

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

D6 Unit #1-34

34-4S-37W Cheyenne,KS

Start Date: 2021.11.10 @ 02:07:00

End Date: 2021.11.10 @ 10:18:39

Job Ticket #: 68358 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.15 @ 15:46:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

34-4S-37W Cheyenne,KS

PO Box 8037
Wichita, KS 67208

D6 Unit #1-34

Job Ticket: 68358

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.11.10 @ 02:07:00

GENERAL INFORMATION:

Formation: **LKC " A - C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:43:10

Time Test Ended: 10:18:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 81

Interval: 4199.00 ft (KB) To 4249.00 ft (KB) (TVD)

Reference Elevations: 3346.00 ft (KB)

Total Depth: 4249.00 ft (KB) (TVD)

3341.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press@RunDepth: 137.11 psig @ 4200.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.10 End Date: 2021.11.10

Last Calib.: 2021.11.10

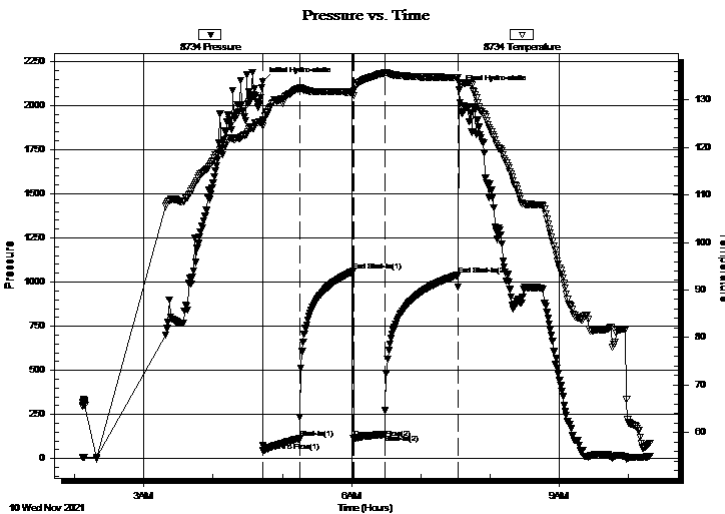
Start Time: 02:07:01 End Time: 10:18:40

Time On Btm: 2021.11.10 @ 04:42:50

Time Off Btm: 2021.11.10 @ 07:33:00

TEST COMMENT: 30-IF-Blow built to 6"
45-ISI-No return
30-FF-Blow built to 3 1/4"
60-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.05	125.66	Initial Hydro-static
1	43.14	124.96	Open To Flow (1)
32	112.32	132.39	Shut-In(1)
79	1060.53	131.51	End Shut-In(1)
79	112.33	130.88	Open To Flow (2)
106	137.11	135.65	Shut-In(2)
170	1039.85	134.69	End Shut-In(2)
171	2087.78	133.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OSHM CW 2%O, 32%M, 66%W	0.59
118.00	OSWCM 3%O, 27%W, 70%M	1.13
2.00	CO 100%O	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

34-4S-37W Cheyenne,KS

PO Box 8037
Wichita, KS 67208

D6 Unit #1-34

Job Ticket: 68358

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.11.10 @ 02:07:00

Tool Information

Drill Pipe:	Length: 4012.00 ft	Diameter: 3.80 inches	Volume: 56.28 bbl	Tool Weight: 2500.00 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: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 57.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4199.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4172.00	
Hydraulic tool	5.00	1018		4177.00	
Jars	5.00	01-07		4182.00	
EM Tool	4.00			4186.00	
Safety Joint	3.00	-001		4189.00	
Packer	5.00			4194.00	32.00 Bottom Of Top Packer
Packer	5.00			4199.00	
Stubb	1.00			4200.00	
Recorder	0.00	8959	Inside	4200.00	
Recorder	0.00	8734	Outside	4200.00	
Perforations	10.00			4210.00	
Change Over Sub	1.00			4211.00	
Drill Pipe	32.00			4243.00	
Change Over Sub	1.00			4244.00	
Bullnose	5.00			4249.00	50.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

34-4S-37W Cheyenne,KS

PO Box 8037
Wichita, KS 67208

D6 Unit #1-34

Job Ticket: 68358

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.11.10 @ 02:07:00

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:

10000 ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 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 bbbl
120.00	OSHMCW 2%O, 32%M, 66%W	0.590
118.00	OSWCM 3%O, 27%W, 70%M	1.127
2.00	CO 100%O	0.028

Total Length: 240.00 ft Total Volume: 1.745 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

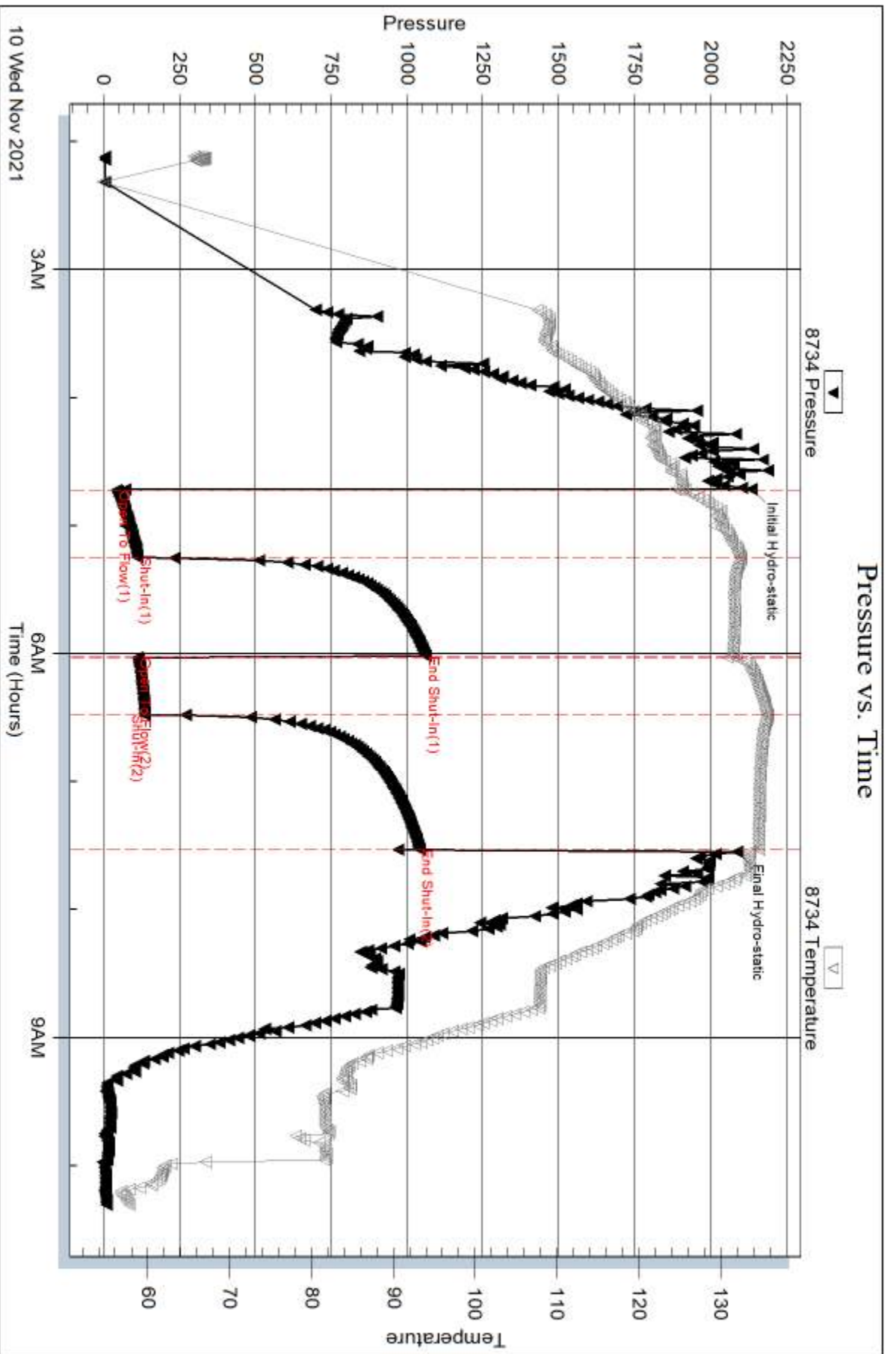
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .91 @ 51.5 = 10,000 PPM

Oil too heavy to catch gravity



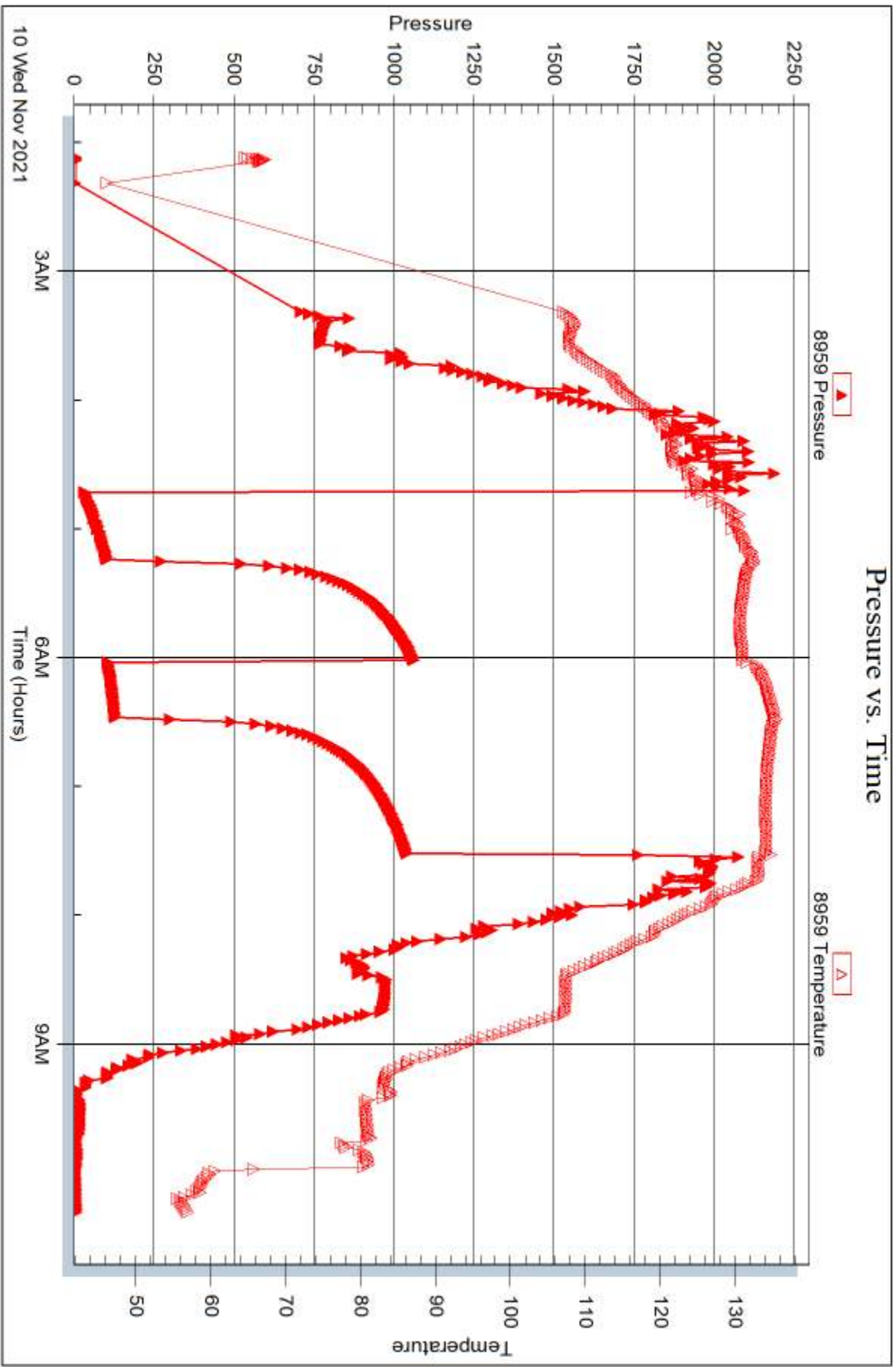
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Inside

Cobalt Energy LLC

D6 Unit #1-34

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

D6 Unit #1-34

34-4S-37W Cheyenne,KS

Start Date: 2021.11.11 @ 00:45:00

End Date: 2021.11.11 @ 09:18:10

Job Ticket #: 68360 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.15 @ 15:44:44



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

34-4S-37W Cheyenne, KS

PO Box 8037
Wichita, KS 67208

D6 Unit #1-34

Job Ticket: 68360

DST#: 2

ATTN: Larry Nicholson

Test Start: 2021.11.11 @ 00:45:00

GENERAL INFORMATION:

Formation: **LKC "H & J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:26:00

Time Test Ended: 09:18:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: 4319.00 ft (KB) To 4405.00 ft (KB) (TVD)

Reference Elevations: 3346.00 ft (KB)

Total Depth: 4405.00 ft (KB) (TVD)

3341.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press@RunDepth: 57.31 psig @ 4320.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.11

End Date:

2021.11.11

Last Calib.:

2021.11.11

Start Time: 00:45:01

End Time:

09:18:10

Time On Btm:

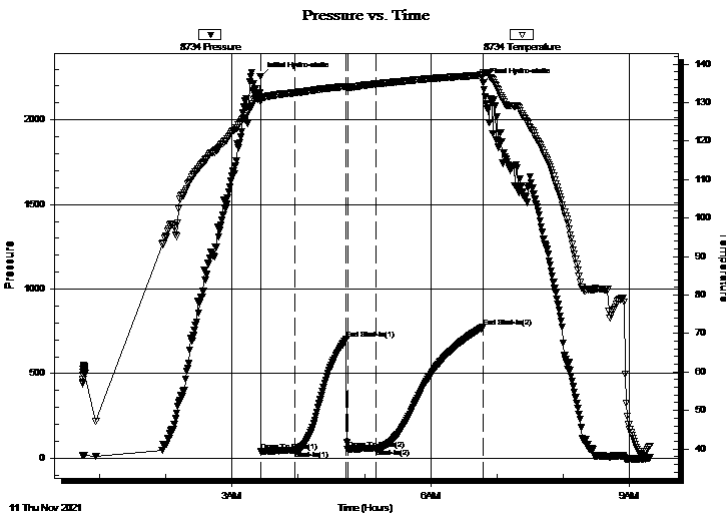
2021.11.11 @ 03:25:50

Time Off Btm:

2021.11.11 @ 06:47:39

TEST COMMENT: 30-IF-S.blow built to 3"
45-ISI-No return
30-FF-blow built to 1 3/4"
90-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.26	131.28	Initial Hydro-static
1	39.17	130.29	Open To Flow (1)
32	46.72	132.58	Shut-In(1)
78	705.17	134.25	End Shut-In(1)
79	51.12	134.09	Open To Flow (2)
105	57.31	134.85	Shut-In(2)
202	774.93	137.18	End Shut-In(2)
202	2219.66	137.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMO 10%G, 45%M, 45%O	0.30
2.00	CO 100%O	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

34-4S-37W Cheyenne,KS

PO Box 8037
Wichita, KS 67208

D6 Unit #1-34

Job Ticket: 68360

DST#: 2

ATTN: Larry Nicholson

Test Start: 2021.11.11 @ 00:45:00

Tool Information

Drill Pipe:	Length: 4138.00 ft	Diameter: 3.80 inches	Volume: 58.05 bbl	Tool Weight: 2500.00 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: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 58.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4319.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 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
Shut In Tool	5.00			4292.00	
Hydraulic tool	5.00	1018		4297.00	
Jars	5.00	01-07		4302.00	
EM Tool	4.00			4306.00	
Safety Joint	3.00	-001		4309.00	
Packer	5.00			4314.00	32.00 Bottom Of Top Packer
Packer	5.00			4319.00	
Stubb	1.00			4320.00	
Recorder	0.00	8959	Inside	4320.00	
Recorder	0.00	8734	Outside	4320.00	
Perforations	14.00			4334.00	
Change Over Sub	1.00			4335.00	
Drill Pipe	64.00			4399.00	
Change Over Sub	1.00			4400.00	
Bullnose	5.00			4405.00	86.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

34-4S-37W Cheyenne,KS

PO Box 8037
Wichita, KS 67208

D6 Unit #1-34

Job Ticket: 68360

DST#: 2

ATTN: Larry Nicholson

Test Start: 2021.11.11 @ 00:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 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 bbbl
60.00	GMO 10%G, 45%M, 45%O	0.295
2.00	CO 100%O	0.010

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0

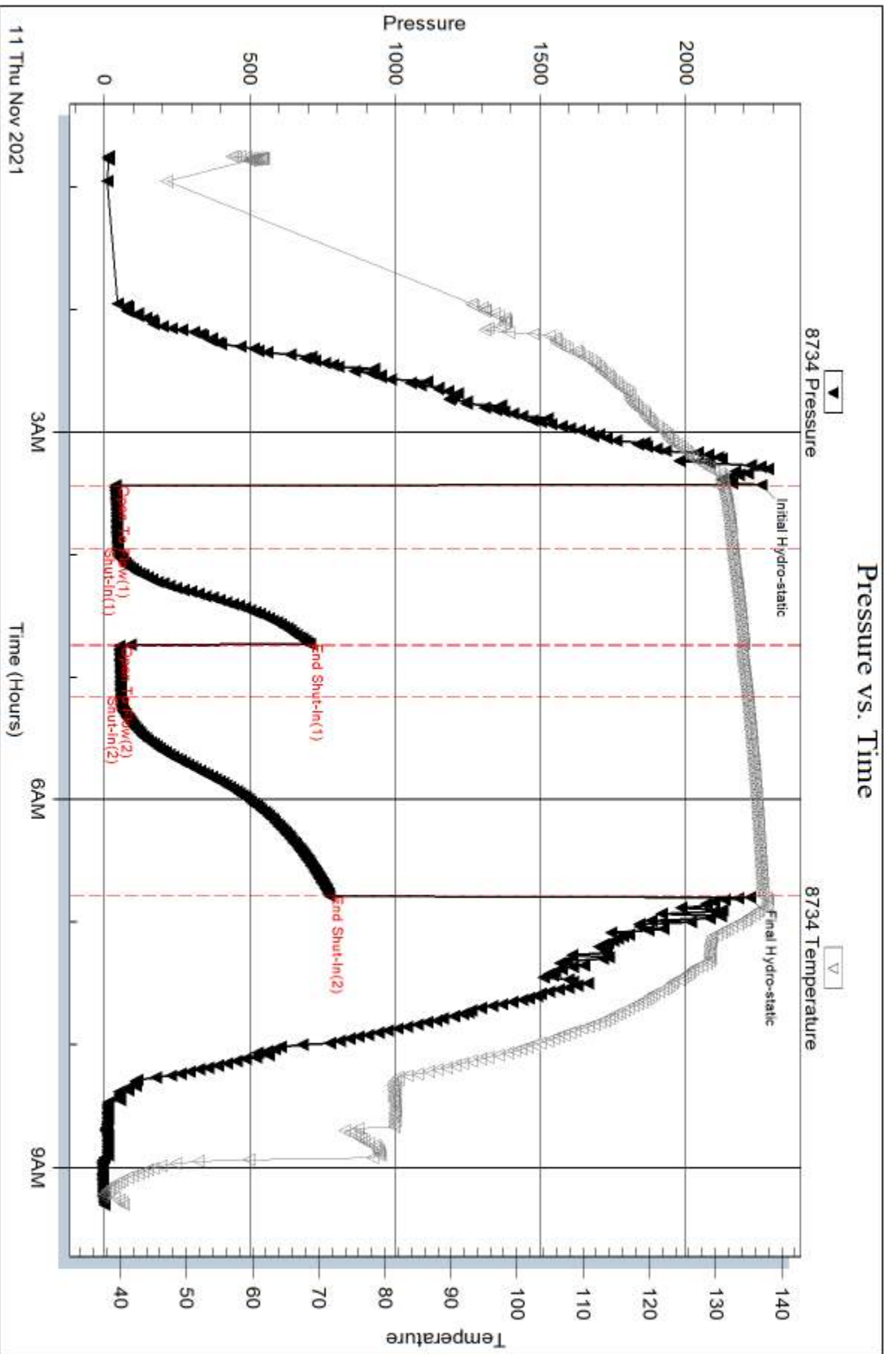
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 35.0 @ 38 degs corrected to 37.2 @ 60 degs



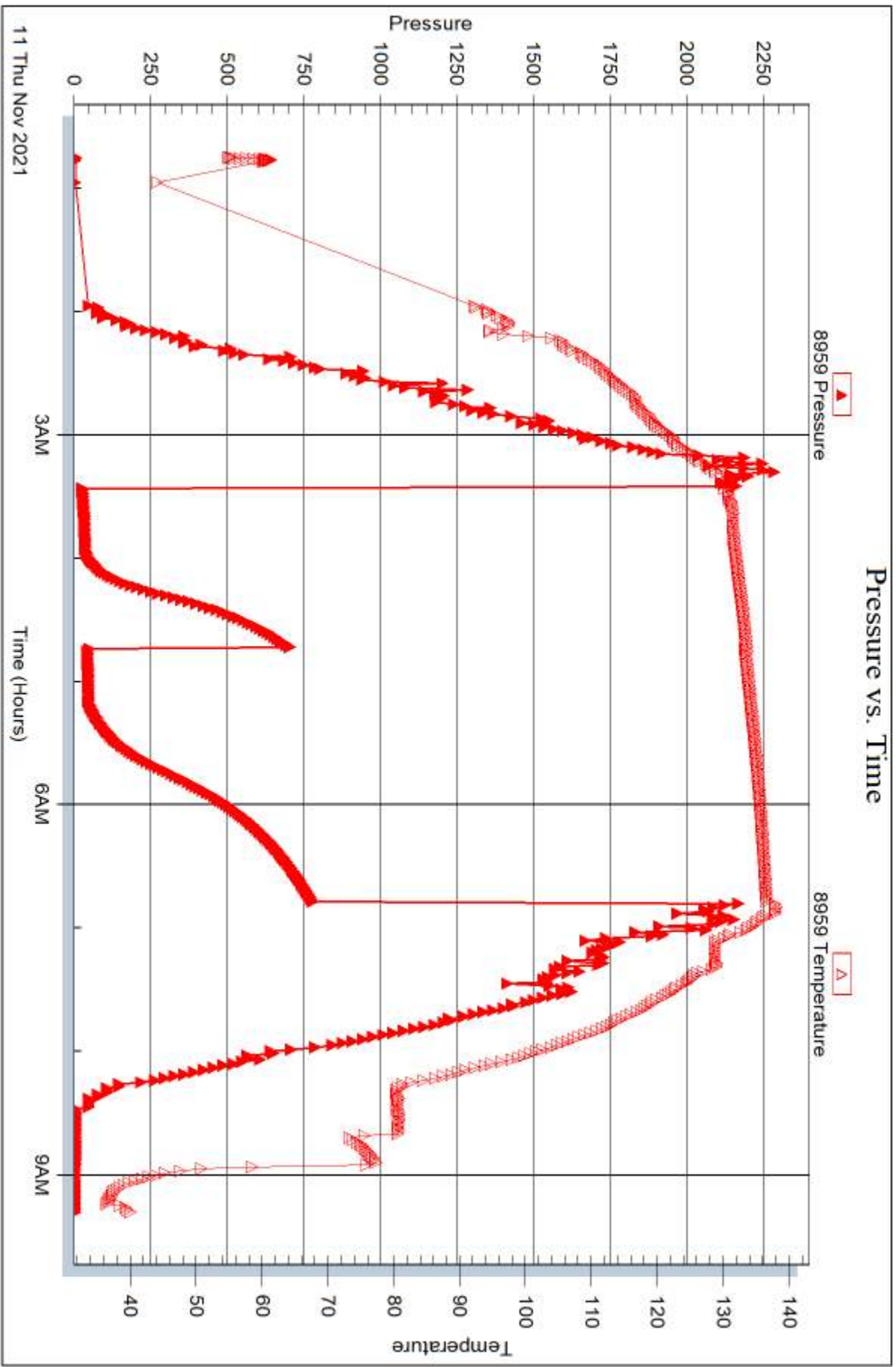
Serial #: 8959

Inside

Cobalt Energy LLC

D6 Unit #1-34

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68360

Printed: 2021.11.15 @ 15:44:45



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

D6 Unit #1-34

34-4S-37W Cheyenne,KS

Start Date: 2021.11.13 @ 21:21:00

End Date: 2021.11.14 @ 09:04:10

Job Ticket #: 68361 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.15 @ 15:43:39

Cobalt Energy LLC

34-4S-37W Cheyenne,KS

D6 Unit #1-34

DST # 3

Pawnee - Ft.Scott

2021.11.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

34-4S-37W Cheyenne,KS

PO Box 8037
Wichita, KS 67208

D6 Unit #1-34

Job Ticket: 68361

DST#: 3

ATTN: Larry Nicholson

Test Start: 2021.11.13 @ 21:21:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:05:20

Time Test Ended: 09:04:10

Test Type: Conventional Straddle (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: **4570.00 ft (KB) To 4660.00 ft (KB) (TVD)**

Total Depth: 5060.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3346.00 ft (KB)

3341.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press@RunDepth: 1261.53 psig @ 4574.00 ft (KB)

Start Date: 2021.11.13

End Date:

2021.11.14

Start Time: 21:21:01

End Time:

09:04:10

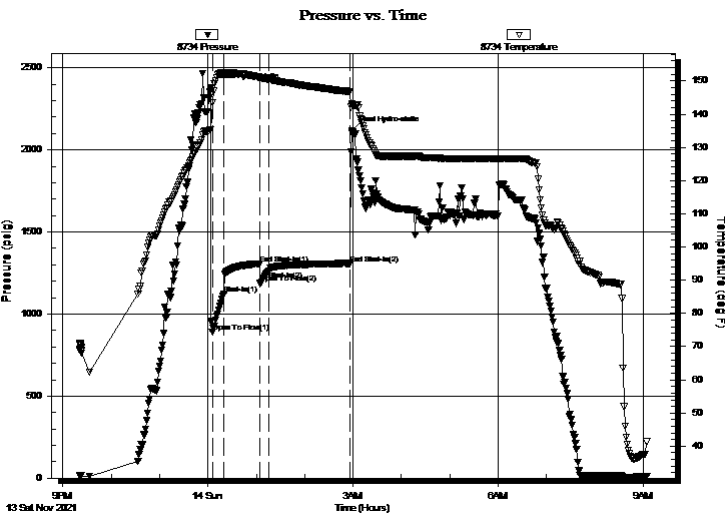
Capacity: 8000.00 psig

Last Calib.: 2021.11.14

Time On Btm: 2021.11.14 @ 00:03:30

Time Off Btm: 2021.11.14 @ 02:58:50

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 1 min (blow increased to 460 1/2")
45-ISI-B.O.B @ 2 mins (blow increased to 63 3/4" & reduced to 47 1/2")
15-FF-B.O.B @ 1 min (blow increased to 174 1/4")
90-FSI-B.O.B @ 2 mins (blow increased to 66 1/2" & reduced to 9")



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2381.49	135.29	Initial Hydro-static
2	891.30	143.42	Open To Flow (1)
17	1124.33	152.50	Shut-In(1)
61	1306.87	151.07	End Shut-In(1)
62	1188.92	150.99	Open To Flow (2)
73	1261.53	150.37	Shut-In(2)
173	1308.42	146.77	End Shut-In(2)
176	2118.98	142.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GSOCM 42%G, 8%O, 50%M	0.59
2965.00	REV CGO 0-18BBLs 29%G, 71%O	41.06
0.00	G.T.S. 1310' 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

34-4S-37W Cheyenne,KS

PO Box 8037
Wichita, KS 67208

D6 Unit #1-34

Job Ticket: 68361

DST#: 3

ATTN: Larry Nicholson

Test Start: 2021.11.13 @ 21:21:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:05:20

Time Test Ended: 09:04:10

Test Type: Conventional Straddle (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: 4570.00 ft (KB) To 4660.00 ft (KB) (TVD)

Total Depth: 5060.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3346.00 ft (KB)

3341.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8520 Below (Straddle)

Press@RunDepth: psig @ 4660.00 ft (KB)

Start Date: 2021.11.13

End Date:

2021.11.14

Start Time: 21:21:01

End Time:

09:04:10

Capacity: 8000.00 psig

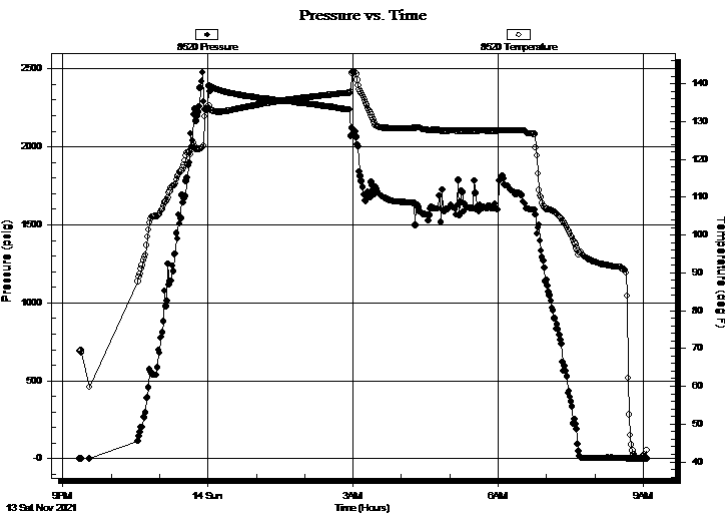
Last Calib.:

2021.11.14

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 1 min (blow increased to 460 1/2")
45-ISI-B.O.B @ 2 mins (blow increased to 63 3/4" & reduced to 47 1/2")
15-FF-B.O.B @ 1 min (blow increased to 174 1/4")
90-FSI-B.O.B @ 2 mins (blow increased to 66 1/2" & reduced to 9")



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GSOCM 42%G, 8%O, 50%M	0.59
2965.00	REV CGO 0-18BBLs 29%G,71%O	41.06
0.00	G.T.S. 1310' 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

34-4S-37W Cheyenne,KS

PO Box 8037
Wichita, KS 67208

D6 Unit #1-34

Job Ticket: 68361

DST#: 3

ATTN: Larry Nicholson

Test Start: 2021.11.13 @ 21:21:00

Tool Information

Drill Pipe:	Length: 4395.00 ft	Diameter: 3.80 inches	Volume: 61.65 bbl	Tool Weight: 3000.00 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: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 62.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4570.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	4655.00 ft			
Interval between Packers:	85.00 ft			
Tool Length:	521.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4543.00	
Hydraulic tool	5.00	1113		4548.00	
Jars	5.00	01-07		4553.00	
EM Tool	4.00			4557.00	
Safety Joint	3.00	-001		4560.00	
Packer	5.00			4565.00	32.00 Bottom Of Top Packer
Packer	5.00			4570.00	
Perforations	3.00			4573.00	
Change Over Sub	1.00			4574.00	
Recorder	0.00	8959	Inside	4574.00	
Recorder	0.00	8734	Outside	4574.00	
Drill Pipe	62.00			4636.00	
Change Over Sub	1.00			4637.00	
Perforations	17.00			4654.00	
Blank Off Sub	1.00			4655.00	85.00 Tool Interval
Packer	5.00			4660.00	
Packer - Shale	0.00			4660.00	
Recorder	0.00	8520	Below	4660.00	
Perforations	14.00			4674.00	
Change Over Sub	1.00			4675.00	
Drill Pipe	378.00			5053.00	
Change Over Sub	1.00			5054.00	
Bullnose	5.00			5059.00	404.00 Bottom Packers & Anchor
Total Tool Length:	521.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

34-4S-37W Cheyenne,KS

PO Box 8037
Wichita, KS 67208

D6 Unit #1-34

Job Ticket: 68361

DST#: 3

ATTN: Larry Nicholson

Test Start: 2021.11.13 @ 21:21:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 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
120.00	GSOCM 42%G, 8%O, 50%M	0.590
2965.00	REV CGO 0-18BBLS 29%G, 71%O	41.063
0.00	G.T.S. 1310' GIP	0.000

Total Length: 3085.00 ft Total Volume: 41.653 bbl

Num Fluid Samples: 0

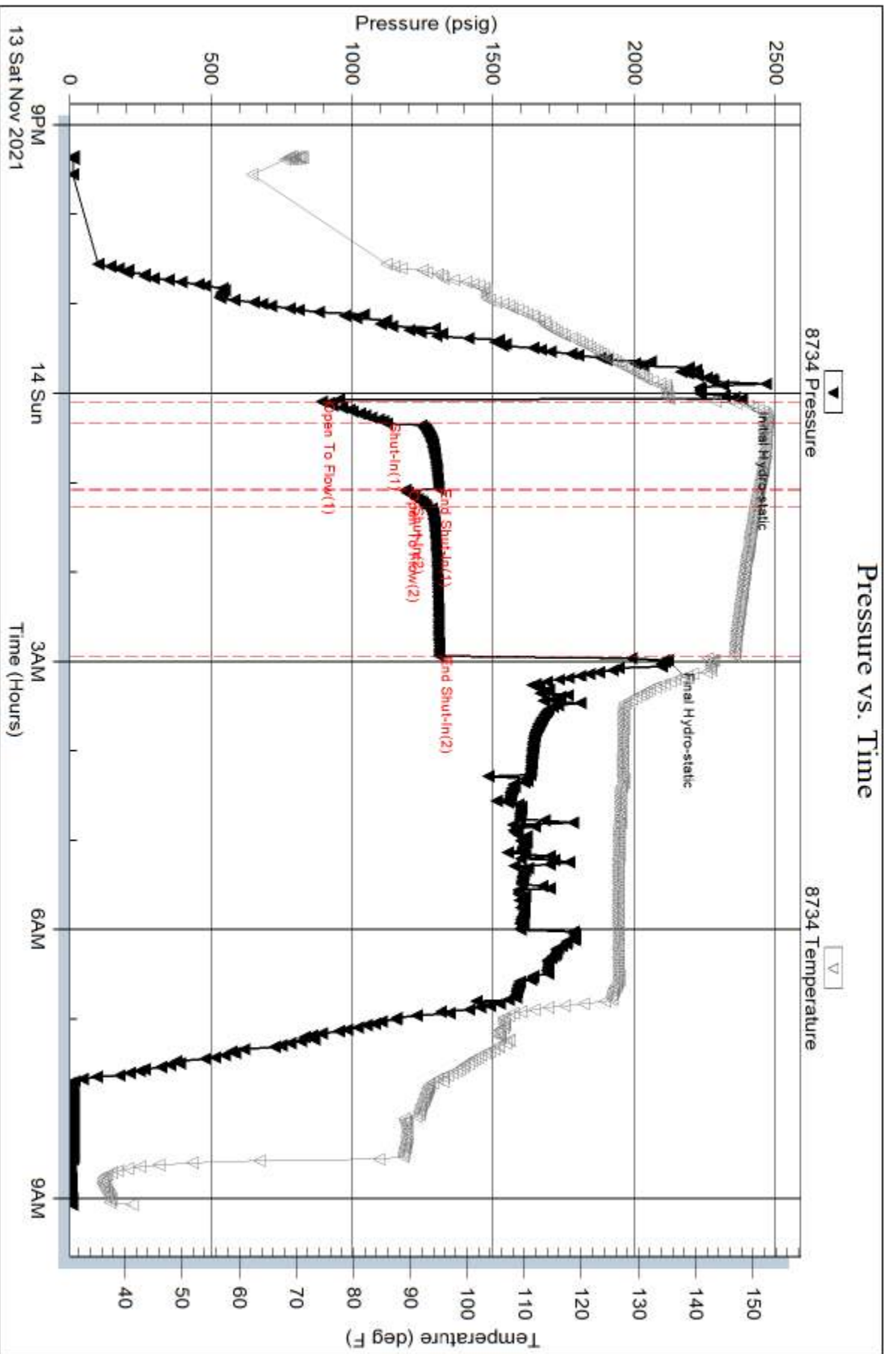
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil= 32.6 @ 38 degs corrected to 34.8 @ 60 degs
Reversed fluid for 75 mins



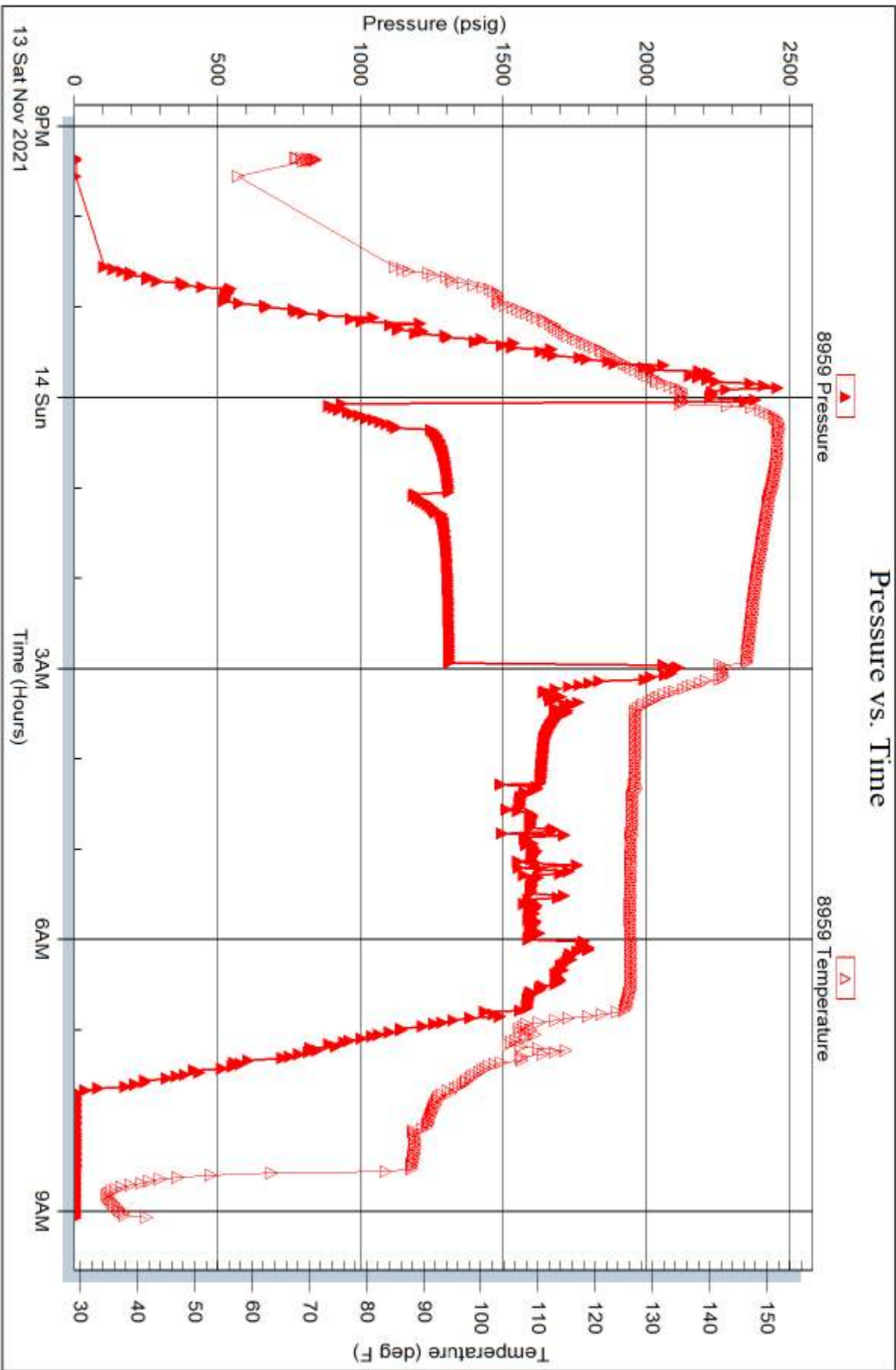
Serial #: 8959

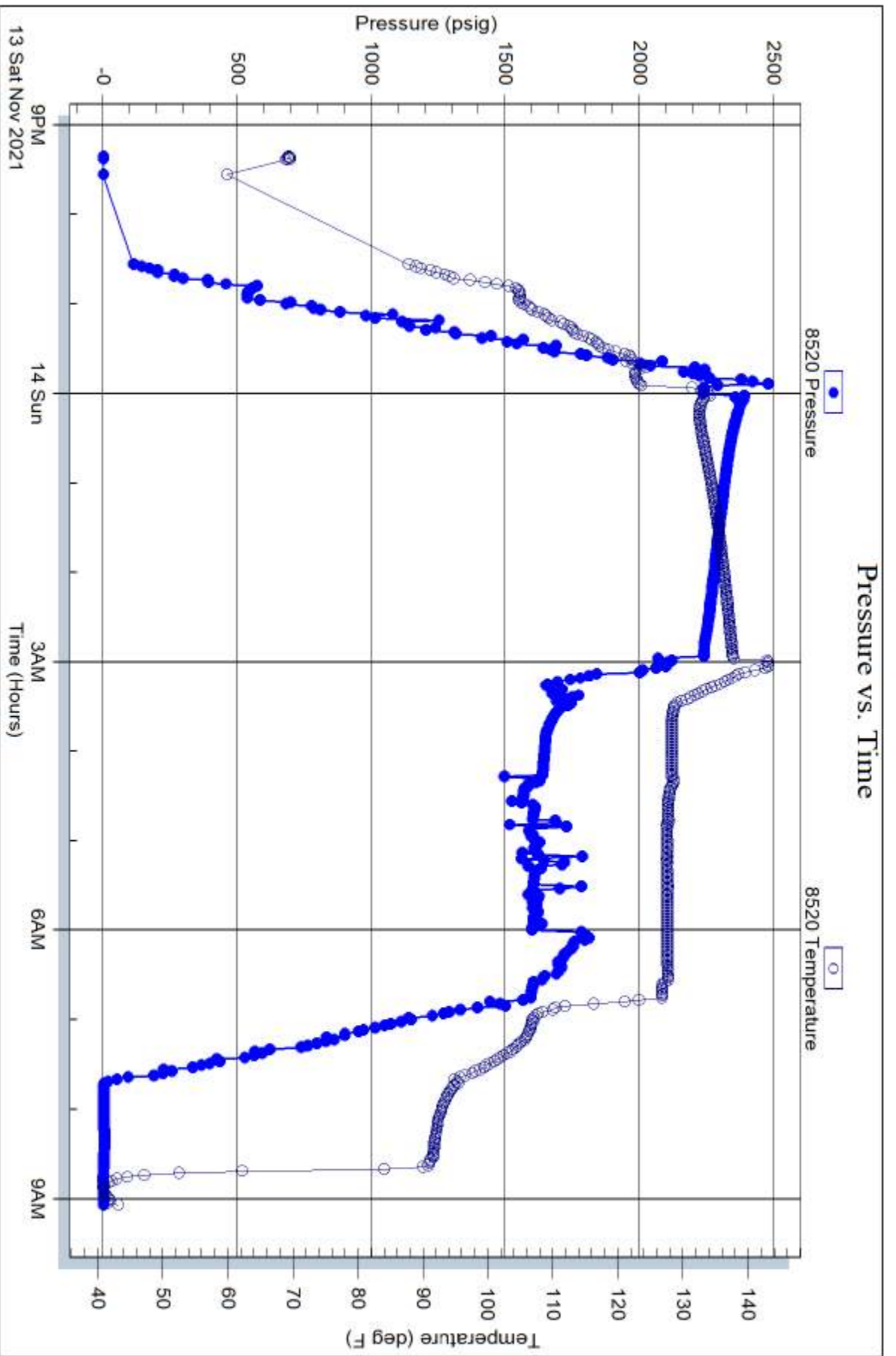
Inside

Cobalt Energy LLC

D6 Unit #1-34

DST Test Number: 3







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68358

Well Name & No. DG Unit #1-34 Test No. 1 Date 11-10-21
 Company Cobalt Energy LLC Elevation 3346 KB 3341 GL
 Address P.O. Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #3
 Location: Sec. 34 Twp 4S Rge. 37W Co. Cheyenne State KS

Interval Tested 4199-4249 Zone Tested UKC "A-C"
 Anchor Length 50' Drill Pipe Run 4012 Mud Wt. 9.1
 Top Packer Depth 4199 Drill Collars Run 178 Vis 80
 Bottom Packer Depth 4199 Wt. Pipe Run — WL 7.2
 Total Depth 4249 Chlorides 600 ppm System LCM 2H

Blow Description IF - blow built to 6"
ISZ - No return
FF - blow built to 3 1/4"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>05HMCW</u>	<u>2</u>	<u>66</u>	<u>32</u>	
<u>118</u>	<u>05WCM</u>	<u>3</u>	<u>27</u>	<u>70</u>	
<u>2</u>	<u>CO</u>	<u>100</u>			

Rec Total 240 BHT 134 Gravity — API RW .91 @ 51.5 °F Chlorides 10,000 ppm

(A) Initial Hydrostatic <u>2134</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>00:00</u>
(B) First Initial Flow <u>43</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>02:07</u>
(C) First Final Flow <u>112</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>04:43</u>
(D) Initial Shut-In <u>1061</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>07:28</u>
(E) Second Initial Flow <u>112</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:18</u>
(F) Second Final Flow <u>137</u>	<input checked="" type="checkbox"/> Mileage <u>134 RT</u> 167.50	Comments
(G) Final Shut-In <u>1040</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2038</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350 NS</u>

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1942.50 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68360**

Well Name & No. D6 Unit #1-34 Test No. 2 Date 11-10-21
 Company Cobalt Energy LLC Elevation 3346 KB 3341 GL
 Address P.O. Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #3
 Location: Sec. 34 Twp 4S. Rge. 37W. Co. Cheyenne State KS

Interval Tested 4319-4405 Zone Tested LKC "H+J"
 Anchor Length 86' Drill Pipe Run 4138 Mud Wt. 9.2
 Top Packer Depth 4314 Drill Collars Run 178 Vis 55
 Bottom Packer Depth 4319 Wt. Pipe Run — WL 8.0
 Total Depth 4405 Chlorides 600 ppm System LCM 2#
 Blow Description IF - S. blow built to 3"
ISI - No return
FF - blow built to 1 3/4"
ESI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GMO</u>	<u>10</u>	<u>45</u>	<u>45</u>	
<u>2</u>	<u>CO</u>	<u>100</u>			

Rec Total 62 BHT 138 Gravity 37.2 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2258</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>23:45</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:45</u>
(C) First Final Flow <u>47</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>03:25</u>
(D) Initial Shut-In <u>705</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>06:40</u>
(E) Second Initial Flow <u>51</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>09:18</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage <u>134 RT</u> 167.50	Comments <u>—</u>
(G) Final Shut-In <u>775</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>2220</u>	<input type="checkbox"/> Straddle <u>—</u>	<input checked="" type="checkbox"/> EM Tool <u>350 NS</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby <u>—</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>—</u>	Total <u>1942.50</u>
	Sub Total <u>1942.50</u>	MP/DST Disc't <u>—</u>

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. 68361

Well Name & No. D6 Unit #1-34 Test No. 3 Date 11-13-21
 Company Cobalt Energy LLC Elevation 3346 KB 3341 GL
 Address P.O. Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #3
 Location: Sec. 34 Twp 4S. Rge. 37W. Co. Cheyenne State KS.

Interval Tested 4570-4660 Zone Tested Pawnee, Myric Station, Ft. Scott
 Anchor Length 90' 400' T. Pipe. Drill Pipe Run 4395 Mud Wt. 8.9
 Top Packer Depth 4565-4570 Drill Collars Run 178 Vis 63
 Bottom Packer Depth 4660 Wt. Pipe Run — WL 8.0
 Total Depth 5060 RTD Chlorides 600 ppm System LCM 12#

Blow Description IF - B.O.B (11 inches) @ 1 min (blow increased to 460 1/2")
ISI - B.O.B @ 2 mins (increased to 63 3/4 + reduced to 47 1/2")
FF - B.O.B @ 1 min (blow increased to 174 1/4") G.T.S @ end of flow period.
FSZ - B.O.B @ 2 mins (blow increased to 66 1/2" + reduced to 9")

Rec	Feet of	%gas	%oil	%water	%mud
<u>120'</u>	<u>G.S.G.M</u>	<u>42</u>	<u>8</u>	<u>50</u>	
<u>2965'</u>	<u>CGO Reversed 0-18 BOLS</u>	<u>29</u>	<u>71</u>		
<u>0'</u>	<u>G.T.S 1310' GIP</u>				

Rec Total 3085 BHT 143 Gravity 34.8 API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>2381</u>	<input checked="" type="checkbox"/> Test 1550	T-On Location <u>20:00</u>
(B) First Initial Flow <u>891</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>21:21</u>
(C) First Final Flow <u>1124</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>05:04</u>
(D) Initial Shut-In <u>1307</u>	<input checked="" type="checkbox"/> Circ Sub <u>drop bar</u> 50	T-Pulled <u>02:46</u>
(E) Second Initial Flow <u>1189</u>	<input checked="" type="checkbox"/> Hourly Standby 2h 200	T-Out <u>09:05</u>
(F) Second Final Flow <u>1262</u>	<input checked="" type="checkbox"/> Mileage 167.50	Comments <u>Reversed Fluid for 75 mins</u>
(G) Final Shut-In <u>1308</u>	<input type="checkbox"/> Sampler	<u>Tools loaded @ 10:30</u>
(H) Final Hydrostatic <u>2119</u>	<input checked="" type="checkbox"/> Straddle 600	<u>11-14-21</u>
	<input checked="" type="checkbox"/> Shale Packer 250	<input checked="" type="checkbox"/> EM Tool 350 NS
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
	<input checked="" type="checkbox"/> Day Standby <u>YD</u> 2d 12h	Sub Total <u>1200</u>
	<input type="checkbox"/> Accessibility	Total <u>4342.50</u>
	Sub Total <u>3142.50</u>	MP/DST Disc't

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

Approved By _____ Our Representative [Signature]

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CEMENT TREATMENT REPORT

Customer: Cobalt Energy	Well: D6 Unit 1-34	Ticket: WP 2096
City, State:	County: Cheyenne KS	Date: 11/15/2021
Field Rep: Rick Popp	S-T-R: 34-4S-37W	Service: Longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	5050 ft
Casing Size:	5 1/2 in
Casing Depth:	5049.12 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	119.0 bbls

Calculated Slurry - Lead	
Blend:	H-Plug
Weight:	12.0 ppg
Water / Sx:	12.1 gal / sx
Yield:	2.12 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	13.2 bbls
Total Sacks:	35 sx

Calculated Slurry - Tail	
Blend:	H-LD
Weight:	14.8 ppg
Water / Sx:	6.5 gal / sx
Yield:	1.51 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	53.8 bbls
Total Sacks:	200 sx

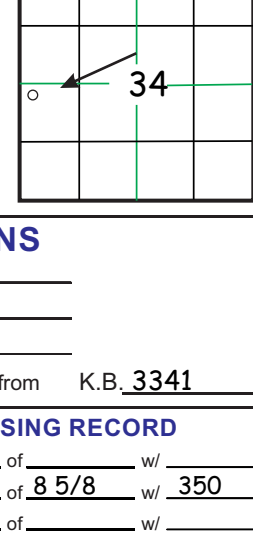
TIME	RATE	PSI	BBLs	STAGE	TOTAL BBLs	REMARKS
430P			-		-	ON LOCATION
435P					-	GET INFO: 5050' TD, 5049.12' 5 1/2 15.5# CASING, 42.42' SHOE JOINT, BASKETS ON 7, 13, 17, 21
					-	TURBOS ON 2, 7, 11, 12, 13, 17, 18, 19, 21, 22, 23
800P					-	CASING ON BOTTOM
815P					-	CIRCULATE WITH RIG PUMP
830P					-	RIG UP PUMP
1000P	2.0	100.0	7.5		7.5	PLUG RH 30 SKS H-PLUG MIXED AT 13.8 PPG
1010P	2.0	100.0	5.0		12.5	PLUG MH 20 SKS H-PLUG MIXED AT 13.8 PPG
1017P	5.0	230.0	2.0		14.5	H2O AHEAD
1018P	5.0	270.0	13.2		27.7	SCAVENGER CEMENT MIXED AT 12 PPG
1022P	4.6	310.0	53.8		81.5	CEMENT H-LD MIXED AT 14.8 PPG MUD SCALE VERIFIED
1034P						SHUT DOWN
1036P						WASH PUMPS AND LINES/DROP LATCH DOWN PLUG
1040P	5.0	100.0	25.0			DISPLACE H2O
1045P	5.0	100.0	25.0			DISPLACE H2O
1050P	0.8	100.0	20.0			DISPLACE H2O
1116P	1.5	200.0	15.0			DISPLACE H2O
1126P	2.5	400.0	15.0			DISPLACE H2O
1135P	2.0	780.0	10.0			DISPLACE H2O
1140P	2.0	960.0	9.0			DISPLACE H2O
1145P		1,510.0				PLUG LANDED
1150P						RELEASE FLOAT HELD
1200A						WASH UP
1205A						RIG DOWN
1245A						LEFT LOCATION

CREW		UNIT	SUMMARY		
Cementer:	Jimmie	914	Average Rate	Average Pressure	Total Fluid
Pump Operator:	John	180/520	3.1 bpm	397 psi	201 bbls
Bulk #1:	Jose	165/235			
Bulk #2:					

Larry A. Nicholson

NAD 27 39.66187434 101.46649332

COMPANY Cobalt Energy, LLC
API # 15-023-21559
LEASE D6 Unit #1-34
LOCATION N26 Unit #1-34 N2 NW NW SW
SURVEY 2351' FSL 335' FWL
SECTION 34 TWP 04S RGE 37W
COUNTY Cheyenne STATE Kansas



CONTRACTOR Murfin TP J & B Rig # 3
SPUD 11-05-21 10:15 am COMP. ELEVATIONS
RTD 5060 10:49 am 11-13-21 LTD 5058 5:15 pm K.B. 3341
MUD UP AT 3550 D.F.
MUD TYPE Chemical Mud-Co Recd Atkin All measurements from K.B. 3341

SAMPLES SAVED FROM 3900 to RTD
DRILLING TIME 3800 Conductor of
SAMPLES EXAMINED FROM 3900 to RTD Surface 361 of 8/8 wl 350 six
GEOLOGICAL SUPERVISION FROM 3800 to RTD Production of
WELLSITE GEOLOGIST LARRY A. NICHOLSON Drig Supervision

ELECTRICAL SURVEYS Dual Den. Neu. Micro. Midwest Wireline

FORMATION TOPS & STRUCTURAL POSITION table with columns for FORMATION, SAMPLE TOPS, SUBSEA DATUM, ELEC LOGS, SUBSEA DATUM, REFERENCE WELL.

REFERENCE WELLS A: B:

LAN 792, Modified 5/05, 11/11, 4/12, 4/18, 1/18h w/25.4mm, 8.5 x 97.5, 216 mm x 2480 mm

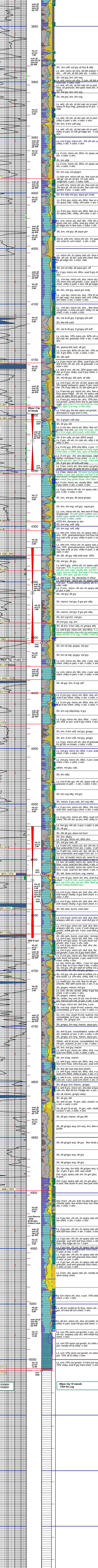
DRILLSTEM TEST SUMMARY:
Dat #1 4177-4249 (LKC B-C) 30 45 45 60 IF-43-112 FF-112-137 SI-1061-1040
Rec Total 240' 2" (C.O.) 118 OS (30 27W 70M) 120 OS (40W) (20 86W 52M)
IF BOB 12min, built 21.5", R 11" FF BOB 15min, built 20.5", 11' rot

REMARKS & RECOMMENDATIONS:
Based on Dst #1 recover
pipe was set

Dat #2 4319-4405 (LKC H-J) 30 45 45 90 IF-39-47 FF-51-67 SI-705-775
Rec Total 70' 13" 137 GO (306 700) 80' GOCM (306 300 40M)
IF BOB 12min, built 21.5", R 11" FF BOB 15min, built 20.5", 11' rot

Dat #3 4570-4660 (Pawne Ft Scott) 15 45 15 90 IF-891-1124 FF-1189-1262
SI-1307-1308 Rec 2965 CO (286 710) 120' GSCOM (426 80 50M)
IF BOB 1 min-460 1/2", R BOB 2 min-47" FF BOB 1 min-174", R BOB-66" 1/2", 34.5 Grv, 134 BHT

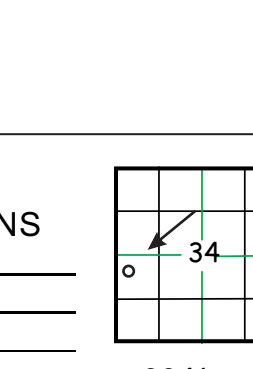
LEGEND table with columns for Dolomite, Limestone, Shale, Carbonaceous Shale, Sandstone, Chert, Anhydrite.



REMARKS section containing detailed well logs, DST (1) 4199-4249 LANS A-C, DST (2) 4319-4405 LANS H-J, and DST (3) 4570-4660 Pawnee-Ft Scott 15-45-15-90. Includes mud check data and BHT logs.

RTD 5060' 10:49 am 11/13/2021
LTD 5058' 5:15 pm 11/13/2021

COMPANY Cobalt Energy, LLC
LEASE D6 Unit #1-34 N2 NW NW SW
LOCATION 2351' FSL 335' FWL 34 TWP 04S RGE 37W
COUNTY Cheyenne STATE KS



ELEVATIONS K.B. 3341
D.F.
G.L. 3336
All measurements from K.B. 3341