

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
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

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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GEOLOGICAL REPORT

Larry A. Nicholson

NAD 83
39.20225738
-99.759534871

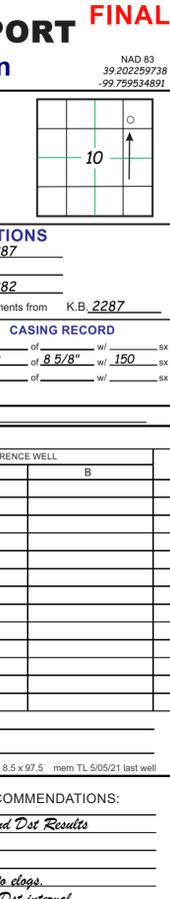
COMPANY & WELL **Cobalt Energy Greccian Trust #1-10**
LOCATION **967 FNL 1445 FEL NW SW NE NE**
SEC **10** TWP **10S** RGE **22W**
COUNTY **Graham** STATE **Ks**

COMPANY **Cobalt Energy**
API # **15-065-24262** FIELD **Dussault**
LEASE **Greccian Trust** WELL # **#1-10**
LOCATION **NW SW NE NE**
SURVEY **967 FNL 1445 FEL**
SECTION **10** TWP **10S** RGE **22W**
COUNTY **Graham** STATE **Kansas**

CONTRACTOR **Murfin Drilling** Rig # **8**
SPUD **9:15 am 06-30-23** COMP. **2287**
RTD **3:00 pm 07-23** LTD **3794**
MUD UP AT **2990**
MUD TYPE **Chemical Mud-Co Reid Atkins**

ELEVATIONS
K.B. **2287**
D.F. **2282**
G.L. **2282**
All measurements from K.B. **2287**

SAMPLES SAVED FROM 3200 TO RTD
SAMPLER USED FROM 3200 TO RTD
SAPLES EXAMINED FROM 3200 TO RTD
GEOLOGICAL SUPERVISION FROM 3200 TO RTD
WELLSITE GEOLOGIST **LARRY A. NICHOLSON**



ELECTRICAL SURVEYS Western Neu Den Dual Micro

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELECLOG TOPS	SUBSEA DATUM	REFERENCE WELL
Anhydrite			1790	+497	
Topeka			3270	-983	
Heebner			3490	-1203	
Toronto			3512	-1225	
Lansing			3526	-1239	
Lansing G			3623	-1336	
Lansing J			3696	-1409	
Stark			3710	-1423	
Lansing K			3716	-1429	
Hushpuckney			3732	-1445	
BKC			3756	-1469	
RTD			3798	-1511	
LTD			3794	-1507	

REFERENCE WELLS
A:
B:

LAN 7/92, Modified 5/05, 11/11, 4/12, 4/18 8.5 x 97.5 mem TL 5/05/21 last well

DRILLSTEM TEST SUMMARY :

Dat #1 3561-3602 (LKC C-D) 30 30 30 30 IF:16-19 FF:21-27 SI:352-170
Rec:10 Oil spid M (100M) IF surf -14', nr FF in blow, nr

Dat #2 3595-3623 (LKC F) 15 45 30 45 IF:26-146 FF:146-315 SI:491-489
Rec: Total Fluid 640' 120' GIP 120' MW spid O (50W 50M) 530' MCW (90W 10M)
IF BOB 5.5 min 29', ret 34" FF BOB 7 min 47', ret surf died 5 min

Dat #3 3652-3716 (LKC J) 30 45 45 60 IF:21-64 FF:62-103 SI:801-748
Rec: Total Fluid 235' 650' GIP 90' GO (10G 90O) 115' GMCOSG (75O 20M)
30' HOCM (35O 65M) IF BOB 14 min 26.5' ret surf-1.5' FF BOB 10 min, 49.5',
ret surf-5' Grav 42

Dat #4 3713-3735 (LKC K) 30 45 45 60 IF:Jul-43 FF:62-75 SI:882-950
Rec: Total Fluid 250' 160' GIP 200' GO (30G 70O) 50' GMCOSG (40O 40M)
IF BOB in 22', 15', ret surf-34" FF BOB 30.5 min 16.75' ret surf-2' Grav 27

REMARKS & RECOMMENDATIONS:

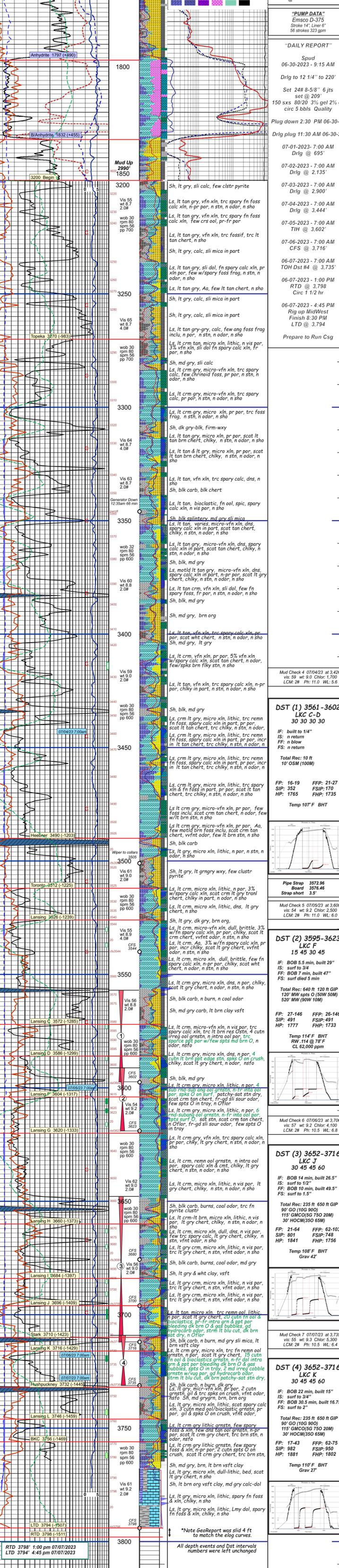
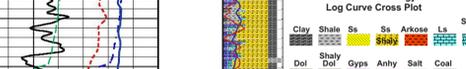
Based on Sample Shows and DST Results
4 1/2" casing was run.

Note Rig was 4 feet deep to clags.
Drill Time Sample Desc. Dist Interval
have been moved up 4 feet to match clag

Sincerely Submitted
Larry Nicholson Geologist

In Memory of Geologist Tom Levan

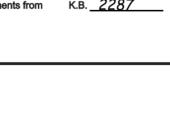
LEGEND



RTD 3798 1:00 pm 07/07/2023
LTD 3794 4:45 pm 07/07/2023

COMPANY **Cobalt Energy**
LEASE **Greccian Trust #1-10 NW SW NE NE**
LOCATION **967 FNL 1445 FEL** SEC. **10** TWP **10S** RGE **22W**
COUNTY **Graham** STATE **Ks**

ELEVATIONS
K.B. **2287**
D.F. **2282**
G.L. **2282**
All measurements from K.B. **2287**



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. 3717

Date 6-30-23	Sec. 10	Twp. 10	Range 22	County Graham	State Ks	On Location	Finish 2:30pm
				Location Ellis N to Co. line 11W 5N 1E			

Lease GRECIAN-TRUST	Well No. 1-10	Owner
Contractor MURFIN		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 SURFACE		Charge To COBALT ENERGY LLC
Hole Size 12 1/4	T.D. 210	Street
Csg. 8 1/2	Depth	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. 15	Shoe Joint	Cement Amount Ordered 15021.50/20 3-2
Meas Line	Displace 12.4	

EQUIPMENT		Common 120
Pumptrk 17 No.	Cementer Helper Bill	Poz. Mix 30
Bulktrk No.	Driver MIKE	Gel. 3
Bulktrk 20 No.	Driver Doug	Calcium 6

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
Set c		Handling 159
Cement 1504		Mileage
Pump plugged 12.4		
Cement Did Circ.		

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge Surface	
Mileage 76	
	Tax
	Discount
	Total Charge

X Signature **Ken Van**

Thanks



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

125 N Market ST STE 1725
Wichita KS 67202+1717

ATTN: Larry Nicholson

Grecian #1-10

10-10s-22w Graham KS

Start Date: 2023.07.04 @ 23:50:00

End Date: 2023.07.05 @ 06:04:32

Job Ticket #: 71521 DST #: 1

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

Printed: 2023.07.12 @ 11:57:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

10-10s-22w Graham KS

125 N Market ST STE 1725
Wichita KS 67202+1717

Grecian #1-10

Job Ticket: 71521

DST#: 1

ATTN: Larry Nicholson

Test Start: 2023.07.04 @ 23:50:00

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:20:32

Time Test Ended: 06:04:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 3561.00 ft (KB) To 3602.00 ft (KB) (TVD)

Reference Elevations: 2287.00 ft (KB)

Total Depth: 3602.00 ft (KB) (TVD)

2282.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8875

Inside

Press@RunDepth: 27.26 psig @ 3564.00 ft (KB)

Capacity: psig

Start Date: 2023.07.04

End Date:

2023.07.05

Last Calib.:

2023.07.05

Start Time: 23:50:01

End Time:

06:04:32

Time On Btm:

2023.07.05 @ 02:20:27

Time Off Btm:

2023.07.05 @ 04:27:52

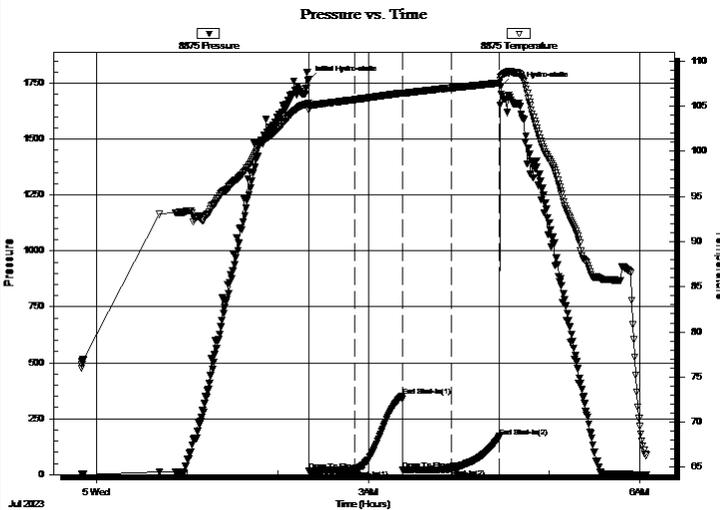
TEST COMMENT: 30-IF-Surface to 1/4"

30-ISI-No Return

30-FF-No Blow

30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.47	105.29	Initial Hydro-static
1	16.17	104.56	Open To Flow (1)
31	19.95	105.72	Shut-In(1)
63	352.00	106.43	End Shut-In(1)
63	21.81	106.42	Open To Flow (2)
95	27.26	107.01	Shut-In(2)
127	170.03	107.60	End Shut-In(2)
128	1735.66	108.17	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.05

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

10-10s-22w Graham KS

125 N Market ST STE 1725
Wichita KS 67202+1717

Grecian #1-10

Job Ticket: 71521

DST#: 1

ATTN: Larry Nicholson

Test Start: 2023.07.04 @ 23:50:00

Tool Information

Drill Pipe:	Length: 3524.00 ft	Diameter: 3.82 inches	Volume: 49.95 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	51000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	50000.00 daN
Drill Pipe Above KB:	20.00 ft			Final	50000.00 daN
Depth to Top Packer:	3561.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	68.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3535.00	
Shut In Tool	5.00			3540.00	
Hydraulic tool	5.00			3545.00	
Gap Sub	4.00			3549.00	
Safety Joint	3.00			3552.00	
Packer	5.00			3557.00	27.00 Bottom Of Top Packer
Packer	4.00			3561.00	
Stubb	1.00			3562.00	
Perforations	1.00			3563.00	
Change Over Sub	1.00			3564.00	
Recorder	0.00	6838	Inside	3564.00	
Recorder	0.00	8875	Inside	3564.00	
Drill Pipe	32.00			3596.00	
Change Over Sub	1.00			3597.00	
Perforations	1.00			3598.00	
Bullnose	4.00			3602.00	41.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

10-10s-22w Graham KS

125 N Market ST STE 1725
Wichita KS 67202+1717

Grecian #1-10

Job Ticket: 71521

DST#: 1

ATTN: Larry Nicholson

Test Start: 2023.07.04 @ 23:50:00

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: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100%M	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: 2#LCM

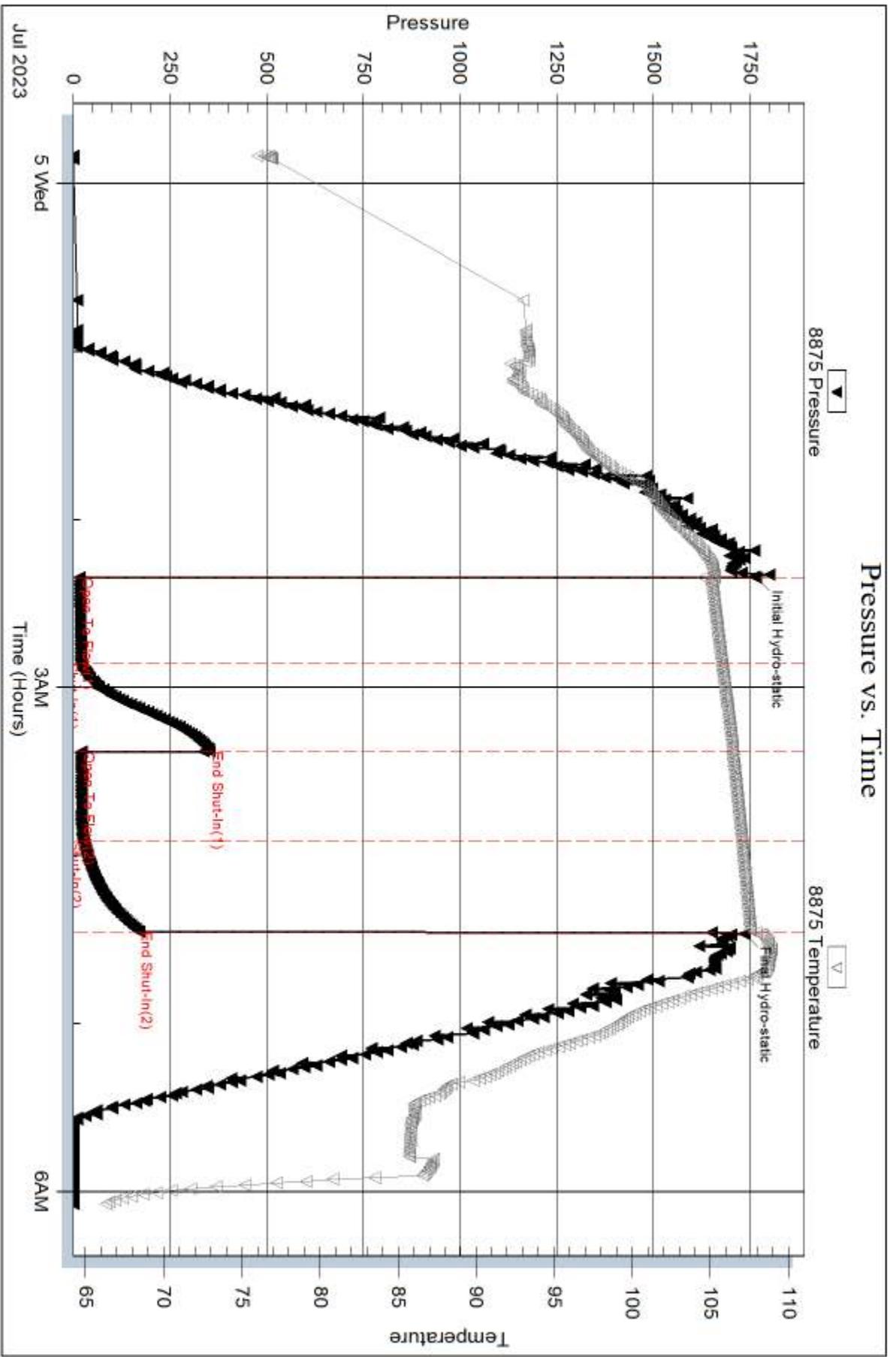
Serial #: 8875

Inside

Cobalt Energy LLC

Greilan #1-10

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 71521

Printed: 2023.07.12 @ 11:57:50

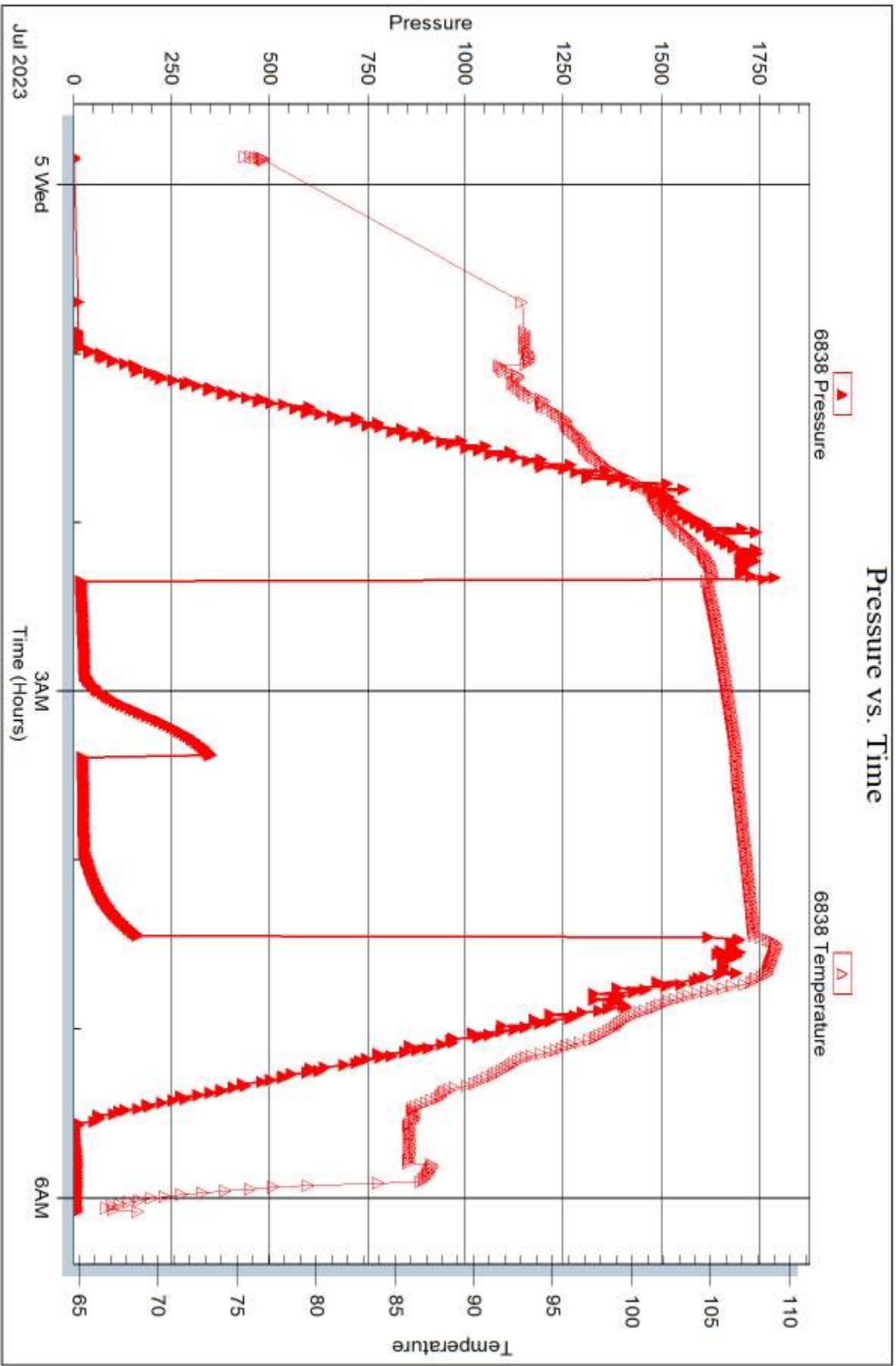
Serial #: 6838

Inside

Cobalt Energy LLC

Greilan #1-10

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 71521

Printed: 2023.07.12 @ 11:57:50



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

125 N Market ST STE 1725
Wichita KS 67202+1717

ATTN: Larry Nicholson

Grecian #1-10

10-10s-22w Graham KS

Start Date: 2023.07.05 @ 12:17:00

End Date: 2023.07.05 @ 18:06:52

Job Ticket #: 71522 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

10-10s-22w Graham KS

125 N Market ST STE 1725
Wichita KS 67202+1717

Grecian #1-10

Job Ticket: 71522

DST#: 2

ATTN: Larry Nicholson

Test Start: 2023.07.05 @ 12:17:00

Tool Information

Drill Pipe:	Length: 3558.00 ft	Diameter: 3.82 inches	Volume: 50.44 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	53000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	50000.00 daN
Drill Pipe Above KB:	20.00 ft			Final	52000.00 daN
Depth to Top Packer:	3595.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	55.00 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			3569.00	
Shut In Tool	5.00			3574.00	
Hydraulic tool	5.00			3579.00	
Gap Sub	4.00			3583.00	
Safety Joint	3.00			3586.00	
Packer	5.00			3591.00	27.00 Bottom Of Top Packer
Packer	4.00			3595.00	
Stubb	1.00			3596.00	
Recorder	0.00	6838	Inside	3596.00	
Recorder	0.00	8875	Outside	3596.00	
Perforations	24.00			3620.00	
Bullnose	3.00			3623.00	28.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

10-10s-22w Graham KS

125 N Market ST STE 1725
Wichita KS 67202+1717

Grecian #1-10

Job Ticket: 71522

DST#: 2

ATTN: Larry Nicholson

Test Start: 2023.07.05 @ 12:17:00

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:

62000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
520.00	MCW 10%M 90%W	7.093
120.00	MW w / oil spots 50%M 50%W	1.701
0.00	120 GIP 100%G	0.000
0.00	RW=.114@77F=62,000	0.000

Total Length: 640.00 ft

Total Volume: 8.794 bbl

Num Fluid Samples: 0

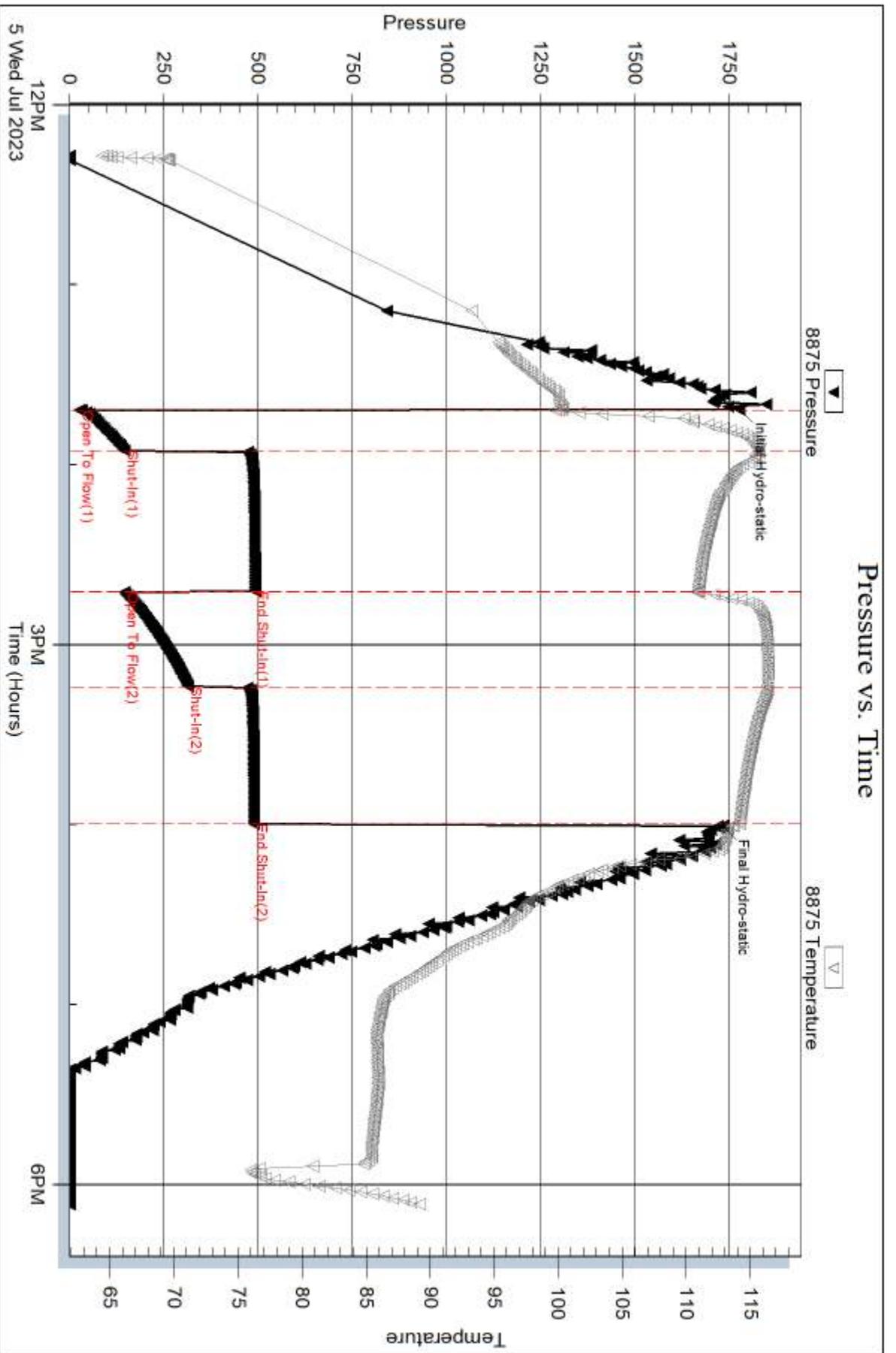
Num Gas Bombs: 0

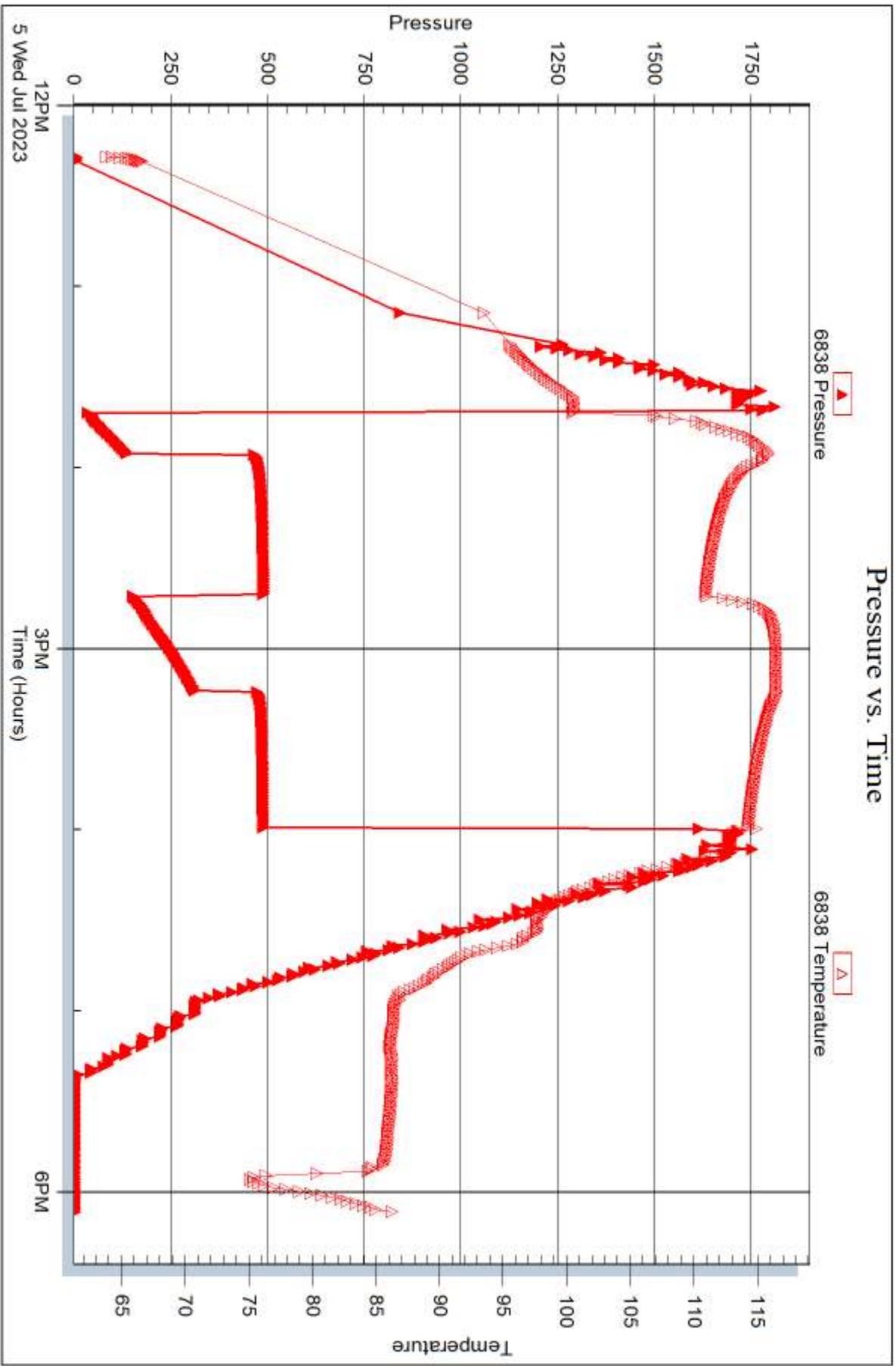
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

125 N Market ST STE 1725
Wichita KS 67202+1717

ATTN: Larry Nicholson

Grecian #1-10

10-10s-22w Graham KS

Start Date: 2023.07.06 @ 10:49:00

End Date: 2023.07.06 @ 17:44:47

Job Ticket #: 71523 DST #: 3

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

Printed: 2023.07.12 @ 11:15:37



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

10-10s-22w Graham KS

125 N Market ST STE 1725
Wichita KS 67202+1717

Grecian #1-10

Job Ticket: 71523

DST#: 3

ATTN: Larry Nicholson

Test Start: 2023.07.06 @ 10:49:00

Tool Information

Drill Pipe:	Length: 3620.00 ft	Diameter: 3.82 inches	Volume: 51.32 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	56000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	52000.00 daN
Drill Pipe Above KB:	25.00 ft			Final	54000.00 daN
Depth to Top Packer:	3652.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	91.00 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			3626.00	
Shut In Tool	5.00			3631.00	
Hydraulic tool	5.00			3636.00	
Gap Sub	4.00			3640.00	
Safety Joint	3.00			3643.00	
Packer	5.00			3648.00	27.00 Bottom Of Top Packer
Packer	4.00			3652.00	
Stubb	1.00			3653.00	
Perforations	2.00			3655.00	
Change Over Sub	1.00			3656.00	
Recorder	0.00	6838	Inside	3656.00	
Recorder	0.00	8875	Inside	3656.00	
Drill Pipe	32.00			3688.00	
Change Over Sub	1.00			3689.00	
Perforations	24.00			3713.00	
Bullnose	3.00			3716.00	64.00 Bottom Packers & Anchor
Total Tool Length:	91.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

10-10s-22w Graham KS

125 N Market ST STE 1725
Wichita KS 67202+1717

Grecian #1-10

Job Ticket: 71523

DST#: 3

ATTN: Larry Nicholson

Test Start: 2023.07.06 @ 10:49:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	HOCM 35%O 65%M	0.148
115.00	GMCO 5%G 20%M 75%O	1.630
90.00	GO 10%G 90%O	1.276
0.00	650 GIP 100%G	0.000
0.00	Gravity=42	0.000

Total Length: 235.00 ft

Total Volume: 3.054 bbl

Num Fluid Samples: 0

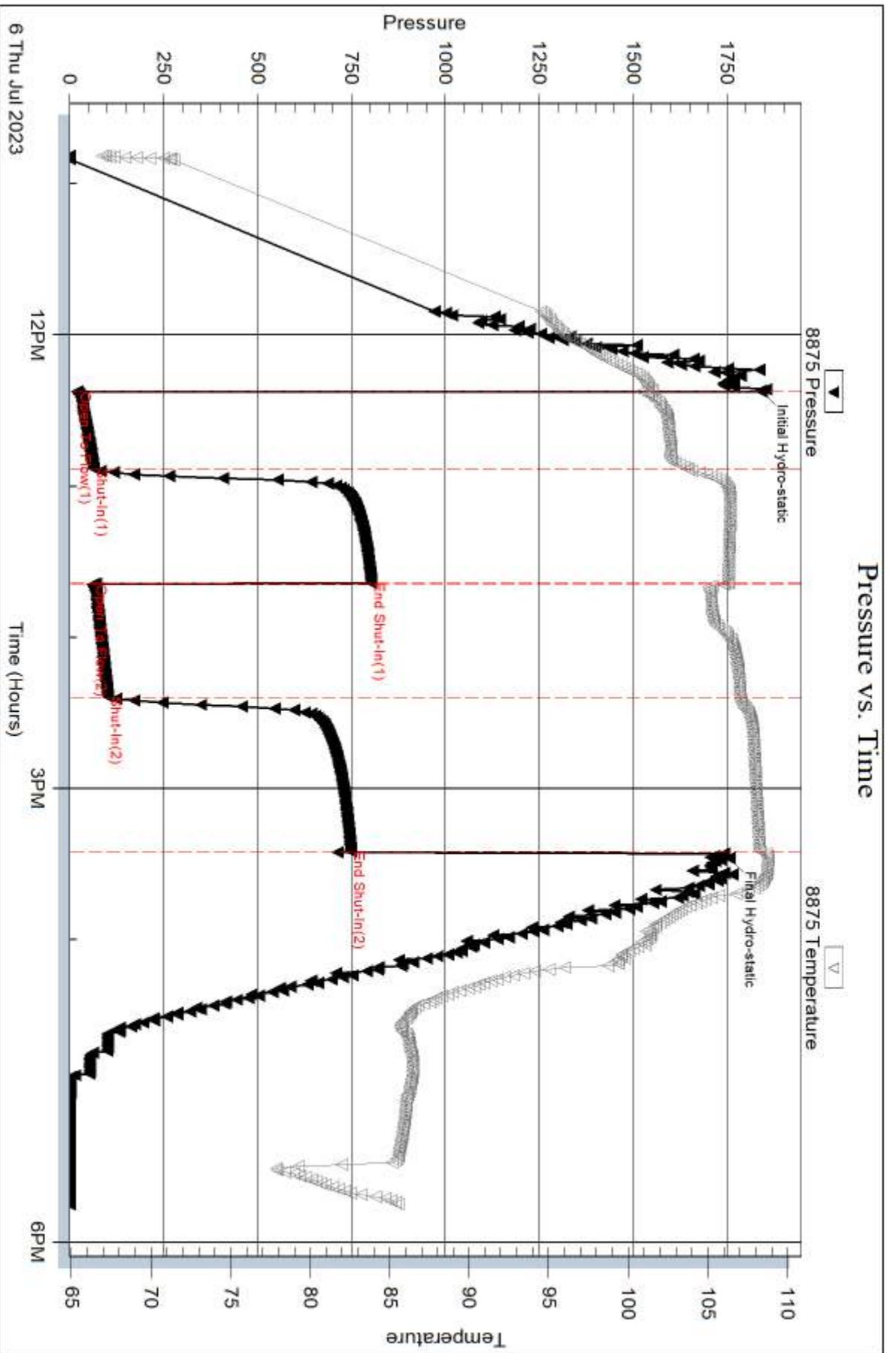
Num Gas Bombs: 0

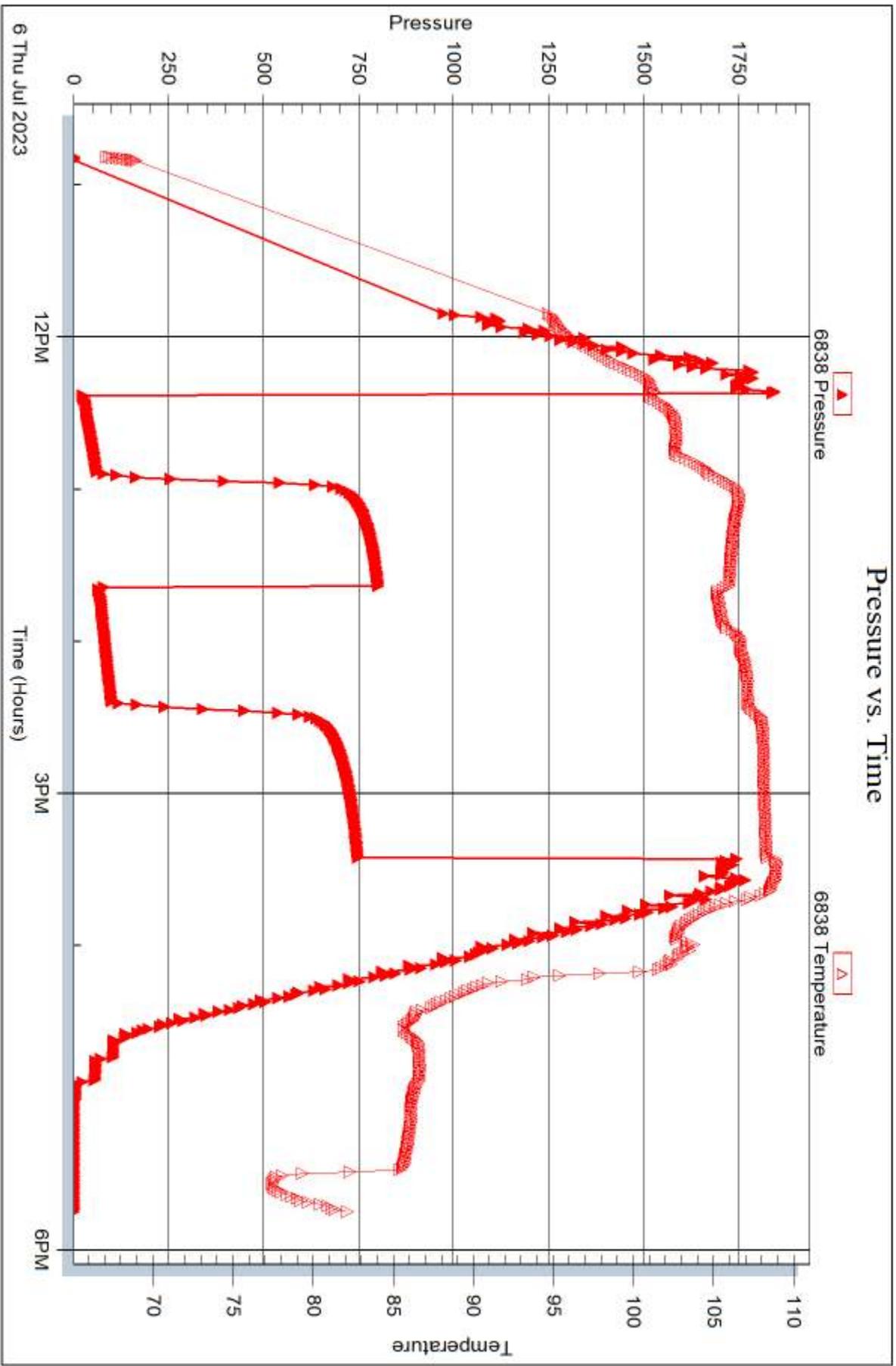
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

125 N Market ST STE 1725
Wichita KS 67202+1717

ATTN: Larry Nicholson

Grecian #1-10

10-10s-22w Graham KS

Start Date: 2023.07.07 @ 00:38:00

End Date: 2023.07.07 @ 07:42:27

Job Ticket #: 71524 DST #: 4

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

Printed: 2023.07.12 @ 10:45:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC
 125 N Market ST STE 1725
 Wichita KS 67202+1717
 ATTN: Larry Nicholson

10-10s-22w Graham KS
Grecian #1-10
 Job Ticket: 71524 **DST#: 4**
 Test Start: 2023.07.07 @ 00:38:00

GENERAL INFORMATION:

Formation: **LKC K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:31:52
 Time Test Ended: 07:42:27
 Interval: **3713.00 ft (KB) To 3735.00 ft (KB) (TVD)**
 Total Depth: 3735.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2287.00 ft (KB)
 2282.00 ft (CF)
 KB to GR/CF: 5.00 ft

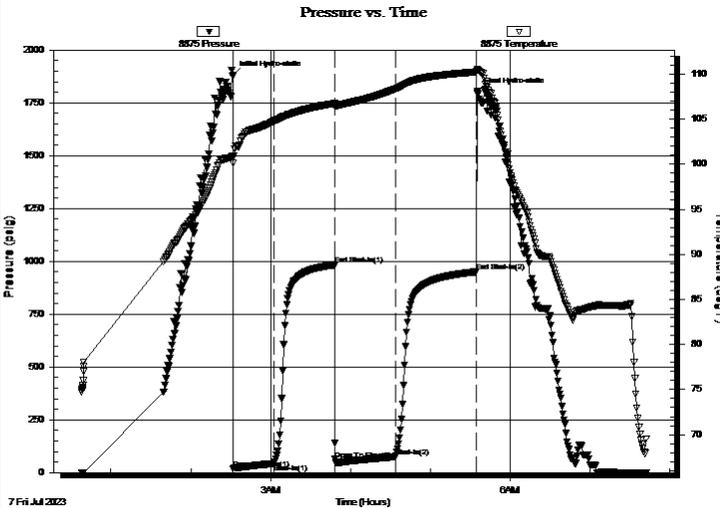
Serial #: 8875

Inside

Press@RunDepth: 75.95 psig @ 3714.00 ft (KB) Capacity: psig
 Start Date: 2023.07.07 End Date: 2023.07.07 Last Calib.: 2023.07.07
 Start Time: 00:38:01 End Time: 07:42:26 Time On Btm: 2023.07.07 @ 02:31:47
 Time Off Btm: 2023.07.07 @ 05:35:07

TEST COMMENT: 30-IF-BOB 22 mins Built to 15"
 45-ISI-Surface to 3/4"
 45-FF-BOB 30.5 mins Built to 16.75"
 60-FSI-Surface to 2 inches

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1881.22	100.87	Initial Hydro-static
1	17.74	100.09	Open To Flow (1)
31	43.56	104.79	Shut-In(1)
76	982.64	106.72	End Shut-In(1)
77	62.21	106.54	Open To Flow (2)
122	75.95	108.35	Shut-In(2)
183	950.61	110.28	End Shut-In(2)
184	1802.25	110.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GMO 20%G 40%M 40%O	0.43
200.00	GO 30%G 70%O	2.84
0.00	160 GIP 100%G	0.00
0.00	Gravity=27	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

10-10s-22w Graham KS

125 N Market ST STE 1725
Wichita KS 67202+1717

Grecian #1-10

Job Ticket: 71524

DST#: 4

ATTN: Larry Nicholson

Test Start: 2023.07.07 @ 00:38:00

Tool Information

Drill Pipe:	Length: 3683.00 ft	Diameter: 3.82 inches	Volume: 52.21 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	52000.00 daN
Depth to Top Packer:	3713.00 ft			Final	53000.00 daN
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	49.00 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			3687.00	
Shut In Tool	5.00			3692.00	
Hydraulic tool	5.00			3697.00	
Gap Sub	4.00			3701.00	
Safety Joint	3.00			3704.00	
Packer	5.00			3709.00	27.00 Bottom Of Top Packer
Packer	4.00			3713.00	
Stubb	1.00			3714.00	
Recorder	0.00	6838	Inside	3714.00	
Recorder	0.00	8875	Inside	3714.00	
Perforations	17.00			3731.00	
Bullnose	4.00			3735.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

10-10s-22w Graham KS

125 N Market ST STE 1725
Wichita KS 67202+1717

Grecian #1-10

Job Ticket: 71524

DST#: 4

ATTN: Larry Nicholson

Test Start: 2023.07.07 @ 00:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
50.00	GMO 20%G 40%M 40%O	0.431
200.00	GO 30%G 70%O	2.835
0.00	160 GIP 100%G	0.000
0.00	Gravity=27	0.000

Total Length: 250.00 ft

Total Volume: 3.266 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

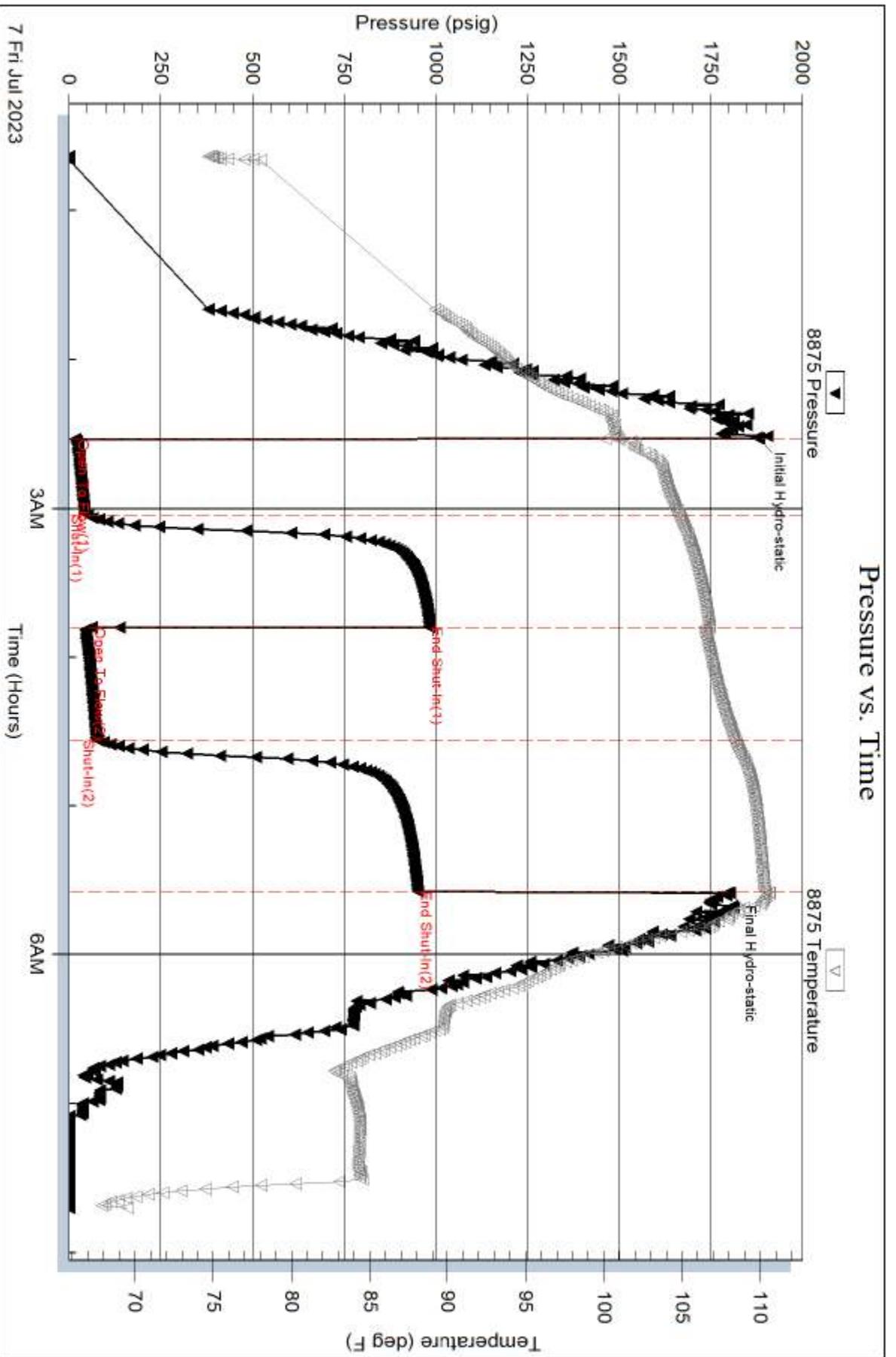
Serial #:

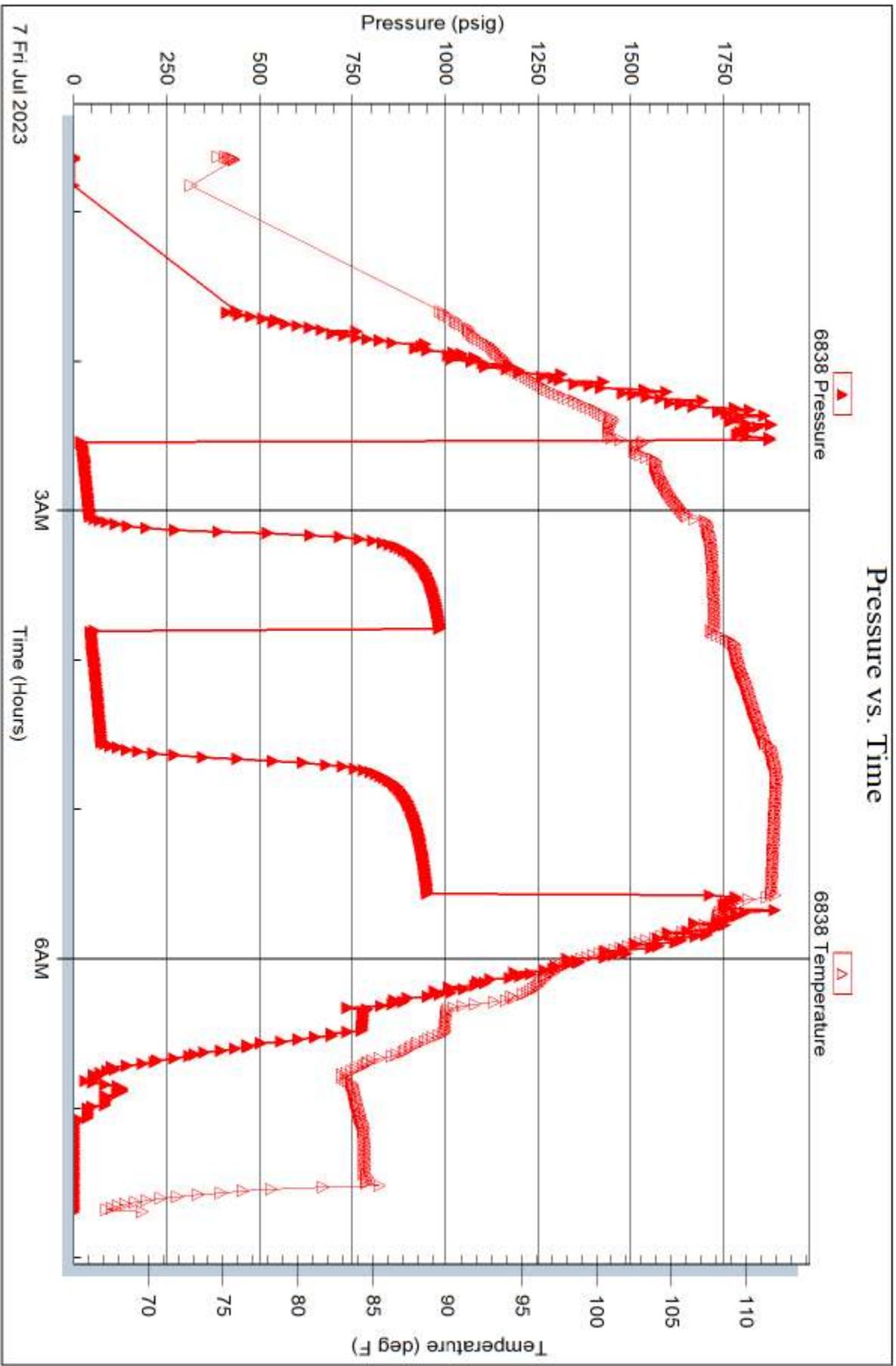
Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71521**

Well Name & No. Arcadian Trust #1-10 Test No. 1 Date 07/04/2023
 Company Cobalt Energy LLC Elevation 2287 KB 2282 GL
 Address 125 N Market ST STE 1725 Wichita KS 67202+1777
 Co. Rep / Geo Larry Nicholson Rig Muffin #16
 Location: Sec. 10 Twp 10S Rge. 22W Co. Graham State KS

Interval Tested 3561' - 3602' Zone Tested LKC C-D
 Anchor Length 41' Drill Pipe Run 3524' Mud Wt. 9.0
 Top Packer Depth 3556' Drill Collars Run 30' Vis 59
 Bottom Packer Depth 3561' Wt. Pipe Run - WL 5.6
 Total Depth 3602' Chlorides 1700 ppm System LCM 2#

Blow Description 07--Surface to 1/4"
151- No Return
77- No Blow
781- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>Oil Spot Mud</u>			<u>100</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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 107° Gravity - API RW - @ - °F Chlorides - ppm
 Initial Hydrostatic 1765 Test 1800 Ruined Shale Packer
 Initial Flow 16 to 19 Jars Ruined Packer
 Initial Shut-In 352 Circ Sub Hotel
 Final Flow 21 to 27 Hourly Standby EM Tool Successful
 Final Shut-In 170 Mileage 12027 60 105 Accessibility
 Final Hydrostatic 1735 Sampler 18mi 31.50 Gas Sample
 T- On Location 22:19 Straddle Oversized Hole
 Initial Flow 30 T-Started 23:50 Shale Packer Sub Total 0
 Initial Shut-In 30 T-Open 02:21 07/05 Extra Packer Total 1936.50
 Final Flow 30 T-Pulled 04:21 Extra Recorder Tool Loaded @
 Final Shut-In 30 T-Out 06:05 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative [Signature] *Thanks!*



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71522**

Well Name & No. Orecian Trust #1-10 Test No. 2 Date 07/05/2023
 Company Colalt Energy LLC Elevation 2287 KB 2282 GL
 Address 125 N Market ST STE 1725 Wichita KS 67202+1717
 Co. Rep / Geo Larry Nicholson Rig Muffin #16
 Location: Sec. 10 Twp 10S Rge. 22W Co. Graham State KS

Interval Tested 3595'-3623' Zone Tested LKC E-7
 Anchor Length 28' Drill Pipe Run 3558' Mud Wt. 9.2
 Top Packer Depth 3590' Drill Collars Run 30' Vis 54
 Bottom Packer Depth 3595' Wt. Pipe Run - WL 6.0
 Total Depth 3623' Chlorides 2500 ppm System LCM 2#

Blow Description 77- BOB 5.5 mins; Built to 29"
ISD Surface to 34"
79- BOB 7 mins; Built to 47"
75L- Very Weak Surface; Died @ 5 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>520'</u>	<u>MOW</u>		<u>90</u>	<u>10</u>	
<u>120</u>	<u>MW w/oil spots</u>		<u>50</u>	<u>50</u>	
	<u>120' GTP</u>	<u>100</u>			

Rec Total 640' BHT 114° Gravity - API RW .114 @ 77 °F Chlorides 62,000 ppm

Initial Hydrostatic 1777 Test 1800 Ruined Shale Packer
 Initial Flow 26 to 146 Jars Ruined Packer
 Initial Shut-In 491 Circ Sub Hotel
 Final Flow 146 to 315 Hourly Standby EM Tool Successful
 Final Shut-In 489 Mileage 3627⁶³ Accessibility
 Final Hydrostatic 1733 Sampler Gas Sample
 T- On Location 11:50 Straddle Oversized Hole
 Initial Flow 15 T-Started 12:17 Shale Packer Sub Total 0
 Initial Shut-In 45 T-Open 13:41 Extra Packer Total 1836
 Final Flow 30 T-Pulled 15:56 Extra Recorder Tool Loaded @
 Final Shut-In 456 T-Out 18:06 Day Standby MP/DST Disc't

Comments mileage from KC House

Approved By _____ Our Representative [Signature] Thanks!

Trilobite Testing Inc. shall not be liable for damage of any kind of 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. **71523**

Well Name & No. Jrecian Trust #1-10 Test No. 3 Date 07/06/2023
 Company Colcott Energy LLC Elevation 2287 KB 2282 GL
 Address 125 N Market St STE 1725 Wichita KS 67202+1717
 Co. Rep / Geo Larry Nicholson Rig Murfin #16
 Location: Sec. 10 Twp 10A Rge. 22W Co. Graham State KS

Interval Tested 3652' - 3716' Zone Tested LHC A-J
 Anchor Length 64' Drill Pipe Run 3620' Mud Wt. 9.2
 Top Packer Depth 3647' Drill Collars Run 30' Vis 57
 Bottom Packer Depth 3652' Wt. Pipe Run - WL 6.8
 Total Depth 3716' Chlorides 4100 ppm System LCM 2H

Blow Description 77-30B - 14 mins; Built to 26 1/2"
180 - Surface to 1/2"
77-30B 10 mins; Built to 49 1/2"
750 - Surface to 1.5"

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>HOCM</u>	<u>35</u>	<u>65</u>		
<u>115'</u>	<u>GMCO</u>	<u>5</u>	<u>75</u>	<u>20</u>	
<u>90'</u>	<u>GO</u>	<u>10</u>	<u>90</u>		
	<u>650' GIP</u>	<u>100</u>			

Rec Total 235' BHT 108° Gravity 42° API RW - @ - *F Chlorides - ppm

Initial Hydrostatic 1841 Test 1800 Ruined Shale Packer
 Initial Flow 81 to 64 Jars Ruined Packer
 Initial Shut-In 801 Circ Sub Hotel
 Final Flow 62 to 103 Hourly Standby EM Tool Successful
 Final Shut-In 748 Mileage 3627 ⁶³ Accessibility
 Final Hydrostatic 1756 Sampler Gas Sample

T- On Location 10:20 Straddle Oversized Hole
 Initial Flow 30 T-Started 10:49 Shale Packer Sub Total 0
 Initial Shut-In 45 T-Open 12:22 Extra Packer Total 1863
 Final Flow 45 T-Pulled 15:22 Extra Recorder Tool Loaded @
 Final Shut-In 60 T-Out 17:44 Day Standby MP/DST Disc't

Comments mileage from HC House

Approved By _____ Our Representative [Signature] Thanks!

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785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71524**

Well Name & No. Dreccion Trust #1-10 Test No. 4 Date 07/07/2023
 Company Cobalt Energy LLC Elevation 2287 KB 2282 GL
 Address 125 N Market ST STE 1725 Wichita, KS 67202+1717
 Co. Rep / Geo Larry Nicholson Rig Murphy #16
 Location: Sec. 10 Twp 10s Rge. 22w Co. Graham State KS

Interval Tested 3713'-3735' Zone Tested LHC K
 Anchor Length 22' Drill Pipe Run 3683' Mud Wt. 9.2
 Top Packer Depth 3708' Drill Collars Run 30 Vis 57
 Bottom Packer Depth ~~3708~~ 3713' Wt. Pipe Run - WL 6.8
 Total Depth 3735' Chlorides 4100 ppm System LCM 2#

Blow Description 77- BOB in 22 mins; Built to 15"
ASD-Surface to 3/4"
79- BOB in 30.5 mins; Built to 16.75"
7SD-Surface to 2"

Rec	Feet of	%gas	%oil	%water	%mud
50'	GMD	20	40	40	
200'	GD	30	70		
	160' GIP	100			

Rec Total 250' BHT 110° Gravity 27° API RW - @ - °F Chlorides - ppm
 Initial Hydrostatic 1881 Test 1800 Ruined Shale Packer
 Initial Flow 17 to 43 Jars Ruined Packer
 Initial Shut-In 982 Circ Sub Hotel
 Final Flow 62 to 75 Hourly Standby EM Tool Successful
 Final Shut-In 950 Mileage 3627 63+31.50+105 Accessibility
 Final Hydrostatic 1802 Sampler Gas Sample
 T-On Location 00:02 Straddle Oversized Hole
 Initial Flow 30 T-Started 00:38 Shale Packer Sub Total 0
 Initial Shut-In 45 T-Open 02:32 Extra Packer Total 1999.50
 Final Flow 45 T-Pulled 05:32 Extra Recorder Tool Loaded 07:07 @ 08:30
 Final Shut-In 60 T-Out Day Standby MP/DST Disc't

Comments mileage from HC House

Approved By _____ Our Representative [Signature]

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CEMENT TREATMENT REPORT

Customer: Cobalt Energy LLC	Well: Grecian Trust # 1-10	Ticket: WP4488
City, State:	County: Graham,KS	Date: 7/8/2023
Field Rep: Dalton Popp	S-T-R: 10-10S-22W	Service: Longstring

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-LD	Blend:	H-Con
Hole Depth:	3798 ft	Weight:	14.8 ppg	Weight:	12 ppg
Casing Size:	4 1/2 in	Water / Sx:	6.5 gal / sx	Water / Sx:	15.5 gal / sx
Casing Depth:	3791.6 ft	Yield:	1.51 ft ³ / sx	Yield:	2.56 ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:	D.V. Tool	Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	1845.49 ft	Excess:		Excess:	
Displacement:	59.6 bbls	Total Slurry:	33.6 bbls	Total Slurry:	196.0 bbls
		Total Sacks:	125 sx	Total Sacks:	430 sx

TIME	RATE	PSI	BBLs	STAGE TOTAL BBLs	REMARKS
600am			-	-	Arrive On Location
615am				-	Start Running Casing, Turbos on Joints 1-9 and 50 Basket on 49 D.V. Tool Between 49 and 50
820am				-	Rig Up to Circulate
830am				-	Begin Circulating Mud For 1 Hour
920am				-	Rig Cement Pump Up
930am				-	Rig Pump to Cement head to Begin Cementing
935am	2.5	310.0	10.0	10.0	H2O ahead With 2% KCL
936am	6.0	320.0	24.0	34.0	Mud Flush
940am	3.5	340.0	10.0	44.0	Water Spacer With 2%KCL
946am	5.0	210.0	33.6	77.6	Cement Slurry H-LD @ 14.8ppg
957am				77.6	Clear Pump and Lines and Drop Bottom Stage Plug
1002am	6.0	450.0	59.6		Displace with 30bbls 2%KCL and 29.6bbls Mud
1014am		450.0			Plug Land Bump Pressure to 1200psi
1019am					Drop Opening Tool
1038am	5.0	900.0	10.0		Open D.V. Tool
1045am	5.0	600.0	5.0		H2O ahead With 2% KCL
1048am	3.0	150.0	5.0		Mouse Hole H-Con 20sks @ 12ppg
1051am	3.0	150.0	7.5		Rat Hole H-Con 30sks @ 12ppg
1054am	7.0	600.0	183.5		Cement Slurry H-Con 380sks @ 12ppg
1120am					Drop Closing Tool and Clear Pump and Lines
1125am	7.8	800.0	29.3		Displacement With 2% KCL Water
1130am		900.0			Plug Land Bump Pressure to 1900psi
					Circulated 8bbls Cement to Surface
1140am					Wash Up
1150am					Rig Down
1200pm					Leave Location

CREW		UNIT	SUMMARY		
Cementer:	Spencer	945	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael	537/520	4.9 bpm	475 psi	378 bbls
Bulk #1:	Christian	194/235			
Bulk #2:	Lupe	205			