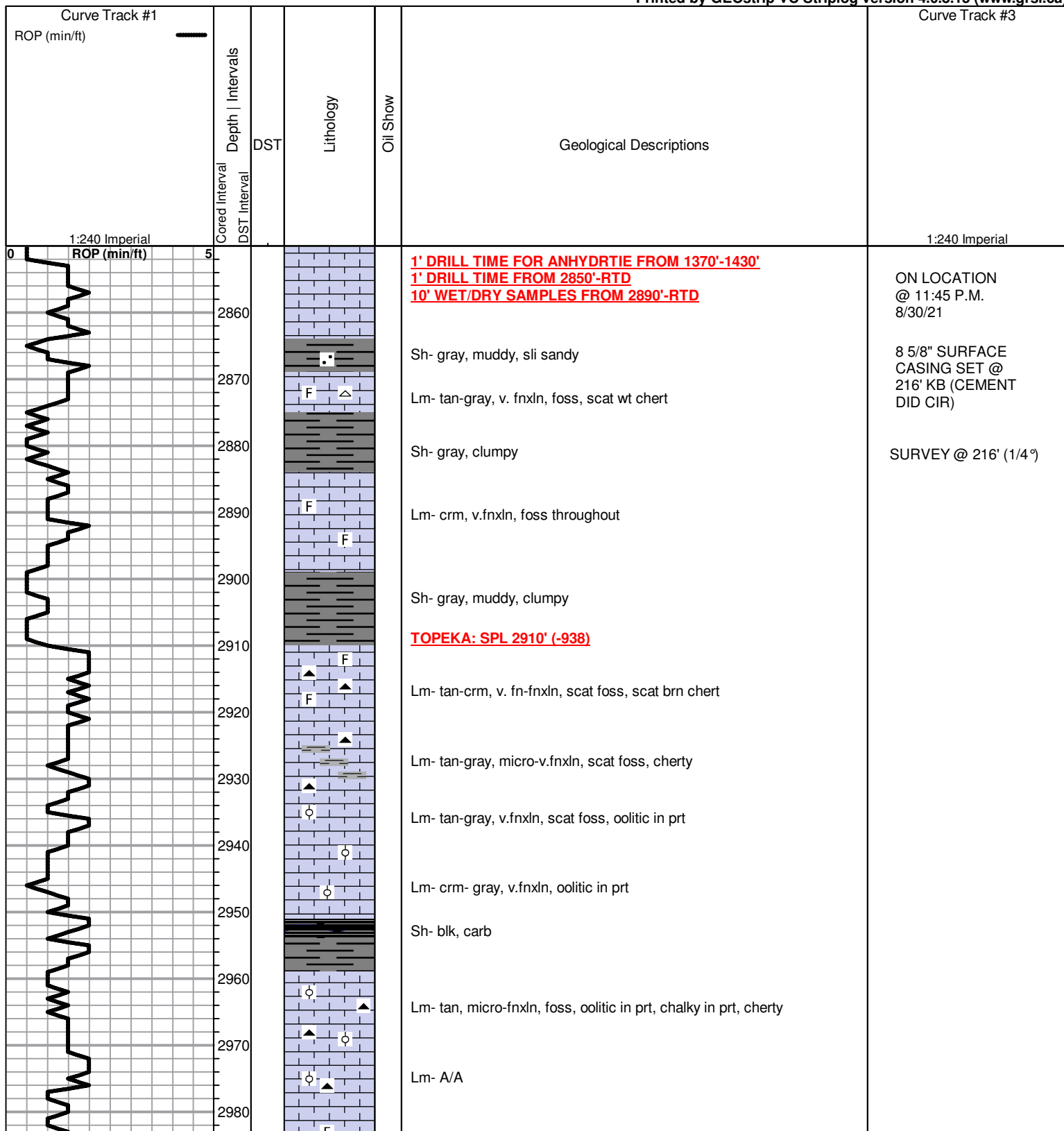
STRINGER

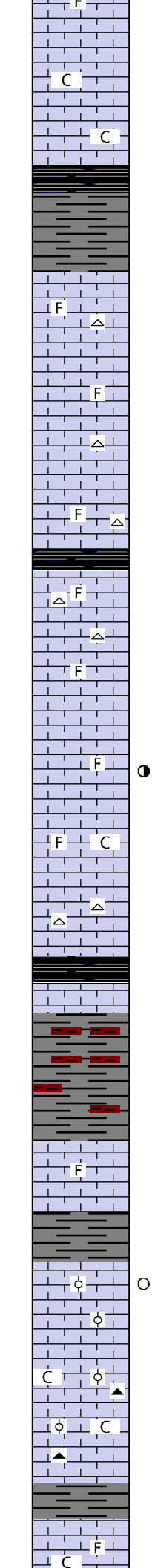
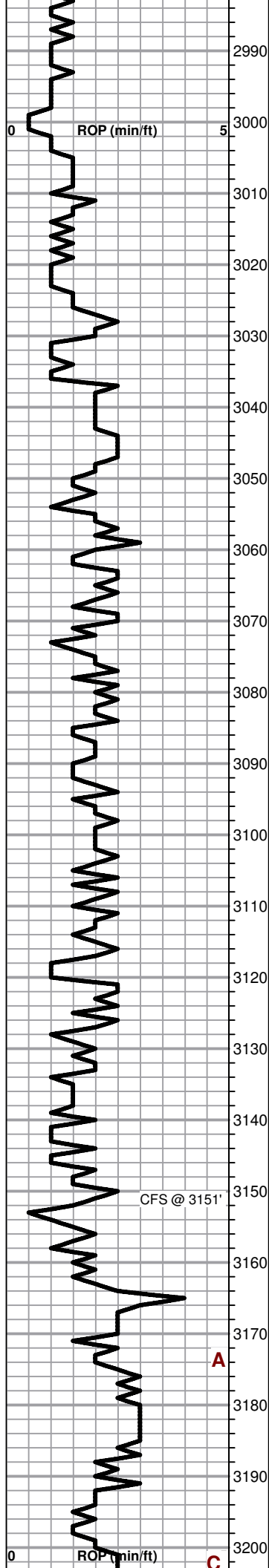
-  Dolomite
-  Shale
-  red shale

TEXTURE

- C Chalky

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





Lm- crm-tan, v.fnxln, scat foss, few scat pcs pr inxln por, NSO

Lm- crm, fnxln, foss, sli chalky

Sh- blk, carb

Lm- crm, micro-v.fnxln, cherty, scat foss

Lm- crm, v. fnxln, foss, scat v. pr inxln por, NSO

Lm- A/A, scat wt chert

Lm- crm-tan, v.fnxln, foss, scat tan-wt chert

Sh- blk, carb

Lm- crm, micro-v.fnxln, scat foss, chalky in prt, scat tan-wt chert

Lm- crm-wt, fnxln, scat foss, few scat pcs v. pr inxln por, NSO

Lm- crm-tan, v.fn-fnxln, foss, scat pr-fr inxln-infoss-ppt- sli vuggular por, **pr-fr brn stn , sli sat in pors, fr sheen FO in cup, fr odor**

Lm- crm, v.fn-fnxln, foss, chalky, scat pr inxln por, few pcs w/ pr brn stn most likely from above, NSFO, no odor

Lm- wt, microxln, dnse, scat wt chert

HEEBNER: SPL 3117' (-1145) LOG 3115' (-1143)

Sh- blk, carb

Sh- gray-brn, muddy red wash

TORONTO: SPL 3143' (-1171) LOG 3144' (-1172)

Lm- crm, micro-v. fnxln, scat foss, dense

LKC: SPL 3158' (-1186) LOG 3158' (-1186)

Lm- crm, fnxln, oolitic in prt, chalky in prt, mostly dnse, scat pr inxln-oolitic por, **few scat pcs pr brn stn, NSFO, pr-fr odor**

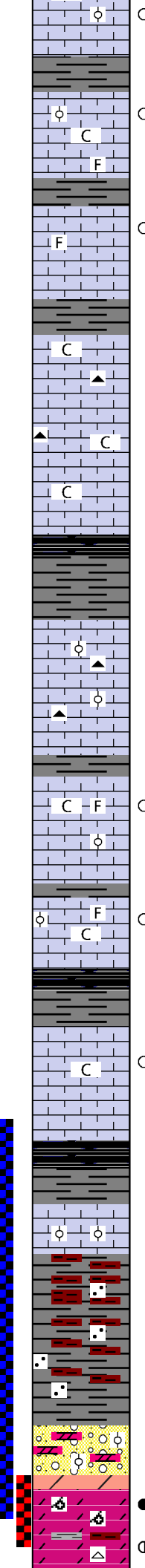
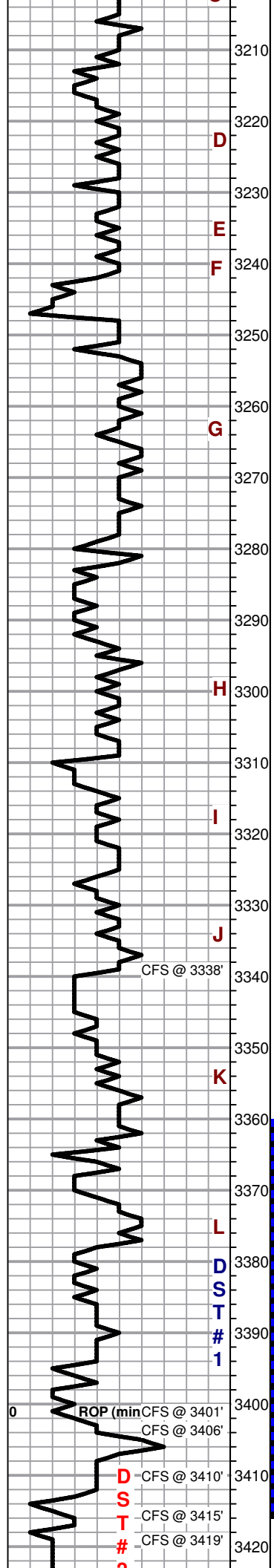
Lm- crm, wt, v.fnxln, oolitic in prt, barren, cherty, chalky in prt, few scat pcs v. pr inxln-oolitic por NSO

Sh- gray- green

Lm- crm, v. fn-fnxln, scat foss, oolitic in prt, chalky, v. few scat pcs pr inxln-oolitic por, **pr brn stn, 1-2 pcs sheen FO upon crush, sli odor**

A

C



Sh- brn- gray, scat wt chert

Lm- crm, v. fnxln, chalky, scat foss, oolitic in prt, mostly pr dev, scat pr inxln-infoss por, pr brn, stn, v. sli sheen FO in cup, pr-fr odor

Lm- wt, v.fnxln, scat foss, mostly dnse, mostly pr dev, few scat pcs pr ppt-inxln por, pr brn-blk stn in pores, sli sheen FO upon crush of 1-2 pcs, sli odor

Lm- crm, v.fnxln, chalky, cherty, barren, few pcs pr inxln por, NSO

Lm- crm, v. fnxln, chalky in prt, cherty, barren, mostly dnse, 1 pc pr inxln por, pr brn stn, NSFO, sli- no odor

Lm- A/A, no show

Sh- blk, carb
Chert- wt-brn

Lm- crm, v. fnxln, cherty, oolitic in prt, barren
Chert- wt-brn

Lm- crm, v. fnxln, foss, oolitic in prt, chalky in prt, mostly pr dev, few scat pcs pr inxln-infoss por, 2-3 pcs fr inxln-infoss por, pr-fr brn stn in pors, sli sheen FO upon crush, sli odor

Lm- crm, v.fnxln, scat foss, oolitic in prt, chalky in prt, scat pr inxln-infoss por, pr brn stn, NSFO, sli odor

Sh- blk, carb

Lm- crm, v. fnxln chalky in prt, scat v. pr inxln por, v. pr brn stn, v. sli sheen FO in cup, sli odor

Sh- blk, carb

Lm- crm. v. fnxln, mostly dnse, oolitic, barren
BKC: SPL 3378' (-1406) LOG 3377' (-1405)

Sh- gray-brn, muddy red wash, sandy

REWORKED ARBUCKLE: SPL 3406' (-1434) LOG 3400' (-1428)

Lm- cong, crm, fnxln, sli chalky, scat dolomitic Lm
Sh- red-gray-green, Chert- brn-wt, oolitic

ARBUCKLE: SPL 3412' (-1440) LOG 3407' (-1435)

Dolo-wt, fnxln-mdgrn, oolitic in prt, sucrosic in prt, fr-gd inxln-oomoldic por, few scat vugs, fr-gd blk sat stn, gd sheen FO in cup & spl, fr-gd odor

3419'- Dolo- wt, fnxln-mdgrn, weathered in prt, scat mostly pr w/ few pcs fr

DST #1
3360'-3415' (ARB)
15-30-15-30
10' OCM
SIP: 212-149#

PIPE STRAP 1.30'
LONG TO BOARD

SURVEY @ 3415' (3/4°)

DST #2
3410'-3419' (ARB)
30-30-30-30

▲ -CFS @ 3424'

3430
3440
3450
3460
3470
3480
3490
3500
3510
3520



O

inxn-ppt por, fr drk brn stn, oil bubbles from pores when heated, fr sheen FO in cup & spl, fr odor

3424'-Dolo- crm-wt, v. fnxn-fngrn, weather in prt, scat mostl pr inxn- tight ppt por, scat mostly pr brn-blk stn, fr sheen & FO droplets in cup, fr odor

O

Dolo- wt, fnxn, sucrosic in prt, scat pr inxn por, 2-3 pcs pr-fr brn stn, scat dead blk oil, pr-fr sheen FO in cup, pr odor

O

Dolo- wt-lt. pink, fn-mdxn, sucrosic in prt, scat pr inxn-ppt por, 1-2 pcs pr-fr brn stn, v. sli sheen FO in cup, pr odor

D

Dolo- wt, v.fn-fnxln, scat v. pr inxn por, dead blk oil, NSFO, no odor

Dolo- A/A, oolitic in prt

Dolo A/A

RTD: SPL 3500' (-1528) LOG 3499' (-1527)

10' OCM

SIP: 531-438#

ALL SAMPLES FROM THE ARBUCKLE TOP UNTIL 3450' HAD MUCH RED-GRAY SHALES AND SCATTERED WT CHERT

SURVEY @ RTD (3/4°)

OFF LOCATION @ 7:15 P.M. 9/1/21

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

Home Office P.O. Box 32 Russell, KS 67665

No. 2419

Cell 785-324-1041

Date	8-27-21	Sec.	22	Twp.	8	Range	19	County	Rooks	State	Ks	On Location		Finish	11:15 AM
------	---------	------	----	------	---	-------	----	--------	-------	-------	----	-------------	--	--------	----------

Location ZURich 7W N in

Lease	GREEN CD	Well No.	1	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	STP				
Type Job	SURFACE				
Hole Size	12 1/4	T.D.	210	Charge To	Jasper CO
Csg.	8 1/2	Depth		Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	15	Shoe Joint	12.5	Cement Amount Ordered	150 80/20 3-1/4 2-1/4
Meas Line		Displace			

EQUIPMENT

Pumptrk	5	No.	Cementer	Common	120
			Helper	Poz. Mix	30
Bulktrk		No.	Driver	Gel.	3
			Driver	Calcium	6
Bulktrk	9	No.	Driver		
			Driver		

JOB SERVICES & REMARKS

Remarks:	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
Ran 5 Jts of 8 1/2 set e	Sand
	Handling 159
	Mileage

FLOAT EQUIPMENT

Cent w/ 150 Al Cent. pump plug w/ 12 bbls water Cent did circ.	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge Surface
Mileage 39

X Signature *[Signature]*

Thanks

Tax	
Discount	
Total Charge	

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., a party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies sold, or furnished under the requirements of this contract.

- **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- **DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2426

Date	9-1-21	Sec.	22	Twp.	8	Range	19	County	Rooks	State	KS	On Location		Finish	1:30 AM
								Location	Zenich 2 1/2 N Emdo						

Lease	GREEN CD	Well No.	1	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	STP				
Type Job	PTA				
Hole Size	7 7/8	T.D.	3500	Charge To	Jasper Co
Csg.		Depth		Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	290 of 6 7/8 4 1/2 Gal 1/4 # Flow Seal
Meas Line		Displace			

EQUIPMENT

Pumptrk	17	No.	Cementer	Bill	Common	174
			Helper		Poz. Mix	116
Bulktrk		No.	Driver	Craig	Gel.	11
			Driver		Calcium	
Bulktrk	15	No.	Driver	Doog		
			Driver			

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole	304	Salt	
Mouse Hole		Flowseal	75#
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
3380 -	504	Sand	
1400 -	504	Handling	301
800 -	1004	Mileage	
270 -	504	FLOAT EQUIPMENT 8 5/8 ID Hole Plug	
40 -	104	Guide Shoe	
		Centralizer	
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	

Pumptrk Charge	plug	Tax	
Mileage	39	Discount	
Signature <i>[Signature]</i>		Total Charge	

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net-cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

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(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

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(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jasper Co.
 PO Box 1120
 Hays, KS 67601
 ATTN: Cameron Brin

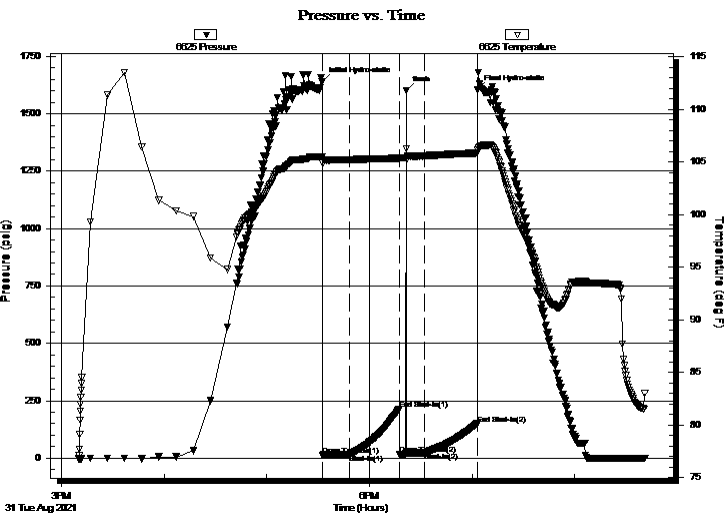
22_8_19 Rooks, KS
Green CD #1
 Job Ticket: 68281 **DST#: 1**
 Test Start: 2021.08.31 @ 15:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:32:45
 Time Test Ended: 20:41:00
 Interval: **3360.00 ft (KB) To 3415.00 ft (KB) (TVD)**
 Total Depth: 3415.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 1972.00 ft (KB)
 1965.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6625 Inside
 Press@RunDepth: 23.42 psig @ 3361.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.08.31 End Date: 2021.08.31 Last Calib.: 2021.08.31
 Start Time: 15:10:05 End Time: 20:40:59 Time On Btm: 2021.08.31 @ 17:32:30
 Time Off Btm: 2021.08.31 @ 19:03:15

TEST COMMENT: IF- Built to 1/2", Died to a surface blow
 S11- No return
 FF- No blow , Flushed tool, No blow
 S12- No return



PRESSURE SUMMARY

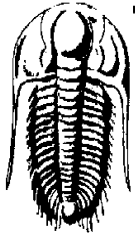
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.33	105.51	Initial Hydro-static
1	13.54	104.88	Open To Flow (1)
16	15.42	105.22	Shut-In(1)
45	212.29	105.38	End Shut-In(1)
46	17.06	105.32	Open To Flow (2)
49	1601.28	106.28	flush
60	23.42	105.58	Shut-In(2)
91	149.96	105.86	End Shut-In(2)
91	1605.25	106.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 90 Mud 10 Oil	0.05

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Jasper Co.
PO Box 1120
Hays, KS 67601
ATTN: Cameron Brin

22_8_19 Rooks, KS
Green CD #1
Job Ticket: 68281 **DST#: 1**
Test Start: 2021.08.31 @ 15:10:00

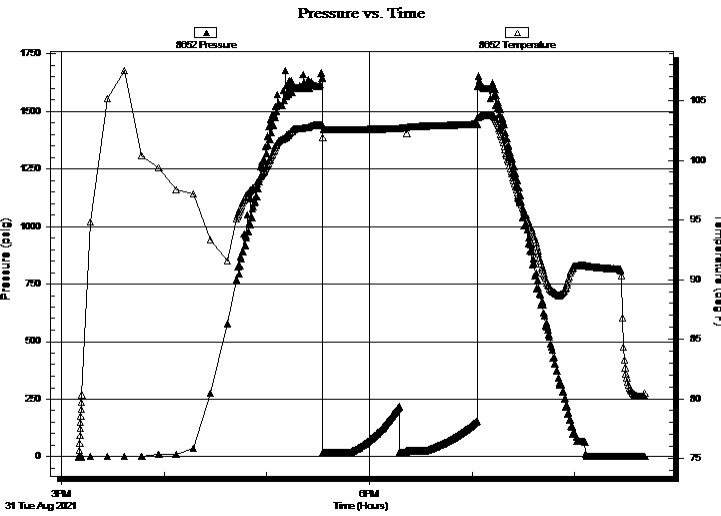
GENERAL INFORMATION:

Formation: Arbuckle		Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)		Tester: Dustin Day
Time Tool Opened: 17:32:45		Unit No: 70
Time Test Ended: 20:41:00		
Interval: 3360.00 ft (KB) To 3415.00 ft (KB) (TVD)		Reference Elevations: 1972.00 ft (KB)
Total Depth: 3415.00 ft (KB) (TVD)		1965.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition:	KB to GR/CF: 7.00 ft

Serial #: 8652 Outside

Press@RunDepth: psig @ 3361.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2021.08.31 End Date: 2021.08.31	Last Calib.: 2021.08.31
Start Time: 15:10:05 End Time: 20:40:59	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF- Built to 1/2", Died to a surface blow
S11- No return
FF- No blow , Flushed tool, No blow
S12- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 90 Mud 10 Oil	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jasper Co.

22_8_19 Rooks, KS

PO Box 1120
Hays, KS 67601

Green CD #1

Job Ticket: 68281

DST#: 1

ATTN: Cameron Brin

Test Start: 2021.08.31 @ 15:10:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 90 Mud 10 Oil	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1 1/2# LCM

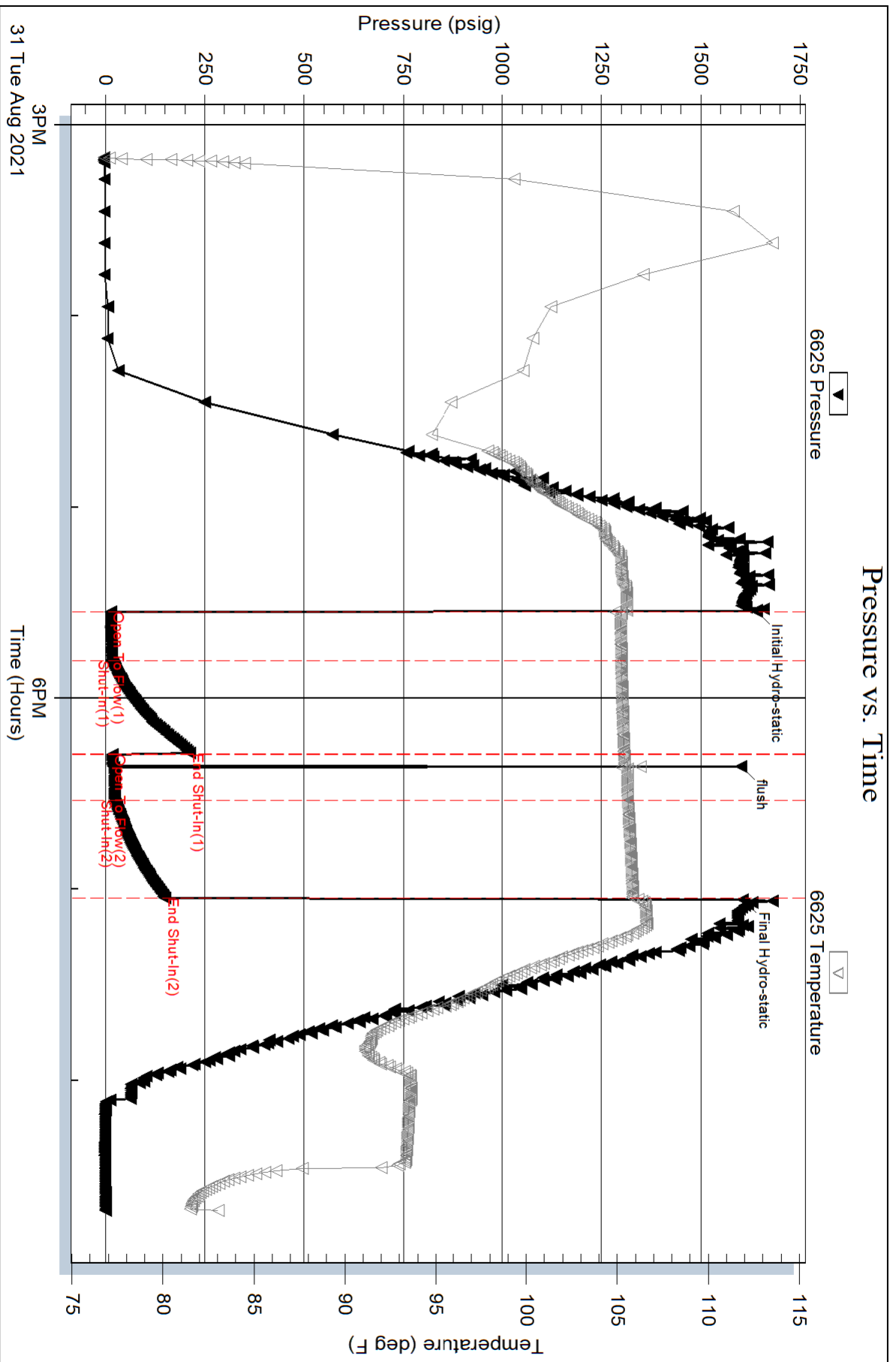
Serial #: 6625

Inside Jasper Co.

Green OD #1

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 68281

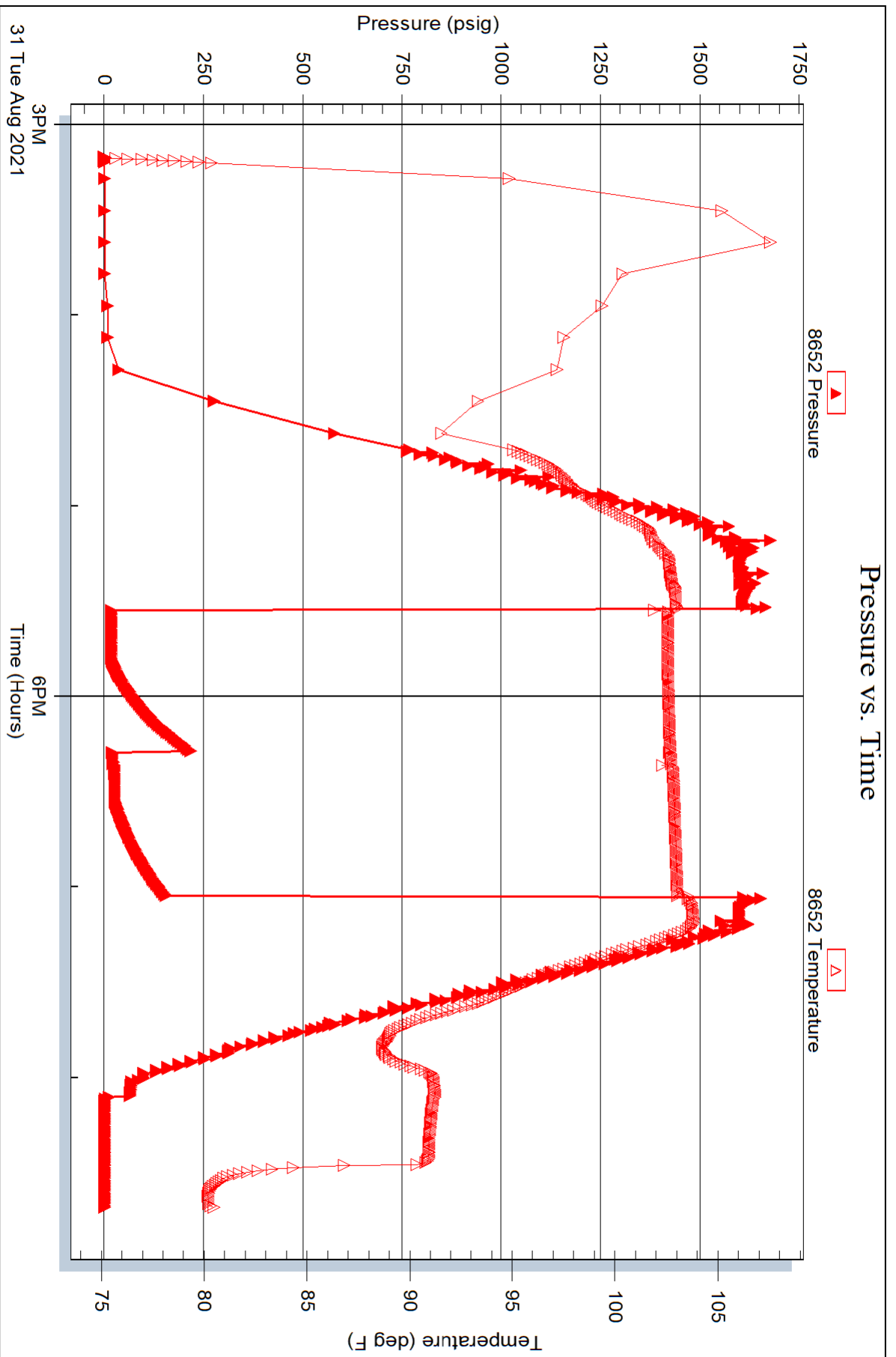
Printed: 2021.08.31 @ 22:02:47

Serial #: 8652

Outside Jasper Co.

Green OD #1

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jasper Co.
PO Box 1120
Hays, KS 67601

22-8s-19w Rooks, KS

Green CD #1

Job Ticket: 68282

DST#: 2

ATTN: Cameron Brin

Test Start: 2021.09.01 @ 02:08:00

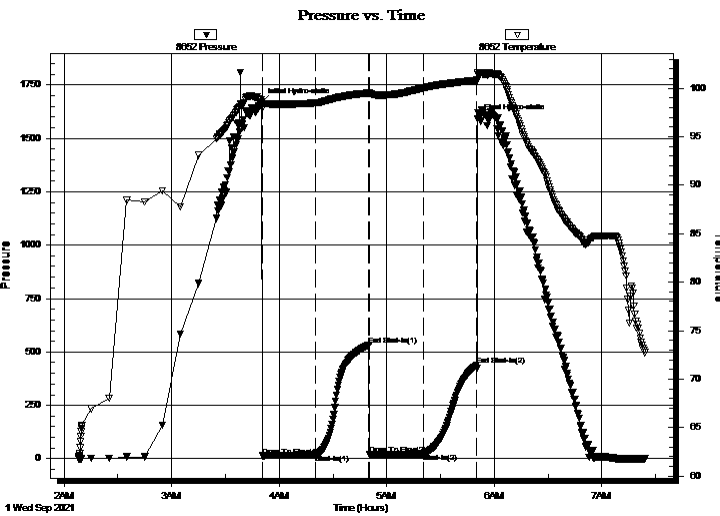
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:50:30
 Time Test Ended: 07:24:15
 Interval: **3410.00 ft (KB) To 3419.00 ft (KB) (TVD)**
 Total Depth: 3415.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 1972.00 ft (KB)
 1965.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8652 Outside

Press@RunDepth: 23.39 psig @ 3411.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.01 End Date: 2021.09.01 Last Calib.: 2021.09.01
 Start Time: 02:08:05 End Time: 07:24:14 Time On Btm: 2021.09.01 @ 03:50:15
 Time Off Btm: 2021.09.01 @ 05:50:45

TEST COMMENT: IF- Built to 1"
 SI1- No return
 FF- no blow
 SI2- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.90	98.83	Initial Hydro-static
1	13.88	97.91	Open To Flow (1)
30	18.77	98.49	Shut-In(1)
60	531.93	99.51	End Shut-In(1)
61	20.56	99.44	Open To Flow (2)
91	23.39	100.03	Shut-In(2)
120	438.10	100.84	End Shut-In(2)
121	1592.35	101.64	Final Hydro-static

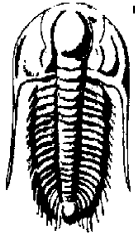
Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 85 mud 15 oil	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Jasper Co.
PO Box 1120
Hays, KS 67601
ATTN: Cameron Brin

22-8s-19w Rooks, KS
Green CD #1
Job Ticket: 68282 **DST#: 2**
Test Start: 2021.09.01 @ 02:08:00

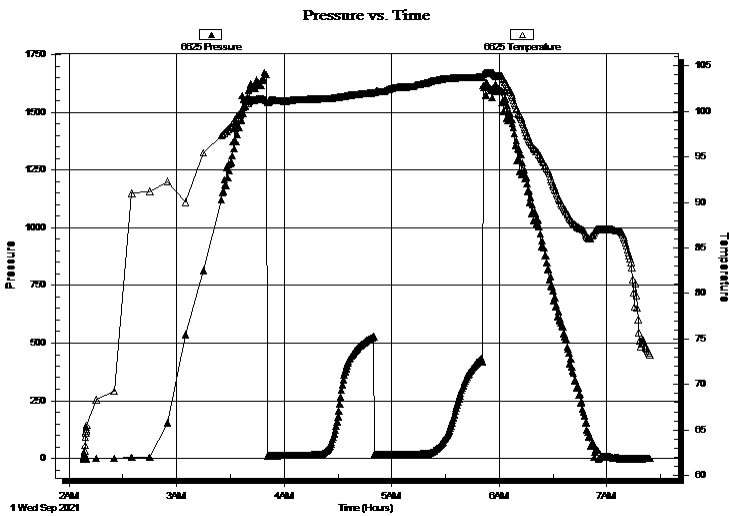
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 03:50:30 Tester: Dustin Day
Time Test Ended: 07:24:15 Unit No: 70

Interval: **3410.00 ft (KB) To 3419.00 ft (KB) (TVD)** Reference Elevations: 1972.00 ft (KB)
Total Depth: 3415.00 ft (KB) (TVD) 1965.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 6625 Inside
Press@RunDepth: psig @ 3411.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.09.01 End Date: 2021.09.01 Last Calib.: 2021.09.01
Start Time: 02:08:05 End Time: 07:24:14 Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Built to 1"
SI1- No return
FF- no blow
SI2- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 85 mud 15 oil	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jasper Co.

22-8s-19w Rooks, KS

PO Box 1120
Hays, KS 67601

Green CD #1

Job Ticket: 68282

DST#: 2

ATTN: Cameron Brin

Test Start: 2021.09.01 @ 02:08:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 85 mud 15 oil	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

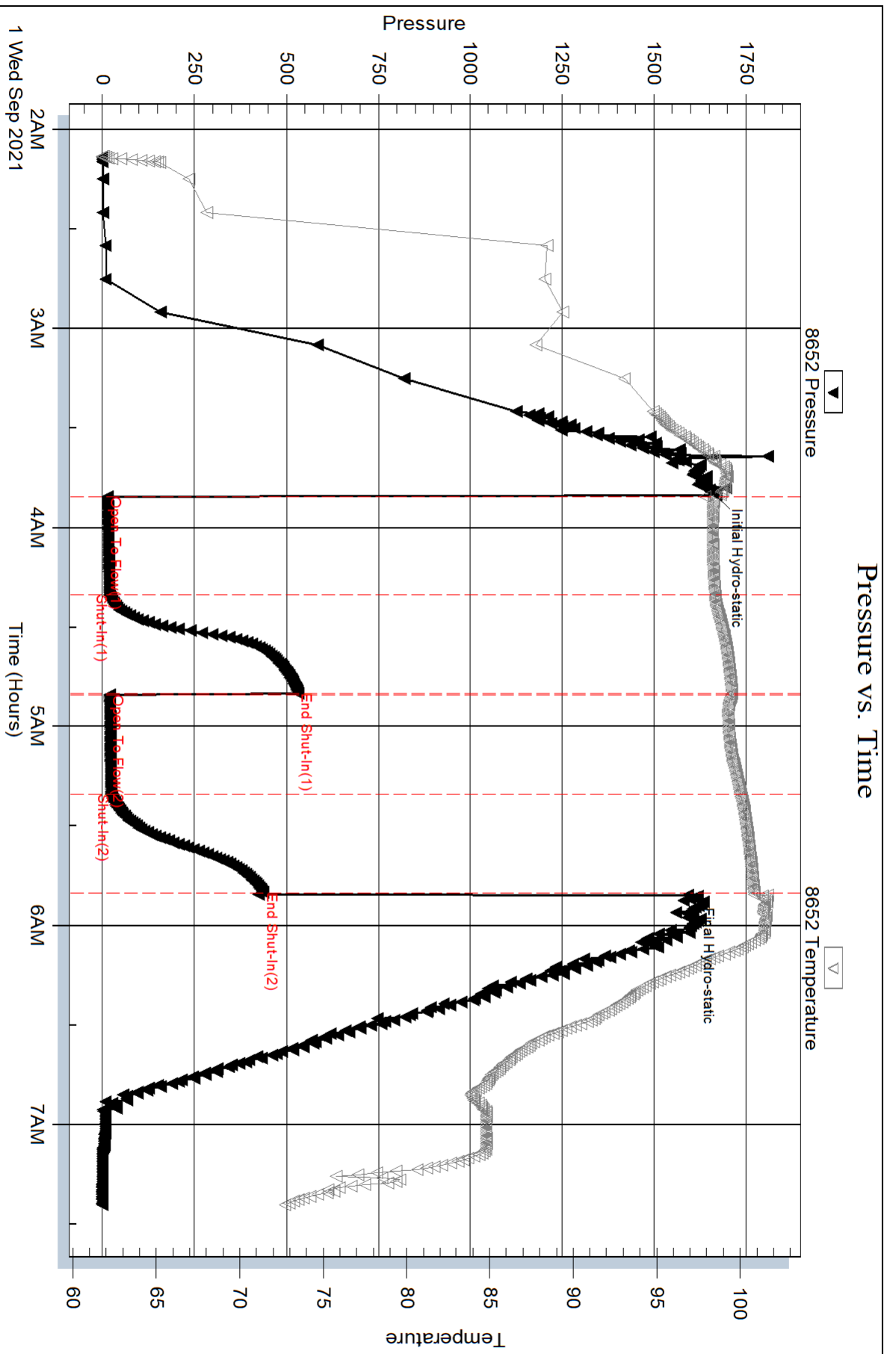
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1 1/2# LCM



Serial #: 6625

Inside

Jasper Co.

Green OD #1

DST Test Number: 2

