

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

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>

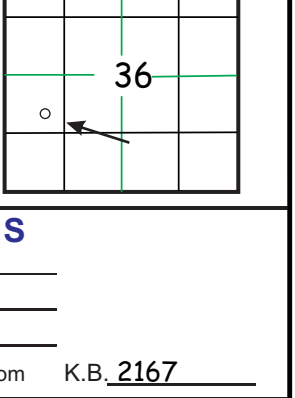
TUBING RECORD:	Size:	Set At:	Packer At:	
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GEOLOGICAL REPORT

Larry A. Nicholson

NAD 83
39.31226961
-99.73199268

COMPANY **Cobalt Energy, LLC**
 API # **15-065-2413** FIELD **Wildcat**
 LEASE **MPH #1-36 NW SE NW SW** WELL # **#1-36**
 LOCATION **1886' FSL 872' FWL** SURVEY **1886' FSL 872' FWL**
 COUNTY **Graham** STATE **Kansas** RGE **22W**



CONTRACTOR **Murfin** Rig # **16**
 SPUD **02-26-22 12:15 pm** COMP
 RTD **3800 03-06-22 3:10 pm** LTD **3799**
 MUD UP AT **2900**
 MUD TYPE **MudCo Gary Schmidtberger**

ELEVATIONS
 K.B. **2167**
 D.F.
 G.L. **2162**
 All measurements from K.B. 2167

SAMPLES SAVED FROM **2100** TO **RTD**
 DRILLING TIME FROM **2100** TO **RTD**
 SAMPLES EXAMINED FROM **2100** TO **RTD**
 GEOLOGICAL SUPERVISION FROM **2100** TO **RTD**
 WELLSITE GEOLOGIST **LARRY A. NICHOLSON**

CASING RECORD
 Conductor of w/ **160** sx
 Surface **219** of **8.5/8 23#** 160 sx
 Production of **160** sx

ELECTRICAL SURVEYS **Neu, Den, Dual, Micro, MidWest**

FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG TOPS	SUBSEA DATUM	REFERENCE WELL	
					A	B
Anhydrite			1676	+491		
B/Anhydrite			1710	+457		
Topeka			3134	-967		
Heebner Sh			3348	-1181		
Toronto			3374	-1207		
Muncie Creek			3390	-1223		
Lansing Creek			3504	-1337		
Stark Sh			3564	-1397		
BKC			3592	-1425		
Marm			3627	-1460		
Arb			3726	-1559		
RTD			3800	-1633		
LTD			3799	-1632		

REFERENCE WELLS
 A:
 B:

LAN 7/92, Modified 5/05, 11/11, 4/12, 4/18 1inch = 25.4mm 8.5 x 87.5

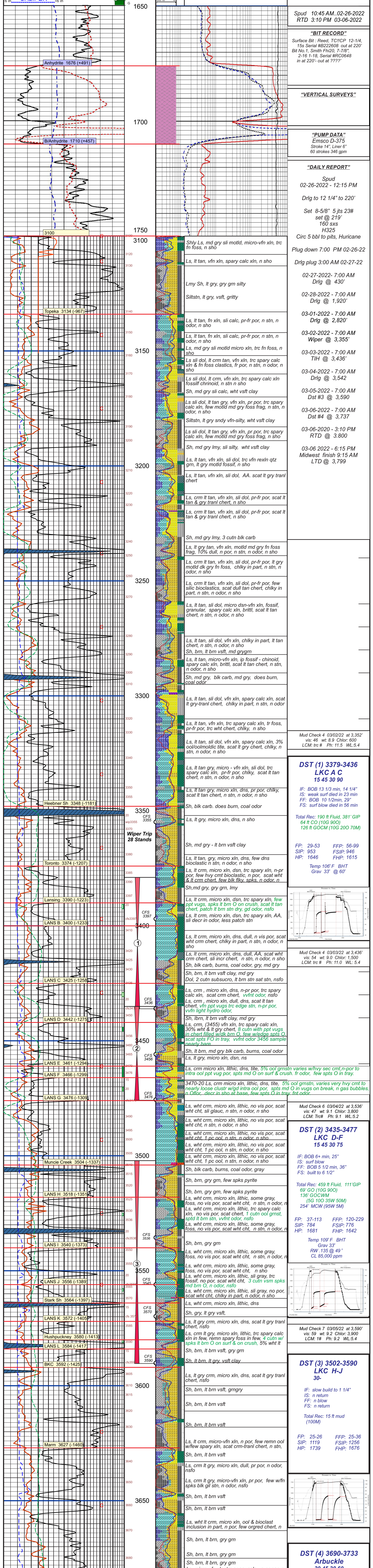
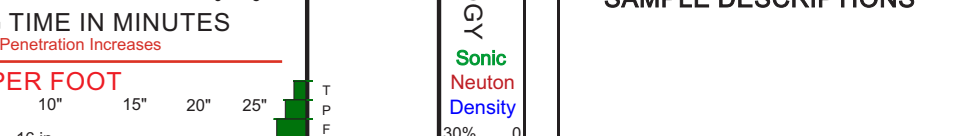
DRILLSTEM TEST SUMMARY :

Det #1 3379-3436 (LKC A-C) 15.45 30.90 IF:28-63 FF:66-99 SI:563-848
 Total Rec: 190' fluid 381' GIP 84 GO (10G 900) 126' GOCUM (10G 200 70M)
 IF BOB 13 1/2" built 14 1/4" r wk surf FF BOB 10" built 29", r surf bl died in 56 min
 Det #2 3337-3432 (LKC D-F) 30.45 30.45 IF:25-36 FF:120-229 SI:784-776
 Total Rec: 459' fluid 111' GIP 69' GO (10G 900) 136' GOCUM (5G 100 35W 50M)
 254' MCW (95W 5M) IF BOB 7" - 25" r surf FF BOB 8" - 25", r 6 1/2"
 Grav 33 API, RW 135 @ 49, CL 85,000
 Det #3 3502-3590 (LKC H-K) 30.45 30.45 IF:25-36 FF:39-42 SI:1119-1072
 Total Rec: 15' M, 100M IF built to 1 1/4", nr FF n blow, nr
 Det #4 3690-3733 (Arbuckle) 30.45 30.60 IF:30-33 FF:40-35 SI:291-222
 Total Rec: 45' fluid 1' (1000), 44' (100m) IF built 3", nr
 FF built to 34", nr

REMARKS & RECOMMENDATIONS:

Csg was set based on the positive DST
and shows in the LKC

LEGEND



SAMPLE DESCRIPTIONS

REMARKS

Spud 10:45 AM, 02-26-2022
 RTD 3:10 PM 03-06-2022

"BIT RECORD"
 Surface Bit - Reed, TCI/CP 12-14,
 15s Serial #B222608 out at 220'
 Bit No. 1, Smith Fh20, 7-7/8",
 2-16 1-13, Serial #R000648
 in at 220' out at ????

"VERTICAL SURVEYS"

"PUMP DATA"
 EmSCO D-375
 Stroke 14", Liner 6"
 60 strokes 348 gpm

"DAILY REPORT"
 Spud 02-26-2022 12:15 PM
 Drftg to 12 1/4" to 220'
 Set 8-5/8" 5 fts 23#
 set @ 219'
 160 sxs
 F325
 Circ 5 bbl to pits, Hurricane
 Plug down 7:00 PM 02-26-22
 Drftg plug 3:00 AM 02-27-22
 02-27-2022 7:00 AM
 Drftg @ 430'
 02-28-2022 7:00 AM
 Drftg @ 1,920'
 03-01-2022 7:00 AM
 Drftg @ 2,820'
 03-02-2022 7:00 AM
 Wiper @ 3,355'
 03-03-2022 7:00 AM
 TIH @ 3,436'
 03-04-2022 7:00 AM
 Drftg @ 3,542'
 03-05-2022 7:00 AM
 Dst #3 @ 3,590'
 03-06-2022 7:00 AM
 Dst #4 @ 3,737'
 03-06-2020 3:10 PM
 RTD @ 3,800'
 03-06-2022 6:15 PM
 Midwest finish 9:15 AM
 LTD @ 3,799'

Mud Check 4 03/02/22 at 3,352'
 vis: 46 wt: 8.9 Chlor: 6.00
 LCM: tr: # Ph: 11.5 WL: 5.4

DST (1) 3379-3436 LKC A C
 15 45 30 90
 IF: BOB 13 1/2 min, 14 1/4"
 IS: weak surf died in 23 min
 FF: BOB 10 1/2 min, 29"
 FS: surf/flow died in 56 min
 Total Rec: 190' fluid, 381' GIP
 64 ft CO (10G 900)
 126 ft GOCUM (10G 200 70M)
 FP: 29-53 FFP: 56-99
 SIP: 953 FSIP: 946
 HP: 1646 FHP: 1615
 Temp 106° F BHT
 Grav 33 @ 60'

Mud Check 4 03/03/22 at 3,436'
 vis: 54 wt: 9.0 Chlor: 3.900
 LCM: tr: # Ph: 11.0 WL: 5.4

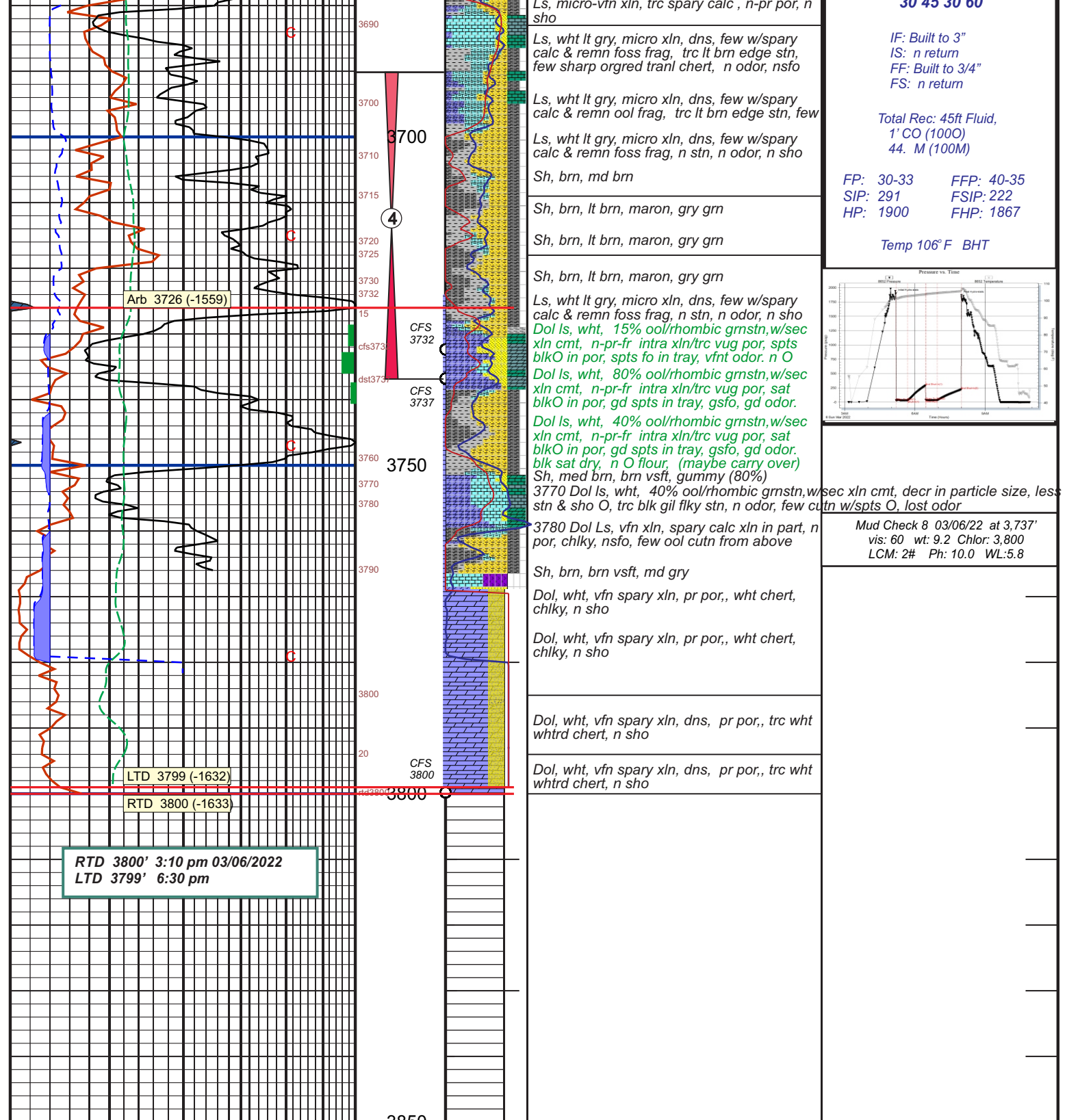
DST (2) 3435-3477 LKC D-F
 15 45 30 75
 IF: BOB 6 min, 25"
 IS: surf blow
 FF: BOB 5 1/2 min, 36"
 FS: built to 6 1/2"
 Total Rec: 459' fluid, 111' GIP
 69' CO (10G 900)
 136' GOCUM (5G 100 35W 50M)
 254' MCW (95W 5M)
 FP: 37-113 FFP: 120-229
 SIP: 291 FSIP: 1256
 HP: 1784 FHP: 1642
 Temp 109° F BHT
 Grav 33'
 RW 135 @ 49"
 CL 85,000 ppm

Mud Check 7 03/05/22 at 3,590'
 vis: 59 wt: 9.2 Chlor: 3.900
 LCM: 1# Ph: 9.2 WL: 5.4

DST (3) 3502-3590 LKC H-K
 30-
 IF: slow build to 1 1/4"
 IS: n return
 FF: n blow
 FS: n return
 Total Rec: 15 ft mud
 (100M)
 FP: 25-26 FFP: 25-36
 SIP: 1119 FSIP: 1256
 HP: 1739 FHP: 1676

Mud Check 8 03/06/22 at 3,737'
 vis: 60 wt: 9.2 Chlor: 3.800
 LCM: 2# Ph: 10.0 WL: 5.8

DST (4) 3690-3733 Arbuckle
 30 45 30 60
 IF: Built to 3"
 IS: n return
 FF: Built to 34"
 FS: n return
 Total Rec: 45R fluid,
 1' CO (1000)
 44, M (100M)
 FP: 30-33 FFP: 40-35
 SIP: 291 FSIP: 222
 HP: 1900 FHP: 1867
 Temp 106° F BHT



COMPANY **Cobalt Energy, LLC** LEASE **MPH #1-36 NW SE NW SW** LOCATION **1886' FSL 872' FWL** SEC. **36** TWP **8S** RGE **22W** COUNTY **Graham** STATE **Ks**

ELEVATIONS
 K.B. **2167**
 D.F.
 G.L. **2162**
 All measurements from K.B. **2167**

RTD 3800' 3:10 pm 03/06/2022
 LTD 3799' 6:30 pm



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS

ATTN: Larry Nicholson

MPH #1-36

36-8s-22w Graham,KS

Start Date: 2022.03.03 @ 13:35:00

End Date: 2022.03.03 @ 20:55:15

Job Ticket #: 68340 DST #: 2

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

Printed: 2022.03.07 @ 15:41:09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68340

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.03.03 @ 13:35:00

GENERAL INFORMATION:

Formation: **LKC D - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:17:15

Time Test Ended: 20:55:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3435.00 ft (KB) To 3476.00 ft (KB) (TVD)

Reference Elevations: 2167.00 ft (KB)

Total Depth: 3476.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 229.07 psig @ 3436.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.03

End Date:

2022.03.03

Last Calib.: 2022.03.03

Start Time: 13:31:05

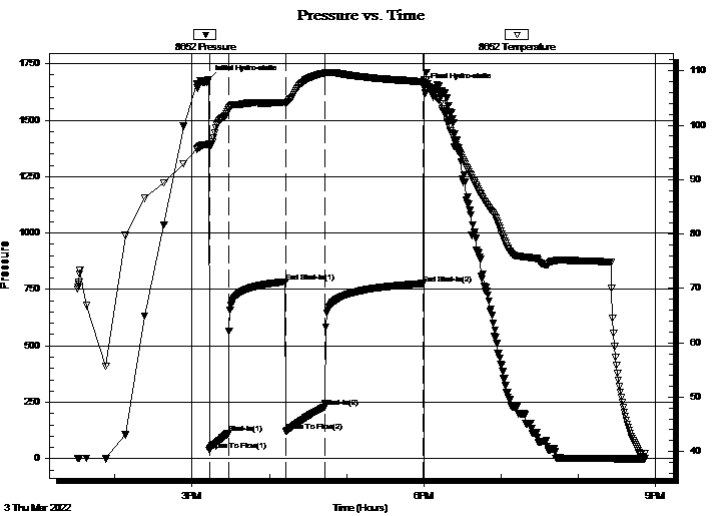
End Time:

20:51:14

Time On Btm: 2022.03.03 @ 15:13:00

Time Off Btm: 2022.03.03 @ 18:00:00

TEST COMMENT: IF-15- BOB 6 min. 50 sec. Built to 25"
SI1-45- Surface blow
FF-30- BOB 8 1/2 min, Built to 36"
SI2-90- Built to 6 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.74	96.54	Initial Hydro-static
1	37.63	95.82	Open To Flow (1)
15	113.31	102.79	Shut-In(1)
60	783.97	104.14	End Shut-In(1)
60	120.18	104.05	Open To Flow (2)
90	229.07	109.59	Shut-In(2)
167	775.73	108.03	End Shut-In(2)
167	1642.18	108.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
254.00	MCW 95% w ater 5% mud	3.28
136.00	GOCWM 5% gas 10% oil 35% w ater 50%	1.91
69.00	GO 10% 90% oil	0.97
0.00	111' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68340

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.03.03 @ 13:35:00

GENERAL INFORMATION:

Formation: **LKC D - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:17:15

Time Test Ended: 20:55:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3435.00 ft (KB) To 3476.00 ft (KB) (TVD)

Reference Elevations: 2167.00 ft (KB)

Total Depth: 3476.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 3436.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.03

End Date:

2022.03.03

Last Calib.:

2022.03.03

Start Time:

13:31:05

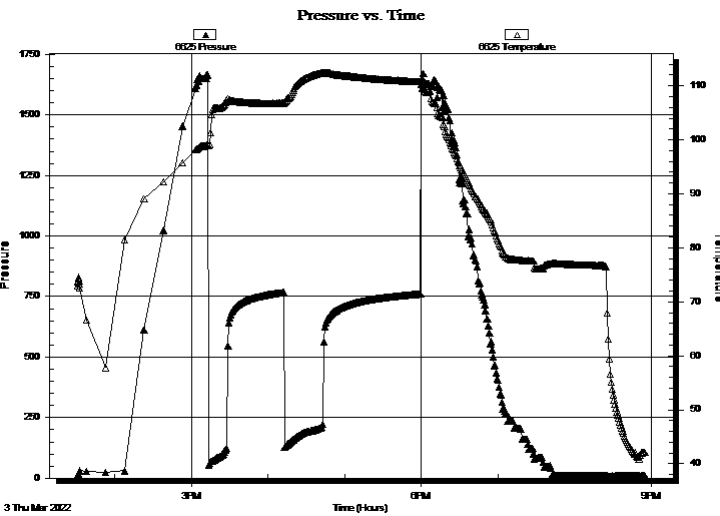
End Time:

20:54:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-15- BOB 6 min. 50 sec. Built to 25"
S11-45- Surface blow
FF-30- BOB 8 1/2 min, Built to 36"
S12-90- Built to 6 1/2"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
254.00	MCW 95% w ater 5% mud	3.28
136.00	GOCWM 5% gas 10% oil 35% w ater 50%	1.91
69.00	GO 10% 90% oil	0.97
0.00	111' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68340

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.03.03 @ 13:35:00

Tool Information

Drill Pipe:	Length: 3398.00 ft	Diameter: 3.80 inches	Volume: 47.67 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 47.82 bbl</u>	Tool Chased	5.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3435.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	72.00 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			3405.00	
shut In Tool	5.00			3410.00	
hydraulic tool	5.00			3415.00	
Jars	5.00			3420.00	
EM Tool	3.00			3423.00	
Safety Joint	3.00			3426.00	
Packer	5.00			3431.00	31.00 Bottom Of Top Packer
Packer	4.00			3435.00	
Stubb	1.00			3436.00	
Recorder	0.00	6625	Inside	3436.00	
Recorder	0.00	8652	Outside	3436.00	
Perforations	37.00			3473.00	
Bullnose	3.00			3476.00	41.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68340

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.03.03 @ 13:35:00

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: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
254.00	MCW 95% water 5% mud	3.281
136.00	GOCWM 5% gas 10% oil 35% water 50% mu	1.908
69.00	GO 10% 90% oil	0.968
0.00	111' GIP	0.000

Total Length: 459.00 ft

Total Volume: 6.157 bbl

Num Fluid Samples: 0

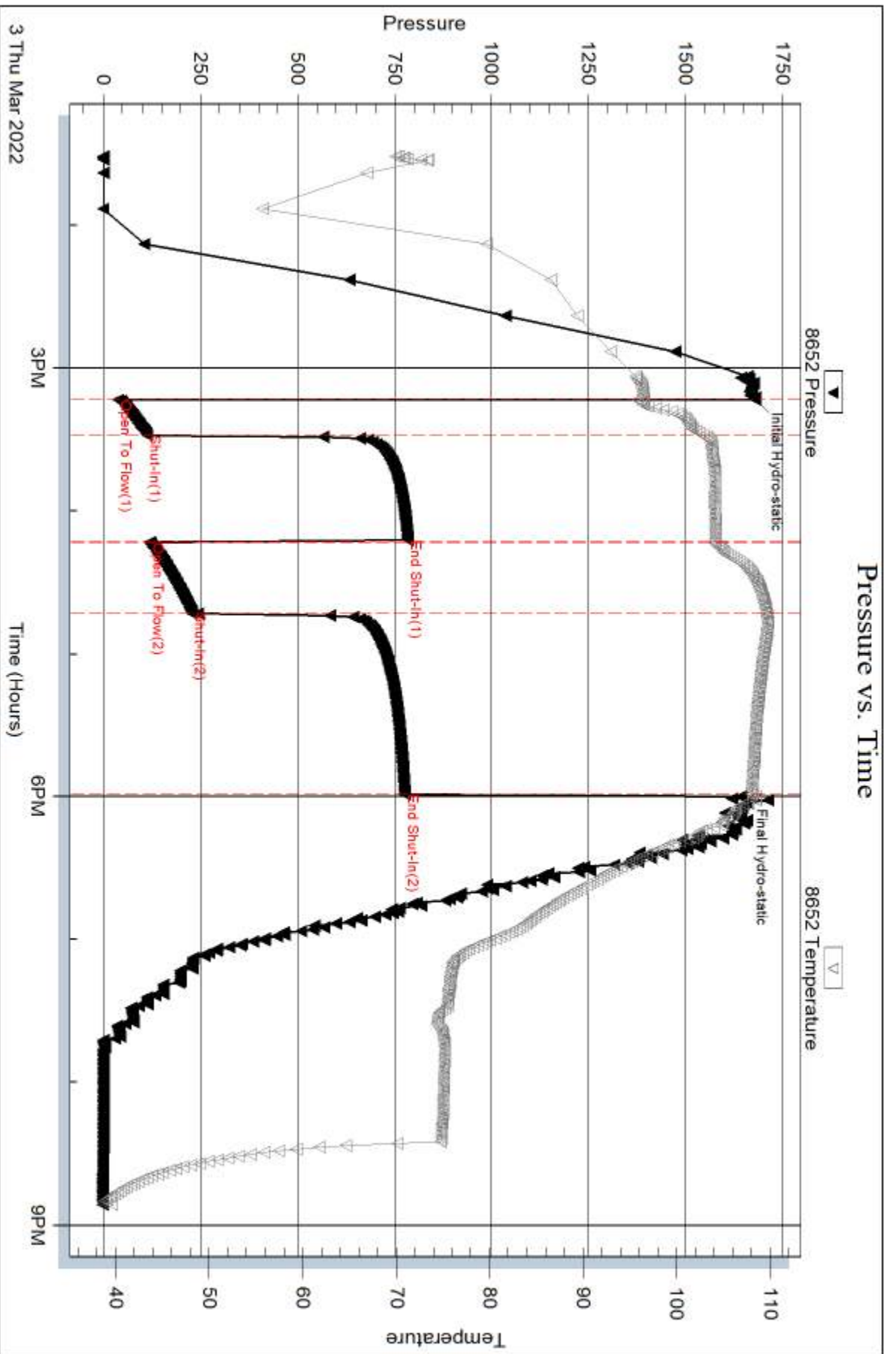
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: TR LCM



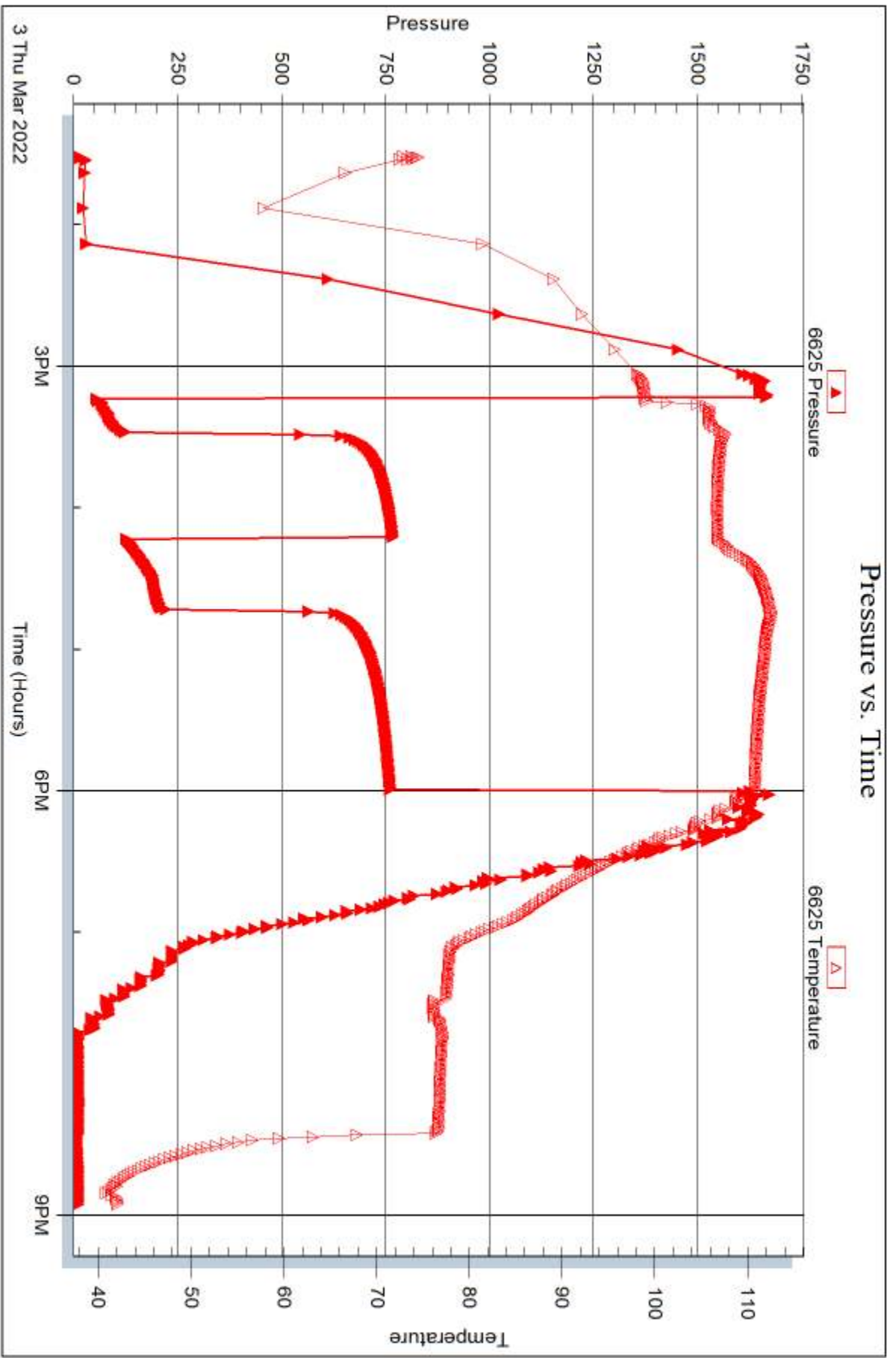
Serial #: 6625

Inside

Cobalt Energy, LLC

MPH #1-36

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68340

Printed: 2022.03.07 @ 15:41:10



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS

ATTN: Larry Nicholson

MPH #1-36

36-8s-22w Graham,KS

Start Date: 2022.03.03 @ 13:35:00

End Date: 2022.03.03 @ 20:55:15

Job Ticket #: 68340 DST #: 2

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

Printed: 2022.03.07 @ 15:40:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68340

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.03.03 @ 13:35:00

GENERAL INFORMATION:

Formation: **LKC D - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:17:15

Time Test Ended: 20:55:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3435.00 ft (KB) To 3476.00 ft (KB) (TVD)

Reference Elevations: 2167.00 ft (KB)

Total Depth: 3476.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 229.07 psig @ 3436.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.03

End Date:

2022.03.03

Last Calib.: 2022.03.03

Start Time: 13:31:05

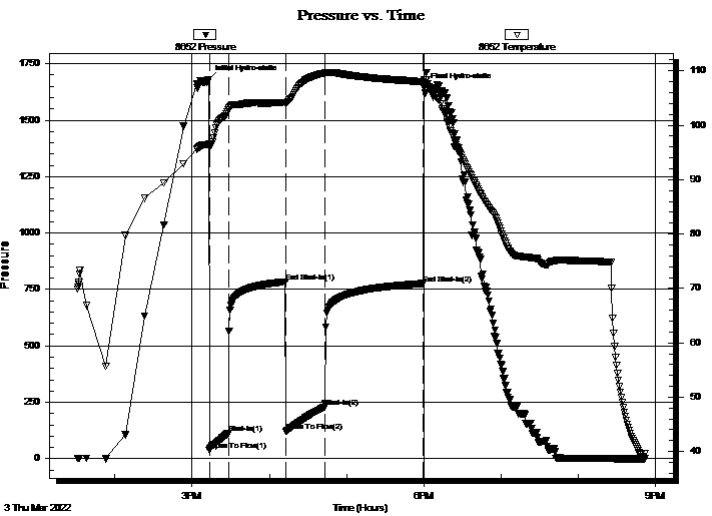
End Time:

20:51:14

Time On Btm: 2022.03.03 @ 15:13:00

Time Off Btm: 2022.03.03 @ 18:00:00

TEST COMMENT: IF-15- BOB 6 min. 50 sec. Built to 25"
SI1-45- Surface blow
FF-30- BOB 8 1/2 min, Built to 36"
SI2-90- Built to 6 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.74	96.54	Initial Hydro-static
1	37.63	95.82	Open To Flow (1)
15	113.31	102.79	Shut-In(1)
60	783.97	104.14	End Shut-In(1)
60	120.18	104.05	Open To Flow (2)
90	229.07	109.59	Shut-In(2)
167	775.73	108.03	End Shut-In(2)
167	1642.18	108.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
254.00	MCW 95% w ater 5% mud	3.28
136.00	GOCWM 5% gas 10% oil 35% w ater 50%	1.91
69.00	GO 10% 90% oil	0.97
0.00	111' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68340

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.03.03 @ 13:35:00

GENERAL INFORMATION:

Formation: **LKC D - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:17:15

Time Test Ended: 20:55:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3435.00 ft (KB) To 3476.00 ft (KB) (TVD)

Reference Elevations: 2167.00 ft (KB)

Total Depth: 3476.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 3436.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.03

End Date:

2022.03.03

Last Calib.:

2022.03.03

Start Time: 13:31:05

End Time:

20:54:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-15- BOB 6 min. 50 sec. Built to 25"
SI1-45- Surface blow
FF-30- BOB 8 1/2 min, Built to 36"
SI2-90- Built to 6 1/2"

PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
254.00	MCW 95% w ater 5% mud	3.28
136.00	GOCWM 5% gas 10% oil 35% w ater 50%	1.91
69.00	GO 10% 90% oil	0.97
0.00	111' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68340

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.03.03 @ 13:35:00

Tool Information

Drill Pipe:	Length: 3398.00 ft	Diameter: 3.80 inches	Volume: 47.67 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 47.82 bbl</u>	Tool Chased	5.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3435.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	72.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3405.00	
shut In Tool	5.00			3410.00	
hydraulic tool	5.00			3415.00	
Jars	5.00			3420.00	
EM Tool	3.00			3423.00	
Safety Joint	3.00			3426.00	
Packer	5.00			3431.00	31.00 Bottom Of Top Packer
Packer	4.00			3435.00	
Stubb	1.00			3436.00	
Recorder	0.00	6625	Inside	3436.00	
Recorder	0.00	8652	Outside	3436.00	
Perforations	37.00			3473.00	
Bullnose	3.00			3476.00	41.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68340

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.03.03 @ 13:35:00

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: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
254.00	MCW 95% water 5% mud	3.281
136.00	GOCWM 5% gas 10% oil 35% water 50% mu	1.908
69.00	GO 10% 90% oil	0.968
0.00	111' GIP	0.000

Total Length: 459.00 ft

Total Volume: 6.157 bbl

Num Fluid Samples: 0

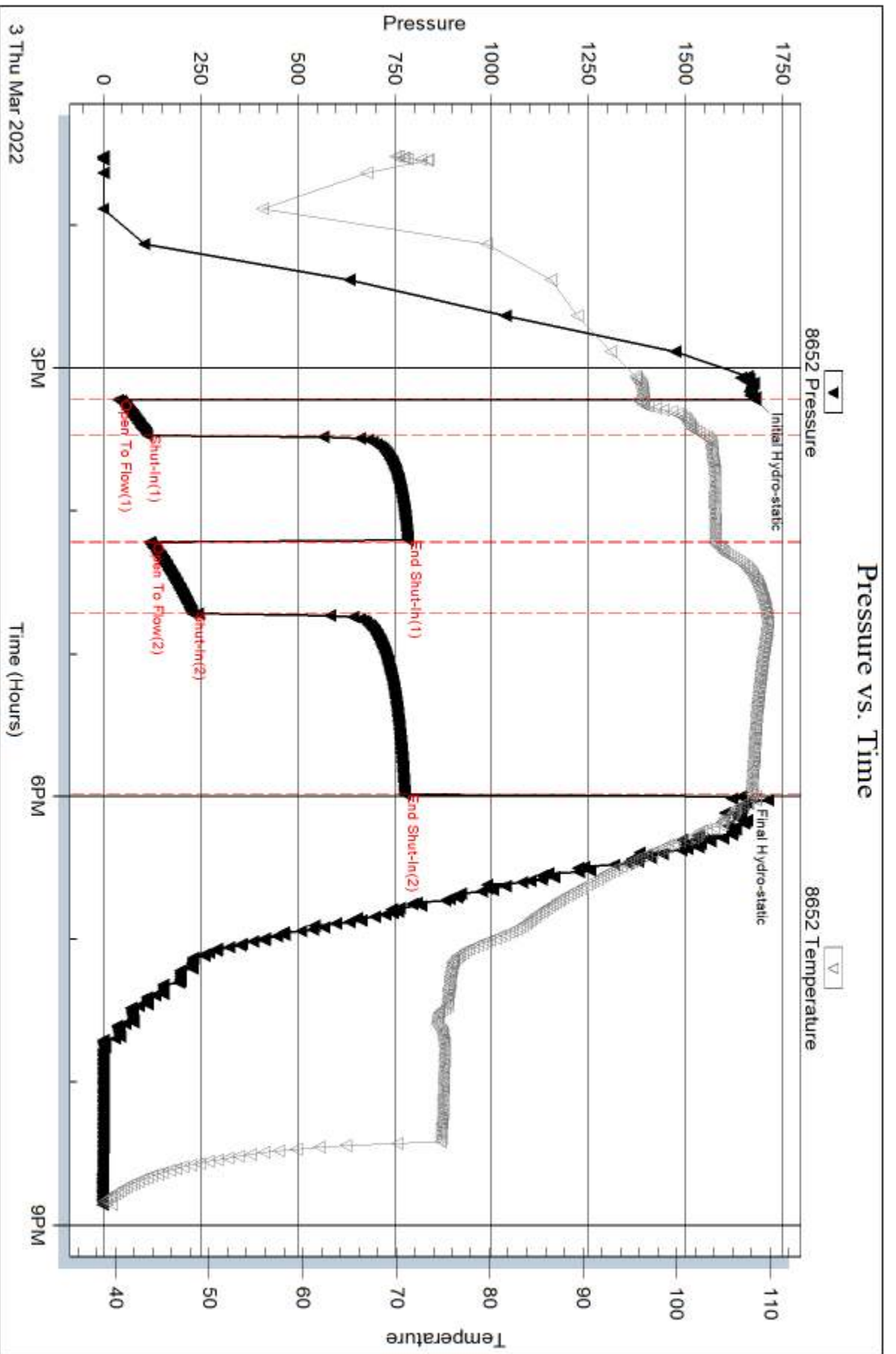
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: TR LCM



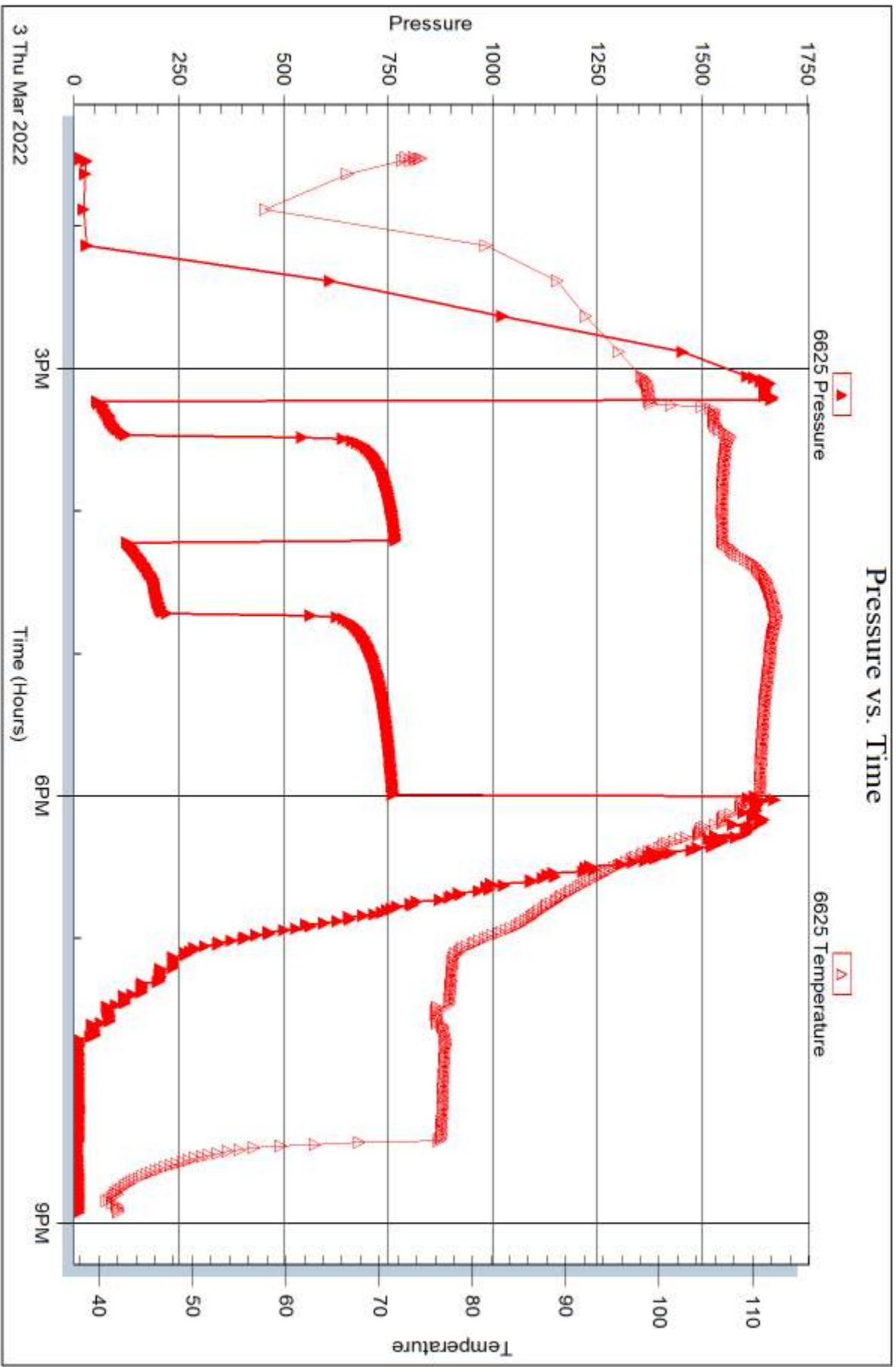
Serial #: 6625

Inside

Cobalt Energy, LLC

MPH #1-36

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 68340

Printed: 2022.03.07 @ 15:40:41



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS

ATTN: Larry Nicholson

MPH #1-36

36-8s-22w Graham,KS

Start Date: 2022.03.04 @ 22:25:00

End Date: 2022.03.05 @ 04:57:45

Job Ticket #: 68341 DST #: 3

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

Printed: 2022.03.07 @ 15:36:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68341

DST#: 3

ATTN: Larry Nicholson

Test Start: 2022.03.04 @ 22:25:00

GENERAL INFORMATION:

Formation: **LKC H - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:20:15

Time Test Ended: 04:57:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3502.00 ft (KB) To 3590.00 ft (KB) (TVD)

Reference Elevations: 2167.00 ft (KB)

Total Depth: 3590.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 42.37 psig @ 3503.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.04

End Date:

2022.03.05

Last Calib.: 2022.03.05

Start Time: 22:25:05

End Time:

04:57:44

Time On Btm: 2022.03.05 @ 00:20:00

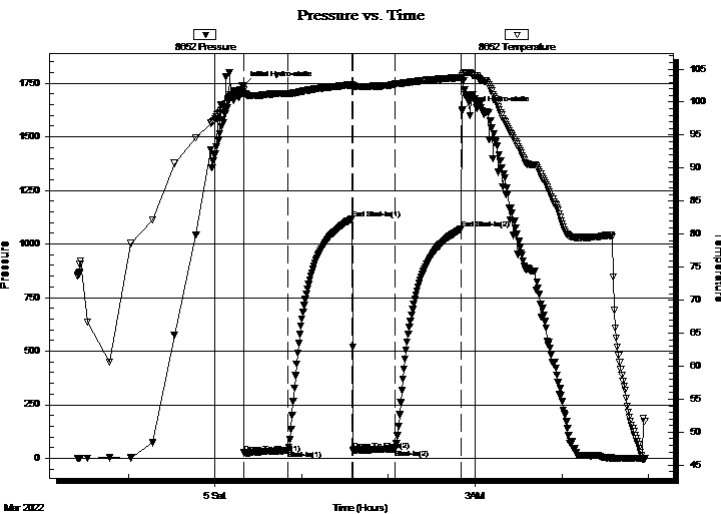
Time Off Btm: 2022.03.05 @ 02:51:00

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

SI1-45- No return

FF-30- No blow

SI2-45- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.28	101.83	Initial Hydro-static
1	24.89	101.09	Open To Flow (1)
31	36.43	101.32	Shut-In(1)
75	1119.49	102.62	End Shut-In(1)
76	39.07	102.33	Open To Flow (2)
105	42.37	102.71	Shut-In(2)
151	1071.56	103.72	End Shut-In(2)
151	1620.75	104.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8s-22w Graham, KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68341

DST#: 3

ATTN: Larry Nicholson

Test Start: 2022.03.04 @ 22:25:00

GENERAL INFORMATION:

Formation: **LKC H - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:20:15

Time Test Ended: 04:57:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3502.00 ft (KB) To 3590.00 ft (KB) (TVD)

Reference Elevations: 2167.00 ft (KB)

Total Depth: 3590.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 3503.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.04

End Date:

2022.03.05

Last Calib.:

2022.03.05

Start Time: 22:25:05

End Time:

04:57:44

Time On Btm:

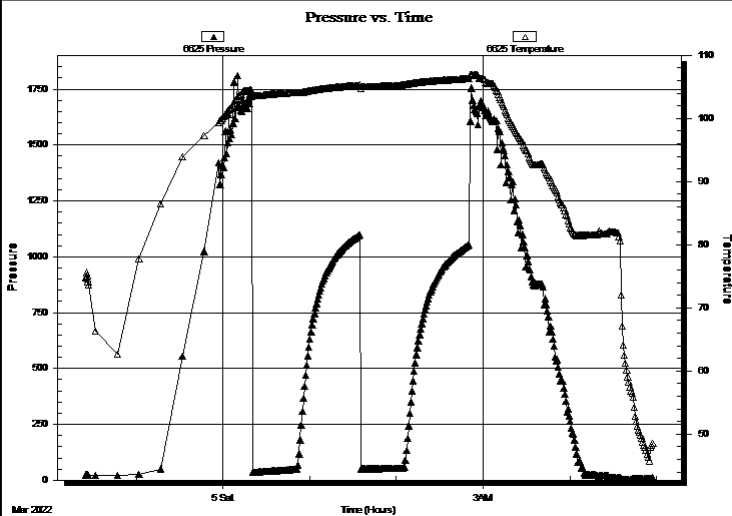
Time Off Btm:

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

SI1-45- No return

FF-30- No blow

SI2-45- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68341

DST#: 3

ATTN: Larry Nicholson

Test Start: 2022.03.04 @ 22:25:00

Tool Information

Drill Pipe:	Length: 3465.00 ft	Diameter: 3.80 inches	Volume: 48.60 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 48.75 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	3502.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	119.00 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			3472.00	
shut In Tool	5.00			3477.00	
hydraulic tool	5.00			3482.00	
Jars	5.00			3487.00	
EM Tool	3.00			3490.00	
Safety Joint	3.00			3493.00	
Packer	5.00			3498.00	31.00 Bottom Of Top Packer
Packer	4.00			3502.00	
Stubb	1.00			3503.00	
Recorder	0.00	6625	Inside	3503.00	
Recorder	0.00	8652	Outside	3503.00	
Perforations	19.00			3522.00	
change Over Sub	1.00			3523.00	
Drill Pipe	63.00			3586.00	
change Over Sub	1.00			3587.00	
change Over Sub	3.00			3590.00	88.00 Bottom Packers & Anchor
Total Tool Length:	119.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68341

DST#: 3

ATTN: Larry Nicholson

Test Start: 2022.03.04 @ 22:25:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

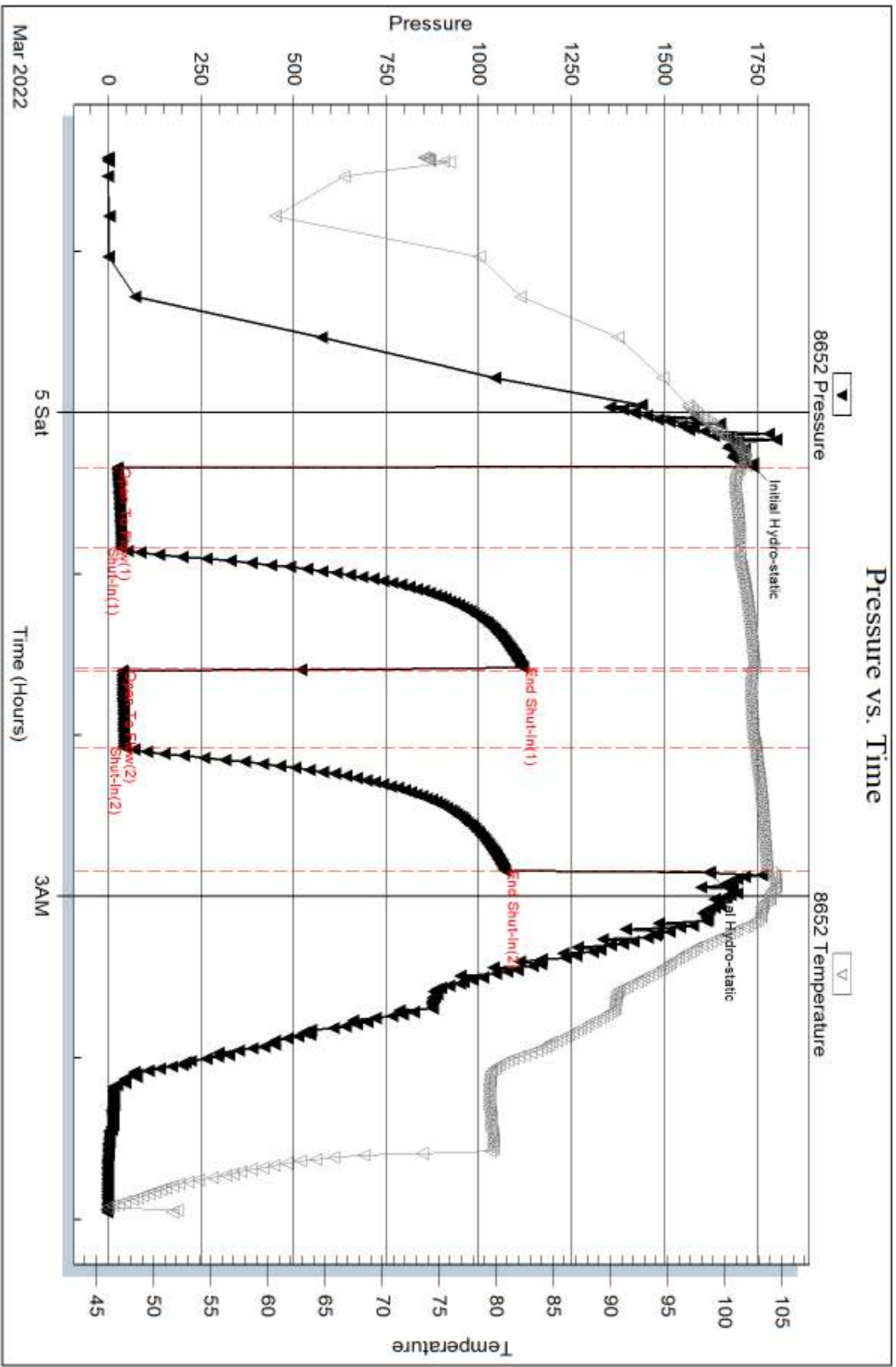
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: TR LCM



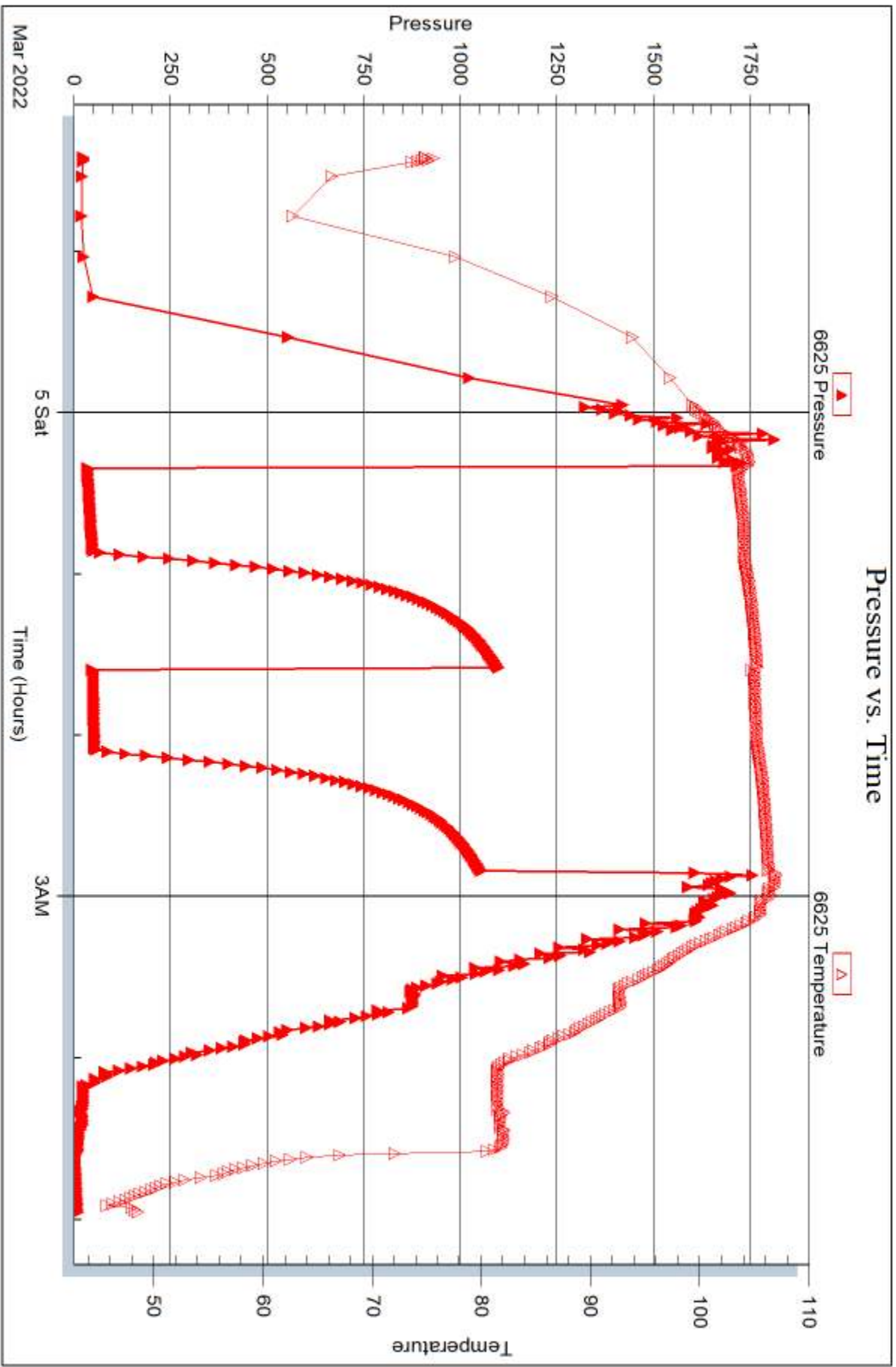
Serial #: 6625

Inside

Cobalt Energy, LLC

MPH #1-36

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS

ATTN: Larry Nicholson

MPH #1-36

36-8s-22w Graham,KS

Start Date: 2022.03.06 @ 03:10:00

End Date: 2022.03.06 @ 10:53:45

Job Ticket #: 68342 DST #: 4

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

Printed: 2022.03.07 @ 15:35:33



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68342

DST#: 4

ATTN: Larry Nicholson

Test Start: 2022.03.06 @ 03:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:11:30

Time Test Ended: 10:53:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3690.00 ft (KB) To 3737.00 ft (KB) (TVD)

Reference Elevations: 2167.00 ft (KB)

Total Depth: 3737.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 35.44 psig @ 3691.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.06

End Date: 2022.03.06

Last Calib.: 2022.03.06

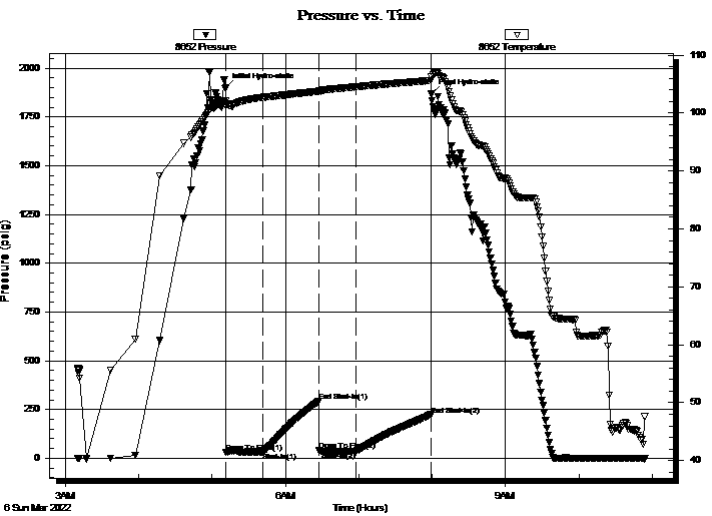
Start Time: 03:10:05

End Time: 10:53:44

Time On Btm: 2022.03.06 @ 05:11:00

Time Off Btm: 2022.03.06 @ 07:59:30

TEST COMMENT: IF-30- Built to 3"
SI1-45- No return
FF-30- Built to 3/4"
SI2-60- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.61	102.07	Initial Hydro-static
1	29.62	101.31	Open To Flow (1)
30	32.52	102.69	Shut-In(1)
77	290.95	103.74	End Shut-In(1)
77	40.25	103.68	Open To Flow (2)
107	35.44	104.51	Shut-In(2)
168	222.26	105.61	End Shut-In(2)
169	1867.34	106.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
44.00	mud W/oil spots 100% mud	0.33
1.00	oil 100%	0.01

* Recovery from multiple tests

Gas Rates

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



TRILLOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68342

DST#: 4

ATTN: Larry Nicholson

Test Start: 2022.03.06 @ 03:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:11:30

Time Test Ended: 10:53:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: **3690.00 ft (KB) To 3737.00 ft (KB) (TVD)**

Reference Elevations: 2167.00 ft (KB)

Total Depth: 3737.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 3691.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.06

End Date: 2022.03.06

Last Calib.: 2022.03.06

Start Time: 03:10:05

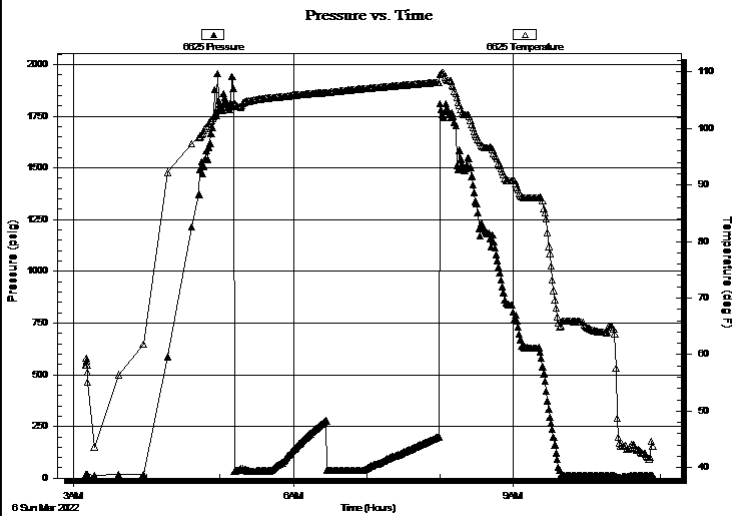
End Time: 10:53:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30- Built to 3"
SI1-45- No return
FF-30- Built to 3/4"
SI2-60- No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
44.00	mud W/oil spots 100% mud	0.33
1.00	oil 100%	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68342

DST#: 4

ATTN: Larry Nicholson

Test Start: 2022.03.06 @ 03:10:00

Tool Information

Drill Pipe:	Length: 3653.00 ft	Diameter: 3.80 inches	Volume: 51.24 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 51.39 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	3690.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 ft				
Tool Length:	78.00 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			3660.00	
shut In Tool	5.00			3665.00	
hydraulic tool	5.00			3670.00	
Jars	5.00			3675.00	
EM Tool	3.00			3678.00	
Safety Joint	3.00			3681.00	
Packer	5.00			3686.00	31.00 Bottom Of Top Packer
Packer	4.00			3690.00	
Stubb	1.00			3691.00	
Recorder	0.00	6625	Inside	3691.00	
Recorder	0.00	8652	Outside	3691.00	
Perforations	5.00			3696.00	
change Over Sub	1.00			3697.00	
Drill Pipe	32.00			3729.00	
change Over Sub	1.00			3730.00	
Perforations	4.00			3734.00	
Bullnose	3.00			3737.00	47.00 Bottom Packers & Anchor
Total Tool Length:	78.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8s-22w Graham,KS

PO Box 8037
Wichita, KS

MPH #1-36

Job Ticket: 68342

DST#: 4

ATTN: Larry Nicholson

Test Start: 2022.03.06 @ 03:10:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
44.00	mud W/oil spots 100% mud	0.335
1.00	oil 100%	0.014

Total Length: 45.00 ft Total Volume: 0.349 bbl

Num Fluid Samples: 0

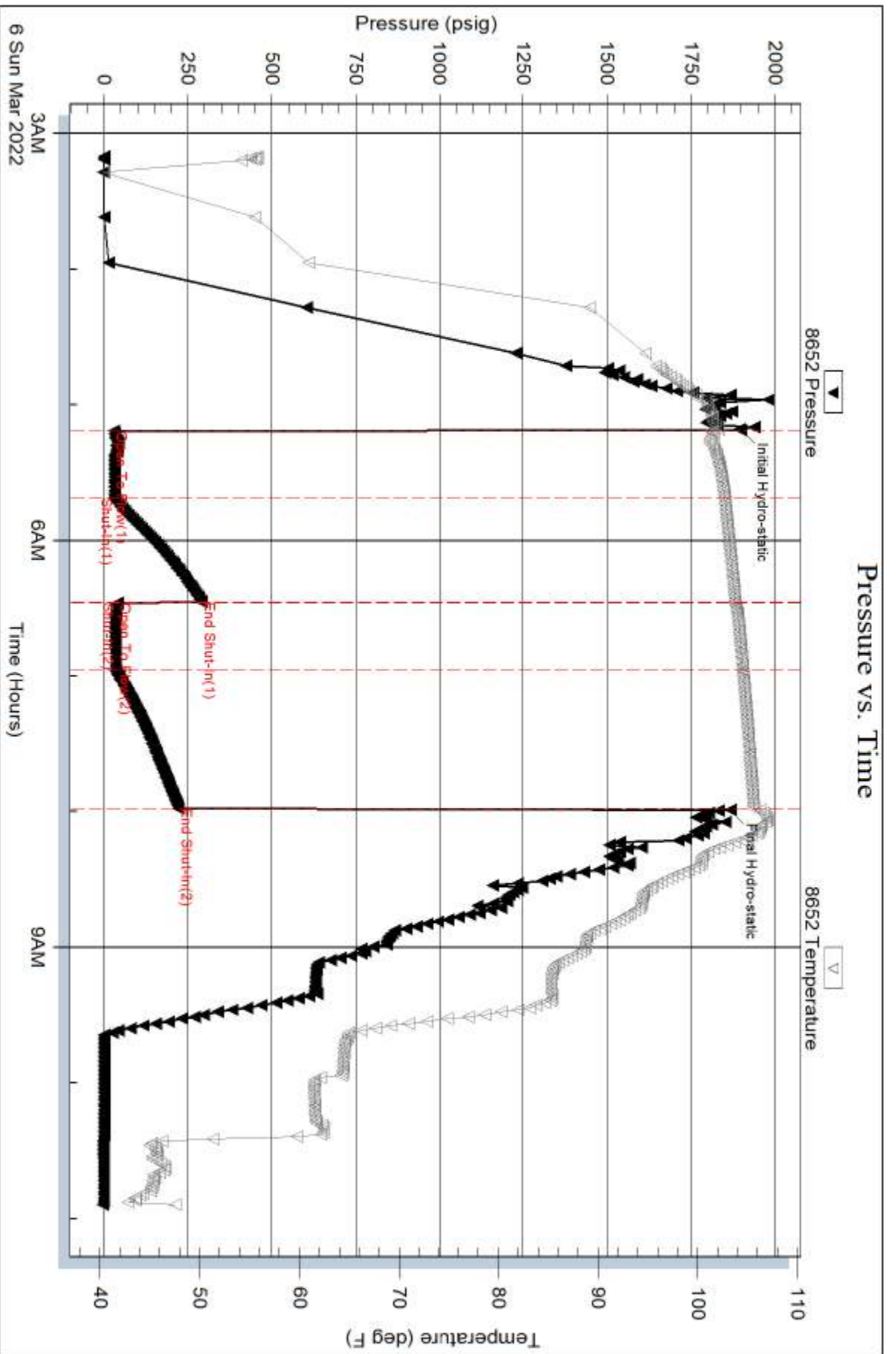
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM



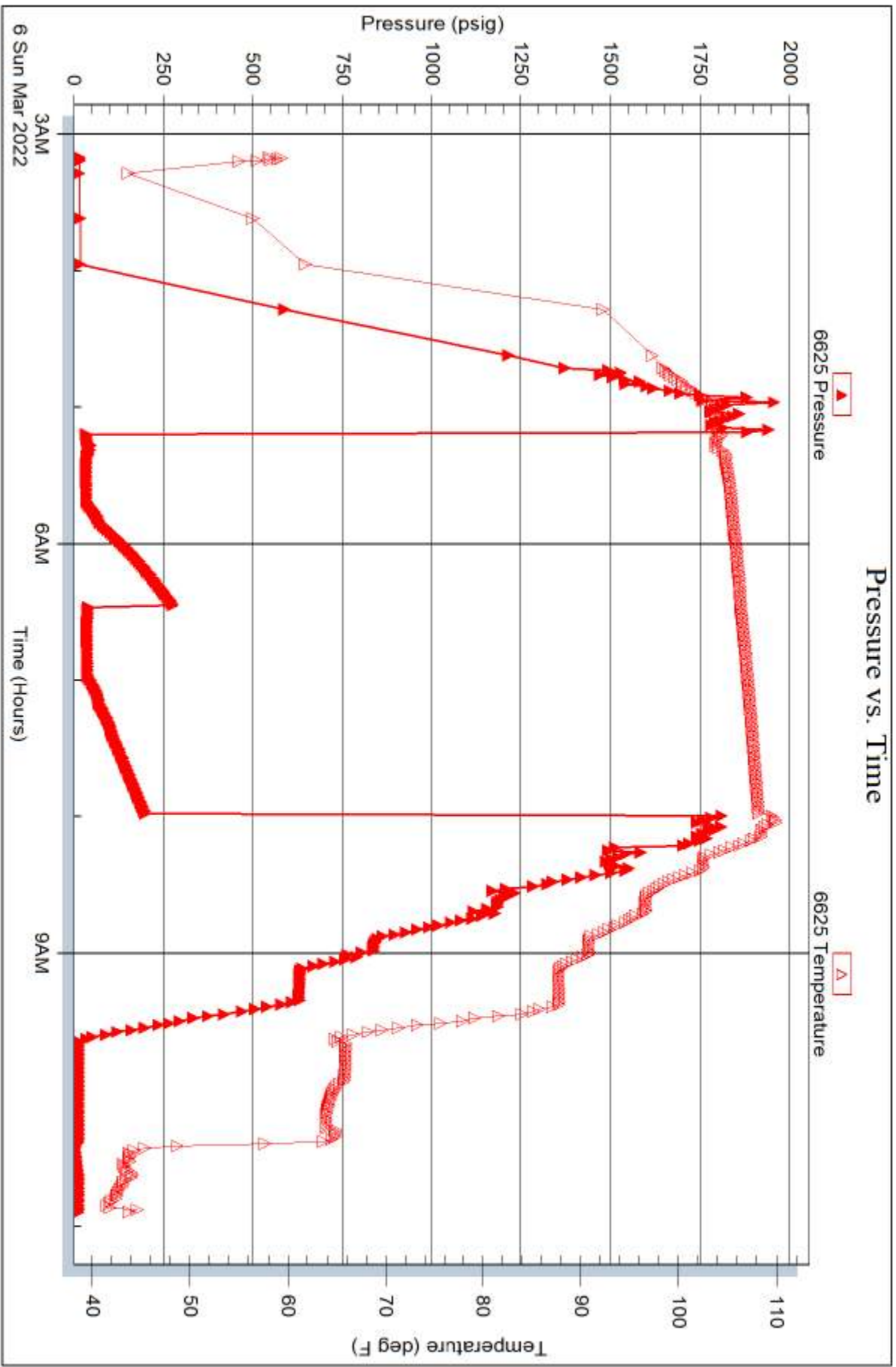
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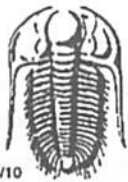
Inside

Cobalt Energy, LLC

MPH #1-36

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68339

Well Name & No. MP4#1-36 Test No. 1 Date 3/2/22
 Company Cohalt Energy, LLC Elevation 2167 KB 2162 GL
 Address PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin Rig #16
 Location: Sec. 36 Twp 8 Rge. 22 Co. Graham State KS

Interval Tested 3379-3436 Zone Tested LKCA-C
 Anchor Length 57 Drill Pipe Run 3335 Mud Wt. 8.9
 Top Packer Depth 3374 Drill Collars Run 31 Vis 46
 Bottom Packer Depth 3379 Wt. Pipe Run φ WL 5.4
 Total Depth 3436 Chlorides 600 ppm System LCM Tr

Blow Description 1F- BOB in 13 1/2 min. Built to 14 1/4"
S14- Weak surface blow, died in 23 min
FF- BOB in 10 1/2 min. Built to 29"
S12- Surface blow, died in 5 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>90CM</u>	<u>10%</u>	<u>20%</u>	<u>70%</u>	<u>mud</u>
<u>64</u>	<u>60</u>	<u>10%</u>	<u>90%</u>	<u>%</u>	<u>%</u>
<u>381'</u>	<u>GIP</u>	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
		<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
		<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>

Rec Total 190 BHT 106 Gravity 33 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>11046</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>18:38</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:37</u>
(C) First Final Flow <u>53</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:02</u>
(D) Initial Shut-In <u>953</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>02:02</u>
(E) Second Initial Flow <u>56</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>05:23</u>
(F) Second Final Flow <u>99</u>	<input checked="" type="checkbox"/> Mileage <u>100</u> <u>125</u>	Comments
(G) Final Shut-In <u>946</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1165</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350</u>

Initial Open 15
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 90

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Ruined Shale Packer
 Ruined Packer
 Extra Copies

Sub Total 350
 Total 2100
 Sub Total 1750 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68340

Well Name & No. MPH #1-36 Test No. 2 Date 3/3/22
 Company Cobalt Energy, LLC Elevation 2167 KB 2162 GL
 Address PO Box 8637 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin Rig #16
 Location: Sec. 36 Twp 8 Rge. 22 Co. Graham State KS

Interval Tested 3435-3476 Zone Tested LKC D-F
 Anchor Length 41 Drill Pipe Run 3398 Mud Wt. 9.0
 Top Packer Depth 3430 Drill Collars Run 31 Vis 54
 Bottom Packer Depth 3435 Wt. Pipe Run 0 WL 5.4
 Total Depth 3476 Chlorides 1500 ppm System LCM Tr

Blow Description IF- BOB 6min 50 sec Built to 25"
S12- Surface blow
FF- BOB 8min, 30 sec Built to 36"
S12- Built to 6 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>254</u>	<u>MCW</u>			<u>95</u>	<u>5</u>
<u>136'</u>	<u>60000 GOCWM</u>	<u>5</u>	<u>10</u>	<u>35</u>	<u>50</u>
<u>69</u>	<u>GO</u>	<u>10</u>	<u>90</u>		
	<u>111' GIP</u>				

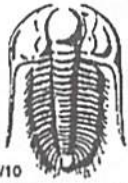
Rec Total 459 BHT 109 Gravity 33 API RW 135 @ 49 °F Chlorides 85000 ppm

(A) Initial Hydrostatic 11681 Test 1300 T-On Location 12:49
 (B) First Initial Flow 37 Jars 250 T-Started 13:31
 (C) First Final Flow 113 Safety Joint 75 T-Open 15:14
 (D) Initial Shut-In 784 Circ Sub NA T-Pulled ~~17:59~~ 17:59
 (E) Second Initial Flow 120 Hourly Standby _____ T-Out 20:56
 (F) Second Final Flow 229 Mileage 100 125 Comments _____
 (G) Final Shut-In 776 Sampler _____
 (H) Final Hydrostatic 11642 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 2100
 Sub Total 1750 MP/DST Disc't _____

Initial Open 15
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In ~~75~~ 75

Approved By _____ Our Representative Dusty

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68341

Well Name & No. MPH#1-36 Test No. 3 Date 3/4/22
 Company Cobalt Energy, LLC Elevation 2167 KB 2162 GL
 Address PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin Rig#16
 Location: Sec. 36 Twp 8 Rge. 22 Co. Graham State KS

Interval Tested 3502-3590 Zone Tested LKC H-K
 Anchor Length 88 Drill Pipe Run 3465 Mud Wt. 9.1
 Top Packer Depth 3497 Drill Collars Run 31 Vis 47
 Bottom Packer Depth 3502 Wt. Pipe Run Ø WL 5.2
 Total Depth 3590 Chlorides 3800 ppm System LCM Tr

Blow Description IF-Built to 1 1/4"
S14- No return
FF- No blow
S12- No return

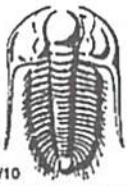
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1739</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>19:15</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:25</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>24:20</u>
(D) Initial Shut-In <u>1119</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>02:50</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>04:58</u>
(F) Second Final Flow <u>42</u>	<input checked="" type="checkbox"/> Mileage <u>100</u> 125	Comments _____
(G) Final Shut-In <u>1072</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1021</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2100</u>
	Sub Total <u>1750</u>	MP/DST Disc't _____

Approved By _____ Our Representative DWADG

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68342

Well Name & No. MPH#1-36 Test No. 4 Date 3/6/22
 Company Cobalt Energy, LLC Elevation 2167 KB 2162 GL
 Address PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin Rig#16
 Location: Sec. 36 Twp 8 Rge. 22 Co. Graham State KS

Interval Tested 3690-3737 Zone Tested Arbuckle
 Anchor Length 47' Drill Pipe Run 3653 Mud Wt. 9.2
 Top Packer Depth 3685 Drill Collars Run 31 Vls 59
 Bottom Packer Depth 3690 Wt. Pipe Run φ WL 5.4
 Total Depth 3737 Chlorides 3900 ppm System LCM 1#

Blow Description IF - Built to 3"
S14 - No Return
FF - Built to 3/4"
S12 - NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>44</u>	<u>Mud w oil spots</u>			<u>100</u>	
<u>1</u>	<u>oil</u>		<u>100</u>		

Rec Total 45 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1900</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>02:38</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>03:10</u>
(C) First Final Flow <u>33</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:12</u>
(D) Initial Shut-In <u>291</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>07:57</u>
(E) Second Initial Flow <u>40</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:56</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>100</u> 125	Comments _____
(G) Final Shut-In <u>222</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1867</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2100</u>
	Sub Total <u>1750</u>	MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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CEMENT TREATMENT REPORT

Customer: Cobalt Energy	Well: MPH # 1-36	Ticket: WP2491
City, State: Oakley KS	County: Graham KS	Date: 3/7/2022
Field Rep: Josh Mosier	S-T-R: 36-8S-22W	Service: Longstring

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H- Con	Blend:	H-LD
Hole Depth:	3800 ft	Weight:	11.2 ppg	Weight:	14.8 ppg
Casing Size:	5 1/2 in	Water / Sx:	19.6 gal / sx	Water / Sx:	6.5 gal / sx
Casing Depth:	3796.12 ft	Yield:	3.16 ft ³ / sx	Yield:	1.51 ft ³ / sx
Tubing / Liner:	in	Annular Bbbs / Ft.:	0.0309 bbs / ft.	Annular Bbbs / Ft.:	0.0309 bbs / ft.
Depth:	ft	Depth:	3796.12 ft	Depth:	3796.12 ft
Tool / Packer:		Annular Volume:	117.3 bbls	Annular Volume:	117.3001 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	91.6 bbls	Total Slurry:	163.2 bbls	Total Slurry:	40.3 bbls
		Total Sacks:	290 sx	Total Sacks:	150 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
700A			-	-	GOT TO LOCATION
730A			-	-	SAFETY MEETING
945A			-	-	RIGGED UP EQUIPMENT
947A			-	-	STARTED RUNNING CASING
945A			-	-	LANDED CASING
947A			-	-	DROPPED BALL
1020A			-	-	STARTED CIRCULATING FOR ONE HOUR
1126A	3.0	400.0	5.0	5.0	PUMPED H2O AHEAD
1128A	3.0	400.0	12.0	17.0	PUMPED 500 GAL MUD FLUSH
1132A	3.0	150.0	16.4	33.4	PUMPED 30 SKS OF H- CON IN MH
1142A	3.5	500.0	140.6	174.0	PUMPED 250 SKS OF H- CON @ 3796.12
1222P	2.5	400.0	40.3		PUMPED 150 SKS OF H- LD @ 3796.12
1238P					WASHED UP PUMP AND LINES/ LOADED PLUG IN CASING
1243P	4.8	1,300.0	91.5		DISPLACED WITH H2O
102P		1,700.0			PLUG DOWN/ CIRCULATED 15 BBL TO PIT
105P					TESTED PLUG / PLUG HELD
108P					WASHED PUMP TRUCK
115P					RIGGED DOWN
145P					OFF LOCATION

CREW	UNIT	SUMMARY			
Cementer:	Josh	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	John	208	3.3 bpm	693 psi	306 bbls
Bulk #1:	Chistian	205			
Bulk #2:	Jose	527/250			



CEMENT TREATMENT REPORT

Customer:	Cobalt	Well:	MPH # 1-36	Ticket:	WP 2456
City, State:	Oakley KS	County:	Graham KS	Date:	2/26/2022
Field Rep:	Josh Mosier	S-T-R:	36-8S-22W	Service:	Surface

Downhole Information

Hole Size:	12.25 in
Hole Depth:	220 ft
Casing Size:	8 5/8 in
Casing Depth:	219.87 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	12.7 bbls

Calculated Slurry - Lead

Blend:	H- 325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	219.87 ft
Annular Volume:	16.2 bbls
Excess:	
Total Slurry:	40.2 bbls
Total Sacks:	160 sx

Calculated Slurry - Tail

Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

	STAGE	TOTAL		REMARKS
TIME	RATE	PSI	BBLs	BBLs

430P			-	-	GOT TO LOCATION
435P				-	SAFETY MEETING
440P				-	RIGGED UP TRUCKS
615P				-	LANDED CASING
625P				-	CIRCULATED HOLE
633P	3.0	100.0	5.0	5.0	PUMPED H2O AHEAD
635P	5.0	300.0	40.2	45.2	PUMPED 160 SKS OF H- 325 @ 219.87 FT
643P	3.0	150.0	12.7	57.9	DISPLACED WITH H2O
647P				57.9	PLUG DOWN WITH 5 BBL TO PIT
648P				57.9	WASHED UP PUMP TRUCK
655P				57.9	RIGGED DOWN TRUCKS
720P					OFF LOCATION

CREW		UNIT	SUMMARY		
Cementer:	Josh	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Kale	230	3.7 bpm	183 psi	58 bbls
Bulk #1:	Charlie	205			
Bulk #2:					

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Dwight D. Keen, Chair
Susan K. Duffy, Commissioner
Andrew J. French, Commissioner

Laura Kelly, Governor

July 12, 2022

Nicholas Hess
Cobalt Energy LLC
115 S. BELMONT #12
PO BOX 8037
WICHITA, KS 67208-0037

Re: ACO-1
API 15-065-24213-00-00
MPH 1-36
SW/4 Sec.36-08S-22W
Graham County, Kansas

Dear Nicholas Hess:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 2/26/2022 and the ACO-1 was received on July 12, 2022 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36_8_22 Graham

PO BOX 8037
Wichita, KS

MPH #1-36

Job Ticket: 68339

DST#: 1

ATTN: Larry Nicholson

Test Start: 2022.03.02 @ 20:37:00

GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:02:15

Time Test Ended: 05:22:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3379.00 ft (KB) To 3436.00 ft (KB) (TVD)

Reference Elevations: 2167.00 ft (KB)

Total Depth: 3436.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 99.41 psig @ 3380.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.02

End Date:

2022.03.03

Last Calib.:

2022.03.03

Start Time:

20:37:05

End Time:

05:22:45

Time On Btm:

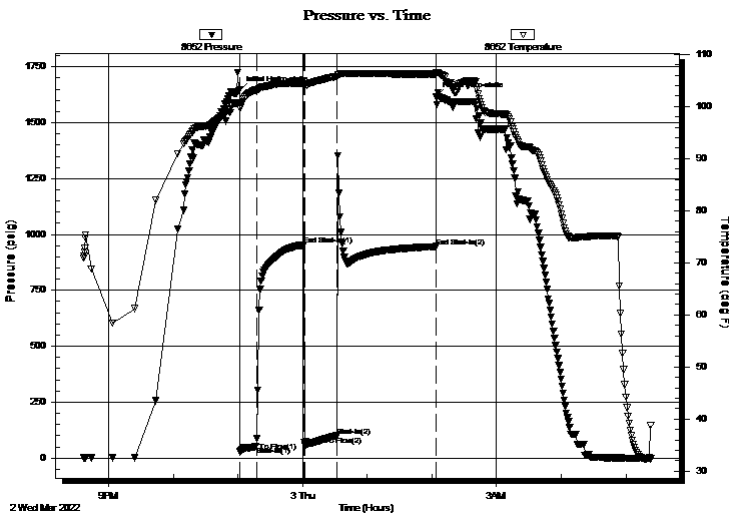
2022.03.02 @ 23:02:00

Time Off Btm:

2022.03.03 @ 02:04:15

TEST COMMENT: IF-15- BOB in 13 1/2 min, Built to 14 1/4"
SI1-45- Weak surface blow, died in 23 min
FF-30- BOB in 10 1/2 min, Built to 29"
SI2-90- Surface blow, died in 56 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1645.73	100.71	Initial Hydro-static
1	29.40	99.68	Open To Flow (1)
16	53.21	103.18	Shut-In(1)
60	952.85	104.36	End Shut-In(1)
60	56.48	104.21	Open To Flow (2)
90	99.41	105.74	Shut-In(2)
182	946.07	106.19	End Shut-In(2)
183	1615.20	106.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	GOCM 10% gas 20% oil 70% mud	1.49
64.00	GO 10% gas 90% oil	0.90
0.00	381' GIP	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Cobalt Energy, LLC

36_8_22 Graham

PO BOX 8037
Wichita, KS

MPH #1-36

Job Ticket: 68339

DST#: 1

ATTN: Larry Nicholson

Test Start: 2022.03.02 @ 20:37:00

GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:02:15

Time Test Ended: 05:22:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: **3379.00 ft (KB) To 3436.00 ft (KB) (TVD)**

Total Depth: 3436.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2167.00 ft (KB)

2162.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6625** Inside

Press@RunDepth: psig @ 3380.00 ft (KB)

Start Date: 2022.03.02

End Date:

2022.03.03

Start Time: 20:37:05

End Time:

05:22:45

Capacity: 8000.00 psig

Last Calib.:

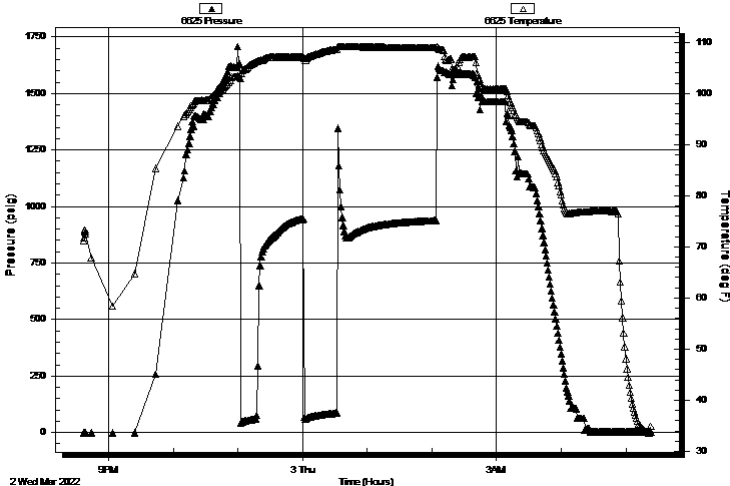
2022.03.03

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-15- BOB in 13 1/2 min, Built to 14 1/4"
SI1-45- Weak surface blow , died in 23 min
FF-30- BOB in 10 1/2 min, Built to 29"
SI2-90- Surface blow , died in 56 min.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	GOCM 10% gas 20% oil 70% mud	1.49
64.00	GO 10% gas 90% oil	0.90
0.00	381' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36_8_22 Graham

PO BOX 8037
Wichita, KS

MPH #1-36

Job Ticket: 68339

DST#: 1

ATTN: Larry Nicholson

Test Start: 2022.03.02 @ 20:37:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	GOCM 10% gas 20% oil 70% mud	1.485
64.00	GO 10% gas 90% oil	0.898
0.00	381' GIP	0.000

Total Length: 190.00 ft

Total Volume: 2.383 bbl

Num Fluid Samples: 0

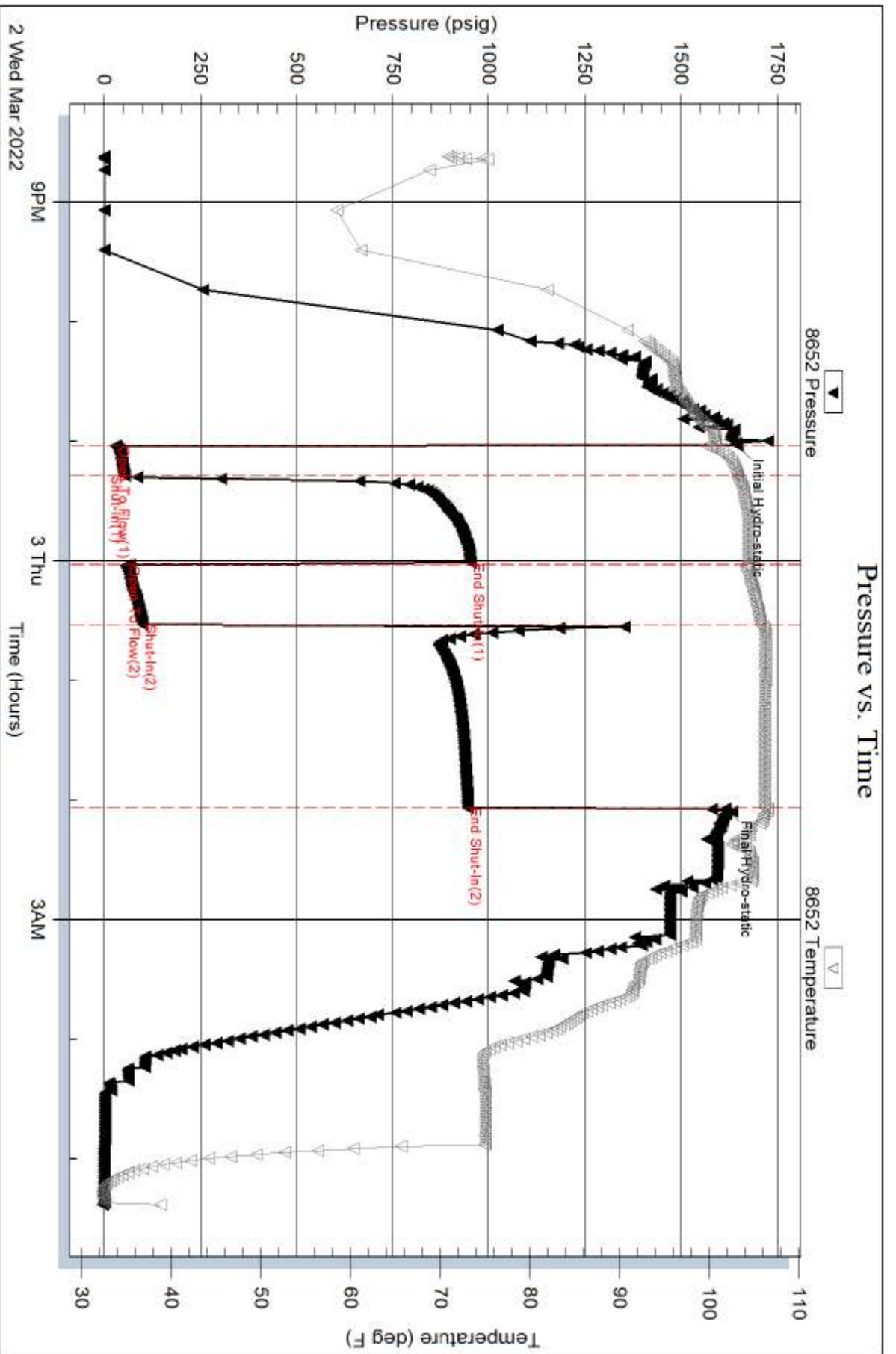
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: TR LCM



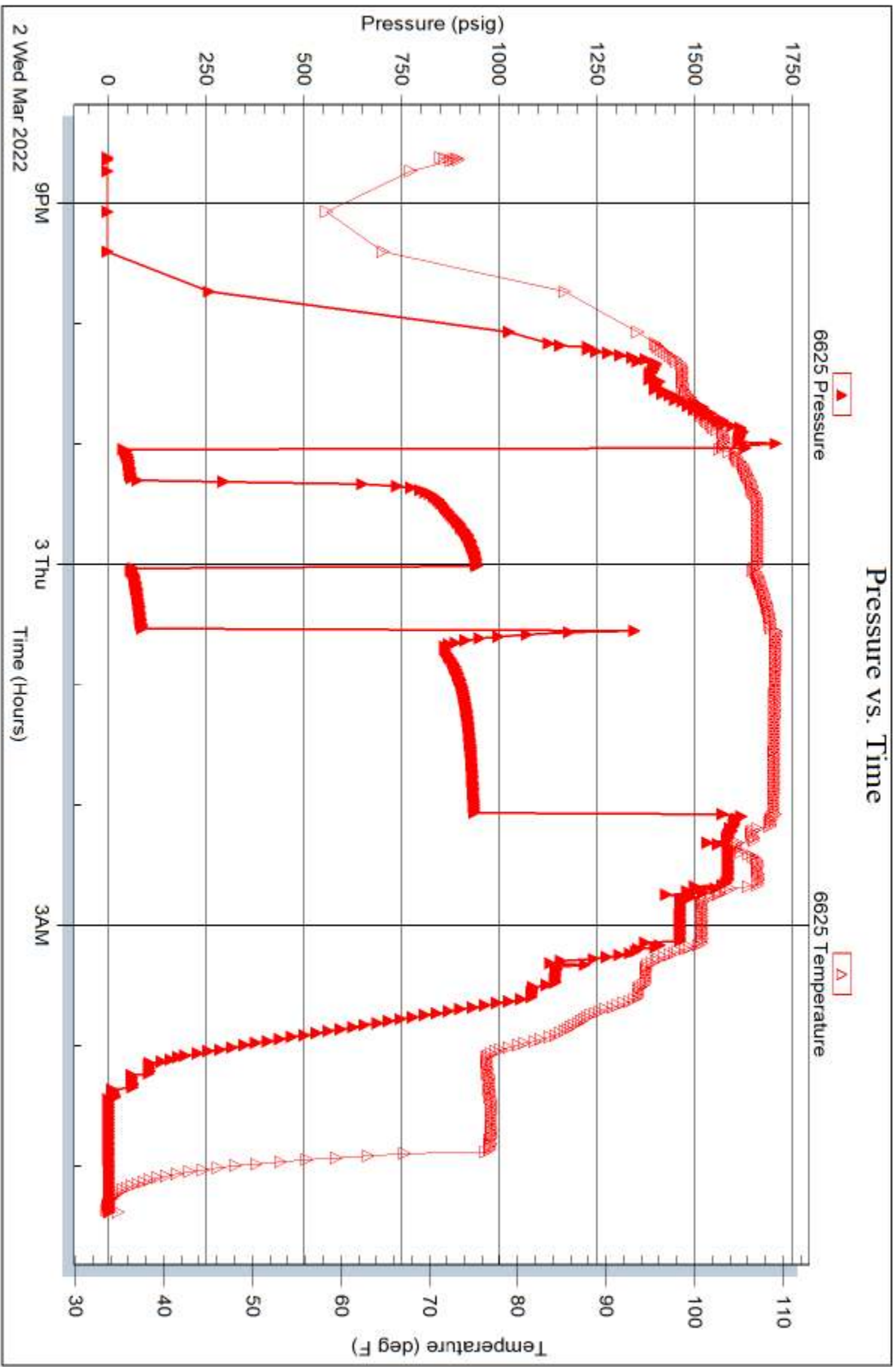
Serial #: 6625

Inside

Cobalt Energy, LLC

MPH #1-36

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68339

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