

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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CEMENT TREATMENT REPORT

Customer: Cobalt Energy	Well: Mac Trust 1-19	Ticket: WP 2065
City, State: Oakley KS	County: LoganKS	Date: 11/6/2021
Field Rep: Josh Mosier	S-T-R: 19-15S-33W	Service: Longstring

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	4667 ft
Casing Size:	5 1/2 in
Casing Depth:	4660 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	109.9 bbls

Calculated Slurry - Lead	
Blend:	H - Con
Weight:	12.0 ppg
Water / Sx:	15.5 gal / sx
Yield:	2.56 ft ³ / sx
Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	4660 ft
Annular Volume:	144.0 bbls
Excess:	
Total Slurry:	216.6 bbls
Total Sacks:	475 sx

Calculated Slurry - Tail	
Blend:	H - LD
Weight:	14.8 ppg
Water / Sx:	6.8 gal / sx
Yield:	1.56 ft ³ / sx
Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	4660 ft
Annular Volume:	143.994 bbls
Excess:	
Total Slurry:	55.6 bbls
Total Sacks:	200 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
730P			-	-	GOT TO LOCATION
735P				-	SAFETY MEETING
740P				-	RIGGED UP TRUCKS
800P				-	STARTED RUNNING CASING
1030P				-	LANDED CASING
1035P		350.0		-	DROPPED BALL BALL BROKE THROUGH WITH 350 PSI
1045P				-	CIRCULATED HOLE
1202A	4.5	260.0	5.0	5.0	PUMPED H2O AHEAD
1203A	4.5	280.0	11.9	16.9	PUMPED 500 GAL OF MUD FLUSH
1206A	4.5	280.0	10.0	26.9	WASHED UP WITH H2O
1209A	3.0	170.0	13.7	40.6	PUMPED 30 SKS IN RH
1215A	3.0	170.0	9.1		PUMPED 20 SKS IN MH
1220A	5.0	400.0	193.7		PUMPED 425 SKS OF H- CON @ 4660 FT
1258A	6.1	650.0	55.6		PUMPED 200 SKS H- LD @ 4660 FT
108A					SHUT DOWN AND WASHED UP PUMP TRUCK/ LOADED LD PLUG
119A	6.5	400.0	109.9		DISPLACED WITH H2O WITH 10 GAL KCL
125A	3.0	50.0	40.0		LOST CIRCULATION AFTER PUMPING 40 BBL OF H2O OUT SLOWED TO 3 BBL A MIN
135A	3.5	1,500.0	70.0		GOT CIRCULATION BACK AFTER PUMPING 70 BBL OF H2O OUT
146A		2,000.0			PLUG DOWN AND CIRCULATED 15 BBL OR 32 SKS OF CEMENT TO PIT
149A					RELEASED PRESSURE PLUG HELD
150A					WASHED UP PUMP TRUCK
205A					RIGGED DOWN TRUCKS
230A					OFF LOCATION

CREW		UNIT	SUMMARY		
Cementer:	Josh	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	John	230	4.4 bpm	543 psi	519 bbls
Bulk #1:	Kale	194/250			
Bulk #2:	Trevino	205			



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Mac Trust #1-19

19-15S.-33W Logan,KS

Start Date: 2021.11.01 @ 00:00:00

End Date: 2021.11.01 @ 09:27:30

Job Ticket #: 68353 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.08 @ 10:34:06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68353

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.11.01 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC " I "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:11:50

Time Test Ended: 09:27:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 81

Interval: 4080.00 ft (KB) To 4152.00 ft (KB) (TVD)

Reference Elevations: 2952.00 ft (KB)

Total Depth: 4152.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8734 Outside

Press@RunDepth: 234.38 psig @ 4081.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.01 End Date: 2021.11.01

Last Calib.: 2021.11.02

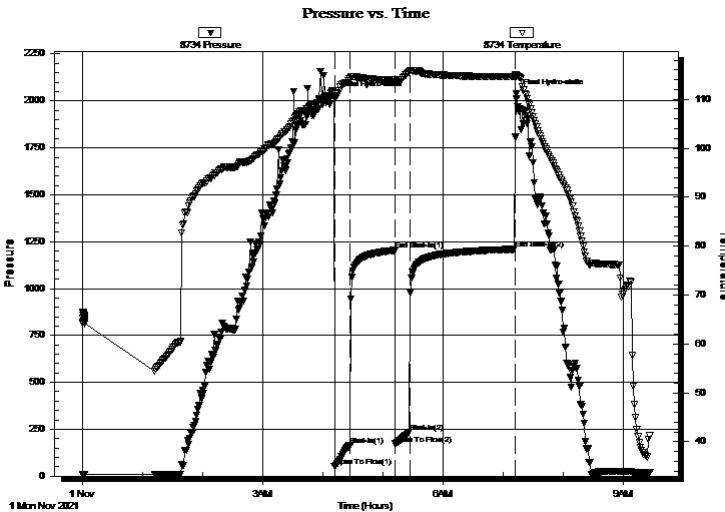
Start Time: 00:00:01 End Time: 09:27:30

Time On Btm: 2021.11.01 @ 04:11:20

Time Off Btm: 2021.11.01 @ 07:13:20

TEST COMMENT: 15-IF-B.O.B (11 inches) @11 mins (blow increased to 14 1/4")
45-ISI-No return
15-FF-B.O.B @ 14 mins (blow increased to 12")
90-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.35	110.76	Initial Hydro-static
1	50.94	110.18	Open To Flow (1)
17	163.67	114.27	Shut-In(1)
61	1203.67	113.95	End Shut-In(1)
62	172.51	113.61	Open To Flow (2)
76	234.38	115.62	Shut-In(2)
181	1209.54	114.67	End Shut-In(2)
183	2037.36	114.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
450.00	MCW w/Oil spots 20%M, 80% W	4.22

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

19-15S.-33W Logan,KS

Mac Trust #1-19

Job Ticket: 68353 **DST#: 1**

Test Start: 2021.11.01 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 04:11:50

Time Test Ended: 09:27:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 81

Interval: **4080.00 ft (KB) To 4152.00 ft (KB) (TVD)**

Reference Elevations: 2952.00 ft (KB)

Total Depth: 4152.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: **8959** Inside

Press@RunDepth: psig @ 4081.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.01 End Date: 2021.11.01

Last Calib.: 2021.11.02

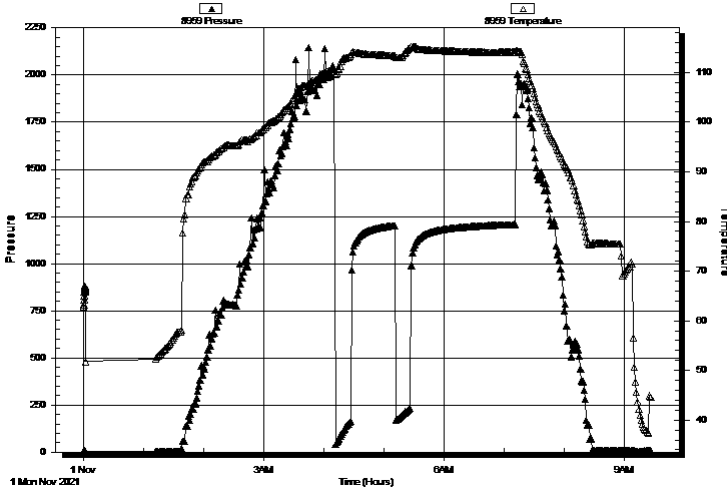
Start Time: 00:00:01 End Time: 09:27:19

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-B.O.B (11 inches) @11 mins (blow increased to 14 1/4")
45-ISI-No return
15-FF-B.O.B @ 14 mins (blow increased to 12")
90-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
450.00	MCW w/Oil spots 20%M, 80% W	4.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68353

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.11.01 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3838.00 ft	Diameter: 3.80 inches	Volume: 53.84 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: 230.00 ft	Diameter: 2.25 inches	Volume: 1.13 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 54.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4080.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	104.00 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			4053.00	
Hydraulic tool	5.00	1018		4058.00	
Jars	5.00	01-07		4063.00	
EM Tool	4.00			4067.00	
Safety Joint	3.00	-001		4070.00	
Packer	5.00			4075.00	32.00 Bottom Of Top Packer
Packer	5.00			4080.00	
Stubb	1.00			4081.00	
Recorder	0.00	8959	Inside	4081.00	
Recorder	0.00	8734	Outside	4081.00	
Perforations	33.00			4114.00	
Change Over Sub	1.00			4115.00	
Drill Pipe	31.00			4146.00	
Change Over Sub	1.00			4147.00	
Bullnose	5.00			4152.00	72.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68353

DST#: 1

ATTN: Larry Nicholson

Test Start: 2021.11.01 @ 00:00:00

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:

17000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	MCW w /Oil spots 20%M, 80% W	4.217

Total Length: 450.00 ft Total Volume: 4.217 bbl

Num Fluid Samples: 0

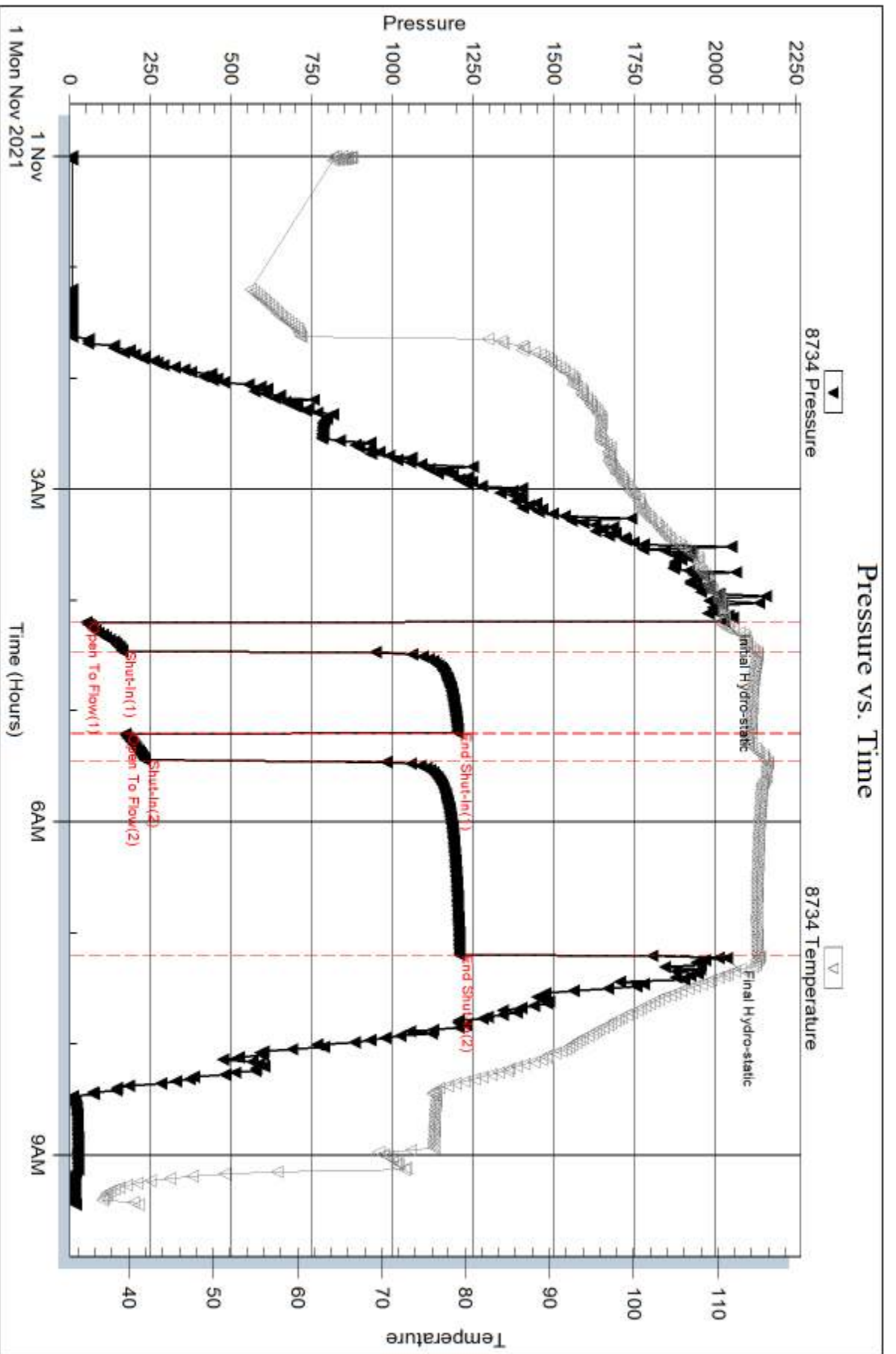
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.72 @ 40.8 = 17,000 PPM



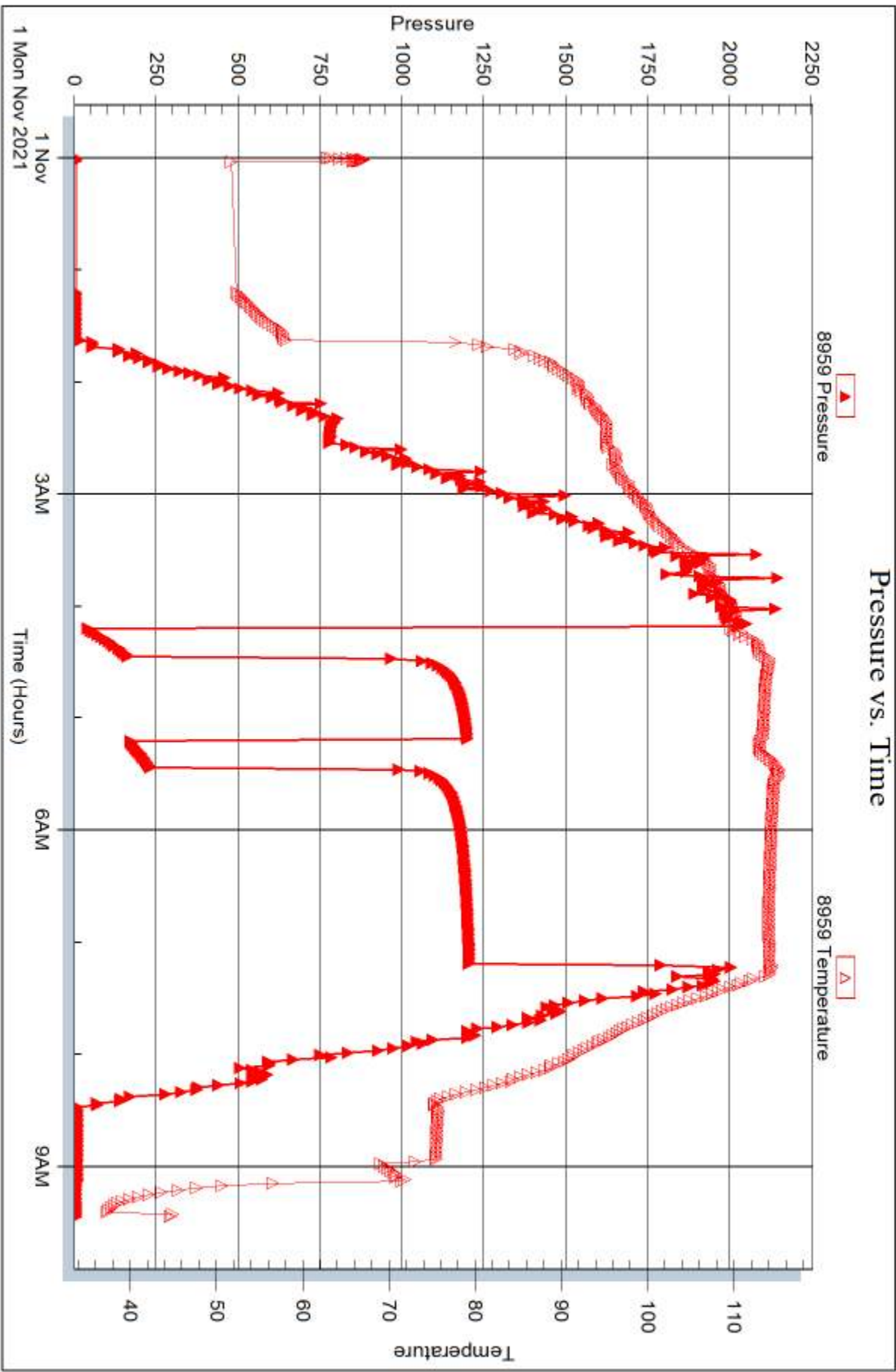
Serial #: 8959

Inside

Cobalt Energy LLC

Mac Trust #1-19

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Mac Trust #1-19

19-15S.-33W Logan,KS

Start Date: 2021.11.02 @ 20:50:00

End Date: 2021.11.03 @ 04:39:20

Job Ticket #: 68354 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.08 @ 10:18:43



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68354

DST#: 2

ATTN: Larry Nicholson

Test Start: 2021.11.02 @ 20:50:00

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:45:00

Time Test Ended: 04:39:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: 4216.00 ft (KB) To 4240.00 ft (KB) (TVD)

Reference Elevations: 2952.00 ft (KB)

Total Depth: 4240.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8734 Outside

Press@RunDepth: 38.63 psig @ 4217.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.02

End Date:

2021.11.03

Last Calib.: 2021.11.03

Start Time: 20:50:01

End Time:

04:39:20

Time On Btm: 2021.11.02 @ 23:44:50

Time Off Btm: 2021.11.03 @ 01:21:30

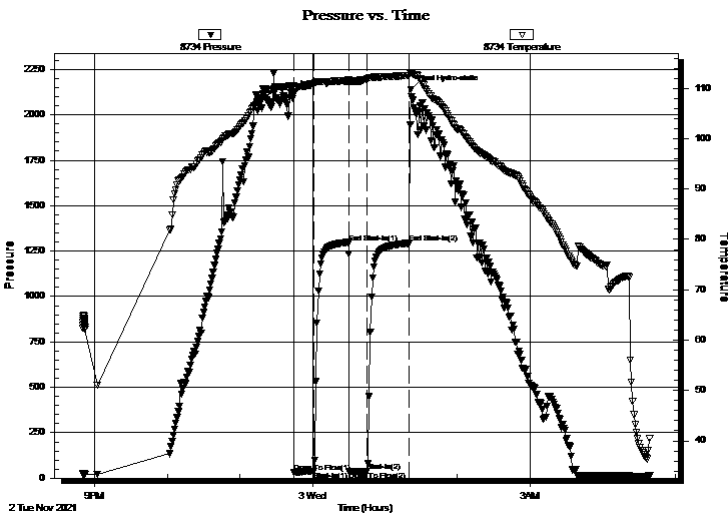
TEST COMMENT: 15-IF-Weak surface blow to 1/4"

30-ISI-No return

15-FF-No blow

30-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.12	110.55	Initial Hydro-static
1	33.08	109.82	Open To Flow (1)
17	37.98	110.91	Shut-In(1)
45	1297.62	111.61	End Shut-In(1)
46	36.21	111.14	Open To Flow (2)
61	38.63	111.92	Shut-In(2)
96	1292.83	112.55	End Shut-In(2)
97	2137.73	113.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud w / Oil spots	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68354

DST#: 2

ATTN: Larry Nicholson

Test Start: 2021.11.02 @ 20:50:00

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:45:00

Time Test Ended: 04:39:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: 4216.00 ft (KB) To 4240.00 ft (KB) (TVD)

Reference Elevations: 2952.00 ft (KB)

Total Depth: 4240.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8959

Inside

Press@RunDepth: psig @ 4217.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.02

End Date: 2021.11.03

Last Calib.: 2021.11.03

Start Time: 20:50:01

End Time: 04:39:20

Time On Btm:

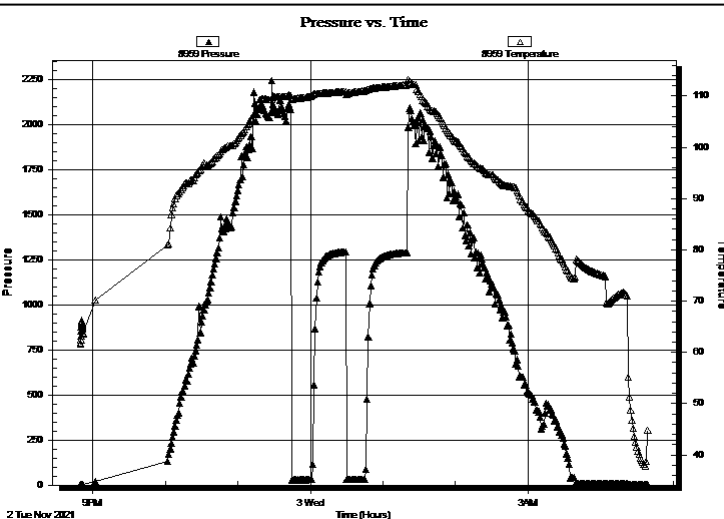
Time Off Btm:

TEST COMMENT: 15-IF-Weak surface blow to 1/4"

30-ISI-No return

15-FF-No blow

30-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud w / Oil spots	0.05

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

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68354

DST#: 2

ATTN: Larry Nicholson

Test Start: 2021.11.02 @ 20:50:00

Tool Information

Drill Pipe:	Length: 3964.00 ft	Diameter: 3.80 inches	Volume: 55.60 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: 230.00 ft	Diameter: 2.25 inches	Volume: 1.13 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 56.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4216.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	56.00 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			4185.00	
Shut In Tool	5.00			4190.00	
Hydraulic tool	5.00	1018		4195.00	
Jars	5.00	01-07		4200.00	
EM Tool	4.00			4204.00	
Safety Joint	3.00	-001		4207.00	
Packer	5.00			4212.00	32.00 Bottom Of Top Packer
Packer	4.00			4216.00	
Stubb	1.00			4217.00	
Recorder	0.00	8959	Inside	4217.00	
Recorder	0.00	8734	Outside	4217.00	
Perforations	18.00			4235.00	
Bullnose	5.00			4240.00	24.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68354

DST#: 2

ATTN: Larry Nicholson

Test Start: 2021.11.02 @ 20:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud w / Oil spots	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

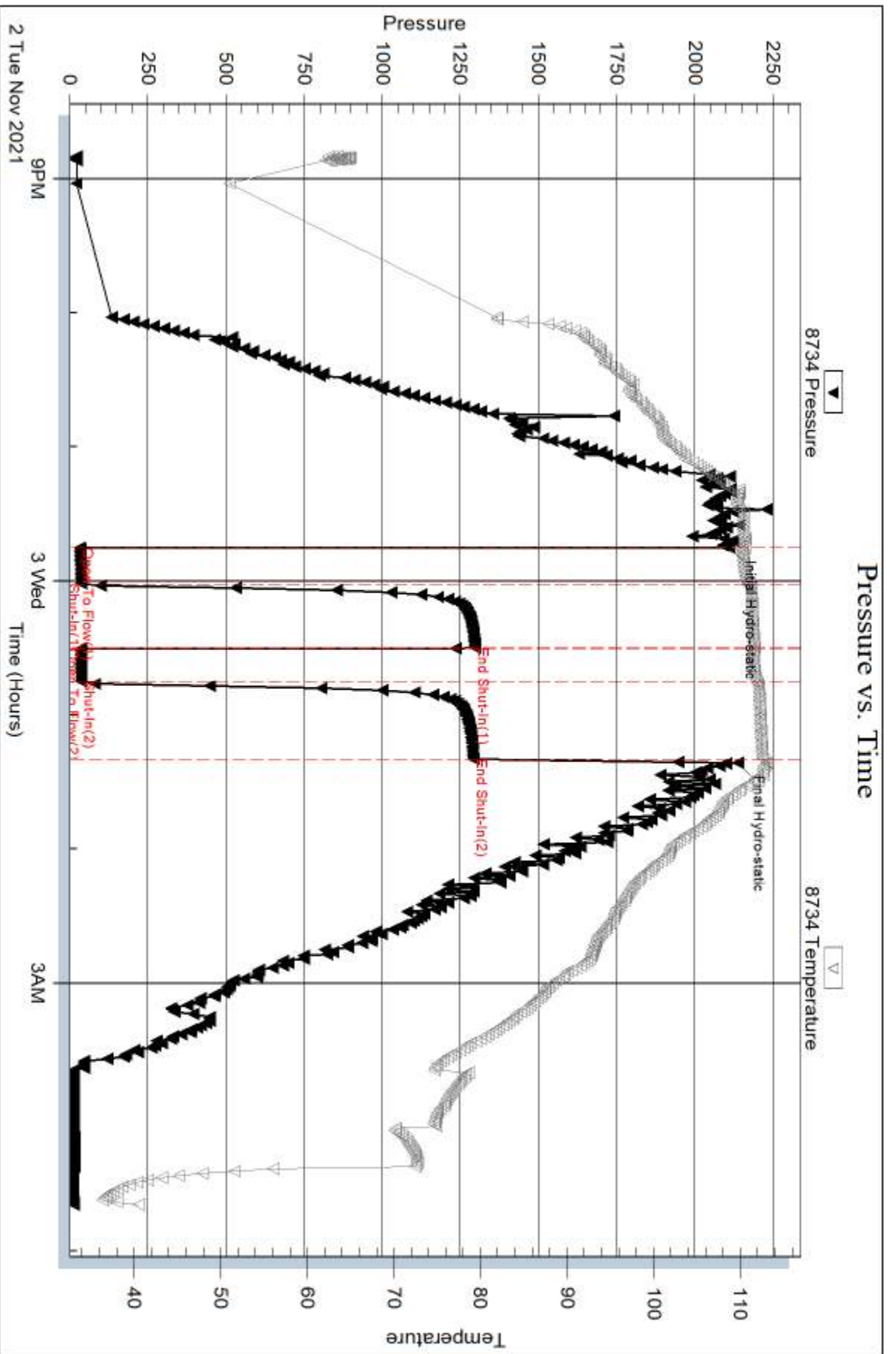
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



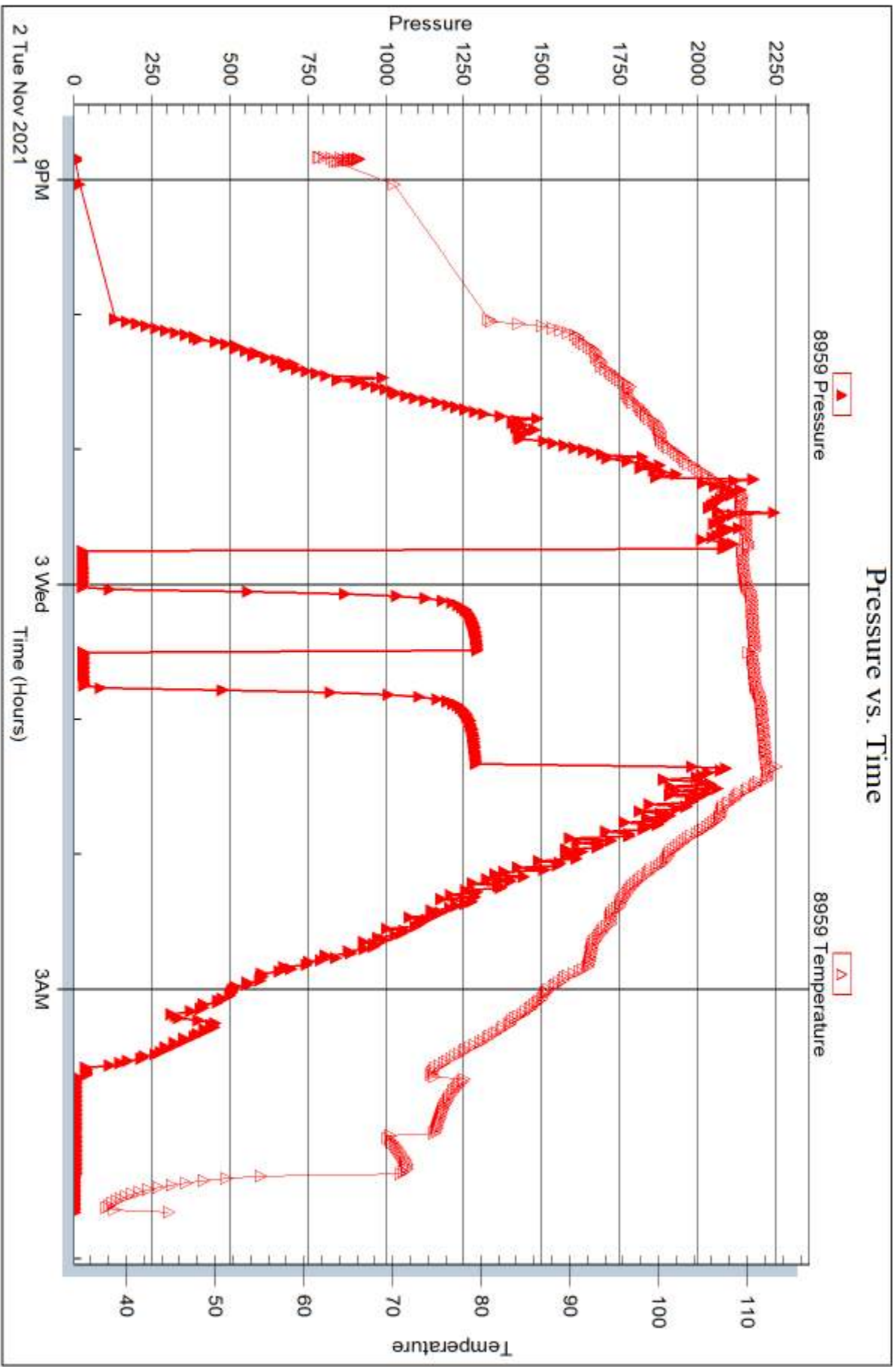
Serial #: 8959

Inside

Cobalt Energy LLC

Mec Trust #1-19

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Mac Trust #1-19

19-15S.-33W Logan,KS

Start Date: 2021.11.03 @ 14:02:00

End Date: 2021.11.03 @ 22:13:50

Job Ticket #: 68355 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.08 @ 10:08:58



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68355

DST#: 3

ATTN: Larry Nicholson

Test Start: 2021.11.03 @ 14:02:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:13:20

Time Test Ended: 22:13:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: 4234.00 ft (KB) To 4308.00 ft (KB) (TVD)

Reference Elevations: 2952.00 ft (KB)

Total Depth: 4308.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8734 Outside

Press@RunDepth: 552.13 psig @ 4235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.03

End Date: 2021.11.03

Last Calib.: 2021.11.03

Start Time: 14:02:01

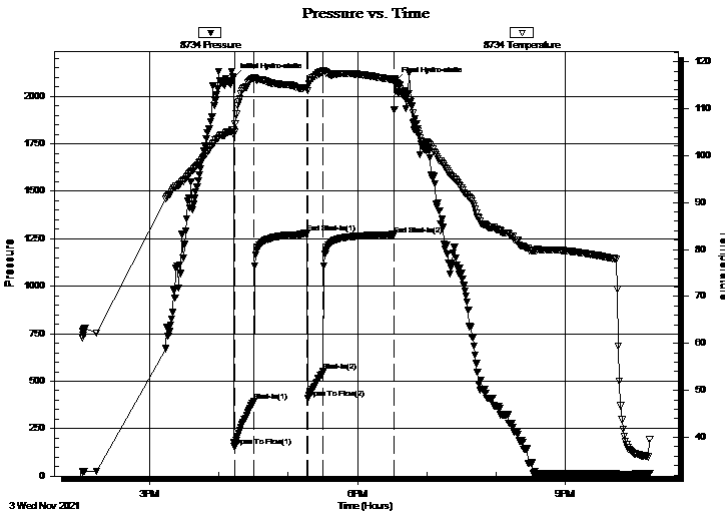
End Time: 22:13:50

Time On Btm: 2021.11.03 @ 16:12:50

Time Off Btm: 2021.11.03 @ 18:32:39

TEST COMMENT: 15-IF-B.O.B(11 inches) @ 2 mins (blow increased to 64")
30-ISI-Return blow @ 5 mins to 1/8" & reduced to surface blow
15-FF-B.O.B @ 3 mins (blow increased to 53 3/4")
60-FSI-Return blow @ 5 mins to 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.14	105.41	Initial Hydro-static
1	154.81	104.97	Open To Flow (1)
18	393.09	116.51	Shut-In(1)
63	1279.05	114.50	End Shut-In(1)
65	408.30	113.81	Open To Flow (2)
78	552.13	118.00	Shut-In(2)
139	1272.39	116.18	End Shut-In(2)
140	2077.55	116.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOMW 5%O, 5%M, 90%W	0.30
385.00	GSMWO 31%G,5%M,30%W,34%O	3.85
800.00	GWCMO 29%G,18%W,25%M,28%O	11.22
0.00	180' 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

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68355

DST#: 3

ATTN: Larry Nicholson

Test Start: 2021.11.03 @ 14:02:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:13:20

Time Test Ended: 22:13:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: 4234.00 ft (KB) To 4308.00 ft (KB) (TVD)

Reference Elevations: 2952.00 ft (KB)

Total Depth: 4308.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.03

End Date: 2021.11.03

Last Calib.: 2021.11.03

Start Time: 14:02:01

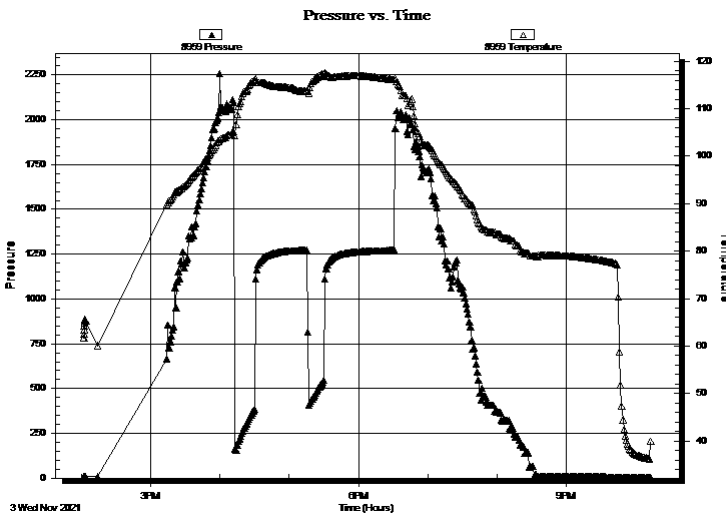
End Time: 22:13:50

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-B.O.B(11 inches) @ 2 mins (blow increased to 64")
30-ISI-Return blow @ 5 mins to 1/8" & reduced to surface blow
15-FF-B.O.B @ 3 mins (blow increased to 53 3/4")
60-FSI-Return blow @ 5 mins to 1/2"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOMW 5%O, 5%M, 90%W	0.30
385.00	GSMWO 31%G,5%M,30%W,34%O	3.85
800.00	GWCMO 29%G,18%W,25%M,28%O	11.22
0.00	180' 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

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68355

DST#: 3

ATTN: Larry Nicholson

Test Start: 2021.11.03 @ 14:02:00

Tool Information

Drill Pipe:	Length: 3995.00 ft	Diameter: 3.80 inches	Volume: 56.04 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: 230.00 ft	Diameter: 2.25 inches	Volume: 1.13 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4234.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	106.00 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			4207.00	
Hydraulic tool	5.00	1018		4212.00	
Jars	5.00	01-07		4217.00	
EM Tool	4.00			4221.00	
Safety Joint	3.00	-001		4224.00	
Packer	5.00			4229.00	32.00 Bottom Of Top Packer
Packer	5.00			4234.00	
Stubb	1.00			4235.00	
Recorder	0.00	8959	Inside	4235.00	
Recorder	0.00	8734	Outside	4235.00	
Perforations	34.00			4269.00	
Change Over Sub	1.00			4270.00	
Drill Pipe	32.00			4302.00	
Change Over Sub	1.00			4303.00	
Bullnose	5.00			4308.00	74.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68355

DST#: 3

ATTN: Larry Nicholson

Test Start: 2021.11.03 @ 14:02:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 30.4 deg API
Water Salinity: 32000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOMW 5%O, 5%M, 90%W	0.295
385.00	GSMWO 31%G,5%M,30%W,34%O	3.852
800.00	GWCMO 29%G,18%W,25%M,28%O	11.222
0.00	180' GIP	0.000

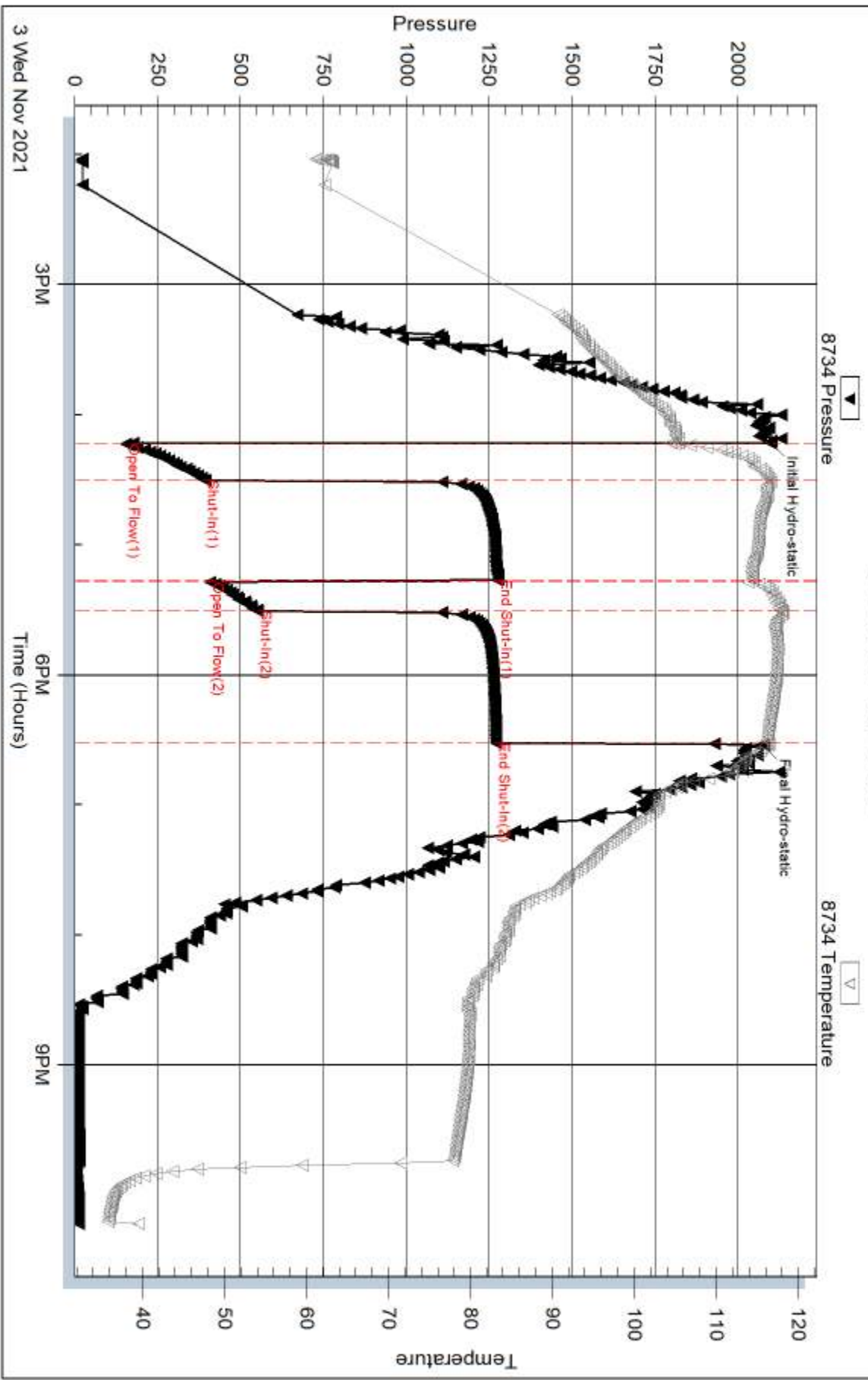
Total Length: 1245.00 ft Total Volume: 15.369 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity of oil = 28.6 @ 42 degs corrected to 30.4 @ 60 degs
RW=.398 @ 39.8 degs = 32,000 PPM

Pressure vs. Time



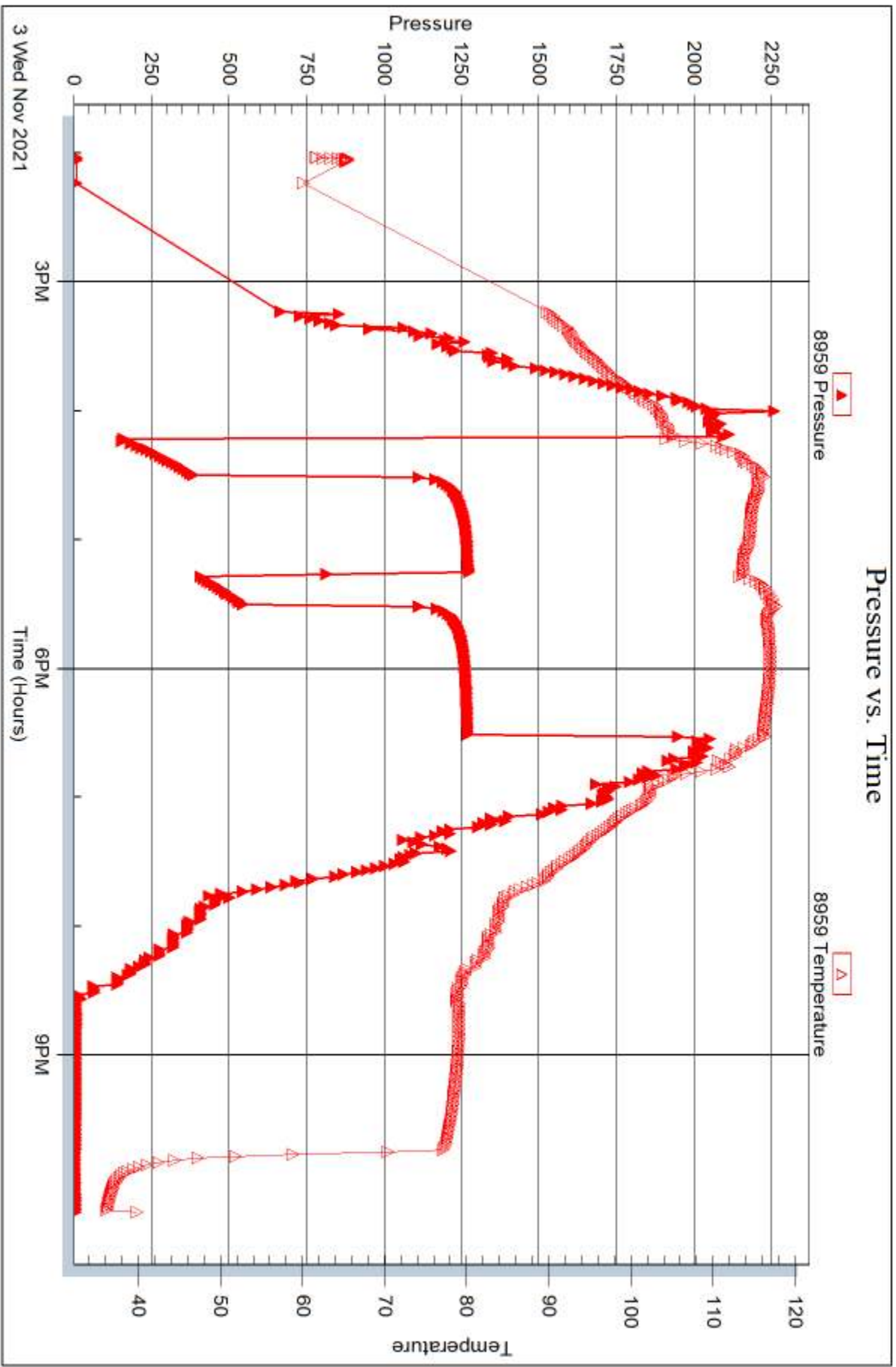
Serial #: 8959

Inside

Cobalt Energy LLC

Mac Trust #1-19

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 68355

Printed: 2021.11.08 @ 10:08:59



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Mac Trust #1-19

19-15S.-33W Logan,KS

Start Date: 2021.11.04 @ 16:40:00

End Date: 2021.11.04 @ 23:01:09

Job Ticket #: 68356 DST #: 4

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

Printed: 2021.11.08 @ 10:06:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68356

DST#: 4

ATTN: Larry Nicholson

Test Start: 2021.11.04 @ 16:40:00

GENERAL INFORMATION:

Formation: **Pawnee - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:35:10

Time Test Ended: 23:01:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: **4380.00 ft (KB) To 4465.00 ft (KB) (TVD)**

Reference Elevations: 2952.00 ft (KB)

Total Depth: 4465.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8734 Outside

Press@RunDepth: 36.22 psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.04 End Date: 2021.11.04

Last Calib.: 2021.11.04

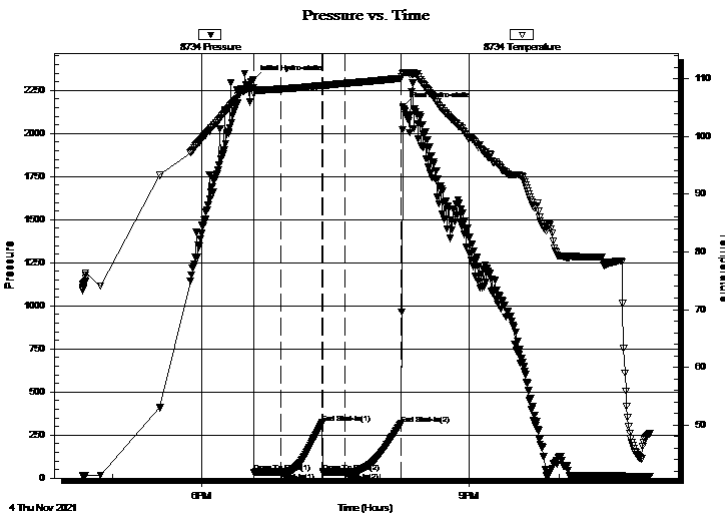
Start Time: 16:40:01 End Time: 23:01:10

Time On Btm: 2021.11.04 @ 18:35:00

Time Off Btm: 2021.11.04 @ 20:15:20

TEST COMMENT: 15-IF-Blow built to 1/4"
30-ISI-No return
15-FF-No blow
30-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2314.07	108.53	Initial Hydro-static
1	35.55	107.43	Open To Flow (1)
18	35.75	108.23	Shut-In(1)
46	320.71	108.86	End Shut-In(1)
47	34.85	108.74	Open To Flow (2)
61	36.22	109.20	Shut-In(2)
99	315.50	110.08	End Shut-In(2)
101	2155.57	111.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud w / Oil spots	0.02

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Cobalt Energy LLC
 PO Box 8037
 Wichita, KS 67208
 ATTN: Larry Nicholson

19-15S.-33W Logan,KS

Mac Trust #1-19

Job Ticket: 68356 **DST#: 4**
 Test Start: 2021.11.04 @ 16:40:00

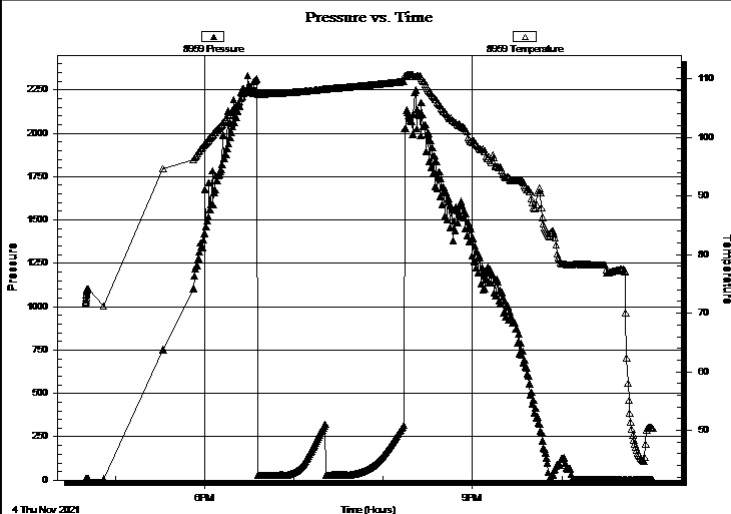
GENERAL INFORMATION:

Formation: **Pawnee - Cherokee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:35:10
 Time Test Ended: 23:01:09
Interval: 4380.00 ft (KB) To 4465.00 ft (KB) (TVD)
 Total Depth: 4465.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 81
 Reference Elevations: 2952.00 ft (KB)
 2940.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8959 Inside
 Press@RunDepth: psig @ 4381.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2021.11.04 End Date: 2021.11.04 Last Calib.: 2021.11.04
 Start Time: 16:40:01 End Time: 23:01:10 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IF-Blow built to 1/4"
 30-ISI-No return
 15-FF-No blow
 30-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud w / Oil spots	0.02

* 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

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68356

DST#: 4

ATTN: Larry Nicholson

Test Start: 2021.11.04 @ 16:40:00

Tool Information

Drill Pipe:	Length: 4122.00 ft	Diameter: 3.80 inches	Volume: 57.82 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: 230.00 ft	Diameter: 2.25 inches	Volume: 1.13 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 58.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4380.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	117.00 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			4353.00	
Hydraulic tool	5.00	1018		4358.00	
Jars	5.00	01-07		4363.00	
EM Tool	4.00			4367.00	
Safety Joint	3.00	-001		4370.00	
Packer	5.00			4375.00	32.00 Bottom Of Top Packer
Packer	5.00			4380.00	
Stubb	1.00			4381.00	
Recorder	0.00	8959	Inside	4381.00	
Recorder	0.00	8734	Outside	4381.00	
Perforations	13.00			4394.00	
Change Over Sub	1.00			4395.00	
Drill Pipe	64.00			4459.00	
Change Over Sub	1.00			4460.00	
Bullnose	5.00			4465.00	85.00 Bottom Packers & Anchor

Total Tool Length: 117.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68356

DST#: 4

ATTN: Larry Nicholson

Test Start: 2021.11.04 @ 16:40:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud w / Oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

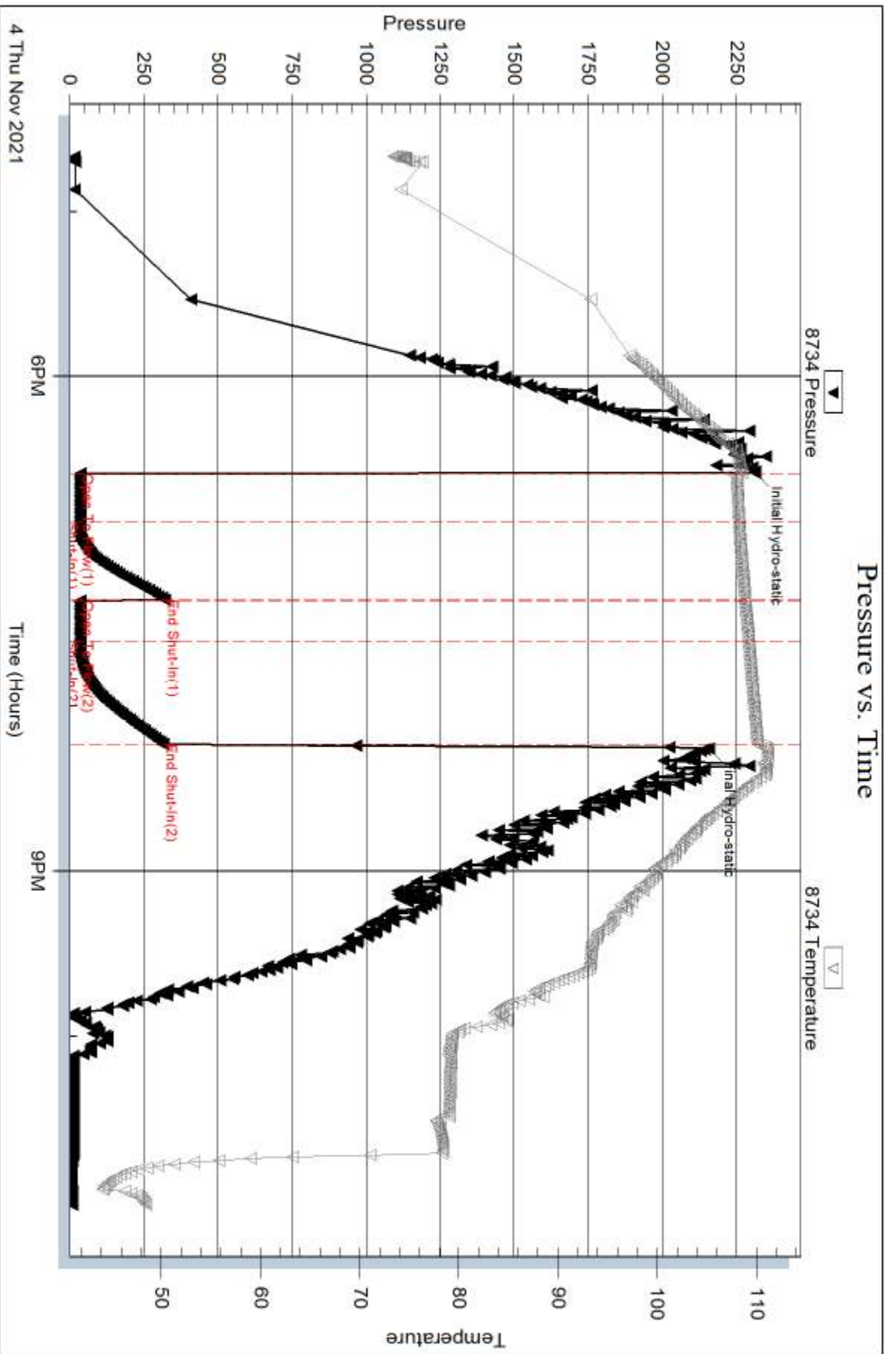
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



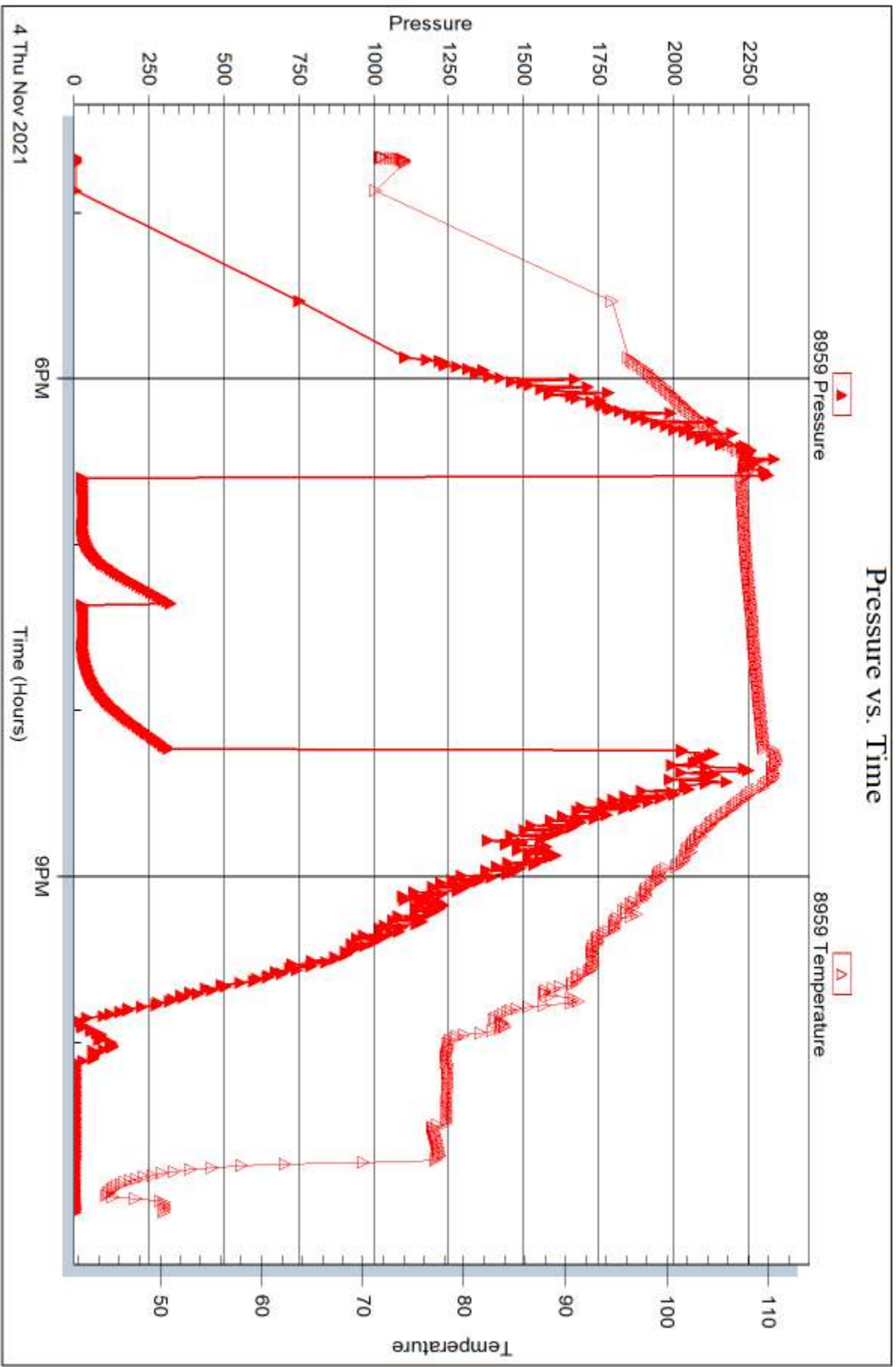
Serial #: 8959

Inside

Cobalt Energy LLC

Mac Trust #1-19

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Mac Trust #1-19

19-15S.-33W Logan,KS

Start Date: 2021.11.05 @ 10:40:00

End Date: 2021.11.05 @ 18:18:00

Job Ticket #: 68357 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.08 @ 10:01:10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68357

DST#: 5

ATTN: Larry Nicholson

Test Start: 2021.11.05 @ 10:40:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:42:50

Time Test Ended: 18:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: 4462.00 ft (KB) To 4525.00 ft (KB) (TVD)

Reference Elevations: 2952.00 ft (KB)

Total Depth: 4525.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8734 Outside

Press@RunDepth: 52.74 psig @ 4463.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.05 End Date: 2021.11.05

Last Calib.: 2021.11.05

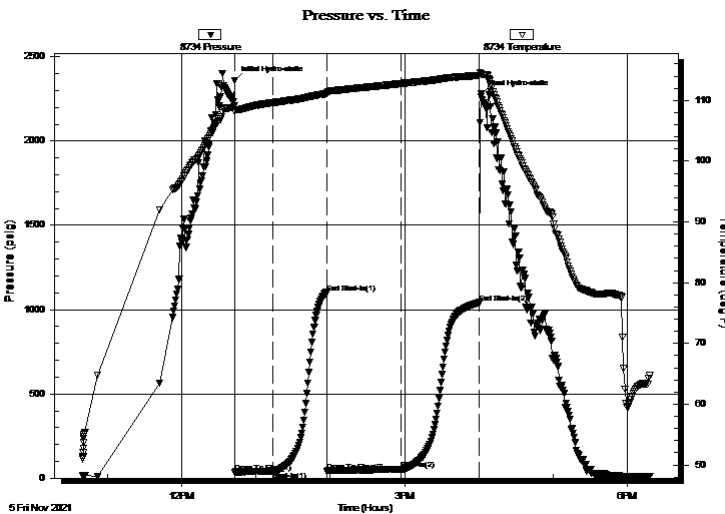
Start Time: 10:40:01 End Time: 18:18:00

Time On Btm: 2021.11.05 @ 12:42:40

Time Off Btm: 2021.11.05 @ 16:01:30

TEST COMMENT: 30-IF-Blow built to 1"
45-ISI-No return
60-FF-Blow built to 2 1/2"
60-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2358.18	109.13	Initial Hydro-static
1	36.29	108.21	Open To Flow (1)
31	41.55	109.63	Shut-In(1)
75	1101.24	111.09	End Shut-In(1)
75	42.03	111.20	Open To Flow (2)
134	52.74	112.76	Shut-In(2)
198	1042.02	114.11	End Shut-In(2)
199	2278.30	114.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 8%G, 37%O, 55%M	0.30
5.00	CGO 4%G, 96%O	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

19-15S.-33W Logan,KS

Mac Trust #1-19

Job Ticket: 68357 **DST#: 5**

Test Start: 2021.11.05 @ 10:40:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:42:50

Time Test Ended: 18:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: 4462.00 ft (KB) To 4525.00 ft (KB) (TVD)

Total Depth: 4525.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2952.00 ft (KB)

2940.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4463.00 ft (KB)

Start Date: 2021.11.05 End Date: 2021.11.05

Start Time: 10:40:01 End Time: 18:17:50

Capacity: 8000.00 psig

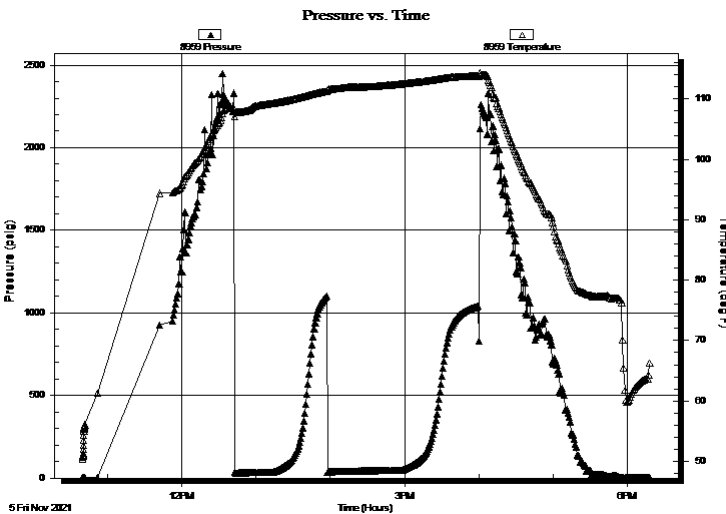
Last Calib.: 2021.11.05

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Blow built to 1"
45-ISI-No return
60-FF-Blow built to 2 1/2"
60-FSI-No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 8%G, 37%O, 55%M	0.30
5.00	CGO 4%G, 96%O	0.02

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

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68357

DST#: 5

ATTN: Larry Nicholson

Test Start: 2021.11.05 @ 10:40:00

Tool Information

Drill Pipe:	Length: 4220.00 ft	Diameter: 3.80 inches	Volume: 59.20 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: 230.00 ft	Diameter: 2.25 inches	Volume: 1.13 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4462.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	95.00 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			4435.00	
Hydraulic tool	5.00	1018		4440.00	
Jars	5.00	01-07		4445.00	
EM Tool	4.00			4449.00	
Safety Joint	3.00	-001		4452.00	
Packer	5.00			4457.00	32.00 Bottom Of Top Packer
Packer	5.00			4462.00	
Stubb	1.00			4463.00	
Recorder	0.00	8959	Inside	4463.00	
Recorder	0.00	8734	Outside	4463.00	
Perforations	23.00			4486.00	
Change Over Sub	1.00			4487.00	
Drill Pipe	32.00			4519.00	
Change Over Sub	1.00			4520.00	
Bullnose	5.00			4525.00	63.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

19-15S.-33W Logan,KS

PO Box 8037
Wichita, KS 67208

Mac Trust #1-19

Job Ticket: 68357

DST#: 5

ATTN: Larry Nicholson

Test Start: 2021.11.05 @ 10:40:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 6.37 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 26.4 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

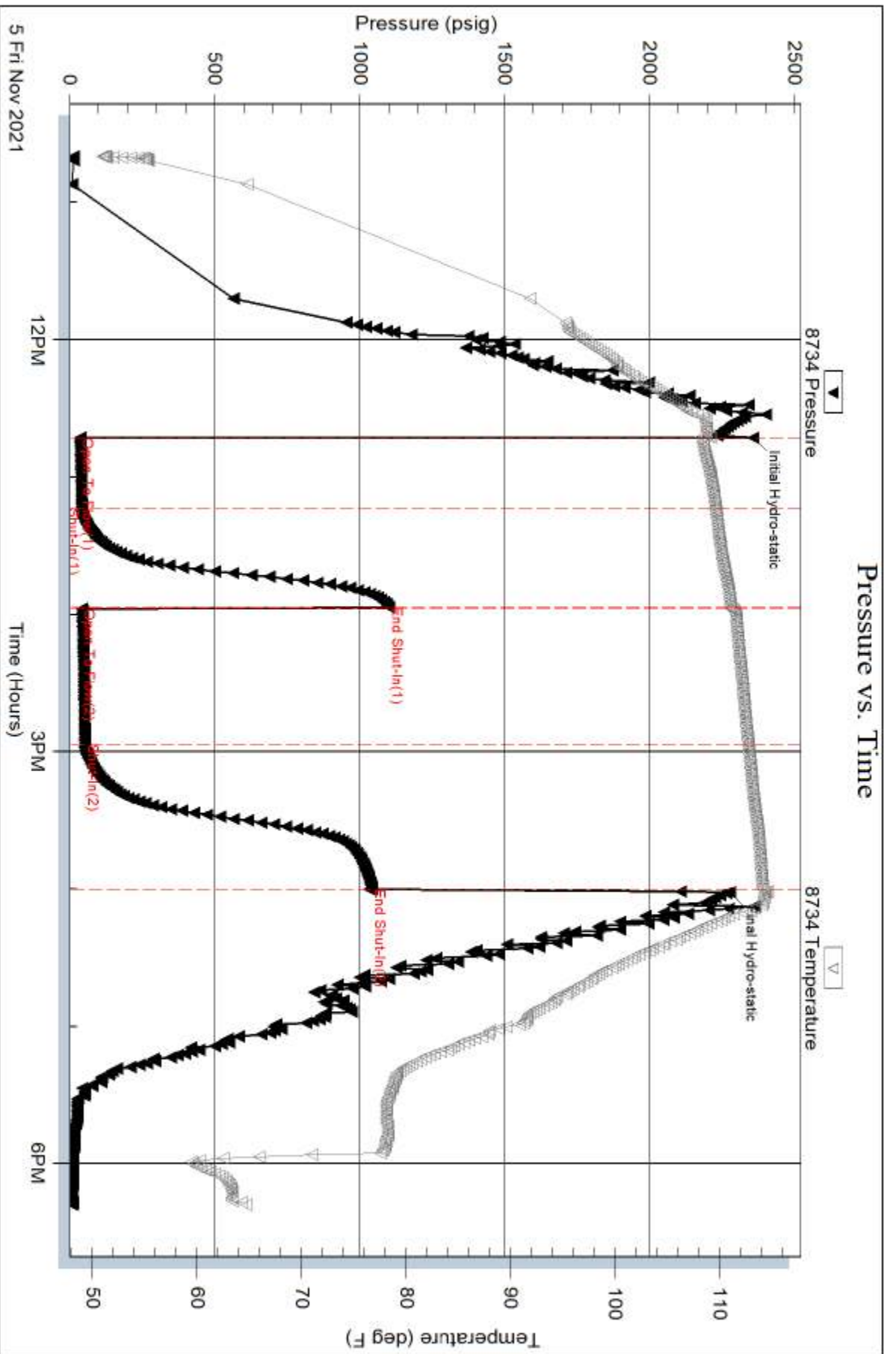
Length ft	Description	Volume bbl
60.00	GHOCM 8%G, 37%O, 55%M	0.295
5.00	CGO 4%G, 96%O	0.025

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity of oil = 27.2 @ 68 degs corrected to 26.4 @ 60 degs



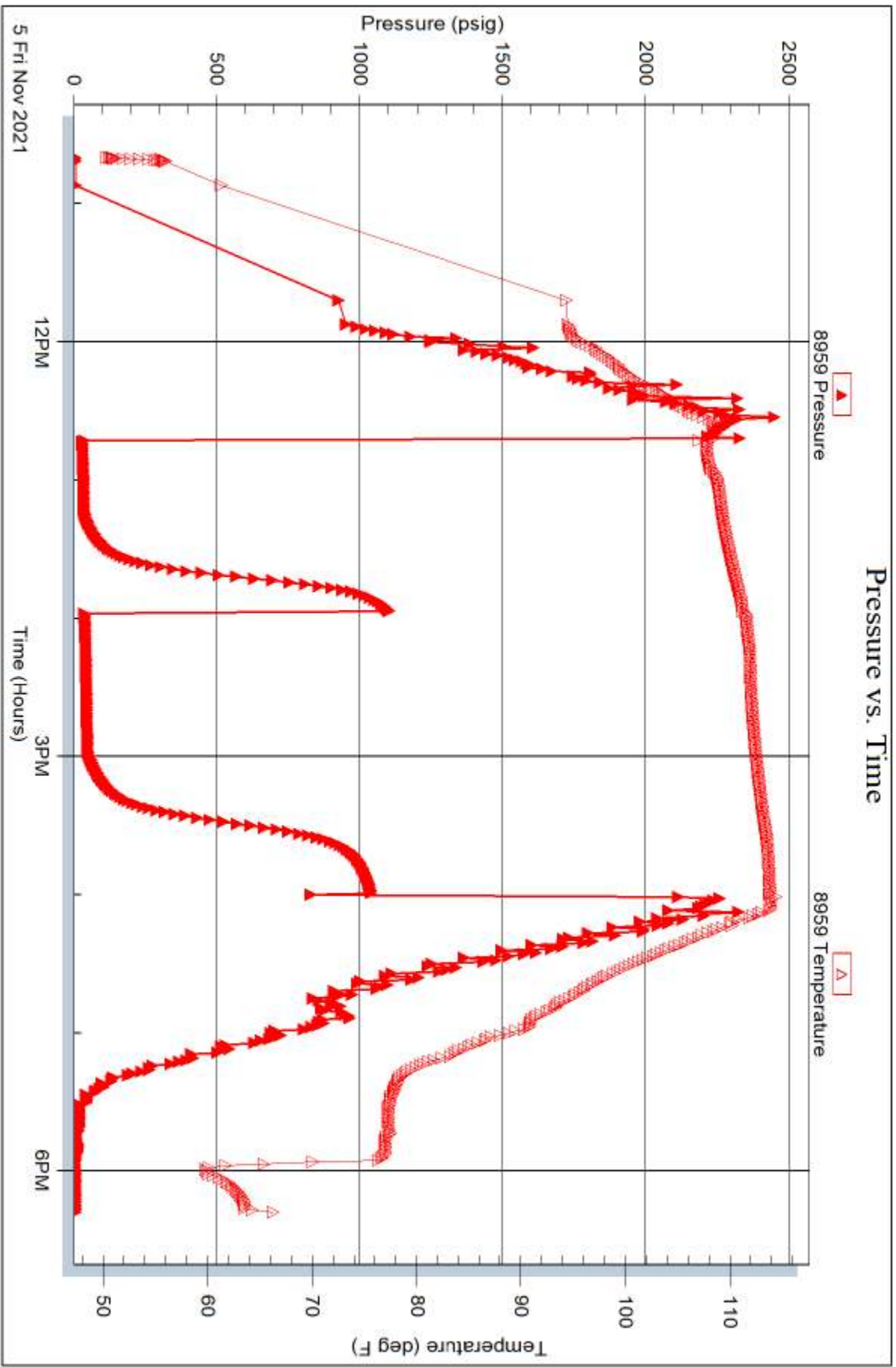
Serial #: 8959

Inside

Cobalt Energy LLC

Mac Trust #1-19

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 68357

Printed: 2021.11.08 @ 10:01:11



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68353**

Well Name & No. Mac Trust #1-19 Test No. 1 Date 11-1-21
 Company Cobalt Energy LLC Elevation 2952 KB 2940 GL
 Address P.O. Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #21
 Location: Sec. 19 Twp 15 S. Rge. 33 W. Co. Logan State KS.

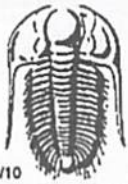
Interval Tested 4080 - 4152 Zone Tested LKC "I"
 Anchor Length 72' Drill Pipe Run 3838 Mud Wt. 9.0
 Top Packer Depth 4075 Drill Collars Run 230 Vis 57
 Bottom Packer Depth 4080 Wt. Pipe Run --- WL 6.4
 Total Depth 4152 Chlorides 3000 ppm System LCM 24
 Blow Description IF - B.O.B (11 inches) @ 11 mins (blow increased to 14 1/4")
ISI - No return.
FF - B.O.B @ 14 mins (blow increased to 12")
ESI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>450</u>	<u>MCW w/oil spots.</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 450 BHT 115 Gravity --- API RW 1.72 @ 40.8 °F Chlorides 17,000 ppm

(A) Initial Hydrostatic <u>2027</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>02:00</u>
(B) First Initial Flow <u>51</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:00</u>
(C) First Final Flow <u>164</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>04:12</u>
(D) Initial Shut-In <u>1204</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>06:57</u>
(E) Second Initial Flow <u>173</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>09:28</u>
(F) Second Final Flow <u>234</u>	<input checked="" type="checkbox"/> Mileage <u>58RT</u> 72.50	Comments
(G) Final Shut-In <u>1210</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2037</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350 NS</u>
Initial Open <u>15</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>15</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1847.50</u>
	Sub Total <u>1847.50</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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68354

Well Name & No. Mac Trust #1-19 Test No. 2 Date 11-2-21
 Company Cobalt Energy LLC Elevation 2952 KB 2940 GL
 Address P.O. Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #21
 Location: Sec. 19 Twp 15 S. Rge. 33W. Co. Logan State KS

Interval Tested 4216-4240 Zone Tested Pleasanton.
 Anchor Length 24' Drill Pipe Run 3964 Mud Wt. 9.1
 Top Packer Depth 4211 Drill Collars Run 230 Vls 59
 Bottom Packer Depth 4216 Wt. Pipe Run — WL 7.2.
 Total Depth 4240 Chlorides 4000 ppm System LCM 2#
 Blow Description IF - Weak surface to 1/4"

ISI - No return

FF - No blow

FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/oil spots.</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 10 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2111
 (B) First Initial Flow 33
 (C) First Final Flow 38
 (D) Initial Shut-In 1298
 (E) Second Initial Flow 36
 (F) Second Final Flow 39
 (G) Final Shut-In 1293
 (H) Final Hydrostatic 2138

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

Test 1450
 Jars 250
 Safety Joint 75
 Circ Sub —
 Hourly Standby —
 Mileage 58 RT 72.50
 Sampler —
 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1847.50

T-On Location 20:00
 T-Started 20:50
 T-Open 23:45
 T-Pulled 01:15
 T-Out 04:40
 Comments —
 EM Tool 350 NS
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1847.50
 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. **68355**

Well Name & No. Mac Trust # 1-19 Test No. 3 Date 11-3-21
 Company Cobalt Energy LLC Elevation 2952 KB 2940 GL
 Address P.O. Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #21
 Location: Sec. 19 Twp 15 S. Rge. 33W. Co. Logan State KS

Interval Tested 4234-4308 Zone Tested Marmaton.
 Anchor Length 74 Drill Pipe Run 3995 Mud Wt. 9.2
 Top Packer Depth 4229 Drill Collars Run 230 Vis 60
 Bottom Packer Depth 4234 Wt. Pipe Run — WL 8.8
 Total Depth 4308 Chlorides 5000 ppm System LCM ZH

Blow Description IF - B.O.B (11 inches) @ 2 mins (blow increased to 64")
ISI - Return blow @ 5 mins to 1/8" + reduced to surface blow
FF - B.O.B @ 3 mins (blow increased to 53 3/4")
FSI - Return blow @ 5 mins to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>SOM.W</u>	<u>5</u>	<u>90</u>	<u>5</u>	
<u>385</u>	<u>GSMWO</u>	<u>31</u>	<u>34</u>	<u>30</u>	<u>5</u>
<u>800</u>	<u>GWCMO</u>	<u>29</u>	<u>28</u>	<u>13</u>	<u>25</u>
<u>0</u>	<u>180' GSP.</u>				

Rec Total 1245. BHT 116 Gravity 30.4 API RW .398 @ 39.8 °F Chlorides 32,000 ppm

- (A) Initial Hydrostatic 2099
- (B) First Initial Flow 155
- (C) First Final Flow 393
- (D) Initial Shut-In 1279
- (E) Second Initial Flow 408
- (F) Second Final Flow 552
- (G) Final Shut-In 1272.
- (H) Final Hydrostatic 2078

- Test 1450
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 58 RT 72.50
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1847.50

- T-On Location 13:45
- T-Started 14:02.
- T-Open 16:14
- T-Pulled 18:29
- T-Out 22:14
- Comments
- EM Tool 350
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 350
- Total 2197.50
- MP/DST Disc't

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

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68356**

Well Name & No. Mac Trust #1-19 Test No. 4 Date 11-4-21
 Company Colbalt Energy LLC Elevation 2952 KB 2940 GL
 Address P.O. Box 8037 Wichita, KS. 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #21
 Location: Sec. 19 Twp 15 S. Rge. 33W. Co. Logan State KS.

Interval Tested 4380-4465 Zone Tested Pawnee/Cherokee
 Anchor Length 85' Drill Pipe Run 4122 Mud Wt. 9.5
 Top Packer Depth 4375 Drill Collars Run 230 Vls 55
 Bottom Packer Depth 4380 Wt. Pipe Run — WL 8.8
 Total Depth 4465 Chlorides 5800 ppm System LCM 2#

Blow Description IF - blow built to 1/4"
ISI - No return
FF - No blow
FSI - No return.

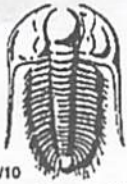
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud w/oil spots.</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 111 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2314 Test 1450 T-On Location 16:30
 (B) First Initial Flow 36 Jars 250 T-Started 16:40
 (C) First Final Flow 36 Safety Joint 75 T-Open 18:35
 (D) Initial Shut-In 321 Circ Sub _____ T-Pulled 20:05
 (E) Second Initial Flow 35 Hourly Standby _____ T-Out 23:01
 (F) Second Final Flow 36 Mileage 58 RT 72.50 Comments _____
 (G) Final Shut-In 316 Sampler _____
 (H) Final Hydrostatic 2156 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 15 Day Standby _____ Sub Total 350
 Initial Shut-In 30 Accessibility _____ Total 2197.50
 Final Flow 15 Sub Total 1847.50 MP/DST Disc't _____
 Final Shut-In 30

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68357**

Well Name & No. Mac Trust #1-19 Test No. 5 Date 11-5-21
 Company Cobalt Energy, LLC Elevation 2952 KB 2940 GL
 Address P.O. Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #21
 Location: Sec. 19 Twp 15 S. Rge. 33 W. Co. Logan State KS.

Interval Tested 4462-4525 Zone Tested Johnson
 Anchor Length 63' Drill Pipe Run 4220 Mud Wt. 9.3
 Top Packer Depth 4457 Drill Collars Run 230 Vis 48
 Bottom Packer Depth 4462 Wt. Pipe Run — WL ~~8.8~~
 Total Depth 4525 Chlorides 5800 ppm System LCM 2#
 Blow Description IF - blow built to 1"
ISI - No return.
FF - blow built to 2 1/2"
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>340 CM</u>	<u>8</u>	<u>37</u>	<u>55</u>	
<u>5</u>	<u>CGO</u>	<u>4</u>	<u>96</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 114 Gravity 26.4 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2358</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>10:30</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:40</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:42</u>
(D) Initial Shut-In <u>1101</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>15:57</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:18</u>
(F) Second Final Flow <u>53</u>	<input checked="" type="checkbox"/> Mileage <u>58 RT</u> 72.50	Comments <u>Tools loaded @</u>
(G) Final Shut-In <u>1042</u>	<input type="checkbox"/> Sampler	<u>19:00</u>
(H) Final Hydrostatic <u>2278</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350 NS</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>60</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>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1847.50</u>
	Sub Total <u>1847.50</u>	MP/DST Disc't

Approved By _____ Our Representative Matt Salinas

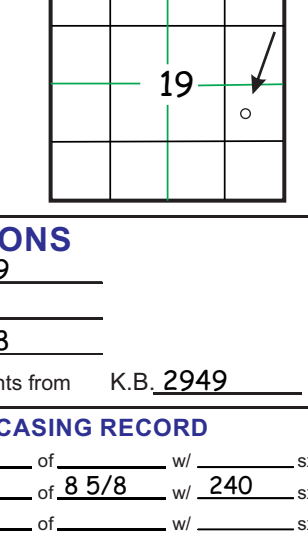
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GEOLOGICAL REPORT FINAL

Larry A. Nicholson

NAD 83
NSD 73425409
101.02449491

COMPANY	Cobalt Energy		
API #	15-109-21629	FIELD	NA
LEASE	MAC TRUST	WELL #	#1-19
LOCATION	SE NW NE SE		
SURVEY	2048' FSL 935' FEL	RGE	33W
SECTION	19	TWP	15S
COUNTY	Logan	STATE	Kansas



CONTRACTOR	Murfin TP Juan	Rig #	21
SPUD	10-29-21 10:00 am	COMP.	K.B. E2949
RTD	4667 2:30am 11-06-21	LTD	4666
MUD UP AT	3525	D.F.	2938
MUD TYPE	Chemical Mud-Co Reid	All measurements from K.B. 2949	

SAMPLES SAVED	FROM 3500 TO RTD	CONDUCTOR	OF	WI	IX		
DRILLING TIME	FROM 3500 TO RTD	Surface	340	OF	8 5/8" WI	240	IX
SAMPLES EXAMINED	FROM 3500 TO RTD	Production	OF	WI	IX		
GEOLOGICAL SUPERVISION	FROM 3500 TO RTD						
WELL SITE GEOLOGIST	LARRY A. NICHOLSON						

ELECTRICAL SURVEYS		Dual	Den	Ntr	Micro
--------------------	--	------	-----	-----	-------

FORMATION TOPS & STRUCTURAL POSITION					
FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG	SUBSEA DATUM	REFERENCE WELL
Anhydrite			2324	625	A
Base Anhydrite			2344	+605	
Heebner			3840	-891	
Stark			4146	-1197	
Marm			4256	-1307	
Pawnee			4360	-1411	
Fort Scott			4415	-1466	
Cherokee Sh			4441	-1492	
Morrow Sh			4567	-1618	
Morrow Sd			4610	-1661	
Mississippian			4622	-1673	
RTD			4667	-1718	

DRILLSTEM TEST SUMMARY: The csg is run based on DST results. The Marmaton.

Dst #1 4080-4152 (LKC I)	15 45 15 90	IP-51-164	FF-173-234	SI-1204-1210
Rec Total Fluid 450' MCW/Water O	IF BOB 11min 14 1/4"	FF BOB 14min 12"		
BHT 115' F	CL 17,000	RW 78 @ 40.8		

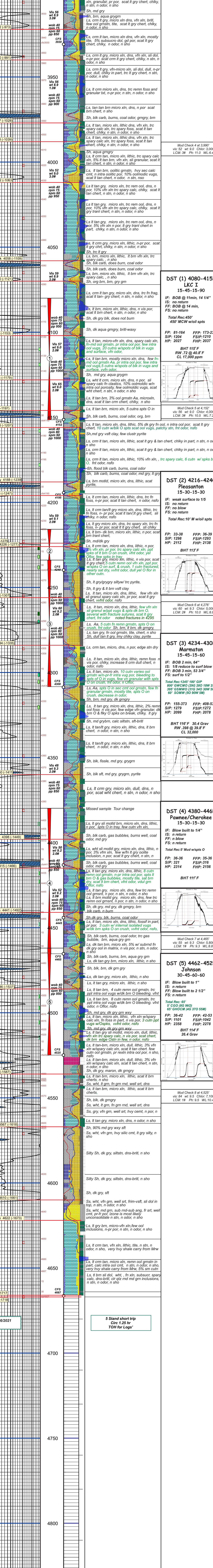
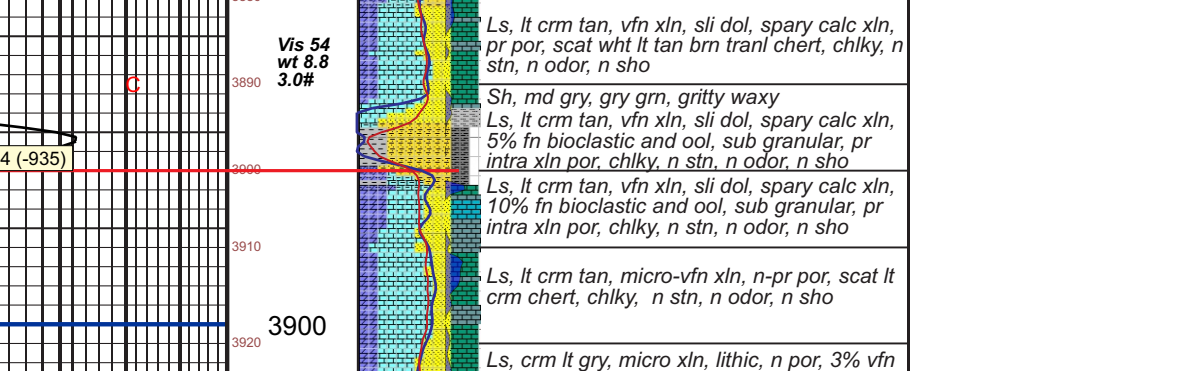
Dst #2 4216-4240 (Pleasanton)	15 30 15 30	IF-33-33	FF-36-39	SI-1298-1293
Rec Total Fluid 10' M oil spets	IF weak surf 1/4, nr	FF no blow, nr		
BHT 113' F				

Dst #3 4234-4308 (Marm)	15 45 15 60	IF-155-393	FF-408-552	SI-1279-1272
Rec Total Fluid 1840' GIP1807	IF BOB 2min, 64"	return 18" dacr surf		
FF BOB 3min, 53 3/4", return 1/2" after 5min 500'				
365' GSMW/O (31G 340 30W 5M)	60' SCOW (50 30W 5M)	BHT 116F, 30.4 Grav		
RW 398 @ 39.9Fm	CL 32,000 ppm			

Dst #4 4380-4465 (Paw CK)	15 30 15 30	IF-36-36	FF-36-36	SI-321-316
Rec Total Fluid 5' M oil spets	IF built to 1/4", nr	FF no blow, nr		
BHT 111' F				

Dst #5 4462-4525 (Johnson)	30 45 60 60	IF-36-42	FF-42-53	SI-1101-1042
Rec Total Fluid 65'	IF blow built to 1", nr	FF blow built to 2 1/2", nr		
9' CGO (40 950)	63' GHOCM (83 30 55M)	28.4 Gravity BHT 114		

LEGEND



RTD 4667' 2:30 am 1/06/2021	LTD 4666'
-----------------------------	-----------

5 Stand short trip
Circ 1.25 hr
TOH For Logs

COMPANY	Cobalt Energy	ELEVATIONS	K.B. 2949
LEASE	MAC TRUST #1-19 SE NW NE SE	D.F.	2938
LOCATION	2048' FSL 935' FEL	RGE	33W
SECTION	19	TWP	15S
COUNTY	Logan	STATE	Ks





CEMENT TREATMENT REPORT

Customer: Cobalt Energy	Well: Mac Trust # 1-19	Ticket: WP-2041
City, State: Oakley KS	County: Logan KS	Date: 10/29/2021
Field Rep: Juan	S-T-R: 19-15S-33W	Service: Surface

Downhole Information	
Hole Size:	12 in
Hole Depth:	304 ft
Casing Size:	8 5/8 in
Casing Depth:	304 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	18.0 bbls

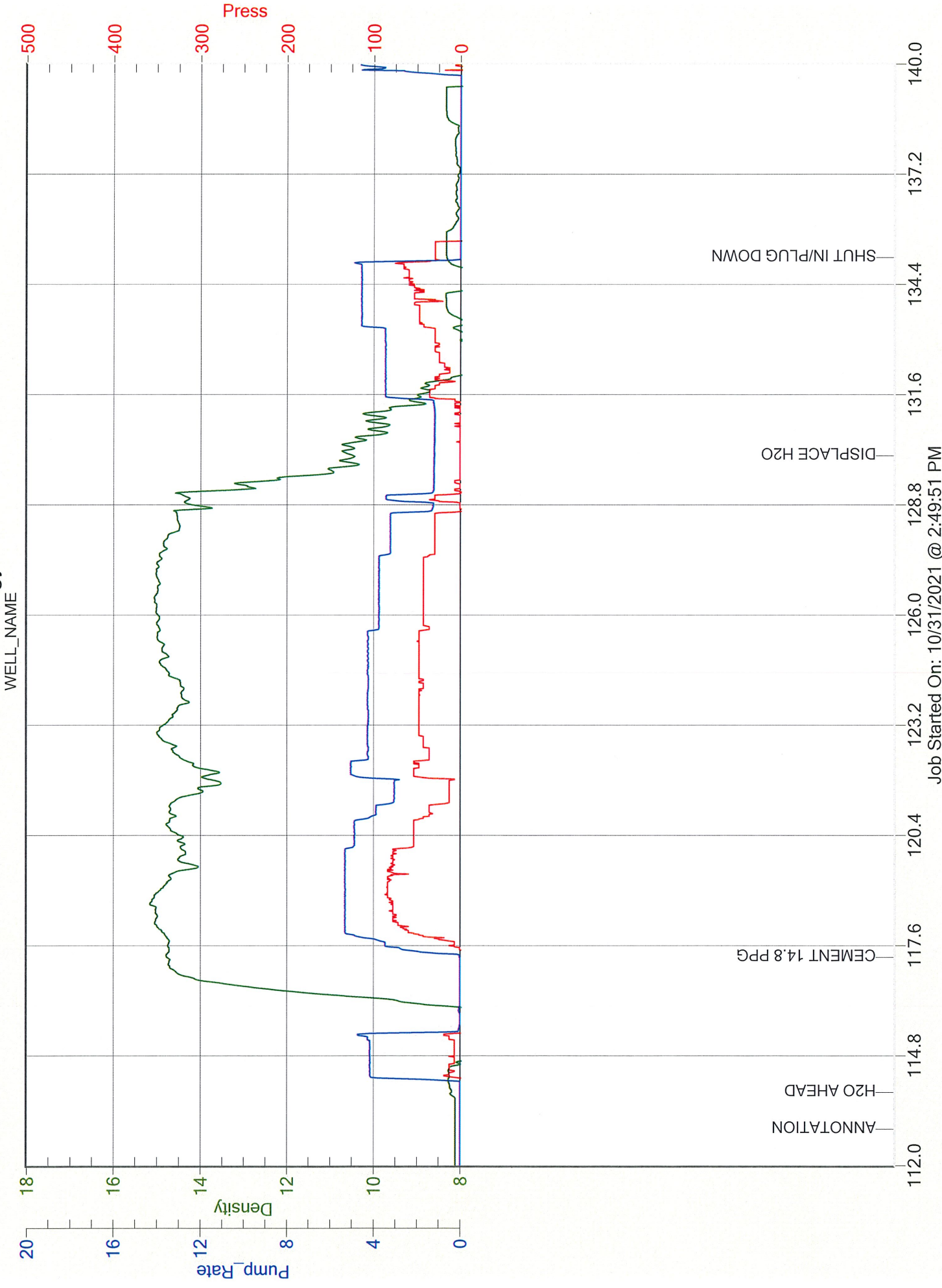
Calculated Slurry - Lead	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.8 gal / sx
Yield:	1.41 ft ³ / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	304 ft
Annular Volume:	22.3 bbls
Excess:	100%
Total Slurry:	60.2 bbls
Total Sacks:	240 sx

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

TIME	RATE	PSI	BBLs	STAGE	TOTAL BBLs	REMARKS
1:30p			-		-	Arrival
1:35p					-	Safety meeting
1:40p					-	Rig up
3:16p					-	Circulate
3:21p	4.7	10.0	5.0		5.0	H2O ahead
3:24p	4.3	50.0	60.2		65.2	Mixed 240 sks @ 14.8 ppg @ 304'
3:41p	4.3	100.0	18.0		83.2	Displaced H2O
3:49p					83.2	Wash up
3:56p					83.2	Rig down
4:15p					83.2	Depart location
					83.2	Circulate 5 bbls cement to pit

CREW			UNIT	SUMMARY		
Cementer:	Jesse J		78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael R		180/520	4.4 bpm	53 psi	83 bbls
Bulk #1:	Jose		205			
Bulk #2:						

Cobalt Energy



Job Started On: 10/31/2021 @ 2:49:51 PM

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

March 11, 2022

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

Re: ACO-1
API 15-109-21629-00-00
MAC TRUST 1-19
SE/4 Sec.19-15S-33W
Logan 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 10/29/2021 and the ACO-1 was received on March 11, 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