

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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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. 2061

Date	10/7/2020	Sec.	8	Twp.	17	Range	12	County	Barton	State	Kansas	On Location	Finish	1:30 AM
Location <u>Beaver 45 to 150 Rd 1/2 W N. into</u>														

Lease <u>Klug</u>	Well No. <u>1</u>	Owner <u>☐</u>
Contractor <u>Southwind Drilling Rig 3</u>	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.	
Type Job <u>Surface</u>	Charge To <u>Charter Energy</u>	
Hole Size <u>12 1/4</u>	T.D. <u>401.2</u>	Street
Csg. <u>8 5/8</u>	Depth <u>400.06</u>	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <u>15'</u>	Shoe Joint <u>15'</u>	Cement Amount Ordered <u>180% 40 4% cc 2% gel</u>
Meas Line	Displace <u>24.5</u>	

EQUIPMENT

Pumptrk <u>17</u>	No.	Cementer <u>Tim</u>	Helper	Common <u>110</u>
Bulktrk <u>14</u>	No.	Driver <u>Doug</u>	Driver	Poz. Mix <u>70</u>
Bulktrk <u>PU.</u>	No.	Driver <u>David</u>	Driver	Gel. <u>3</u>
				Calcium <u>8</u>

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
	Sand
	Handling <u>191</u>
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Cement Did Circulate

Pumptrk Charge Surface
Mileage 25

Frank J. Bore
Signature

Thanks

Tax	
Discount	
Total Charge	

SWIFT



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
10/12/2020	33242

BILL TO
Charter Energy, Inc. P. O. Box 252 Great Bend, KS 67530-0252

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Klug	Barton	Southwind Rig #3	Oil	Development	PTA	David E
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				60	Miles	5.00	300.00
576D-P	Pump Charge - PTA				1	Job	925.00	925.00
290	D-Air				2	Gallon(s)	42.00	84.00T
410-8	8 5/8" Top Plug				1	Each	130.00	130.00T
328-4	60/40 Pozmix (4% Gel)				220	Sacks	11.00	2,420.00T
276	Flocele				50	Lb(s)	3.00	150.00T
581D	Service Charge Cement				220	Sacks	1.85	407.00
583D	Drayage				533	Ton Miles	0.95	506.35
	Subtotal							4,922.35
Customer Disc...	Customer Discount Per Ted						-15.00%	-738.35
	Subtotal							4,184.00
	Sales Tax Barton County						7.50%	177.48
We Appreciate Your Business!							Total	\$4,361.48



TICKET 033242

CHARGE TO: Character Energy
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Hays Ks</u>	WELL/PROJECT NO. # <u>1</u>	LEASE <u>slug</u>	COUNTY/PARISH <u>Barton</u>	STATE <u>Ks</u>	CITY	DATE <u>10-12-20</u>	OWNER
2. <u>Ness City Ks</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Southwind</u>	RIG NAME/NO. <u>Rig # 3</u>	SHIPPED VIA <u>5</u>	DELIVERED TO <u>LOCATION</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>development</u>	JOB PURPOSE <u>PTA Rotary</u>		WELL PERMIT NO.	WELL LOCATION	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF					
<u>575</u>					<u>60</u>	<u>mi</u>	<u>5.00</u>	<u>300.00</u>	
<u>576P</u>				<u>MILEAGE Trk # 111</u>	<u>1</u>	<u>EA</u>	<u>925.00</u>	<u>925.00</u>	
<u>290</u>				<u>Pump Charge - PTA</u>	<u>2</u>	<u>EA</u>	<u>42.00</u>	<u>84.00</u>	
<u>410</u>				<u>D-Air</u>	<u>1</u>	<u>EA</u>	<u>130.00</u>	<u>130.00</u>	
<u>328-4</u>				<u>TOP Plug 85/8</u>					
<u>276</u>				<u>60/40 pozmix 4% gel</u>	<u>220</u>	<u>skt</u>	<u>11.00</u>	<u>2420.00</u>	
<u>581</u>				<u>Floccle</u>	<u>50</u>	<u>lbs</u>	<u>3.00</u>	<u>150.00</u>	
<u>583</u>				<u>Service charge cont</u>	<u>220</u>	<u>skt</u>	<u>1.85</u>	<u>407.00</u>	
				<u>Dreyage</u>	<u>533</u>	<u>TM</u>	<u>.95</u>	<u>506.35</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.

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	AGREE	UNDECIDED	DISAGREE
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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		

PAGE TOTAL	<u>4922.35</u>
TOTAL	<u>4301.48</u>

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

SWIFT OPERATOR _____ APPROVAL _____
 Thank You!

CUSTOMER
Charter Energy

WELL NO.
#1

LEASE
Klug

JOB TYPE
PTA

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1800							On location
								Break Circulation
	1910		10			300		1st plug - 3365'
			13			300		pump wtr spacer
			4			300		pump cmt - 50 sks cmt
								pump wtr Disp
								Disp w/ mud - 5 min
	2000		5			300		2nd plug - 810'
			13			300		pump wtr spacer
			2			300		pump cmt - 50 sks cmt
								pump wtr Disp
	2110		21			200		3rd plug - 500
			1			200		pump 200000 cmt - 20 sks
								Disp
	2120		2			0		4th plug - 40'
								pump 10 sks clo top off
	2130		8					plug rat hole - 30 sks
								Job Complete
								Thanks
								David, Zach & Isaac



DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252
Great Bend, KS 67530

ATTN: Jim Musgrove

Klug #1

8-17S-12W Barton,KS

Start Date: 2020.10.10 @ 17:30:20

End Date: 2020.10.11 @ 02:09:40

Job Ticket #: 59536 DST #: 1

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

Printed: 2020.10.13 @ 09:56:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

8-17S-12W Barton,KS

Klug #1

Job Ticket: 59536

DST#: 1

Test Start: 2020.10.10 @ 17:30:20

GENERAL INFORMATION:

Formation: **LKC "I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:33:26

Time Test Ended: 02:09:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3278.00 ft (KB) To 3370.00 ft (KB) (TVD)

Reference Elevations: 1911.00 ft (KB)

Total Depth: 3370.00 ft (KB) (TVD)

1902.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 9.00 ft

Serial #: 8700

Outside

Press@RunDepth: 244.74 psig @ 3279.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.10.10

End Date:

2020.10.11

Last Calib.: 2020.10.11

Start Time: 17:30:21

End Time:

02:09:40

Time On Btm: 2020.10.10 @ 20:30:11

Time Off Btm: 2020.10.10 @ 23:50:41

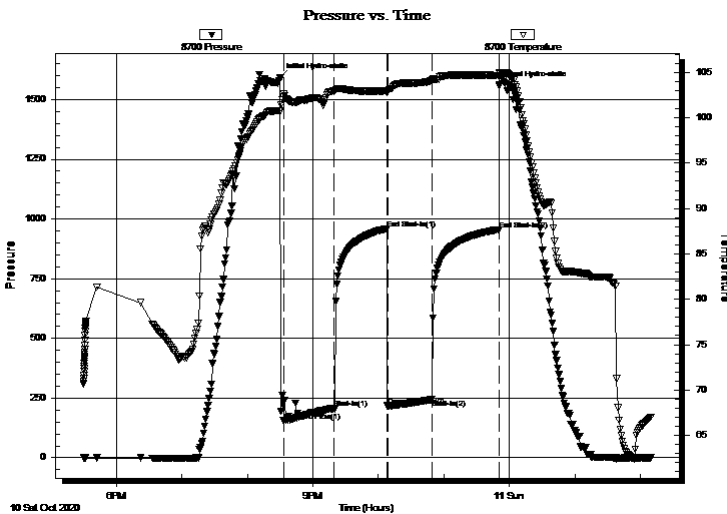
TEST COMMENT: 45- IF- Tool slid 20' - bled off - BOB 39 mins. Built to 11.21"

45- IS- No blow

45- FF- Slow ly built to 9.40"

60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1592.17	100.73	Initial Hydro-static
4	152.86	102.58	Open To Flow (1)
50	206.64	102.99	Shut-In(1)
98	959.70	102.96	End Shut-In(1)
99	215.62	102.84	Open To Flow (2)
140	244.74	104.15	Shut-In(2)
200	955.69	104.65	End Shut-In(2)
201	1559.78	104.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	WM, 30%W 70&M	0.89
410.00	SOCM, 5%O 95%M	5.81

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

8-17S-12W Barton,KS
Klug #1
Job Ticket: 59536 **DST#: 1**
Test Start: 2020.10.10 @ 17:30:20

Tool Information

Drill Pipe:	Length: 3258.00 ft	Diameter: 3.82 inches	Volume: 46.18 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	20.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3278.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	92.00 ft				
Tool Length:	117.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3254.00	
Shut In Tool	5.00			3259.00	
Hydraulic tool	5.00			3264.00	
Gap Sub	5.00			3269.00	
Packer	5.00			3274.00	25.00 Bottom Of Top Packer
Packer	4.00			3278.00	
Stubb	1.00			3279.00	
Recorder	0.00	6771	Inside	3279.00	
Recorder	0.00	8700	Outside	3279.00	
Perforations	21.00			3300.00	
Change Over Sub	1.00			3301.00	
Drill Pipe	64.00			3365.00	
Change Over Sub	1.00			3366.00	
Perforations	1.00			3367.00	
Bullnose	3.00			3370.00	92.00 Bottom Packers & Anchor

Total Tool Length: 117.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

8-17S-12W Barton,KS
Klug #1
Job Ticket: 59536 **DST#: 1**
Test Start: 2020.10.10 @ 17:30:20

Mud and Cushion Information

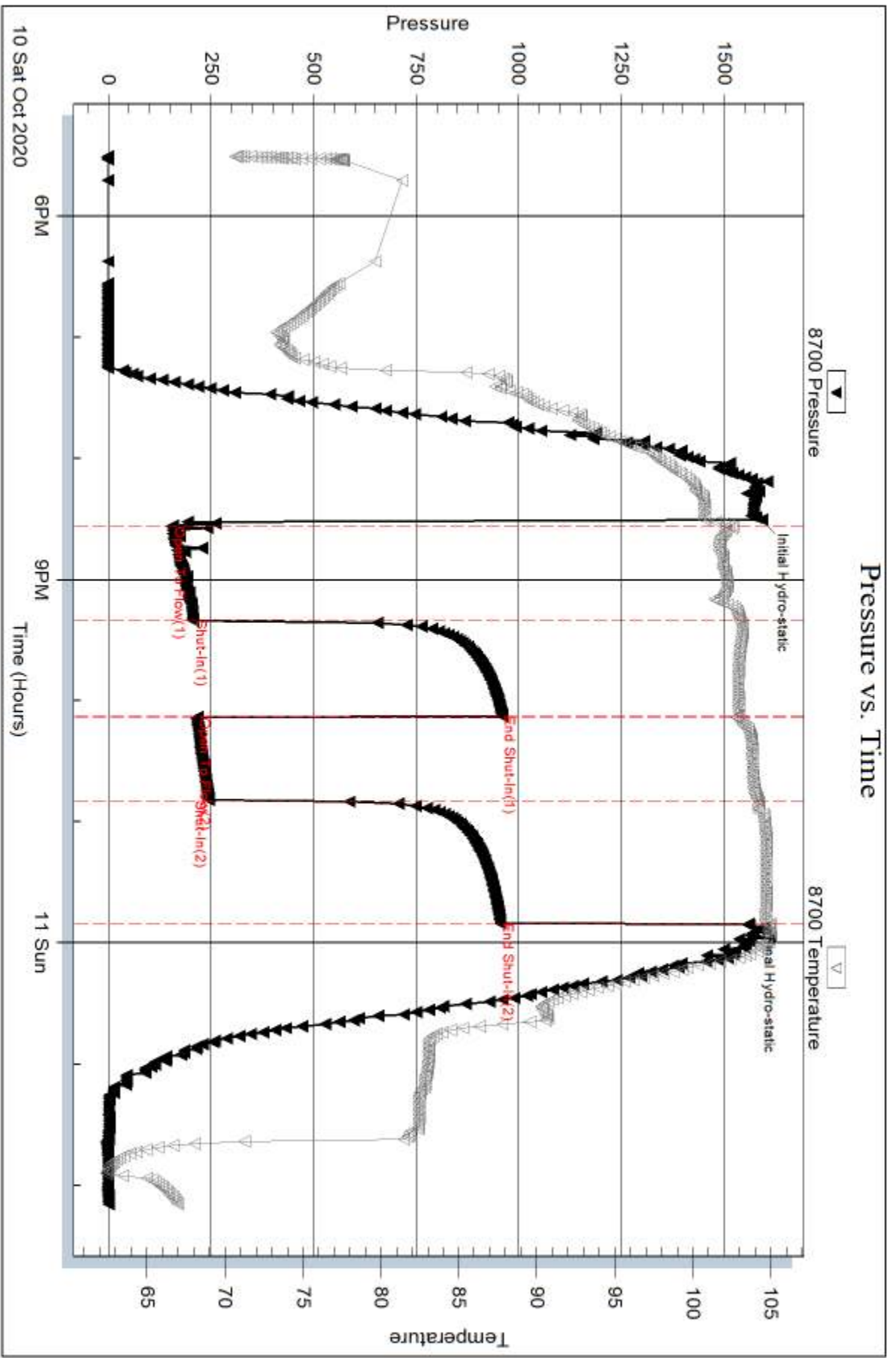
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	13000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	WM, 30%W 70&M	0.893
410.00	SOCM, 5%O 95%M	5.812

Total Length: 473.00 ft Total Volume: 6.705 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW: .56@65deg



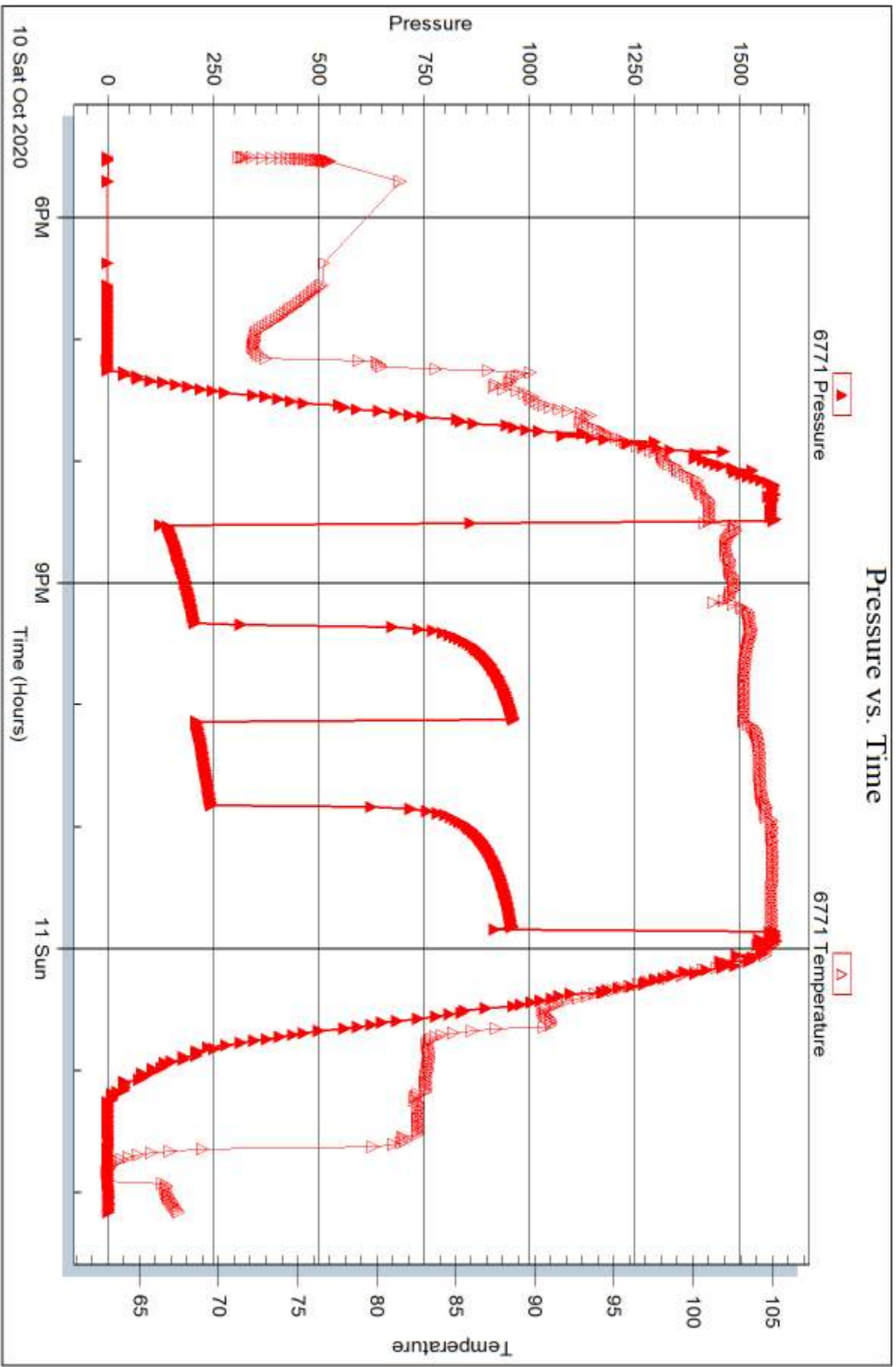
Serial #: 6771

Inside

Charter Energy, Inc.

Klug #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252
Great Bend, KS 67530

ATTN: Jim Musgrove

Klug #1

8-17S-12W Barton,KS

Start Date: 2020.10.11 @ 09:06:43

End Date: 2020.10.11 @ 15:41:04

Job Ticket #: 59537 DST #: 2

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

Printed: 2020.10.13 @ 09:56:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

8-17S-12W Barton,KS

Klug #1

Job Ticket: 59537

DST#: 2

Test Start: 2020.10.11 @ 09:06:43

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:09:49
 Time Test Ended: 15:41:04
 Interval: **3361.00 ft (KB) To 3391.00 ft (KB) (TVD)**
 Total Depth: 3391.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1911.00 ft (KB)
 1902.00 ft (CF)
 KB to GR/CF: 9.00 ft

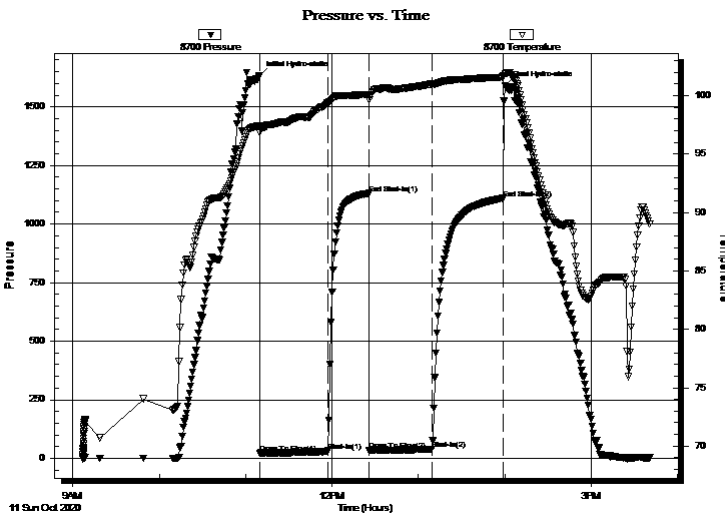
Serial #: 8700

Outside

Press@RunDepth: 38.12 psig @ 3362.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.10.11 End Date: 2020.10.11 Last Calib.: 2020.10.11
 Start Time: 09:06:44 End Time: 15:41:04 Time On Btm: 2020.10.11 @ 11:09:34
 Time Off Btm: 2020.10.11 @ 14:00:04

TEST COMMENT: 45- IF- Slow ly built to 2.04"
 30- IS- No blow
 45- FF- Slow ly built to 1.24"
 45- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.21	97.40	Initial Hydro-static
1	22.37	96.86	Open To Flow (1)
48	29.39	99.38	Shut-In(1)
76	1130.67	100.08	End Shut-In(1)
77	35.01	99.65	Open To Flow (2)
120	38.12	101.00	Shut-In(2)
169	1109.44	101.59	End Shut-In(2)
171	1590.32	101.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCM, 20%O 80%M	0.71

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

8-17S-12W Barton,KS
Klug #1
Job Ticket: 59537 **DST#: 2**
Test Start: 2020.10.11 @ 09:06:43

Tool Information

Drill Pipe:	Length: 3352.00 ft	Diameter: 3.82 inches	Volume: 47.52 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	46000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	37000.00 lb
Depth to Top Packer:	3361.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3337.00	
Shut In Tool	5.00			3342.00	
Hydraulic tool	5.00			3347.00	
Gap Sub	5.00			3352.00	
Packer	5.00			3357.00	25.00 Bottom Of Top Packer
Packer	4.00			3361.00	
Stubb	1.00			3362.00	
Recorder	0.00	6771	Inside	3362.00	
Recorder	0.00	8700	Outside	3362.00	
Perforations	26.00			3388.00	
Bullnose	3.00			3391.00	30.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

8-17S-12W Barton,KS
Klug #1
Job Ticket: 59537 **DST#: 2**
Test Start: 2020.10.11 @ 09:06:43

Mud and Cushion Information

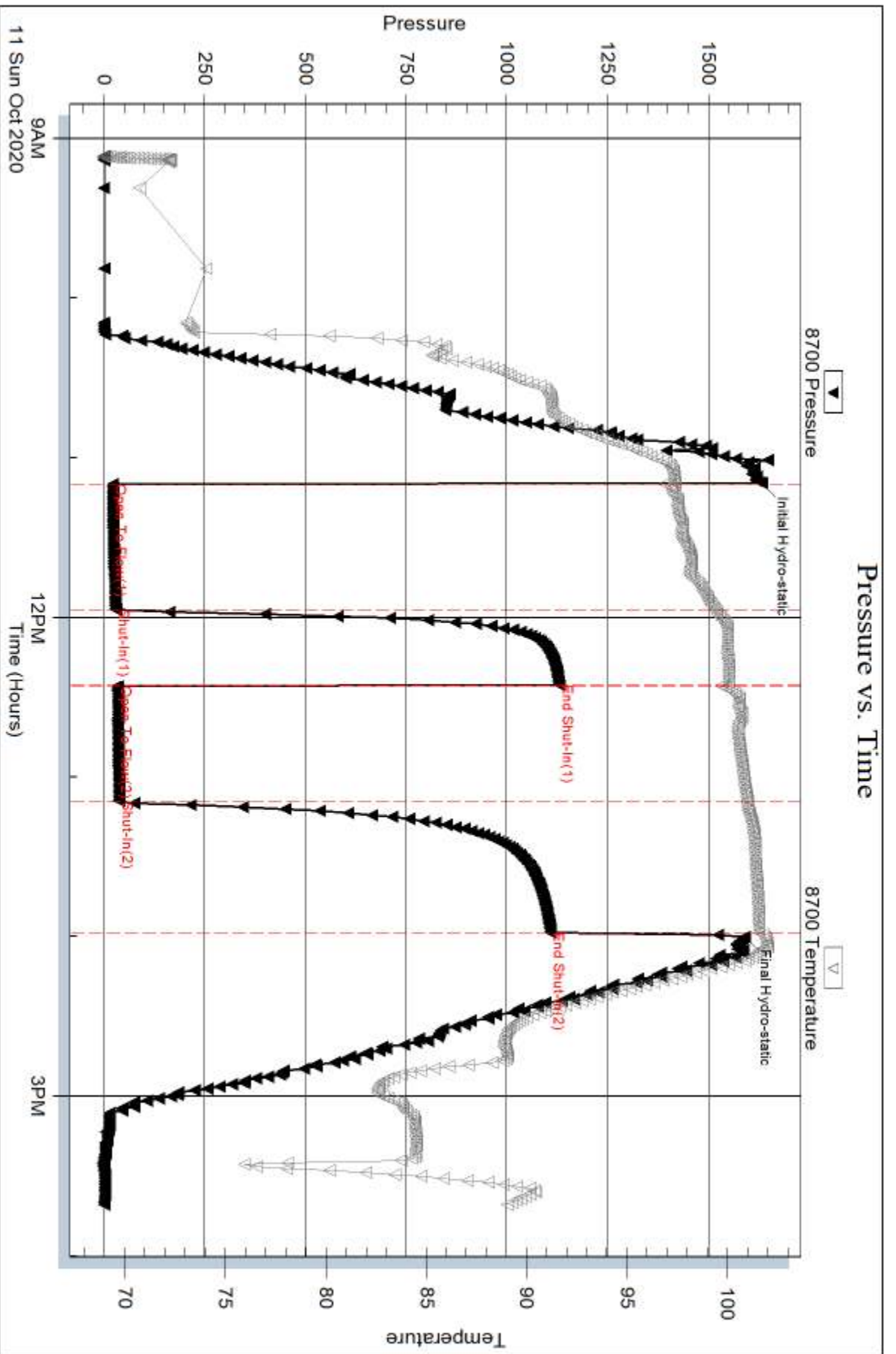
Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5800.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	OCM, 20%O 80%M	0.709

Total Length: 50.00 ft Total Volume: 0.709 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



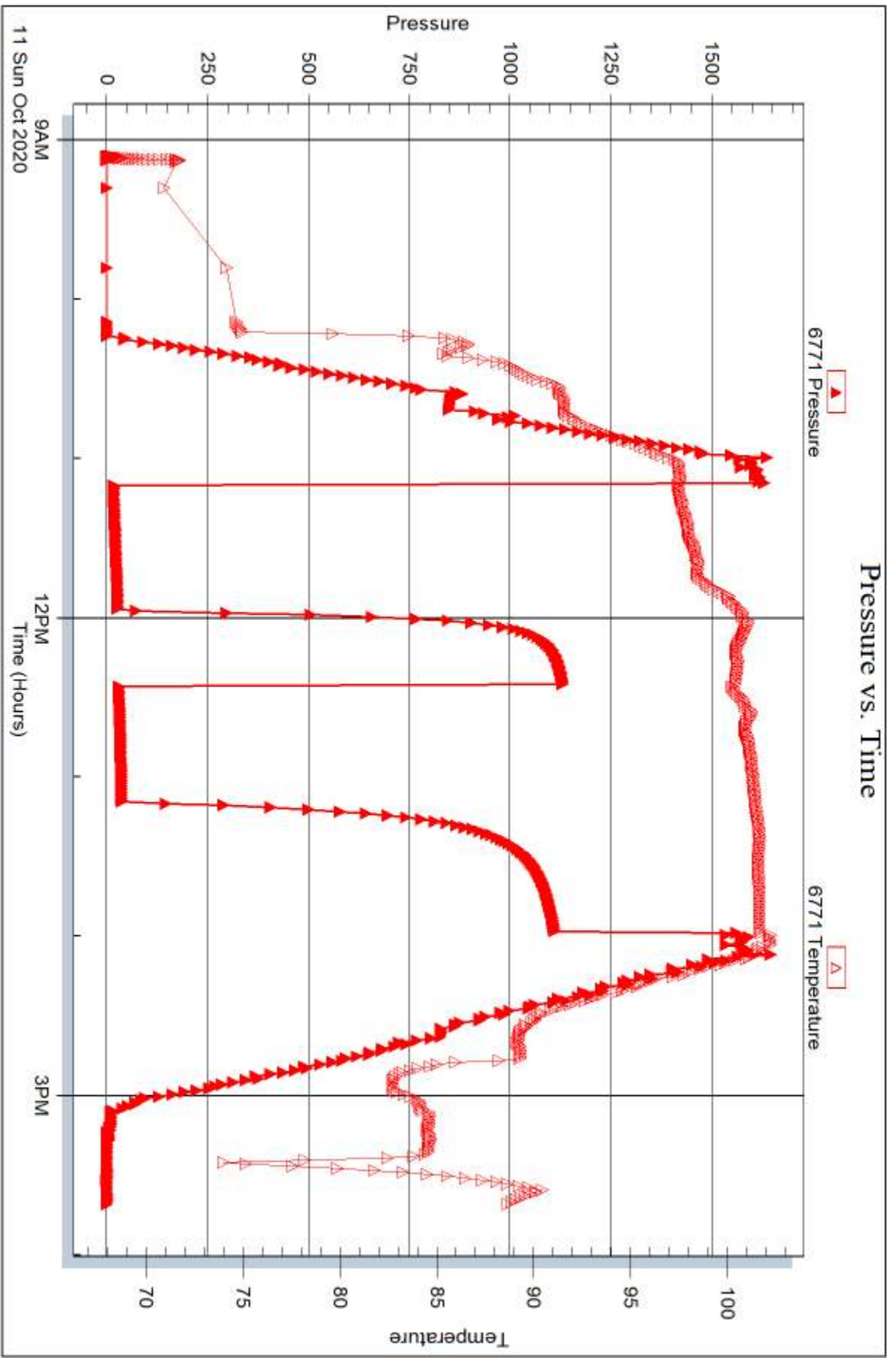
Serial #: 6771

Inside

Charter Energy, Inc.

Klug #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59537

Printed: 2020.10.13 @ 09:56:18



DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252
Great Bend, KS 67530

ATTN: Jim Musgrove

Klug #1

8-17S-12W Barton,KS

Start Date: 2020.10.11 @ 21:10:01

End Date: 2020.10.12 @ 04:00:22

Job Ticket #: 59538 DST #: 3

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

Printed: 2020.10.13 @ 09:54:03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

8-17S-12W Barton,KS

Klug #1

Job Ticket: 59538

DST#: 3

Test Start: 2020.10.11 @ 21:10:01

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:28:07
 Time Test Ended: 04:00:22
 Interval: **3362.00 ft (KB) To 3396.00 ft (KB) (TVD)**
 Total Depth: 3396.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1911.00 ft (KB)
 1902.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8700

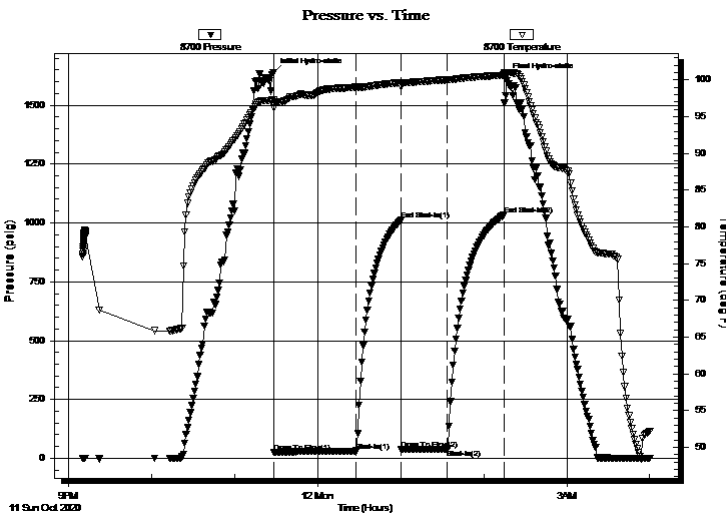
Outside

Press@RunDepth: 39.65 psig @ 3363.00 ft (KB)
 Start Date: 2020.10.11 End Date: 2020.10.12
 Start Time: 21:10:02 End Time: 04:00:22

Capacity: 8000.00 psig
 Last Calib.: 2020.10.12
 Time On Btm: 2020.10.11 @ 23:27:52
 Time Off Btm: 2020.10.12 @ 02:16:07

TEST COMMENT: 60- IF- Slowly built to 2.34"
 30- IS- No blow
 30- FF- Surface blow
 45- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.19	97.26	Initial Hydro-static
1	25.55	96.16	Open To Flow (1)
60	30.90	99.02	Shut-In(1)
93	1011.52	99.64	End Shut-In(1)
93	37.16	99.06	Open To Flow (2)
126	39.65	100.02	Shut-In(2)
167	1034.51	100.65	End Shut-In(2)
169	1615.87	100.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM, 15%O 85%M	0.57

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

8-17S-12W Barton,KS

Klug #1

Job Ticket: 59538

DST#: 3

Test Start: 2020.10.11 @ 21:10:01

Tool Information

Drill Pipe:	Length: 3352.00 ft	Diameter: 3.82 inches	Volume: 47.52 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 51000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3362.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3338.00	
Shut In Tool	5.00			3343.00	
Hydraulic tool	5.00			3348.00	
Gap Sub	5.00			3353.00	
Packer	5.00			3358.00	25.00 Bottom Of Top Packer
Packer	4.00			3362.00	
Stubb	1.00			3363.00	
Recorder	0.00	6771	Inside	3363.00	
Recorder	0.00	8700	Outside	3363.00	
Perforations	30.00			3393.00	
Bullnose	3.00			3396.00	34.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy, Inc.
PO Box 252
Great Bend, KS 67530
ATTN: Jim Musgrove

8-17S-12W Barton,KS
Klug #1
Job Ticket: 59538 **DST#: 3**
Test Start: 2020.10.11 @ 21:10:01

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5800.00 ppm		
Filter Cake: inches		

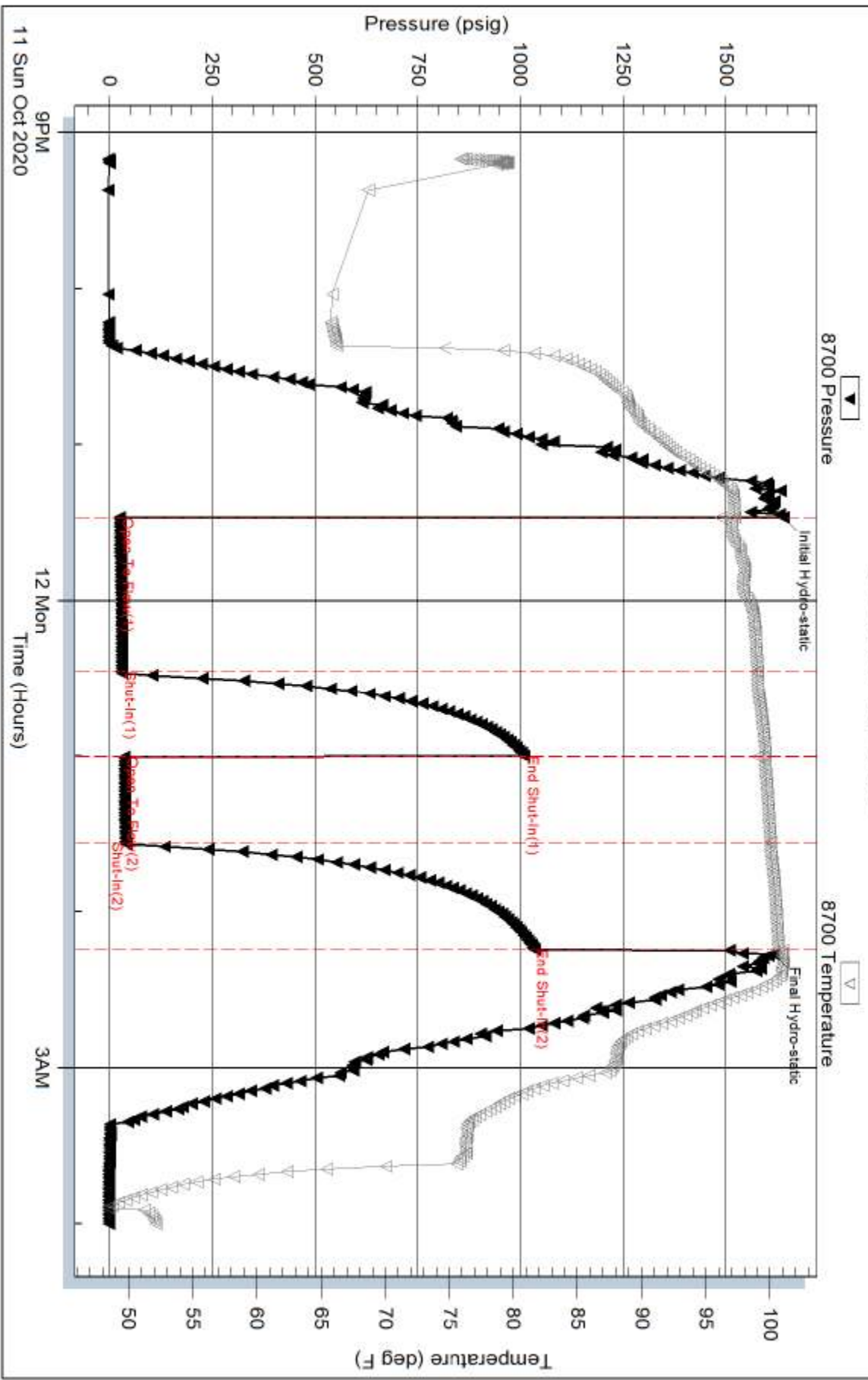
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OCM, 15%O 85%M	0.567

Total Length: 40.00 ft Total Volume: 0.567 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



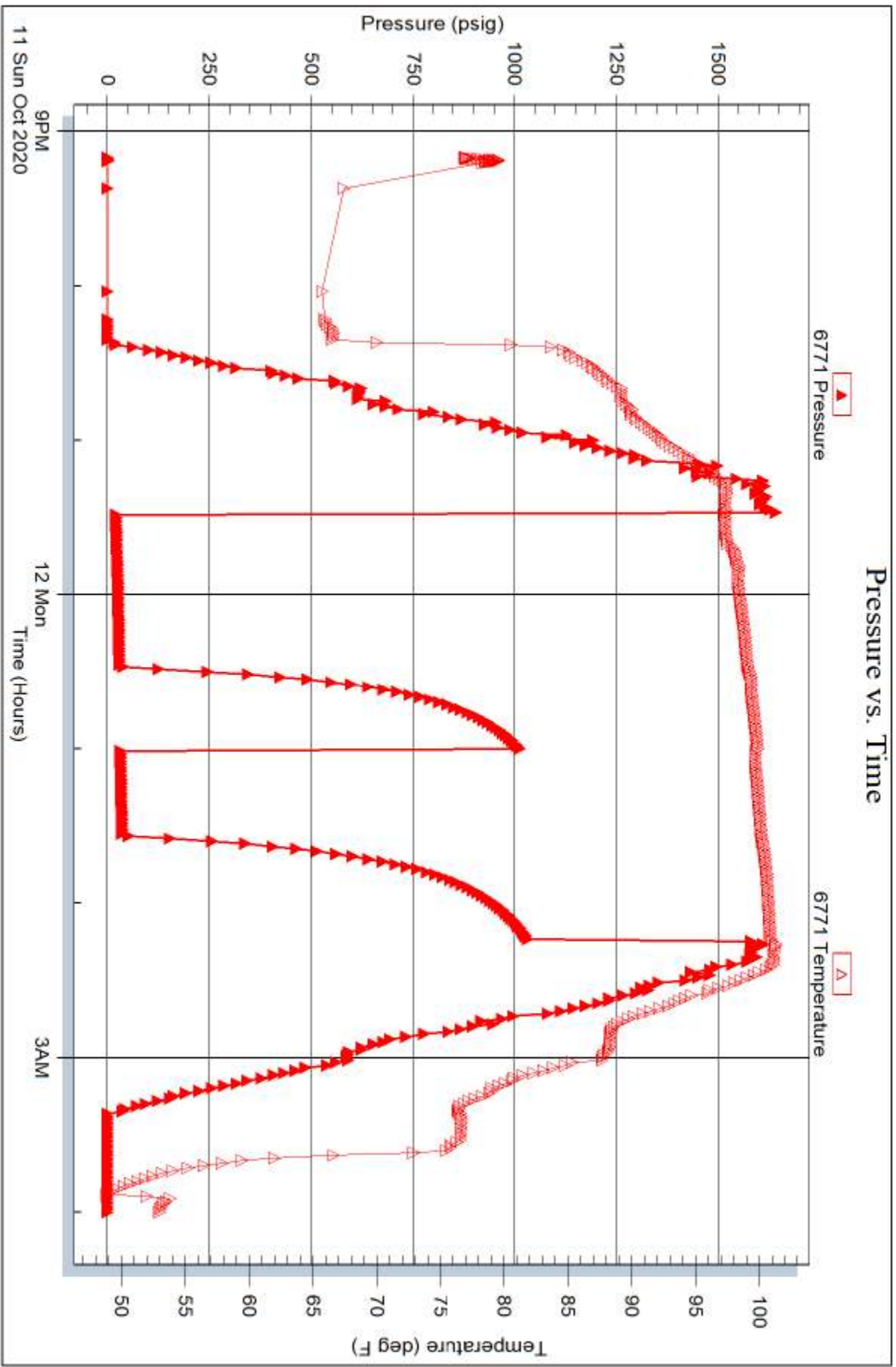
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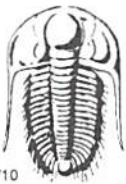
Inside

Charter Energy, Inc.

Klug #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59536

4/10

Well Name & No. Kling #1 Test No. 1 Date 10/10/20
 Company Charter Energy, Inc. Elevation 1911 KB 1902 GL
 Address PO Box 252 Great Bend, KS 67530
 Co. Rep / Geo. Jim Minsgrove Rig Southwind 3.1
 Location: Sec. 8 Twp. 17 S Rge. 12 W Co. Barton State KS

Interval Tested 3278-3370 Zone Tested LKC "I-K"
 Anchor Length 92' Drill Pipe Run 3258 Mud Wt. 9.15
 Top Packer Depth 3273 Drill Collars Run --- Vis 51
 Bottom Packer Depth 3278 Wt. Pipe Run --- WL 8.8
 Total Depth 3370 Chlorides 4,600 ppm System LCM 2#

Blow Description IF-BOB 39 mins. Built to 11.21"
FSI- No blow
PF- slowly built to 9.40"
FSI- No blow

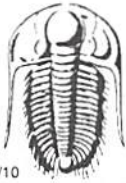
Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>WHA</u>			<u>30</u>	<u>70</u>
<u>410</u>	<u>SOCM</u>		<u>5</u>		<u>95</u>

Rec Total 473' BHT 105° Gravity _____ API RW .56 @ 65 °F Chlorides 13,600 ppm

(A) Initial Hydrostatic 1592 Test 1200 T-On Location 1704
 (B) First Initial Flow 153 Jars _____ T-Started 1730
 (C) First Final Flow 207 Safety Joint _____ T-Open 2035
 (D) Initial Shut-In 960 Circ Sub _____ T-Pulled 2350
 (E) Second Initial Flow 216 Hourly Standby _____ T-Out 10/11 6209
 (F) Second Final Flow 245 Mileage 110 RT 110 Comments _____
 (G) Final Shut-In 956 Sampler _____ EM Tool 350
 (H) Final Hydrostatic 1560 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1310
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1310

Approved By _____ Our Representative Brannan Lonsdale

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59537

4/10

Well Name & No. Klug #1 Test No. 2 Date 10/11/20
 Company Charter Energy, Inc. Elevation 1911 KB 1902 GL
 Address PO Box 252 Great Bend, KS 67530
 Co. Rep / Geo. Jim Musgrove Rig Southwind 3.1
 Location: Sec. 8 Twp. 17 S Rge. 12 W Co. Barton State KS

Interval Tested 3361-3391 Zone Tested Arbuckle
 Anchor Length 30' Drill Pipe Run 3352 Mud Wt. 9.2
 Top Packer Depth 3356 Drill Collars Run --- Vis 56
 Bottom Packer Depth 3361 Wt. Pipe Run --- WL 9.2
 Total Depth 3391 Chlorides 5800 ppm System LCM 1#

Blow Description IF - slowly built to 2.04"
ISF - No blow
FF - slowly built to 1.24"
FST - No blow

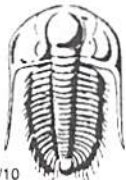
Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>OCM</u>	<u>20</u>		<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50' BHT 102° Gravity 34 API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1632 Test 1200 T-On Location 0848
 (B) First Initial Flow 22 Jars --- T-Started 0906
 (C) First Final Flow 29 Safety Joint --- T-Open 1109
 (D) Initial Shut-In 1131 Circ Sub --- T-Pulled 1354
 (E) Second Initial Flow 35 Hourly Standby --- T-Out 1540
 (F) Second Final Flow 38 Mileage 110 RT 110 Comments 1 night @ Roadway Inn in Herington, KS
 (G) Final Shut-In 1109 Sampler --- EMI Tool
 (H) Final Hydrostatic 1590 Straddle --- Ruined Shale Packer ---
 Shale Packer --- Ruined Packer ---
 Extra Packer --- Extra Copies ---
 Initial Open 45 Extra Recorder --- Sub Total 0
 Initial Shut-In 30 Day Standby --- Total 1310
 Final Flow 45 Accessibility --- MP/DST Disc't ---
 Final Shut-In 45 Sub Total 1310

Approved By _____ Our Representative Brannan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59538

4/10

Well Name & No. Klug #1 Test No. 3 Date 10/11/20
 Company Charter Energy, Inc. Elevation 1911 KB 1902 GL
 Address PO Box 252 Great Bend, KS 67530
 Co. Rep / Geo. Jim Musgrove Rig Southwind 3il
 Location: Sec. 8 Twp. 17 S Rge. 12 W Co. Barton State KS

Interval Tested 3362-3396 Zone Tested Arbuckle
 Anchor Length 34' Drill Pipe Run 3352 Mud Wt. 9.2
 Top Packer Depth 3357 Drill Collars Run --- Vis 56
 Bottom Packer Depth 3362 Wt. Pipe Run --- WL 9.2
 Total Depth 3396 Chlorides 5,800 ppm System LCM 1#

Blow Description IF - Slowly built to 2.34"
FSI - No blow
FF - Surface blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OCM</u>	<u>15</u>	<u>85</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 101° Gravity 34 API RW --- @ --- ° F Chlorides --- ppm

(A) Initial Hydrostatic <u>1639</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>2055</u>
(B) First Initial Flow <u>26</u>	<input type="checkbox"/> Jars <u>---</u>	T-Started <u>2110</u>
(C) First Final Flow <u>31</u>	<input type="checkbox"/> Safety Joint <u>---</u>	T-Open <u>2328</u>
(D) Initial Shut-In <u>1012</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>0213</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>0400</u>
(F) Second Final Flow <u>40</u>	<input checked="" type="checkbox"/> Mileage <u>110 RT</u> <u>110</u>	Comments <u>Stayed 2 nights @ Redway Inn</u>
(G) Final Shut-In <u>1035</u>	<input type="checkbox"/> Sampler <u>---</u>	<u>EM Tool</u>
(H) Final Hydrostatic <u>1616</u>	<input type="checkbox"/> Straddle <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
Initial Open <u>60</u>	<input type="checkbox"/> Shale Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby <u>---</u>	Total <u>1310</u>
	<input type="checkbox"/> Accessibility <u>---</u>	MP/DST Disc't <u>---</u>
	Sub Total <u>1310</u>	

Approved By _____ Our Representative Brannan Lonsdale

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JAMES C. MUSGROVE

Petroleum Geologist, LLC

212 Main Street

P.O. Box 215

Clafin, KS 67525

Office (620) 588-4250

Res. Clafin (620) 587-3444

Charter Energy Inc.

Klug #1

SE-NW-NE-SW (2025' FSL & 1890' FWL)

Section 8-17S-12W

Barton County, Kansas

Page 1

Dry and Abandoned

Contractor: Southwind Drilling Co. (rig #3)

Commenced: October 6, 2020

Completed: October 12, 2020

Elevation: 1912' K.B.; 1910' D.F.; 1904' G.L.

Casing program: Surface; 8 5/8" @ 400'
Production, none

Sample: Samples saved and examined 2800' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 2800' to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: There were three (3) Drill Stem Tests ran by Trilobite Testing Co.

Electric Log: By Eli; Dual Induction; Compensated Density/Neutron, Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	791	+1121
Base Anhydrite	818	+1094
Heebner	3028	-1116
Toronto	3045	-1133
Douglas	3056	-1144
Brown Lime	3120	-1208
Lansing	3134	-1222
Base Kansas City	3370	-1458
Arbuckle	3383	-1471
Rotary Total Depth	3490	-1578
Log Total Depth	3490	-1578

(All tops and zones corrected to Electric Log Measurements)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

2954-2967'

Limestone, white, gray, tan, finely crystalline; fossiliferous, scattered porosity plus gray opaque chert.

- 2969-2979' Limestone, as above, trace black spotty stain, no show of free oil and no odor in fresh samples.
- 2982-3000' Limestone, as above, fair porosity, trace black stain; no free oil and no odor plus white chalky limestone.
- 3000-3020' Limestone, tan, gray, finely crystalline; slightly cherty (dense) plus gray boney chert.

TORONTO SECTION

- 3045-3056' Limestone, white and gray, finely crystalline, cherty in part, poor visible porosity, no shows.

LANSING SECTION

- 3134-3150' Limestone; white, cream, finely crystalline, fossiliferous, plus chert; white and yellow, oolitic, opaque, no shows.
- 3150-3160' Limestone, white, cream, fine to medium crystalline, chalky, poor visible porosity, trace light brown stain, no show of free oil and no odor in fresh samples.
- 3166-3176' Limestone, white, cream, fossiliferous, chalky, poor porosity, golden brown stain, no show of free oil and no odor in fresh samples.
- 3190-3200' Limestone, white, gray; oolitic, chalky, poor porosity, no shows.
- 3205-3212' Limestone, tan, gray, highly oolitic, cherty in part; poor visible porosity.
- 3226-3230' Limestone, gray, oolitic, dense poor porosity, no shows.
- 3232-3246' Limestone, tan, finely crystalline, sub-oomoldic, slightly oolitic, fair porosity, no shows.
- 3266-3274' Limestone, white, gray, oolitic, scattered porosity, no shows.
- 3281-3290' Limestone, white, cream, fossiliferous, chalky, trace brown stain, show of free oil and faint odor in fresh samples.
- 3298-3306' Limestone, as above, trace stain, no free oil and no odor in fresh samples.
- 3328-3332' Limestone, white, gray, oolitic, scattered porosity, brown and gray stain, show of free oil and no odor in fresh samples.
- 3341-3352' Limestone, gray, fossiliferous, chalky, scattered fossil cast porosity, gray and black stain, show of free oil (heavy black) and no odor in fresh samples.
- 3358-3364' Limestone, white, finely oolitic, chalky, trace stain, trace of free oil and no odor in fresh samples.

Drill Stem Test #1

3278-3370

Times: 45-45-45-60

Blow: Fair

Recovery: 410' slightly oil cut mud
(5% oil; 95% mud)
60' watery mud
(30% water; 70% mud)

Pressures: ISIP 960 psi
FSIP 956 psi
IFP 153-207 psi
FFP 216-245 psi
HSH 1592-1560 psi

3373-3378' Limestone, tan, gray, oolitic, dense; no shows.

3378-3383' Varied colored soft shale

ARBUCKLE SECTION

3383-3391' Dolomite, white, cream, finely crystalline, scattered porosity, brown to dark brown spotty stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #2

3361-3391

Times: 45-30-45-45

Blow: Weak

Recovery: 50' oil cut mud
(20% oil; 80% mud)

Pressures: ISIP 1131 psi
FSIP 1109 psi
IFP 22-29 psi
FFP 35-38 psi
HSH 1632-1590 psi

3391-3396' Dolomite, as above, increase in porosity, few medium crystalline, poor to fair porosity, brown to spotty golden brown stain, trace of free oil and faint odor in fresh samples.

Drill Stem Test #3

3362-3396

Times: 60-30-30-45

Blow: Weak

**Recovery: 40' slightly oil cut mud
(15% oil, 85% mud)**

**Pressures: ISIP 1012 psi
FSIP 1035 psi
IFP 26-31 psi
FFP 37-40 psi
HSH 1639-1616 psi**


- 3396-3413' Dolomite, tan, gray, finely crystalline, few sucrosic, fair inter-crystalline porosity; poor spotty stain, no free oil and odor in fresh samples.
- 3413-3427' Dolomite, tan, gray, fine to medium crystalline, fair inter-crystalline porosity, plus white and gray chert.
- 3427-3440 Dolomite, as above, fair inter-crystalline porosity, plus white chalk, no shows.
- 3440-3450' Dolomite, tan, white, finely crystalline, slightly cherty, poor visible porosity, no shows.
- 3450-3475' Dolomite, white, cream, fine to medium crystalline, slightly cherty, fair inter-crystalline porosity, trace pyrite inclusions and white chalk, no shows.
- 3475-3490' Dolomite, as above, few pieces sandy, no shows.

**Rotary Total Depth 3490 (-1578)
Log Total Depth 3490 (-1578)**

Recommendations:

The Charter Energy Inc., Klug #1 was plugged and abandoned at the Rotary Depth 3490 (-1578)

Respectfully yours,


James C. Musgrove
Petroleum Geologist

