

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 |
|---|---|------------------------------------|

| 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: | |
|----------------|-------|---------|------------|--|

Larry A. Nicholson

NAD 83 38 71238067 -101.08382446

COMPANY Cobalt Energy
API # 15-109-21632
LEASE Mac Family #1-34
LOCATION NW SE NW NE
SURVEY 850 FNL 1868' FEL
COUNTY Logan STATE Kansas

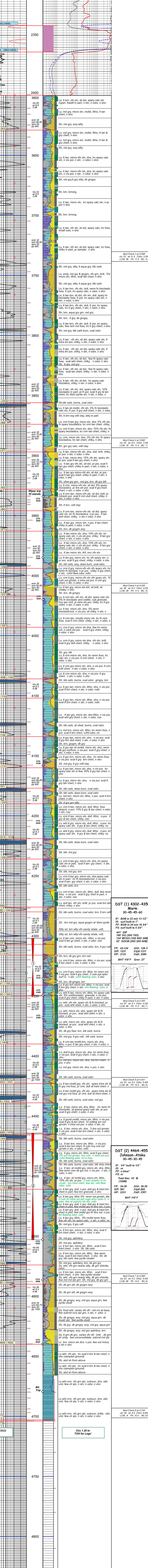
ELEVATIONS
K.B. 2986
D.F.
G.L. 2975
All measurements from K.B. 2986

CONTRACTOR Murfin Vargas Rig # 22
SPUD 06-21-22 10:00 am COMP.06-29-5:30 am
RTD 4704 LTD 4703
MUD UP AT 3468
MUD TYPE MudCo Reid

Table with 5 columns: FORMATION, SAMPLE TOPS, SUBSEA DATUM, ELECG LOG, SUBSEA RETURN, REFERENCE WELL. Includes well names like A and B.

DRILLS TEST SUMMARY:
Dat #1 4302-4350 (Marm) 30 45 45 60
Rec 372 Fluid 441 GPR 272 188 SO (300 700) 124 MCGO (100 600 30M)

LEGEND
Dolomite, Limestone, Shale, Carbonaceous Shale, Sandstone, Chert, Anhydrite



DST (1) 4302-4350
Marm
30-45-45-60
IF: BOB in 23 min 13 1/2"
IS: surf built to 1"
FS: BOB in 24 min 16 3/4"

DST (2) 4464-4553
Johnson
30-45-30-45
IF: 14" built to 1/2"
IS: nr
FF: n/low"
FS:
Total Rec: 10' M
FP: 34-36 FSP: 36-39
SP: 981 FSP: 882
APR: 2331 HFP: 2301

Operator Cobalt, Well Name/No Mac Family #1-34, Legal Desc 853 FNL 1868' FEL 34-1SS-34W, DC's (# & Size) 18 6 1/4, Drill Pipe Jts, Liner & Stroke, Spud, Spud Date, Current Activity, Bit Wt, RPM, Pressure, SPM, Accum Mud Cost, Viscosity, Water Loss, Chlorides, L.G.M. & P.H., Dev. Surc., Weather, No, Size, Mfg, Type, XRCPS, Out, CkDate, Hrs, P-R, Hrs, Rate, Serial #, Anhydrite, Tally, Cement Material, Plug Down, Drilled Out, Remarks, Surfacing Casing, Logging Co



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S Belmont #12
Wichita, KS 67208

ATTN: Larry Nicholson

Mac Family #1-34

34-15s-34w Logan,KS

Start Date: 2022.06.26 @ 09:46:31

End Date: 2022.06.26 @ 19:50:01

Job Ticket #: 67984 DST #: 1

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

Printed: 2022.06.29 @ 12:08:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

34-15s-34w Logan,KS

115 S Belmont #12
Wichita, KS 67208

Mac Family #1-34

ATTN: Larry Nicholson

Job Ticket: 67984

DST#: 1

Test Start: 2022.06.26 @ 09:46:31

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:01

Time Test Ended: 19:50:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4302.00 ft (KB) To 4350.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4350.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 170.78 psig @ 4307.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.26

End Date:

2022.06.26

Last Calib.:

2022.06.26

Start Time: 09:46:36

End Time:

19:50:01

Time On Btm:

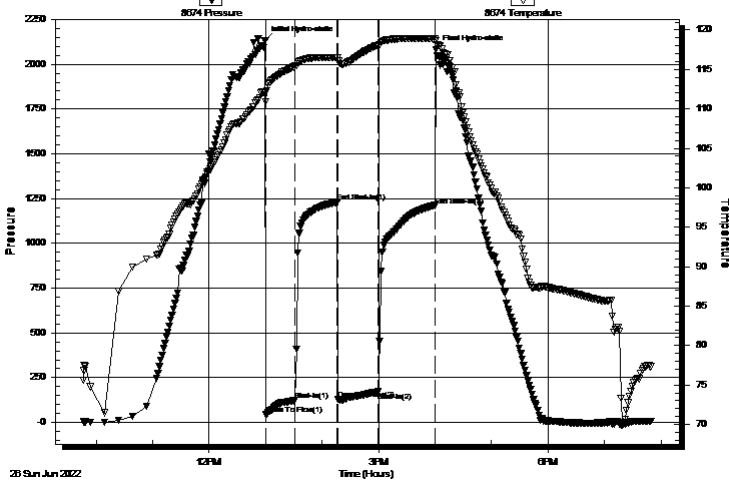
2022.06.26 @ 12:59:31

Time Off Btm:

2022.06.26 @ 16:01:01

TEST COMMENT: IF: BOB in 23 mins. 13 1/2"
IS: Surface blow built to 1"
FF: BOB in 24 mins. 16 3/4"
FS: Surface blow built to 5 3/4" 30-45-45-60

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2133.03 | 112.22 | Initial Hydro-static |
| 1 | 43.50 | 110.88 | Open To Flow (1) |
| 32 | 124.35 | 115.40 | Shut-In(1) |
| 77 | 1231.20 | 116.54 | End Shut-In(1) |
| 77 | 128.78 | 116.10 | Open To Flow (2) |
| 120 | 170.78 | 118.06 | Shut-In(2) |
| 180 | 1211.82 | 118.86 | End Shut-In(2) |
| 182 | 2080.35 | 118.64 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 62.00 | gocm 20%g 20%o 60%m | 0.30 |
| 124.00 | mco 10%g 60%o 30%m | 0.66 |
| 186.00 | go 30%g 70%o | 2.61 |
| 0.00 | 441 GIP | 0.00 |
| | | |
| | | |

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

34-15s-34w Logan,KS

115 S Belmont #12
Wichita, KS 67208

Mac Family #1-34

Job Ticket: 67984

DST#: 1

ATTN: Larry Nicholson

Test Start: 2022.06.26 @ 09:46:31

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:01

Time Test Ended: 19:50:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4302.00 ft (KB) To 4350.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4350.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8790 Inside

Press@RunDepth: psig @ 4307.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.26 End Date: 2022.06.26

Last Calib.: 2022.06.26

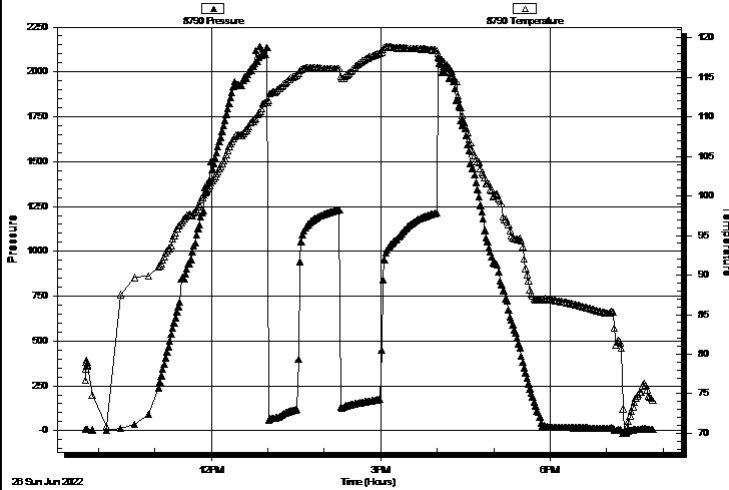
Start Time: 09:46:27 End Time: 19:49:52

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 23 mins. 13 1/2"
IS: Surface blow built to 1"
FF: BOB in 24 mins. 16 3/4"
FS: Surface blow built to 5 3/4" 30-45-45-60

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 62.00 | gocm 20%g 20%o 60%m | 0.30 |
| 124.00 | mco 10%g 60%o 30%m | 0.66 |
| 186.00 | go 30%g 70%o | 2.61 |
| 0.00 | 441 GIP | 0.00 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

34-15s-34w Logan,KS

115 S Belmont #12
Wichita, KS 67208

Mac Family #1-34

Job Ticket: 67984

DST#: 1

ATTN: Larry Nicholson

Test Start: 2022.06.26 @ 09:46:31

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4122.00 ft | Diameter: 3.80 inches | Volume: 57.82 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 30000.00 lb |
| Drill Collar: | Length: 180.00 ft | Diameter: 2.25 inches | Volume: 0.89 bbl | Weight to Pull Loose: 70000.00 lb |
| | | | <u>Total Volume: 58.71 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 25.00 ft | | | String Weight: Initial 60000.00 lb |
| Depth to Top Packer: | 4302.00 ft | | | Final 64000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 52.00 ft | | | |
| Tool Length: | 77.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

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

| | | | | | |
|---------------------------|--------------|------|---------|---------|----------------------------|
| Stubb | 1.00 | | Fluid | 4278.00 | |
| Shut In Tool | 5.00 | | | 4283.00 | |
| Hydraulic tool | 5.00 | | | 4288.00 | |
| Jars | 5.00 | | | 4293.00 | |
| EM Tool | 2.00 | | | 4295.00 | |
| Safety Joint | 2.00 | | | 4297.00 | |
| Packer | 5.00 | | | 4302.00 | 25.00 Bottom Of Top Packer |
| Packer - Shale | 4.00 | | | 4306.00 | |
| Stubb | 1.00 | | | 4307.00 | |
| Recorder | 0.00 | 8790 | Inside | 4307.00 | |
| Recorder | 0.00 | 8674 | Outside | 4307.00 | |
| Perforations | 10.00 | | | 4317.00 | |
| Change Over Sub | 1.00 | | | 4318.00 | |
| Drill Pipe | 32.00 | | | 4350.00 | |
| Change Over Sub | 1.00 | | | 4351.00 | |
| Bullnose | 3.00 | | | 4354.00 | 52.00 Anchor Tool |
| Total Tool Length: | 77.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

34-15s-34w Logan,KS

115 S Belmont #12
Wichita, KS 67208

Mac Family #1-34

Job Ticket: 67984

DST#: 1

ATTN: Larry Nicholson

Test Start: 2022.06.26 @ 09:46:31

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:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 62.00 | gocm 20%g 20%o 60%m | 0.305 |
| 124.00 | mcgo 10%g 60%o 30%m | 0.664 |
| 186.00 | go 30%g 70%o | 2.609 |
| 0.00 | 441 GIP | 0.000 |

Total Length: 372.00 ft

Total Volume: 3.578 bbl

Num Fluid Samples: 0

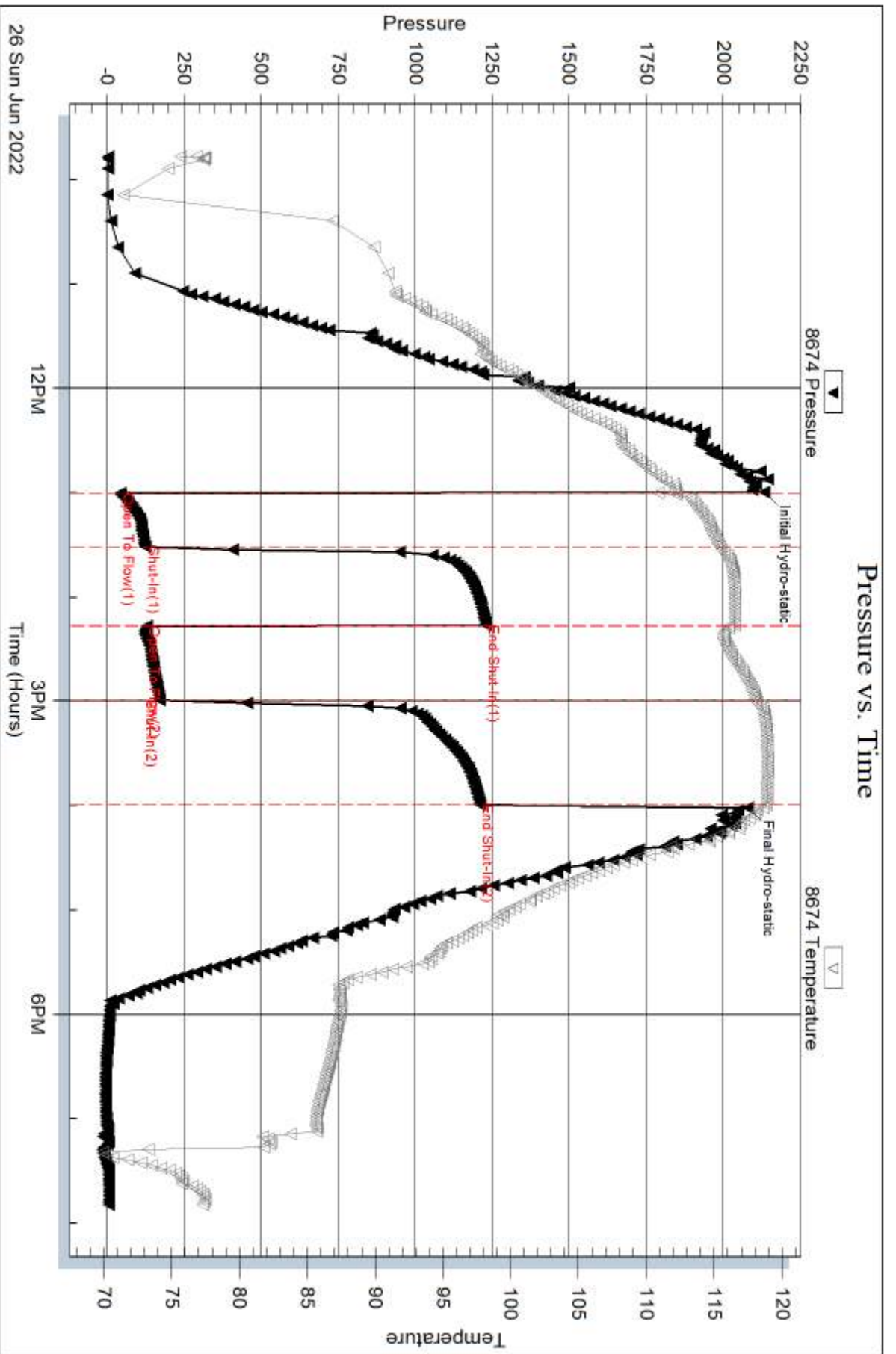
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 28@70=27



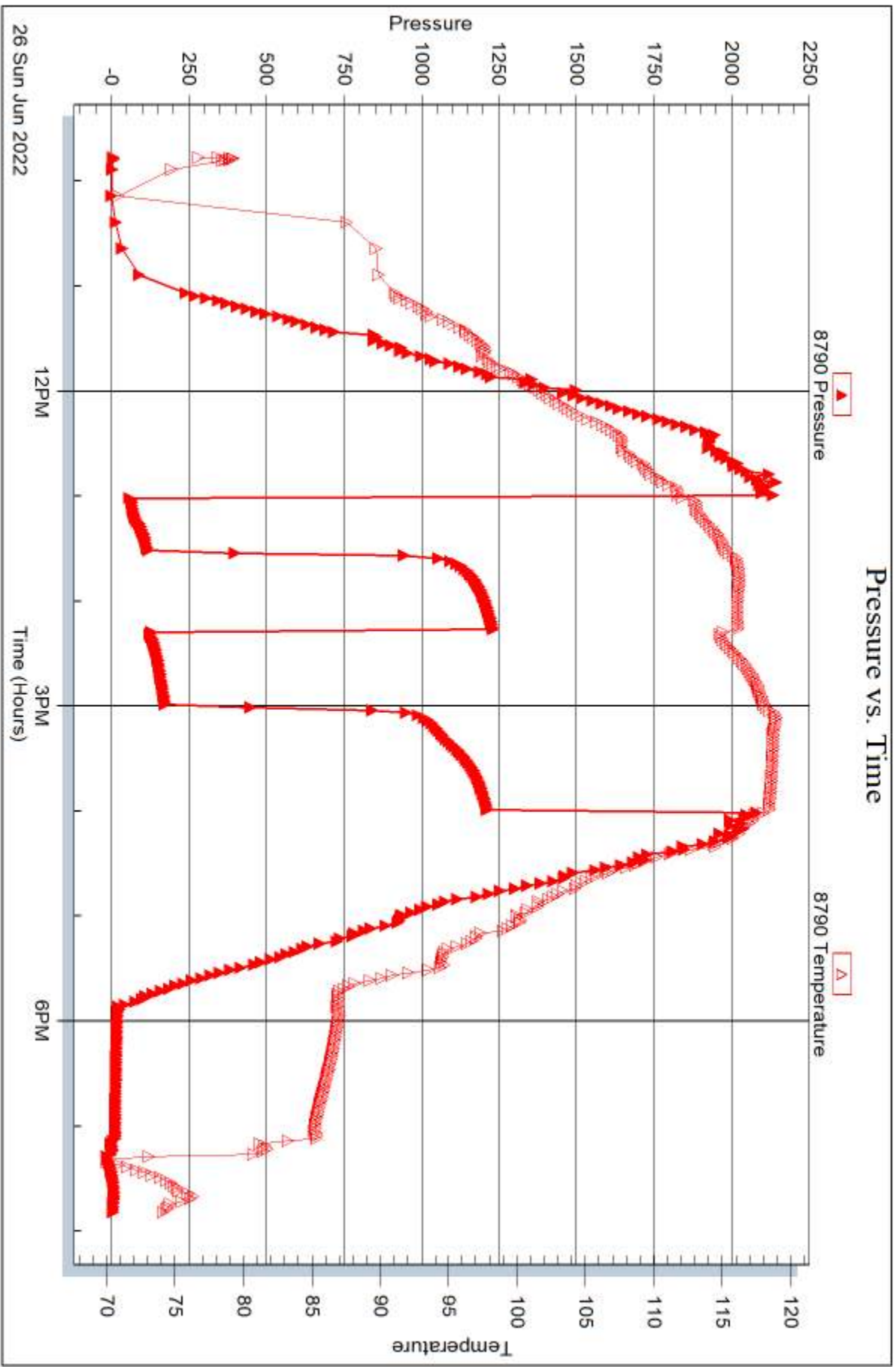
Serial #: 8790

Inside

Cobalt Energy LLC

Mac Family #1-34

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67984

Printed: 2022.06.29 @ 12:08:08



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

115 S Belmont #12
Wichita, KS 67208

ATTN: Larry Nicholson

Mac Family #1-34

34-15s-34w Logan,KS

Start Date: 2022.06.27 @ 18:25:12

End Date: 2022.06.28 @ 02:56:12

Job Ticket #: 67985 DST #: 2

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

Printed: 2022.06.29 @ 12:06:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

34-15s-34w Logan,KS

115 S Belmont #12
Wichita, KS 67208

Mac Family #1-34

Job Ticket: 67985

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.06.27 @ 18:25:12

GENERAL INFORMATION:

Formation: **Cherokee Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:25:42

Time Test Ended: 02:56:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4464.00 ft (KB) To 4553.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4553.00 ft (KB) (TVD)

2977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 39.79 psig @ 4469.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.06.27 End Date: 2022.06.28

Last Calib.: 2022.06.28

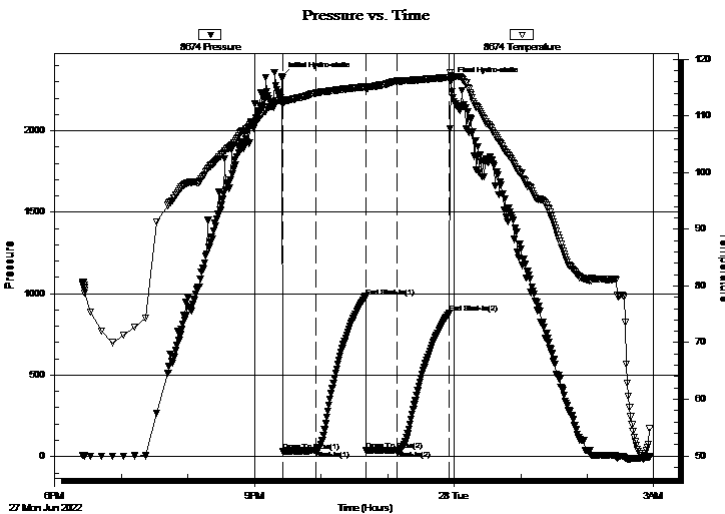
Start Time: 18:25:17 End Time: 02:56:11

Time On Btm: 2022.06.27 @ 21:24:42

Time Off Btm: 2022.06.27 @ 23:57:12

TEST COMMENT: IF: 1/4" blow built to 1/2"
IS: No return.
FF: No blow.
FS: No return. 30-45-30-45

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2331.31 | 112.93 | Initial Hydro-static |
| 1 | 34.05 | 112.05 | Open To Flow (1) |
| 31 | 36.52 | 114.05 | Shut-In(1) |
| 76 | 981.99 | 115.18 | End Shut-In(1) |
| 76 | 36.43 | 114.85 | Open To Flow (2) |
| 104 | 39.79 | 116.19 | Shut-In(2) |
| 151 | 882.73 | 116.82 | End Shut-In(2) |
| 153 | 2301.46 | 117.12 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00 | mud 10%m | 0.05 |
| | | |
| | | |
| | | |
| | | |

* 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

34-15s-34w Logan,KS

115 S Belmont #12
Wichita, KS 67208

Mac Family #1-34

Job Ticket: 67985

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.06.27 @ 18:25:12

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 4277.00 ft | Diameter: 3.80 inches | Volume: 60.00 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 30000.00 lb |
| Drill Collar: | Length: 180.00 ft | Diameter: 2.25 inches | Volume: 0.89 bbl | Weight to Pull Loose: | 70000.00 lb |
| | | | <u>Total Volume: 60.89 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 18.00 ft | | | String Weight: Initial | 60000.00 lb |
| Depth to Top Packer: | 4464.00 ft | | | Final | 60000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 93.00 ft | | | | |
| Tool Length: | 118.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|---------------|------------|----------|------------|----------------------------|
| Stubb | 1.00 | | Fluid | 4440.00 | |
| Shut In Tool | 5.00 | | | 4445.00 | |
| Hydraulic tool | 5.00 | | | 4450.00 | |
| Jars | 5.00 | | | 4455.00 | |
| EM Tool | 2.00 | | | 4457.00 | |
| Safety Joint | 2.00 | | | 4459.00 | |
| Packer | 5.00 | | | 4464.00 | 25.00 Bottom Of Top Packer |
| Packer - Shale | 4.00 | | | 4468.00 | |
| Stubb | 1.00 | | | 4469.00 | |
| Recorder | 0.00 | 8790 | Inside | 4469.00 | |
| Recorder | 0.00 | 8674 | Outside | 4469.00 | |
| Perforations | 20.00 | | | 4489.00 | |
| Change Over Sub | 1.00 | | | 4490.00 | |
| Drill Pipe | 63.00 | | | 4553.00 | |
| Change Over Sub | 1.00 | | | 4554.00 | |
| Bullnose | 3.00 | | | 4557.00 | 93.00 Anchor Tool |
| Total Tool Length: | 118.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

34-15s-34w Logan,KS

115 S Belmont #12
Wichita, KS 67208

Mac Family #1-34

Job Ticket: 67985

DST#: 2

ATTN: Larry Nicholson

Test Start: 2022.06.27 @ 18:25:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 10.00 | mud 10%m | 0.049 |

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

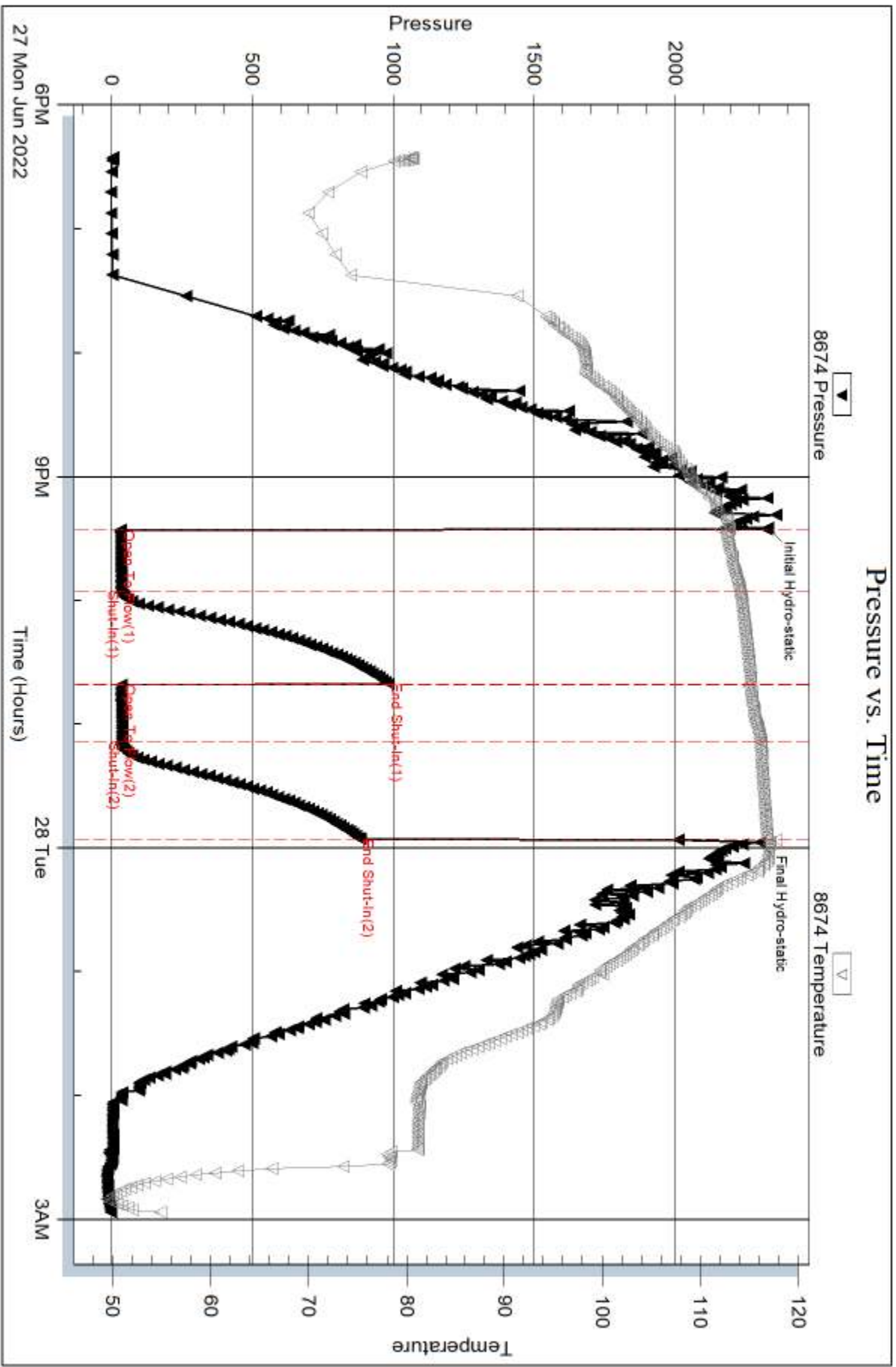
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



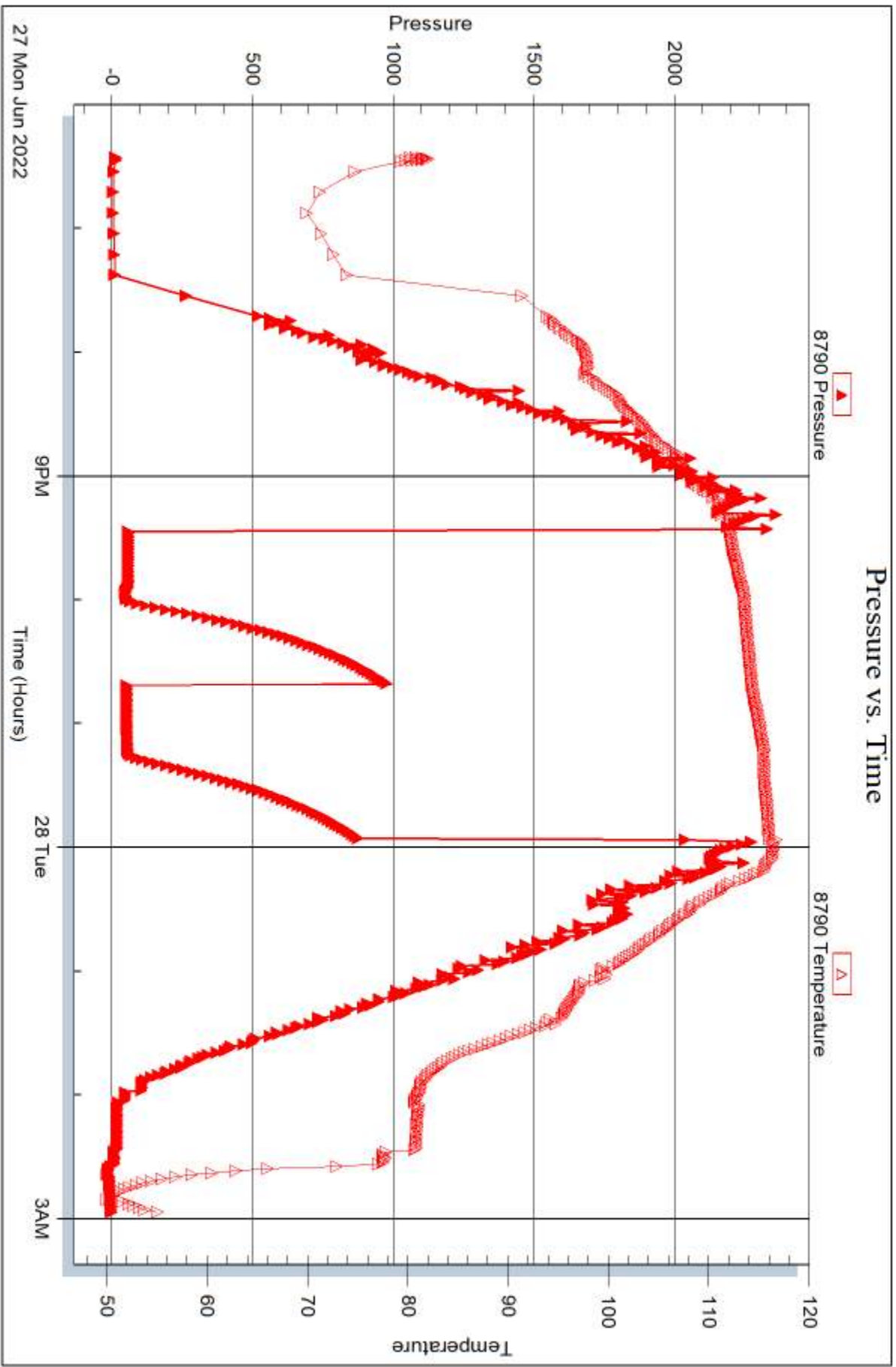
Serial #: 8790

Inside

Cobalt Energy LLC

Mac Family #1-34

DST Test Number: 2





TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67984

Well Name & No. Mac Family 1-34 Test No. 1 Date 6-26-22
 Company Lobelt Energy LLC Elevation 2987 KB 2977 GL
 Address 115 S Belmont #12 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin 22
 Location: Sec. 34 Twp 15 Rge. 34 Co. Logan State KS

Interval Tested 4302 4350 Zone Tested Marmaton
 Anchor Length 48 Drill Pipe Run 4122 Mud Wt. 9.3
 Top Packer Depth 4297 Drill Collars Run 180 Vis 59
 Bottom Packer Depth 4302 Wt. Pipe Run — WL 8.0
 Total Depth 4350 Chlorides 4000 ppm System LCM 2

Blow Description IF: BoB in 23 mins. 13 1/2
IS: surface blow built to 1.
FD: BoB in 24 mins. 16 3/4
FS: surface blow built to 5 3/4.

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|-------------|-----------|-----------|-----------|------|
| <u>186</u> | <u>90</u> | <u>30</u> | <u>70</u> | | |
| <u>124</u> | <u>MC90</u> | <u>10</u> | <u>60</u> | <u>30</u> | |
| <u>62</u> | <u>90CM</u> | <u>20</u> | <u>20</u> | <u>60</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

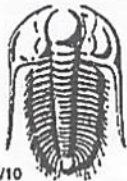
Rec Total 372 BHT 118 Gravity 27 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2133 Test 1950 T-On Location 7:45
 (B) First Initial Flow 43 Jars 300 T-Started 9:46
 (C) First Final Flow 124 Safety Joint — T-Open 13:00
 (D) Initial Shut-In 1231 Circ Sub NIC T-Pulled 16:00
 (E) Second Initial Flow 128 Hourly Standby 1h 100 T-Out 20:00
 (F) Second Final Flow 170 Mileage 70 - 105 Comments —
 (G) Final Shut-In 1211 Sampler —
 (H) Final Hydrostatic 2080 Straddle —

Initial Open 30 Shale Packer 250 EM Tool —
 Initial Shut-In 45 Extra Packer — Ruined Shale Packer —
 Final Flow 30 45 Extra Recorder — Ruined Packer —
 Final Shut-In 60 Day Standby — Extra Copies —
 Sub Total 2705 Accessibility — Sub Total 0
 Total 2705 MP/DST Disc't —

Approved By _____ Our Representative _____

Tribolite 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. 67985

Well Name & No. Mac Family 1-34 Test No. 2 Date 6-27-22
 Company Cobalt Energy LLC Elevation 2987 KB 2977 GL
 Address _____
 Co. Rep / Geo. Larry Nicholson Rig Murfin 22
 Location: Sec. 34 Twp 15 Rge. 34 Co. Logan State KJ

Interval Tested 4464 4553 Zone Tested Cherokee - Johnson
 Anchor Length 89 Drill Pipe Run 4277 Mud Wt. 9.2
 Top Packer Depth 4459 Drill Collars Run 180 Vis 63
 Bottom Packer Depth 4464 Wt. Pipe Run _____ WL 8.8
 Total Depth 4553 Chlorides 5400 ppm System LCM 4

Blow Description IF: 1/4 blow built to 1/2.
ES: No return.
FK: No blow
FS: No return.

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------|------|------|------------|------|
| <u>10</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 Total 10 BHT 116 Gravity _____ API RW _____ @ _____ F Chlorides _____ ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2331</u> | <input checked="" type="checkbox"/> Test 1950 | T-On Location <u>16:50</u> |
| (B) First Initial Flow <u>34</u> | <input checked="" type="checkbox"/> Jars 300 | T-Started <u>18:25</u> |
| (C) First Final Flow <u>36</u> | <input checked="" type="checkbox"/> Safety Joint <u>NIL</u> | T-Open <u>21:26</u> |
| (D) Initial Shut-In <u>981</u> | <input checked="" type="checkbox"/> Circ Sub <u>70-x2</u> | T-Pulled <u>23:56</u> |
| (E) Second Initial Flow <u>36</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>2:56</u> |
| (F) Second Final Flow <u>39</u> | <input checked="" type="checkbox"/> Mileage 210 | Comments _____ |
| (G) Final Shut-In <u>882</u> | <input type="checkbox"/> Sampler _____ | <u>loaded tools 6/28 19:45</u> |
| (H) Final Hydrostatic <u>2301</u> | <input type="checkbox"/> Straddle _____ | <input checked="" type="checkbox"/> EM Tool _____ |
| Initial Open <u>30</u> | <input checked="" type="checkbox"/> Shale Packer 250 | <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>0</u> |
| | <input type="checkbox"/> Accessibility _____ | Total <u>2710</u> |
| | Sub Total <u>2710</u> | 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.



CEMENT TREATMENT REPORT

| | | |
|-------------------------|-------------------------|----------------------|
| Customer: Cobalt Energy | Well: Mac Family # 1-34 | Ticket: WP-3014 |
| City, State: Pence KS | County: Logan KS | Date: 6/29/2022 |
| Field Rep: Dalton Popp | S-T-R: 34-15S-34W | Service: Long string |

| | |
|-----------------------------|-------------|
| Downhole Information | |
| Hole Size: | 7 7/8 in |
| Hole Depth: | 4703 ft |
| Casing Size: | 5 1/2 in |
| Casing Depth: | 4691 ft |
| Tubing / Liner: | in |
| Depth: | ft |
| Tool / Packer: | |
| Tool Depth: | ft |
| Displacement: | 113.4 bbbls |

| | |
|---------------------------------|---------------------------|
| Calculated Slurry - Lead | |
| Blend: | H-Con |
| Weight: | 12.0 ppg |
| Water / Sx: | 15.5 gal / sx |
| Yield: | 2.56 ft ³ / sx |
| Annular Bbbls / Ft.: | 0.0406 bbs / ft. |
| Depth: | 4691 ft |
| Annular Volume: | 190.5 bbbls |
| Excess: | |
| Total Slurry: | 216.6 bbbls |
| Total Sacks: | 475 sx |

| | |
|---------------------------------|---------------------------|
| Calculated Slurry - Tail | |
| Blend: | H-LD |
| Weight: | 14.8 ppg |
| Water / Sx: | 6.5 gal / sx |
| Yield: | 1.54 ft ³ / sx |
| Annular Bbbls / Ft.: | 0.0406 bbs / ft. |
| Depth: | 4691 ft |
| Annular Volume: | 190.5 bbbls |
| Excess: | |
| Total Slurry: | 54.8 bbbls |
| Total Sacks: | 200 sx |

| TIME | RATE | PSI | BBLs | TOTAL BBLs | REMARKS |
|--------|------|---------|-------|------------|---|
| 11:40p | | | - | - | Arrival |
| 11:45p | | | | - | Safety meeting |
| 11:50p | | | | - | Run float equipment |
| 2:35a | | | | - | Rig up |
| 2:55a | | 1,000.0 | | - | Drop ball |
| 2:57a | | | | - | Circulate hole for 1 hour with rig |
| 4:05a | 5.1 | 290.0 | 5.0 | 5.0 | H2O ahead |
| 4:07a | 5.1 | 290.0 | 12.0 | 17.0 | Mixed 500 gallons of mud flush |
| 4:10a | 5.1 | 280.0 | 5.0 | 22.0 | H2O behide |
| 4:14a | 7.1 | 580.0 | 216.6 | 238.6 | Mixed 425 sks of H-Con @ 12 ppg @ 4691' |
| 4:20a | 7.1 | 600.0 | 13.6 | 252.2 | Mixed 30 sks of H-Con @ 12 ppg @ Rat hole |
| 4:26a | 7.1 | 600.0 | 9.1 | | Mixed 20 sks of H-Con @ 12 ppg @ Mouse hole |
| 4:53a | 5.0 | 460.0 | 54.8 | | Mixed 200 sks of H-LD @ 14.8 ppg @ 4691' |
| 5:10a | | | | | Shut down washed pump and lines |
| 5:11a | | | | | Dropped plug |
| 5:15a | 6.6 | 400.0 | 113.6 | | Displaced H2O |
| 5:30a | 3.0 | 2,350.0 | 113.6 | | Landed plug |
| 5:30a | | | | | Plug down |
| 5:33a | | | | | Wash up pump and lines |
| 5:40a | | | | | Rig down |
| 6:25a | | | | | Depart location |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | Circulated 20 sks to pit |
| | | | | | |
| | | | | | |

| CREW | | UNIT | SUMMARY | | |
|----------------|---------|---------|--------------|------------------|-------------|
| Cementer: | Jesse | 78 | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | Michael | 230 | 5.7 bpm | 685 psi | 543 bbbls |
| Bulk #1: | Charles | 242 | | | |
| Bulk #2: | Spencer | 180-530 | | | |