

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**

125 N Market ST STE1725
Wichita KS 672 02-1717

ATTN: Larry Nicholson

Sisters Unit #1-2

2-10s-10w Graham,KS

Start Date: 2023.09.24 @ 13:20:00

End Date: 2023.09.24 @ 20:37:00

Job Ticket #: 71232 DST #: 1

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

Printed: 2023.10.02 @ 10:41:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC
125 N Market ST STE1725
Wichita KS 672 02-1717
ATTN: Larry Nicholson

2-10s-10w Graham,KS

Sisters Unit #1-2

Job Ticket: 71232

DST#: 1

Test Start: 2023.09.24 @ 13:20:00

GENERAL INFORMATION:

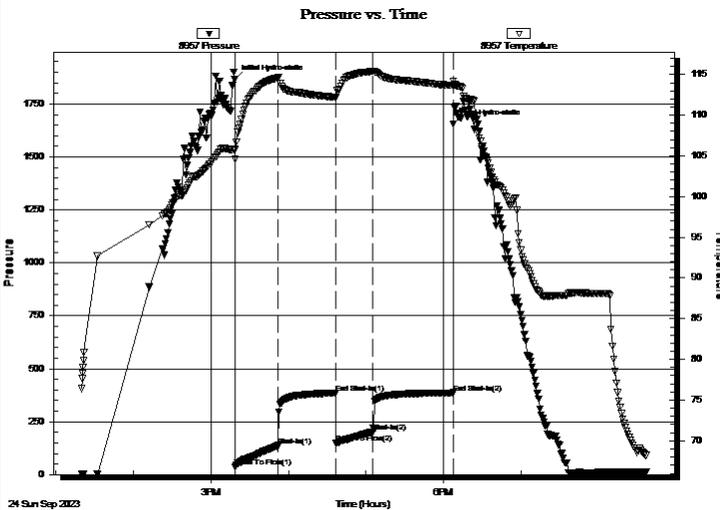
Formation: **LKC-F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:18:45
 Tester: Terrance
 Time Test Ended: 20:37:00
 Unit No: 75
 Interval: **3640.00 ft (KB) To 3665.00 ft (KB) (TVD)**
 Reference Elevations: 2345.00 ft (KB)
 Total Depth: 3665.00 ft (KB) (TVD)
 2340.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8957

Press@RunDepth: 202.68 psig @ 3642.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.09.24 End Date: 2023.09.24 Last Calib.: 2023.09.24
 Start Time: 13:20:05 End Time: 20:36:59 Time On Btm: 2023.09.24 @ 15:18:30
 Time Off Btm: 2023.09.24 @ 18:07:45

TEST COMMENT: IF-30-BOB In 25 min
 IS-45- No return
 FF-30-1 Inch
 FS-60-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1867.35	105.82	Initial Hydro-static
1	34.97	104.55	Open To Flow (1)
34	137.60	114.61	Shut-In(1)
78	385.18	112.20	End Shut-In(1)
79	150.95	112.07	Open To Flow (2)
107	202.68	115.41	Shut-In(2)
169	386.48	113.65	End Shut-In(2)
170	1657.10	114.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
480.00	MW 90%WATER 10 MUD	6.29

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

2-10s-10w Graham,KS

125 N Market ST STE1725
Wichita KS 672 02-1717

Sisters Unit #1-2

Job Ticket: 71232

DST#: 1

ATTN: Larry Nicholson

Test Start: 2023.09.24 @ 13:20:00

Tool Information

Drill Pipe:	Length: 3591.00 ft	Diameter: 3.75 inches	Volume: 49.06 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	51000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3640.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	56.00 ft				
Number of Packers:	2	Diameter: 6.88 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3614.00	
Hydraulic tool	5.00			3619.00	
Jars	5.00			3624.00	
EM Sub	3.00			3627.00	
Safety Joint	3.00			3630.00	
Packer	5.00			3635.00	31.00 Bottom Of Top Packer
Packer	5.00			3640.00	
Stubb	1.00			3641.00	
Perforations	1.00			3642.00	
Recorder	0.00	8957		3642.00	
Recorder	0.00	8320		3642.00	
Perforations	20.00			3662.00	
Bullnose	3.00			3665.00	25.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

2-10s-10w Graham,KS

125 N Market ST STE1725
Wichita KS 672 02-1717

Sisters Unit #1-2

Job Ticket: 71232

DST#: 1

ATTN: Larry Nicholson

Test Start: 2023.09.24 @ 13:20:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	MW 90%WATER 10 MUD	6.295

Total Length: 480.00 ft Total Volume: 6.557 bbl

Num Fluid Samples: 0

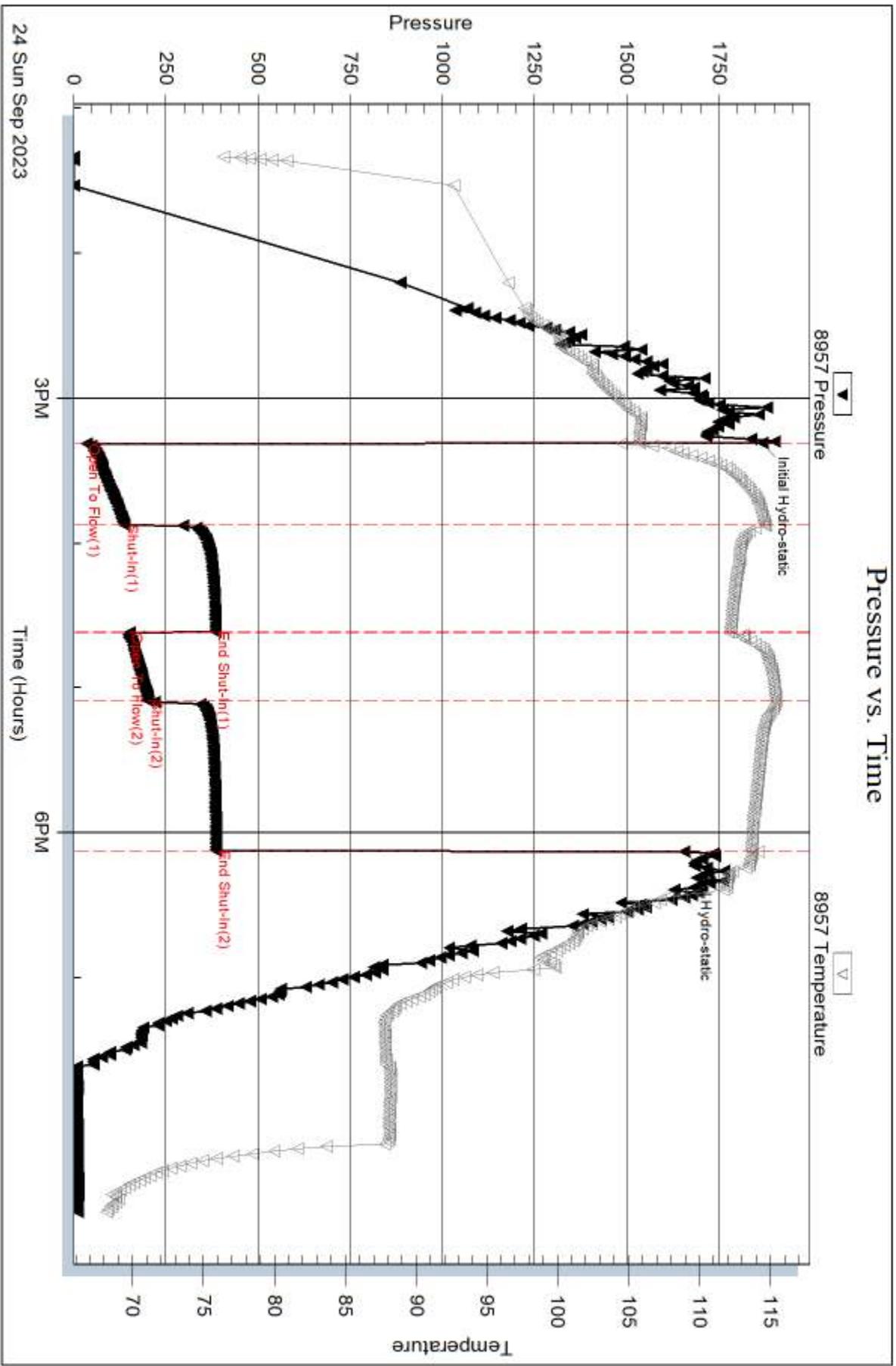
Num Gas Bombs: 0

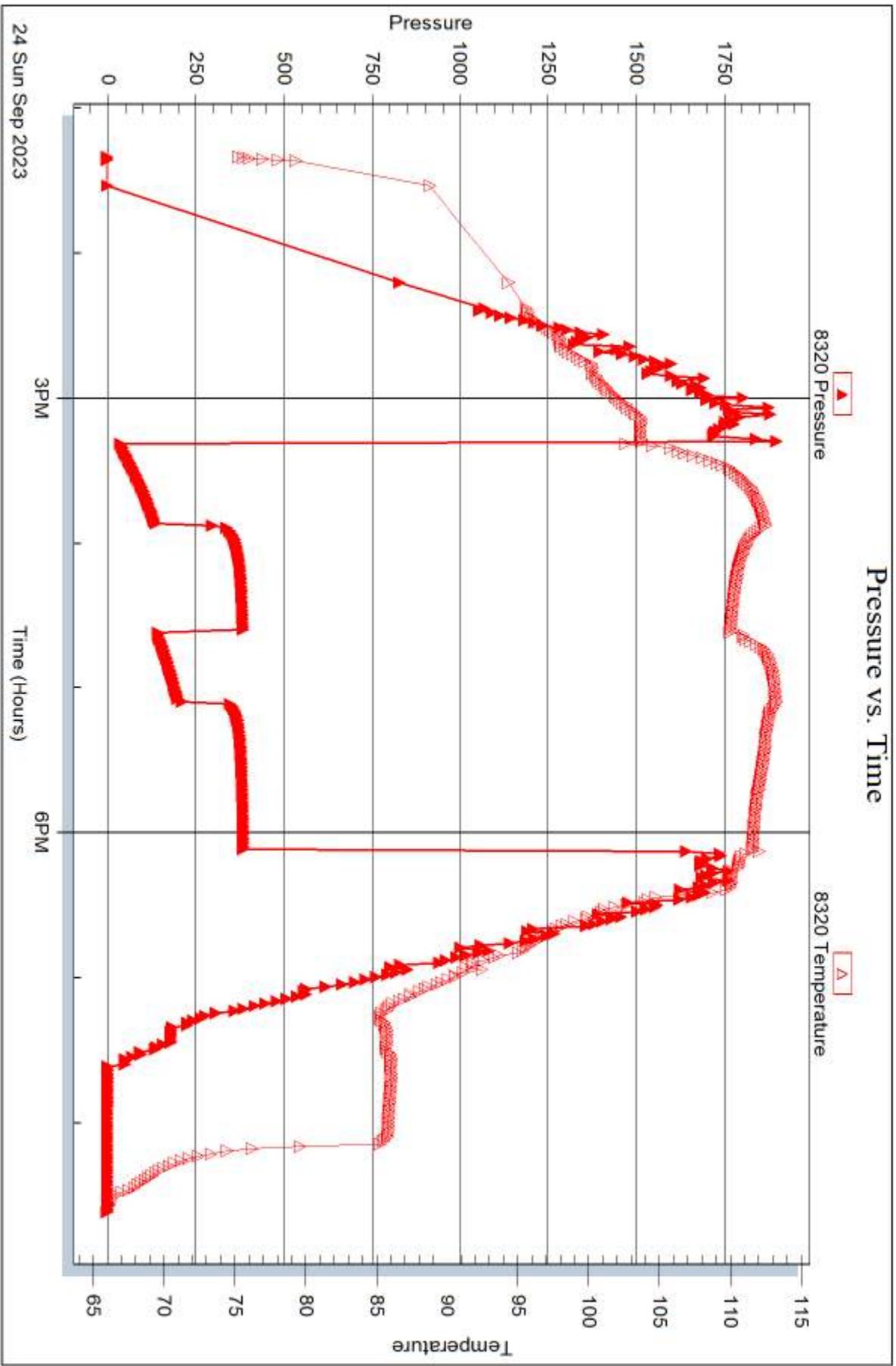
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: ,31- 71 D 2000 CHLORIDES







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

125 N Market ST STE1725
Wichita KS 672 02-1717

ATTN: Larry Nicholson

Sisters Unit #1-2

2-10s-10w Graham,KS

Start Date: 2023.09.25 @ 09:20:00

End Date: 2023.09.25 @ 14:09:45

Job Ticket #: 71233 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.10.02 @ 10:40:51



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC
 125 N Market ST STE1725
 Wichita KS 672 02-1717
 ATTN: Larry Nicholson

2-10s-10w Graham,KS
Sisters Unit #1-2
 Job Ticket: 71233 **DST#: 2**
 Test Start: 2023.09.25 @ 09:20:00

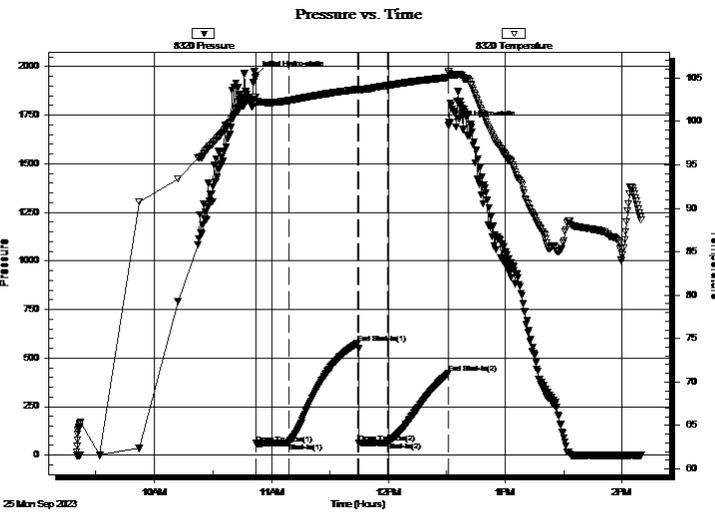
GENERAL INFORMATION:

Formation: **LKC - H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:52:15
 Time Test Ended: 14:09:45
 Interval: **3694.00 ft (KB) To 3758.00 ft (KB) (TVD)**
 Total Depth: 3758.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Terrance
 Unit No: 75
 Reference Elevations: 2345.00 ft (KB)
 2340.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8320

Press@RunDepth: 68.82 psig @ 3702.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.09.25 End Date: 2023.09.25 Last Calib.: 2023.09.25
 Start Time: 09:20:05 End Time: 14:09:44 Time On Btm: 2023.09.25 @ 10:52:00
 Time Off Btm: 2023.09.25 @ 12:31:00

TEST COMMENT: IF-15- Weak surface blow died in 5 min
 IS-30-No return
 FF-15- No blow
 FS- 30- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1957.32	102.80	Initial Hydro-static
1	60.01	102.25	Open To Flow (1)
17	63.62	102.40	Shut-In(1)
53	576.44	103.70	End Shut-In(1)
53	62.51	103.62	Open To Flow (2)
68	68.82	104.14	Shut-In(2)
99	420.90	105.07	End Shut-In(2)
99	1697.68	105.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

2-10s-10w Graham,KS

125 N Market ST STE1725
Wichita KS 672 02-1717

Sisters Unit #1-2

Job Ticket: 71233

DST#: 2

ATTN: Larry Nicholson

Test Start: 2023.09.25 @ 09:20:00

Tool Information

Drill Pipe:	Length: 3657.00 ft	Diameter: 3.75 inches	Volume: 49.96 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	2500.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3694.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	95.00 ft				
Number of Packers:	2	Diameter: 6.88 inches			

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3668.00	
Hydraulic tool	5.00			3673.00	
Jars	5.00			3678.00	
EM Sub	3.00			3681.00	
Safety Joint	3.00			3684.00	
Packer	5.00			3689.00	31.00 Bottom Of Top Packer
Packer	5.00			3694.00	
Stubb	1.00			3695.00	
Perforations	6.00			3701.00	
Change Over Sub	1.00			3702.00	
Recorder	0.00	8957		3702.00	
Recorder	0.00	8320		3702.00	
Drill Pipe	32.00			3734.00	
Change Over Sub	1.00			3735.00	
Perforations	20.00			3755.00	
Bullnose	3.00			3758.00	64.00 Bottom Packers & Anchor
Total Tool Length:	95.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

2-10s-10w Graham,KS

125 N Market ST STE1725
Wichita KS 672 02-1717

Sisters Unit #1-2

Job Ticket: 71233

DST#: 2

ATTN: Larry Nicholson

Test Start: 2023.09.25 @ 09:20:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

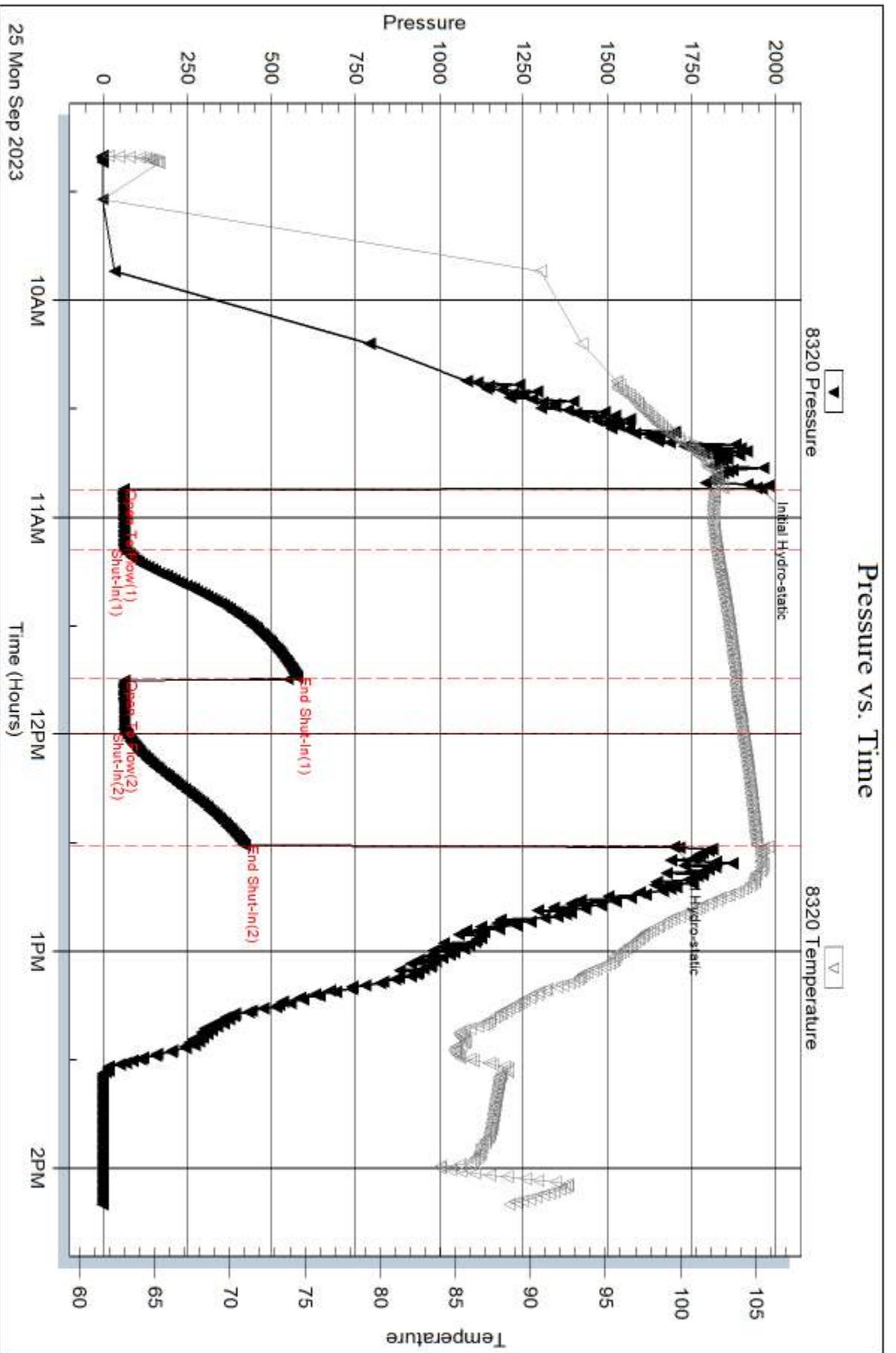
Num Gas Bombs: 0

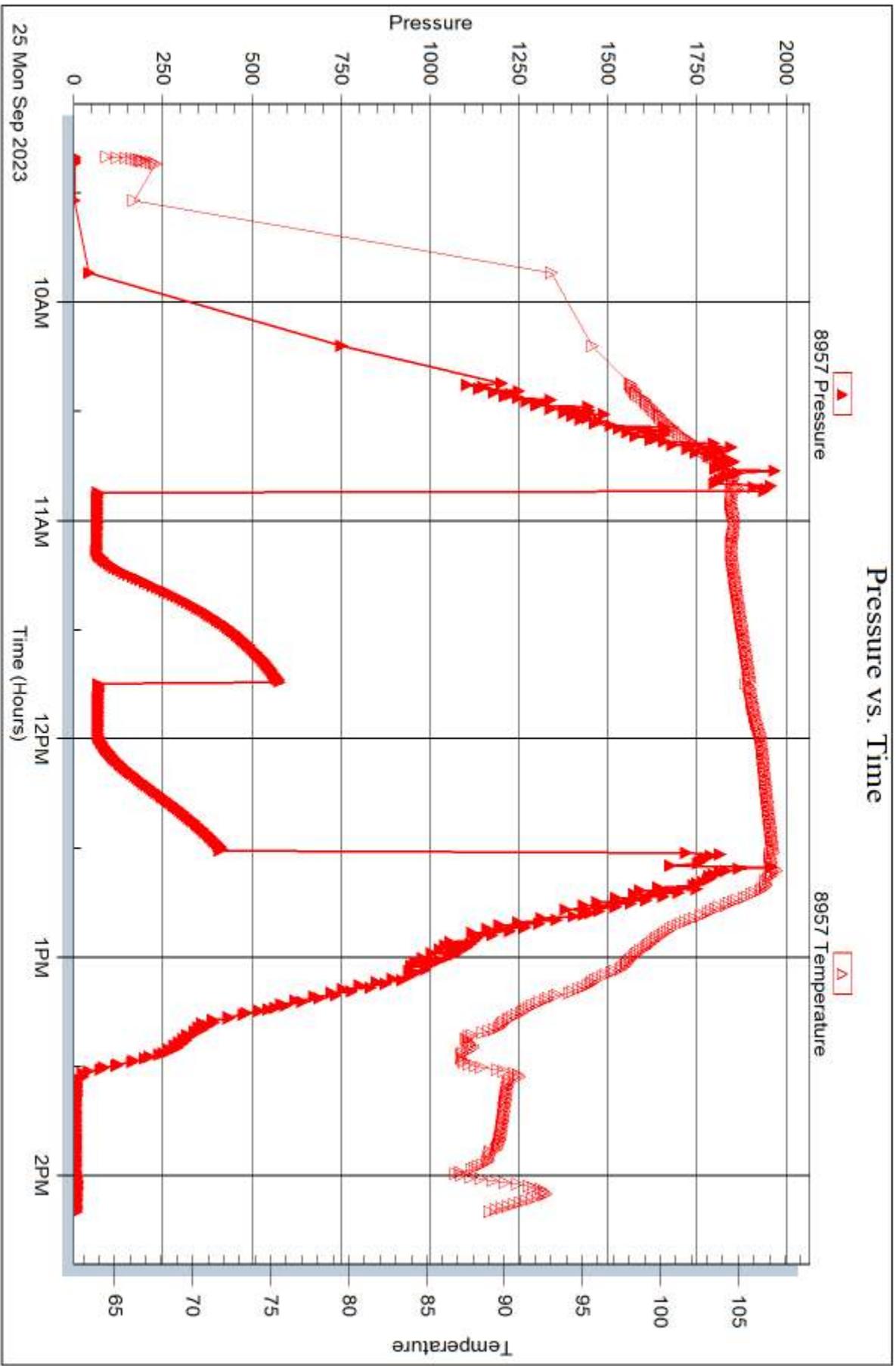
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

125 N Market ST STE1725
Wichita KS 672 02-1717

ATTN: Larry Nicholson

Sisters Unit #1-2

2-10s-10w Graham,KS

Start Date: 2023.09.25 @ 21:26:00

End Date: 2023.09.26 @ 02:55:45

Job Ticket #: 71234 DST #: 3

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

Printed: 2023.10.02 @ 10:36:43



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC
125 N Market ST STE1725
Wichita KS 672 02-1717
ATTN: Larry Nicholson

2-10s-10w Graham,KS
Sisters Unit #1-2
Job Ticket: 71234 **DST#: 3**
Test Start: 2023.09.25 @ 21:26:00

GENERAL INFORMATION:

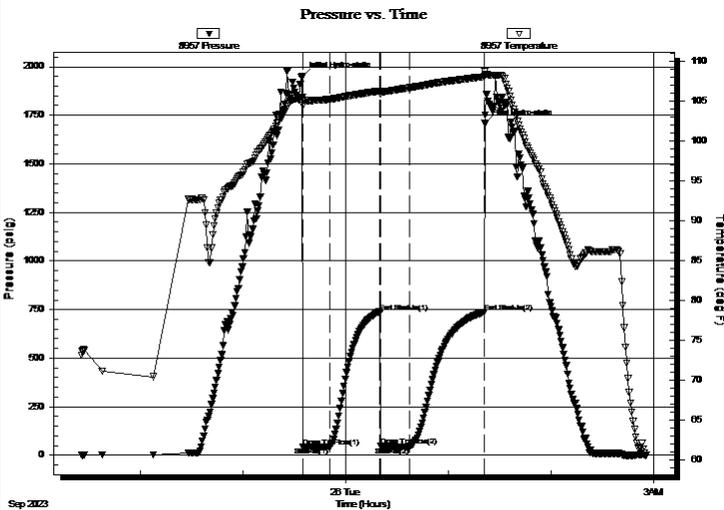
Formation: **LKC - K**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 23:35:00 Tester: Terrance
Time Test Ended: 02:55:45 Unit No: 75
Interval: 3755.00 ft (KB) To 3782.00 ft (KB) (TVD) Reference Elevations: 2345.00 ft (KB)
Total Depth: 3782.00 ft (KB) (TVD) 2340.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8957

Press@RunDepth: 44.73 psig @ 3759.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2023.09.25 End Date: 2023.09.26 Last Calib.: 2023.09.26
Start Time: 21:26:05 End Time: 02:55:44 Time On Btm: 2023.09.25 @ 23:34:45
Time Off Btm: 2023.09.26 @ 01:21:15

TEST COMMENT: IF-15-Weak surface blow
IS-30-No return
FF-15-No blow
FSI-45-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1949.04	105.49	Initial Hydro-static
1	43.51	104.48	Open To Flow (1)
16	41.38	105.28	Shut-In(1)
46	735.07	106.32	End Shut-In(1)
46	46.92	105.93	Open To Flow (2)
63	44.73	106.73	Shut-In(2)
107	737.32	108.11	End Shut-In(2)
107	1707.74	108.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	osm	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

2-10s-10w Graham,KS

125 N Market ST STE1725
Wichita KS 672 02-1717

Sisters Unit #1-2

Job Ticket: 71234

DST#: 3

ATTN: Larry Nicholson

Test Start: 2023.09.25 @ 21:26:00

Tool Information

Drill Pipe:	Length: 3712.00 ft	Diameter: 3.75 inches	Volume: 50.71 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3755.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter: 6.88 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3729.00	
Hydraulic tool	5.00			3734.00	
Jars	5.00			3739.00	
EM Sub	3.00			3742.00	
Safety Joint	3.00			3745.00	
Packer	5.00			3750.00	31.00 Bottom Of Top Packer
Packer	5.00			3755.00	
Stubb	1.00			3756.00	
Perforations	3.00			3759.00	
Recorder	0.00	8957		3759.00	
Recorder	0.00	8320		3759.00	
Perforations	20.00			3779.00	
Bullnose	3.00			3782.00	27.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

2-10s-10w Graham,KS

125 N Market ST STE1725
Wichita KS 672 02-1717

Sisters Unit #1-2

Job Ticket: 71234

DST#: 3

ATTN: Larry Nicholson

Test Start: 2023.09.25 @ 21:26:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	osm	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

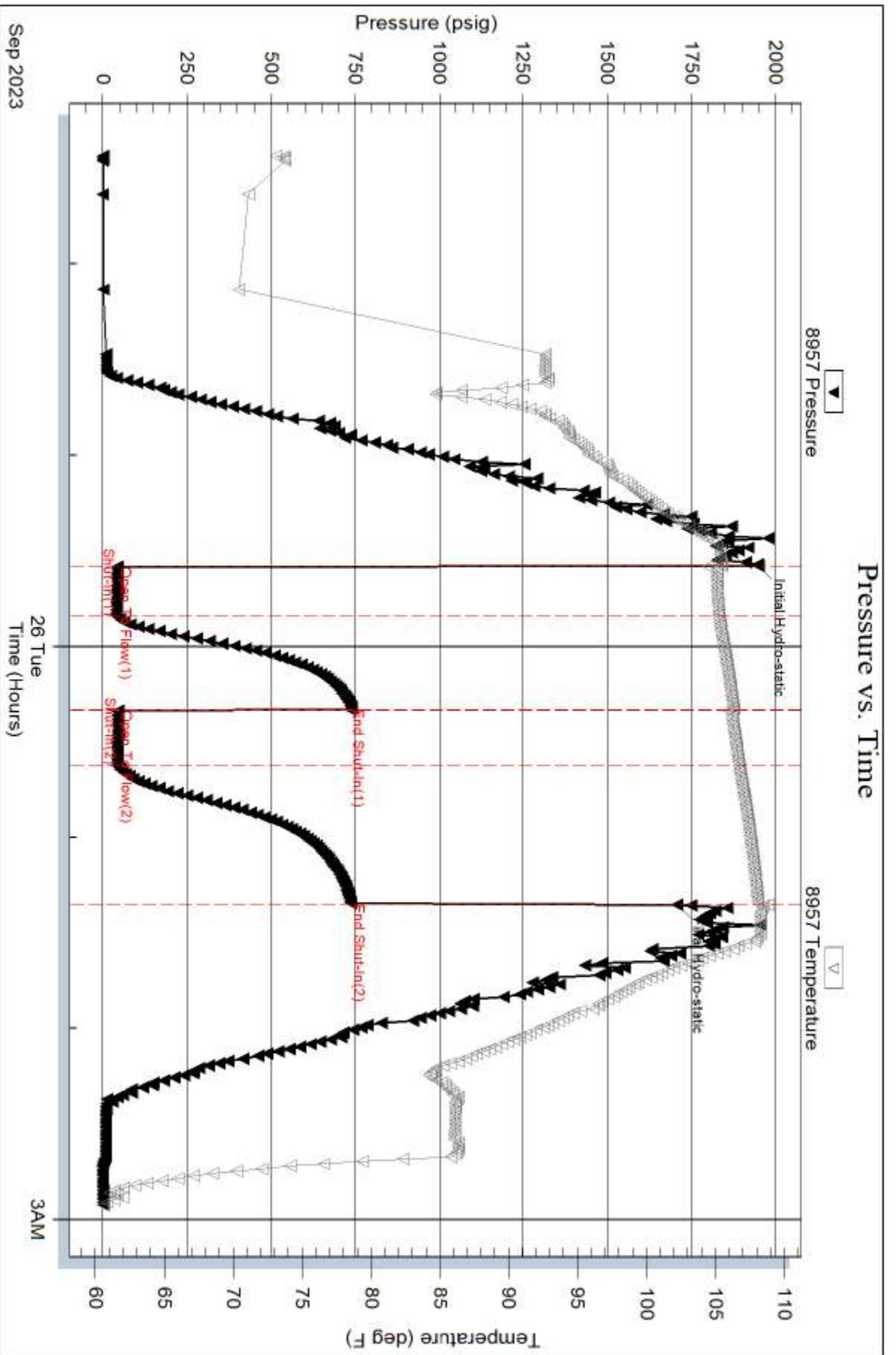
Num Gas Bombs: 0

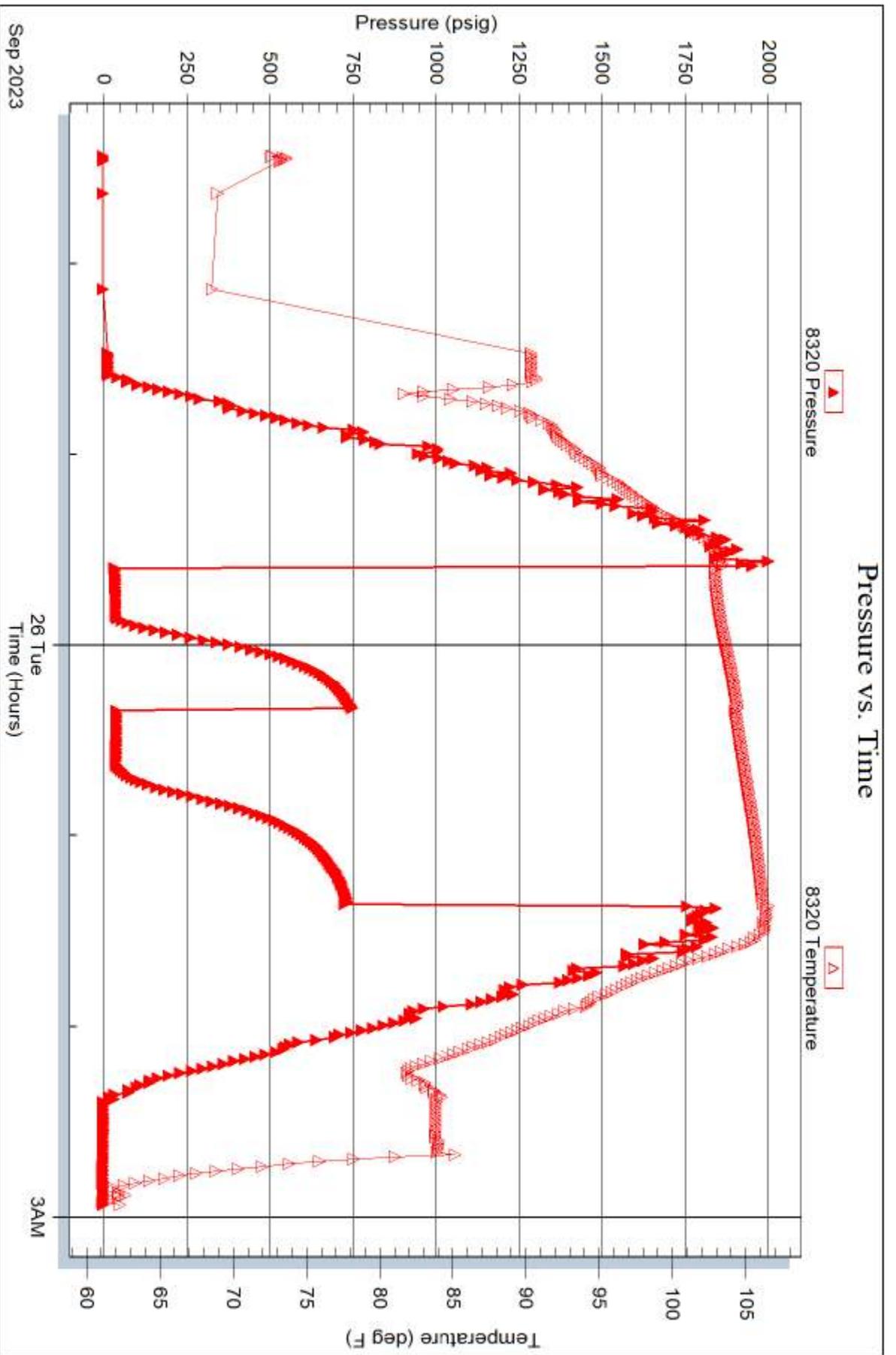
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71232**

Well Name & No. Sisters Unit 1-2 Test No. 1 Date 9-24-23
 Company Cobalt Energy LLC Elevation 2345 KB 2340 GL
 Address 125 N Market ST STE 1725 Wichita, KS 67202-1717
 Co. Rep / Geo Larry Nicholson Rig Murfin 16
 Location: Sec. 7 Twp 10S Rge. 22W Co. Graham State KS

Interval Tested 3640-3665 Zone Tested LKL-F
 Anchor Length 25 Drill Pipe Run ~~3621~~ 3591 Mud Wt. 9.0
 Top Packer Depth 3635 Drill Collars Run 30 Vis 56
 Bottom Packer Depth 3640 Wt. Pipe Run - WL 5.4
 Total Depth 3665 Chlorides 1800 ppm System LCM #
 Blow Description IF-30-BOB in 25min
ISF-45- No Return
FF-30- 1 inch
FSI-60- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>480</u>	<u>MW</u>			<u>90</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 480 BHT _____ Gravity _____ API RW 31 @ 71 °F Chlorides 2000 ppm
 Initial Hydrostatic 1867 Test 1800 Ruined Shale Packer _____
 Initial Flow 35 to 138 Jars 300 Ruined Packer _____
 Initial Shut-In 385 Circ Sub _____ Hotel _____
 Final Flow 151 to 203 Hourly Standby _____ EM Tool Successful -350
 Final Shut-In 346 Mileage 60 x 2 88rt 154 Accessibility _____
 Final Hydrostatic 1657 Sampler _____ Gas Sample _____
 T-On Location 12:00 Straddle _____ Oversized Hole _____
 Initial Flow 30 T-Started 13:20 Shale Packer _____ Sub Total -350
 Initial Shut-In 45 T-Open 15:20 Extra Packer _____ Total 1904
 Final Flow 30 T-Pulled 18:05 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 60 T-Out 20:38 Day Standby _____ MP/DST Disc't _____

Comments _____

Approved By Thanks Our Representative Terrance Wickham

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71233

Well Name & No. Sisters Unit 1-2 Test No. 2 Date 9-25-23
 Company Cobalt Energy LLC Elevation 2345 KB 2340 GL
 Address 125 N Market ST STE 1725 Wichita, KS 67202-1717
 Co. Rep / Geo Larry Nicholson Rig Murfin 16
 Location: Sec. 2 Twp 10s Rge. 22w Co. Graham State KS

Interval Tested ~~3640-3645~~ 3694-3758 Zone Tested LKC - H-J
 Anchor Length 64 Drill Pipe Run 3657 Mud Wt. 9.0
 Top Packer Depth 3689 Drill Collars Run 30 Vis 56
 Bottom Packer Depth 3694 Wt. Pipe Run _____ WL 5.6
 Total Depth 64 Chlorides 1800 ppm System _____ LCM _____
 Blow Description IF-15 - Weak Blow (Died in 5 min)
FSI-30 - No Return
FK-15 - No Blow
FSI-30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>				<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 105 Gravity _____ API RW _____ @ _____ *F Chlorides _____ ppm
 Initial Hydrostatic 1957 Test 1800 Ruined Shale Packer _____
 Initial Flow 60 to 63 Jars 300 Ruined Packer _____
 Initial Shut-In 576 Circ Sub _____ Hotel _____
 Final Flow 62 to 69 Hourly Standby _____ EM Tool Successful -350
 Final Shut-In 420 Mileage 60 x 2 154 Accessibility _____
 Final Hydrostatic 1698 Sampler _____ Gas Sample _____
 T-On Location 09:00 Straddle _____ Oversized Hole _____
 Initial Flow 15 T-Started 09:20 Shale Packer _____ Sub Total -350
 Initial Shut-In 30 T-Open 10:55 Extra Packer _____ Total 1904
 Final Flow 15 T-Pulled 12:30 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 30 T-Out 14:20 Day Standby _____ MP/DST Disc't _____

Comments _____

Approved By Thanks! Our Representative Joe Wil

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71234**

Well Name & No. Sisters Unit 1-2 Test No. B Date 9-25-23
 Company Cobalt Energy Elevation 2345 KB 2340 GL
 Address 125 N Market St. STE 1725 Wichita, KS. 67202-1717
 Co. Rep / Geo Larry Nicholson Rig Martin 16
 Location: Sec. 2 Twp 10S Rge. 22W Co. Graham State KS

Interval Tested 3755-3782 Zone Tested LKC-K
 Anchor Length 27 Drill Pipe Run ~~364~~ 3712 Mud Wt. 9.0
 Top Packer Depth 3750 Drill Collars Run 30 Vis 5K
 Bottom Packer Depth 3755 Wt. Pipe Run _____ WL 5.6
 Total Depth 3782 Chlorides 1400 ppm System LCM _____
 Blow Description IF-15-Weak Surface Blow
ISI-30-No Return
FF-15-No Blow
FSI-45-No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>OSM</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 Initial Hydrostatic 1949 Test 1800 Ruined Shale Packer _____
 Initial Flow 43 to 41 Jars 300 Ruined Packer _____
 Initial Shut-In 735 Circ Sub _____ Hotel _____
 Final Flow 46 to 44 Hourly Standby _____ EM Tool Successful _____
 Final Shut-In 737 Mileage 60 X2 154 Accessibility _____
 Final Hydrostatic 1708 Sampler _____ Gas Sample _____
 T-On Location 21:00 Straddle _____ Oversized Hole _____
 Initial Flow 15 T-Started 21:26 Shale Packer _____ Sub Total 0
 Initial Shut-In 30 T-Open 23:35 Extra Packer _____ Total 2254
 Final Flow 15 T-Pulled 0:120 Extra Recorder _____ Tool Loaded _____ @ _____
 Final Shut-In 45 T-Out 03:00 Day Standby _____ MP/DST Disc't _____

Comments _____

Approved By Thanks Our Representative [Signature]

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

GEOLOGICAL REPORT

Larry A. Nicholson

NAD 83
39.208614974
-99.745805786

COMPANY & WELL **Cobalt Energy Sister Unit #1-2**
LOCATION **1347 FSL & 2423 FWL SE SE NE SW**
SEC **2** TWP **10S** RGE **22W**
COUNTY **Graham** STATE **Ks**

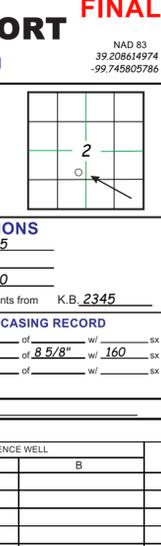
COMPANY **Cobalt Energy**
API # **15-065-24274** FIELD **Brassfield South**
LEASE **Sister Unit** WELL # **#1-2**
LOCATION **SE SE NE SW**
SURVEY **1347 FSL & 2423 FWL**
SECTION **2** TWP **10S** RGE **22W**
COUNTY **Graham** STATE **Kansas**

CONTRACTOR **Murfin Drilling** Rig # **16**
SPUD **8:45 am 09-23-23** COMP **RTD**
RTD **3:49 pm 09-26-23** LTD **3859**
MUD RUN AT **2995**
MUD TYPE **Chemical Mud-CO**

ELEVATIONS
K.B. **2345**
D.F. _____
G.L. **2340**
All measurements from K.B. **2345**

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

CASING RECORD
Conductor _____ of _____ wt _____ ss
Surface **220** of **8.5/8"** wt **160** ss
Production _____ of _____ wt _____ ss



ELECTRICAL SURVEYS Western Neu Den Dual Micro

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELECLOG TOPS	SUBSEA DATUM	REFERENCE WELL
					A
					B

DRILLSTEM TEST SUMMARY :

Dat #1 3640-3665 (LKC F) 30 45 30 60 IF-35-138 FF-151-203 SI-385-386
Rec Total Fluid 480' MM(90W 10M) IF BOB 25 min, nr FF 1", nr
RW 31 at 71, CL 2000 ppm

Dat #2 3694-3758 (LKC H-J) 15 30 15 30 IF-60-63 FF-62-69 SI-576-420
Rec Total Fluid 10' M(100M) IF weak surf died 5 min, nr FF no blow, nr BHT 105F

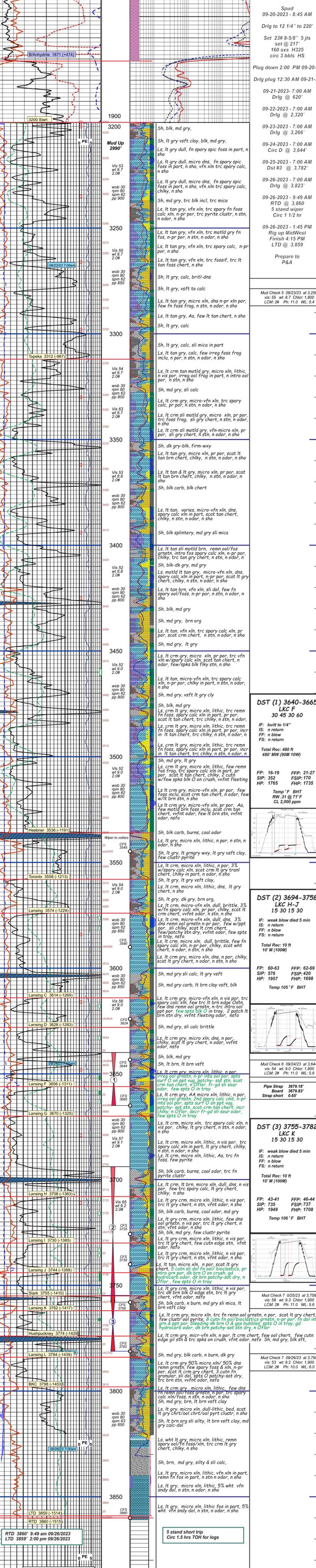
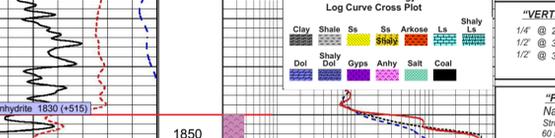
Dat #3 3755-3782 (LKC K) 15 30 15 45 IF-43-41 FF-46-44 SI-735-737
Rec Total Fluid 10' OSM IF weak surf blow, nr FF no blow, nr BHT 105F

REMARKS & RECOMMENDATIONS:

Based on Sample Shows and DST Results
the well was P&T.

Successfully Submitted
Larry Nicholson Geologist

LEGEND



Spud 8:45 AM 09-20-2023
RTD 9:49 AM 09-26-2023

"BIT RECORD"
Surface Bit : Smith 12-14,
Serial RRP9790 out at 220'
Bit No. 1, Smith F1028 7-78"
Serial RRP9877
In 220' - out at RTD

"VERTICAL SURVEYS"
1/4" @ 210'
1/2" @ 3665'
1/2" @ 3860'

"PUMP DATA"
National K-380
Stroke 14", Liner 6"
60 strokes 346 gpm

"DAILY REPORT"
Spud
09-20-2023 - 8:45 AM
Drlg to 12 1/4" to 220'
Set 23# 8-5/8" 5 jts
set @ 217'
160 sxs H325
circ 3 blbls HS

Plug down 2:00 PM 09-20-23
Drlg plug 12:30 AM 09-21-23

09-21-2023 - 7:00 AM
Drlg @ 620'

09-22-2023 - 7:00 AM
Drlg @ 2,320'

09-23-2023 - 7:00 AM
Drlg @ 3,266'

09-24-2023 - 7:00 AM
Circ D @ 3,644'

09-25-2023 - 7:00 AM
Dst #3 @ 3,782'

09-26-2023 - 7:00 AM
Drlg @ 3,823'

09-26-2023 - 9:49 AM
RTD @ 3,860'
5 stand wiper
Circ 1 1/2 hr

Prepare to
P&A

Mud Check 5 09/23/23 at 3,250'
vis: 55 wt: 8.7 Chlor: 1,800
LCM: 2# Ph: 11.0 WL: 5.4

DST (1) 3640-3665
LKC F
30 45 30 60

IF: built to 14"
IS: n return
FF: n blow
FS: n return

Total Rec: 480 ft
480' MM (90M 10W)

FP: 16-19 FFP: 21-27
SIP: 352 FSIP: 170
HP: 1765 FHP: 1735

Temp F BHT
RW: 31 @ 71' F
CL 2,000 ppm

DST (2) 3694-3758
LKC H-J
15 30 15 30

IF: weak blow died 5 min
IS: n return
FF: n blow
FS: n return

Total Rec: 10 ft
10' M (100M)

FP: 60-63 FFP: 62-69
SIP: 576 FSIP: 420
HP: 1957 FHP: 1698

Temp 106 F BHT

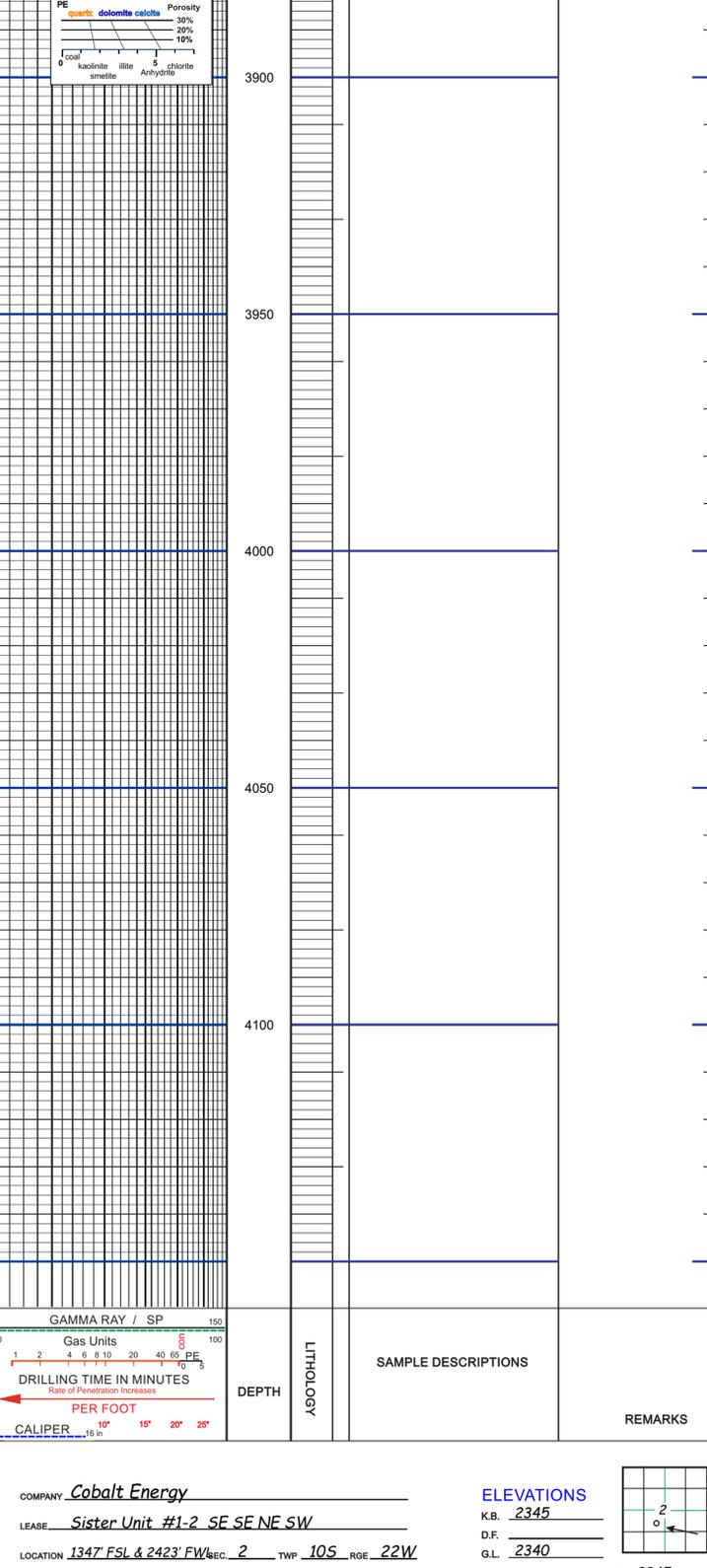
DST (3) 3755-3782
LKC K
15 30 15 30

IF: weak blow died 5 min
IS: n return
FF: n return
FS: n return

Total Rec: 10 ft
10' M (100M)

FP: 43-41 FFP: 46-44
SIP: 735 FSIP: 737
HP: 1949 FHP: 1708

Temp 106 F BHT



COMPANY **Cobalt Energy** ELEVATIONS
LEASE **Sister Unit #1-2 SE SE NE SW** K.B. **2345**
LOCATION **1347 FSL & 2423 FWL** SEC. **2** TWP **10S** RGE **22W** D.F. _____
COUNTY **Graham** STATE **Ks** G.L. **2340**
All measurements from K.B. **2345**



CEMENT TREATMENT REPORT

Customer: Cobalt	Well: Sisters Unit #1-2	Ticket: WP 4738
City, State: Wakeeney KS	County: Graham KS	Date: 9/26/2023
Field Rep: Andy Dinkel	S-T-R: 2-10S-22W	Service: PTA

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-Plug A	Blend:	
Hole Depth:	3860 ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size:	in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.42 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0406 bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	1850 ft	Depth:	ft
Tool / Packer:		Annular Volume:	75.1 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	bbls	Total Slurry:	64.4 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	255 sx	Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
6:45 PM			-	-	Arrived on location
6:55 PM				-	Safety meeting
7:05 PM				-	Rigged up
8:42 PM	4.0	200.0	5.0	5.0	Water ahead
8:43 PM	5.2	250.0	12.6	17.6	Mixed 50 sacks H-Plug A cement 13.8 ppg @ 1850'
8:47 PM	4.0	100.0	18.0	35.6	Begin displacement
				35.6	
9:26 PM	4.0	250.0	5.0	40.6	Water ahead
9:28 PM	5.0	225.0	25.2	65.8	Mixed 100 sacks H-Plug A cement 13.8 ppg @ 1050'
9:34 PM	4.0	100.0	7.0	72.8	Begin displacement
				72.8	
10:04 PM	4.0	100.0	5.0		Water ahead
10:06 PM	4.5	175.0	12.6		Mixed 50 sacks H-Plug A cement 13.8 ppg @ 275'
10:10 PM	2.0	75.0	0.5		Begin displacement
11:07 PM	2.0	100.0	2.5		Mixed 10 sacks H-Plug A cement @ 13.8 ppg with wooden plug for top 40'
11:11 PM	2.0	100.0	3.7		Mixed 15 sacks H-Plug A cement @ 13.8 ppg for mousehole plug
11:15 PM	2.0	100.0	7.5		Mixed 30 sacks H-Plug A cement @ 13.8 ppg for rathole plug
11:19 PM					Plug down
11:21 PM					Washed up and rigged down
11:40 PM					Left location

CREW		UNIT	SUMMARY		
Cementer:	John	205	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jose V	208	3.6 bpm	148 psi	105 bbls
Bulk #1:					
Bulk #2:					

