

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 Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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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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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	HUTCHINSON 1-9
Doc ID	1578104

All Electric Logs Run

Dual induction
Neutron density
Micro
Sonic



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Corey Baker

Hutchinson #1-9

9-7s-19w Rooks,KS

Start Date: 2021.05.12 @ 11:05:58

End Date: 2021.05.12 @ 19:22:00

Job Ticket #: 61761 DST #: 1

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

Printed: 2021.05.17 @ 11:06:33



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 61761

DST#: 1

ATTN: Corey Baker

Test Start: 2021.05.12 @ 11:05:58

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:55:30

Time Test Ended: 19:22:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Paul Simpson

Unit No: 72

Interval: 3116.00 ft (KB) To 3155.00 ft (KB) (TVD)

Reference Elevations: 1963.00 ft (KB)

Total Depth: 3155.00 ft (KB) (TVD)

1958.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 767.88 psig @ 3119.00 ft (KB)

Capacity: psig

Start Date: 2021.05.12

End Date:

2021.05.12

Last Calib.:

2021.05.12

Start Time:

11:05:59

End Time:

19:22:00

Time On Btm:

2021.05.12 @ 13:54:45

Time Off Btm:

2021.05.12 @ 15:51:30

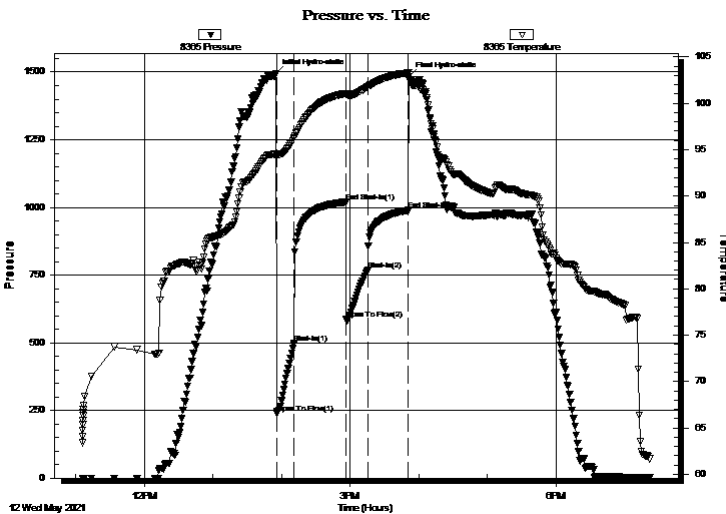
TEST COMMENT: 15 IF blow built to BOB 6 min but valve w as partially closed then built to 325"

45- ISI blow built to 89"

15- FF blow built to BOB in 3 min then built to 301" gas to surface w hen bleeding blow off

30- FSI blow built to 2.5" (also let it blow in bucket)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1495.45	94.59	Initial Hydro-static
1	240.14	94.44	Open To Flow (1)
17	499.34	96.27	Shut-In(1)
62	1019.78	101.00	End Shut-In(1)
62	586.27	100.93	Open To Flow (2)
81	767.88	101.82	Shut-In(2)
116	989.58	103.28	End Shut-In(2)
117	1483.29	103.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	HOCM 20% O 80% M	0.61
1975.00	gassy oil 10% G 90% M	27.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 61761

DST#: 1

ATTN: Corey Baker

Test Start: 2021.05.12 @ 11:05:58

Tool Information

Drill Pipe:	Length: 2933.00 ft	Diameter: 3.80 inches	Volume: 41.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3116.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3096.00	
Hydraulic tool	5.00			3101.00	
gap sub	3.00			3104.00	
Safety Joint	2.00			3106.00	
Top Packer	5.00			3111.00	
Packer	5.00			3116.00	25.00 Bottom Of Top Packer
Anchor	2.00			3118.00	
Recorder	1.00	8365	Inside	3119.00	
Recorder	1.00	6752	Outside	3120.00	
change Over Sub	1.00			3121.00	
blank spacing	31.00			3152.00	
change Over Sub	1.00			3153.00	
Bullnose	3.00			3156.00	40.00 Anchor Tool

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 61761

DST#: 1

ATTN: Corey Baker

Test Start: 2021.05.12 @ 11:05:58

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	HOCM 20% O 80% M	0.615
1975.00	gassy oil 10% G 90% M	27.139

Total Length: 2100.00 ft Total Volume: 27.754 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

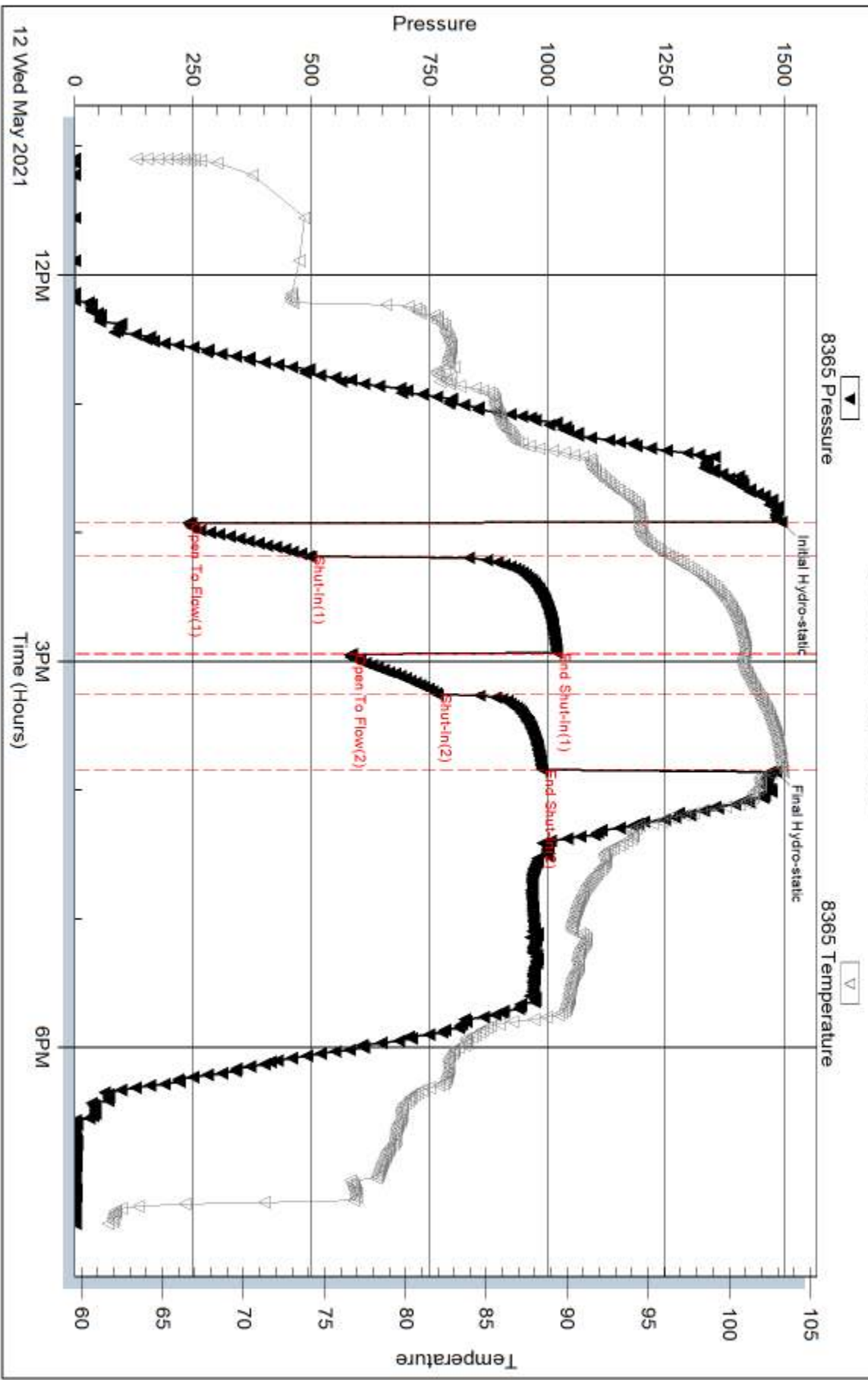
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gas to surface at end of final flow
Gravity 37@70

Pressure vs. Time

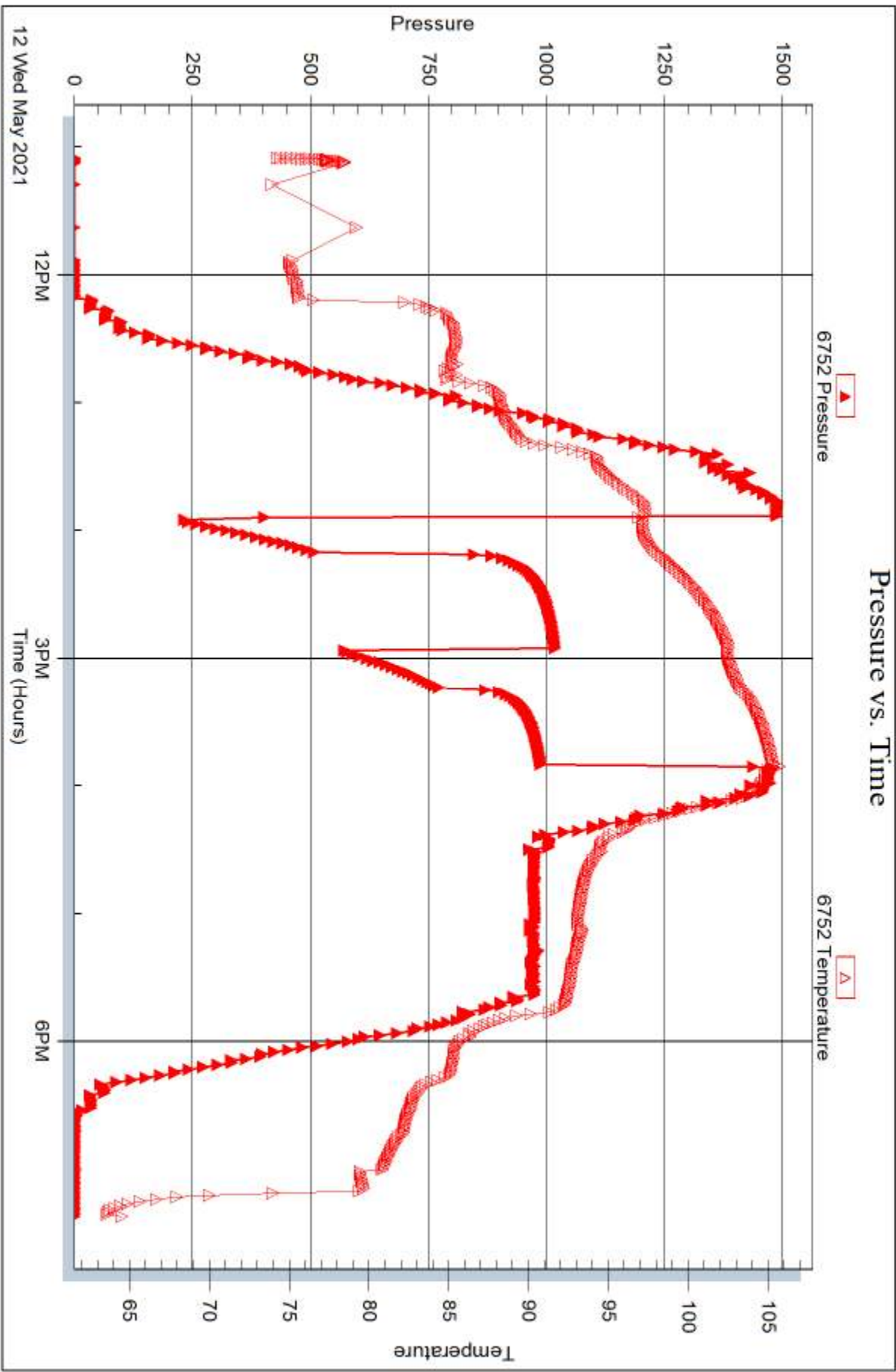


Serial #: 6752

Outside Cobalt Energy LLC

Hutchinson #1-9

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Corey Baker

Hutchinson #1-9

9-7s-19w Rooks,KS

Start Date: 2021.05.13 @ 07:53:00

End Date: 2021.05.13 @ 16:45:20

Job Ticket #: 67003 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.05.17 @ 11:06:04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

ATTN: Corey Baker

Job Ticket: 67003

DST#: 2

Test Start: 2021.05.13 @ 07:53:00

GENERAL INFORMATION:

Formation: **LKC "A - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:33:21

Time Test Ended: 16:45:20

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 3161.00 ft (KB) To 3232.00 ft (KB) (TVD)

Reference Elevations: 1963.00 ft (KB)

Total Depth: 3232.00 ft (KB) (TVD)

1958.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 62.50 psig @ 3162.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.13

End Date:

2021.05.13

Last Calib.: 2021.05.13

Start Time: 07:53:01

End Time:

16:45:20

Time On Btm: 2021.05.13 @ 10:33:06

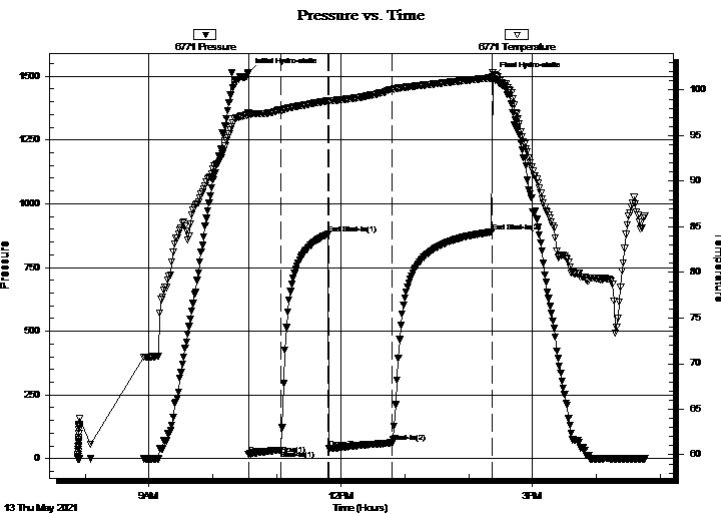
Time Off Btm: 2021.05.13 @ 14:22:36

TEST COMMENT: 30 - IF: Blow built to 2 1/4"

45 - IS: No blow back

60 - FF: Blow built to 2"

90 - FS: Blow back built to 1/8"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1515.30	97.47	Initial Hydro-static
1	18.06	97.22	Open To Flow (1)
31	34.21	97.83	Shut-In(1)
75	880.79	98.81	End Shut-In(1)
76	38.93	98.61	Open To Flow (2)
136	62.50	100.08	Shut-In(2)
229	889.47	101.33	End Shut-In(2)
230	1498.08	101.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MW w/trace oil 54%w, 42%m, 4%g	0.39
0.00	Heavy oil spots in tool	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

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 67003

DST#: 2

ATTN: Corey Baker

Test Start: 2021.05.13 @ 07:53:00

Tool Information

Drill Pipe:	Length: 2961.00 ft	Diameter: 3.80 inches	Volume: 41.54 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 42.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3161.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 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
Change Over Sub	1.00			3129.00	
Shut In Tool	5.00			3134.00	
Hydraulic tool	5.00			3139.00	
Jars	5.00			3144.00	
Gap Sub	4.00			3148.00	
Safety Joint	3.00			3151.00	
Packer	5.00			3156.00	33.00 Bottom Of Top Packer
Packer	5.00			3161.00	
Packer - Shale	0.00			3161.00	
Stubb	1.00			3162.00	
Recorder	0.00	6771	Inside	3162.00	
Recorder	0.00	8367	Outside	3162.00	
Perforations	30.00			3192.00	
Blank Spacing	34.00			3226.00	
Perforations	3.00			3229.00	
Bullnose	3.00			3232.00	71.00 Bottom Packers & Anchor
Total Tool Length:	104.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 67003

DST#: 2

ATTN: Corey Baker

Test Start: 2021.05.13 @ 07:53:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 5.79 in³
Resistivity: ohm.m
Salinity: 2400.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: 27000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	MW w/trace oil 54%w , 42%m, 4%g	0.393
0.00	Heavy oil spots in tool	0.000

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

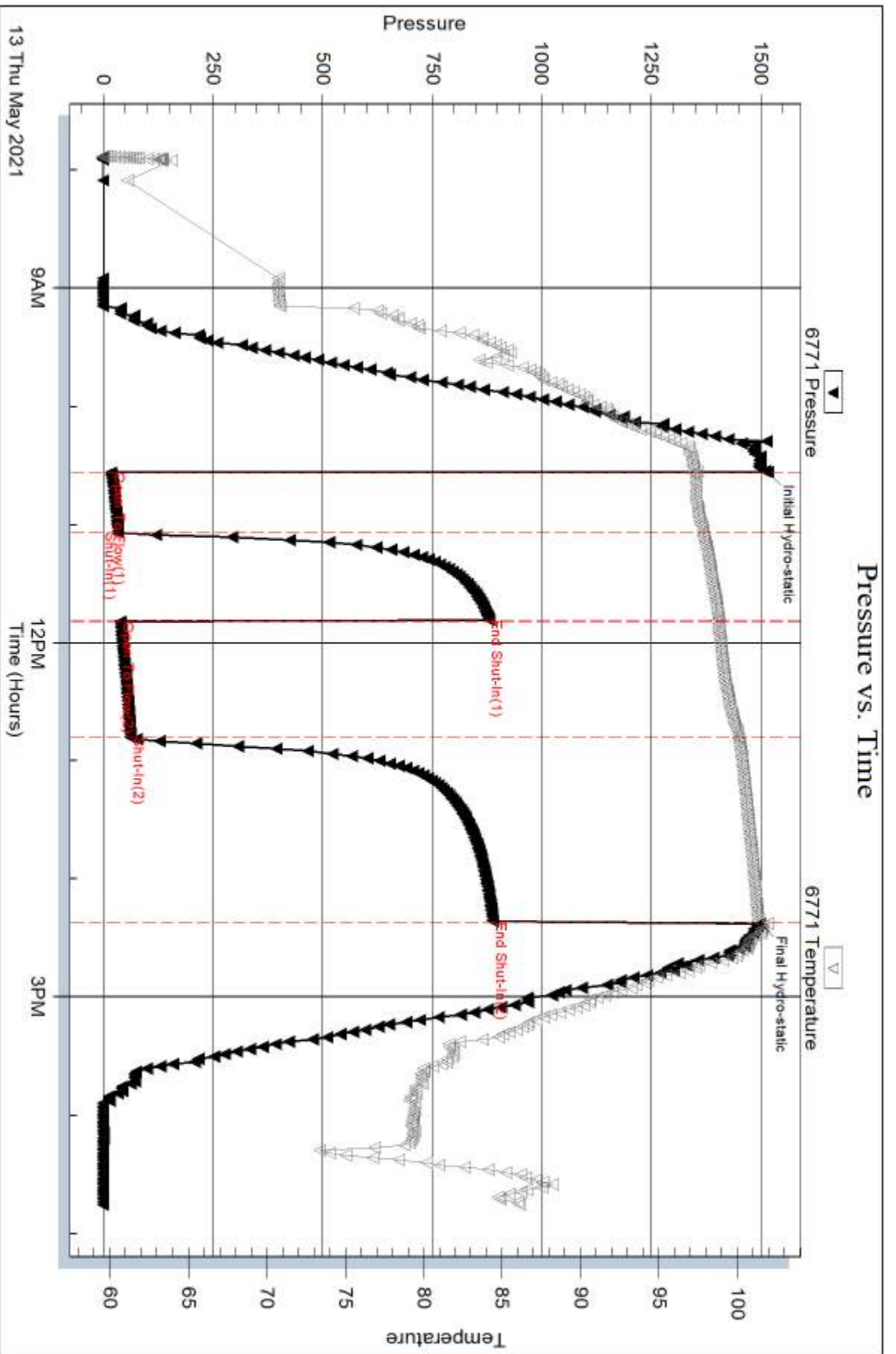
Num Gas Bombs: 0

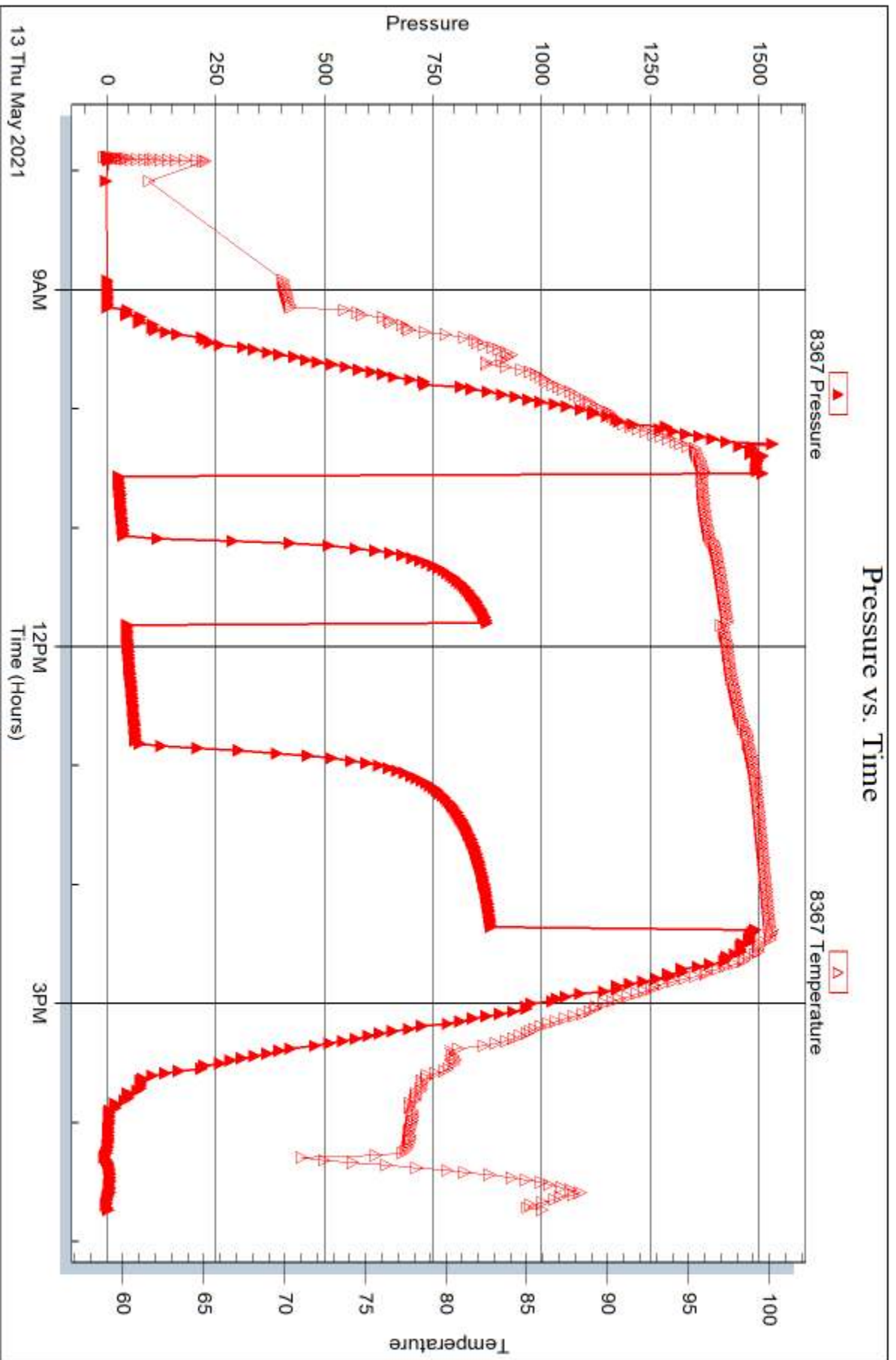
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .225 ohms @ 80 deg F Chlorides = 27,000 ppm







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Corey Baker

Hutchinson #1-9

9-7s-19w Rooks,KS

Start Date: 2021.05.14 @ 00:50:00

End Date: 2021.05.14 @ 08:03:51

Job Ticket #: 67004 DST #: 3

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

Printed: 2021.05.17 @ 11:05:39

Cobalt Energy LLC
9-7s-19w Rooks,KS
Hutchinson #1-9
DST # 3
LKC "E - G"
2021.05.14



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 67004

DST#: 3

ATTN: Corey Baker

Test Start: 2021.05.14 @ 00:50:00

GENERAL INFORMATION:

Formation: **LKC "E - G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:42:06

Time Test Ended: 08:03:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 3228.00 ft (KB) To 3270.00 ft (KB) (TVD)

Reference Elevations: 1963.00 ft (KB)

Total Depth: 3270.00 ft (KB) (TVD)

1958.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 28.96 psig @ 3229.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.14

End Date:

2021.05.14

Last Calib.: 2021.05.14

Start Time: 00:50:01

End Time:

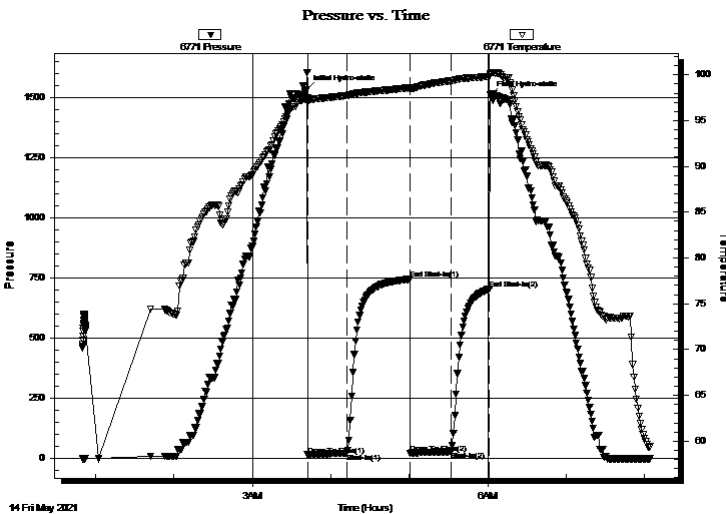
08:03:51

Time On Btm: 2021.05.14 @ 03:41:36

Time Off Btm: 2021.05.14 @ 06:01:36

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1 1/2"
45 - IS: Surface blow at end of close
30 - FF: Surface blow started at 10 min., built to 1/2"
30 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1531.64	97.41	Initial Hydro-static
1	16.20	97.17	Open To Flow (1)
31	22.46	97.73	Shut-In(1)
79	744.82	98.58	End Shut-In(1)
80	23.42	98.38	Open To Flow (2)
110	28.96	99.33	Shut-In(2)
140	704.56	99.84	End Shut-In(2)
140	1508.58	100.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud w /trace oil 100%m	0.22
0.00	Oil spots in tool	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 67004

DST#: 3

ATTN: Corey Baker

Test Start: 2021.05.14 @ 00:50:00

Tool Information

Drill Pipe:	Length: 3023.00 ft	Diameter: 3.80 inches	Volume: 42.40 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 43.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3228.00 ft			Final 6100.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 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			3201.00	
Shut In Tool	5.00			3206.00	
Hydraulic tool	5.00			3211.00	
Gap Sub	4.00			3215.00	
Safety Joint	3.00			3218.00	
Packer	5.00			3223.00	28.00 Bottom Of Top Packer
Packer	5.00			3228.00	
Stubb	1.00			3229.00	
Recorder	0.00	6771	Inside	3229.00	
Recorder	0.00	8367	Outside	3229.00	
Perforations	38.00			3267.00	
Bullnose	3.00			3270.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 67004

DST#: 3

ATTN: Corey Baker

Test Start: 2021.05.14 @ 00:50:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 5.79 in³
Resistivity: ohm.m
Salinity: 2400.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud w /trace oil 100%m	0.221
0.00	Oil spots in tool	0.000

Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

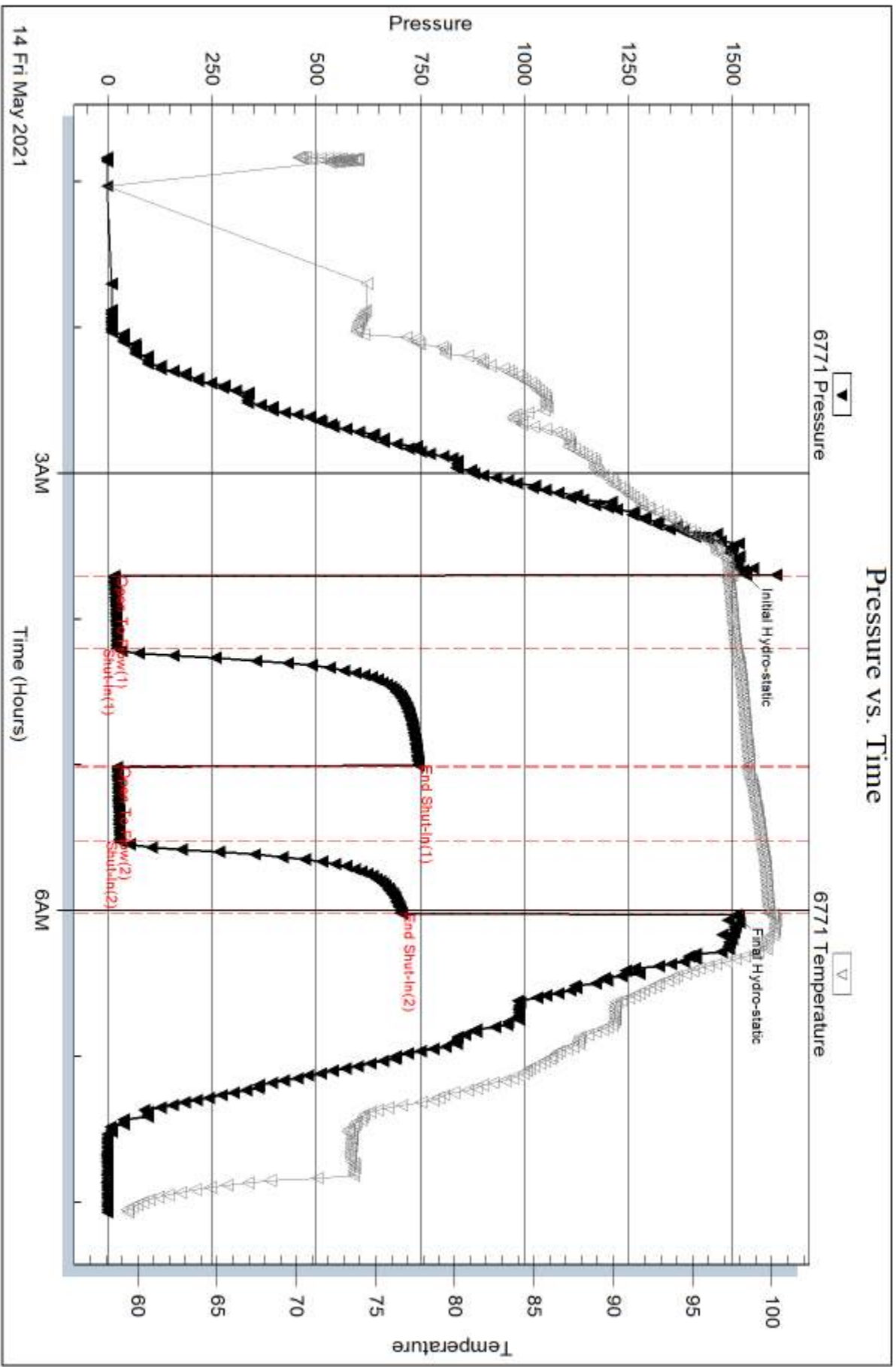
Serial #: 6771

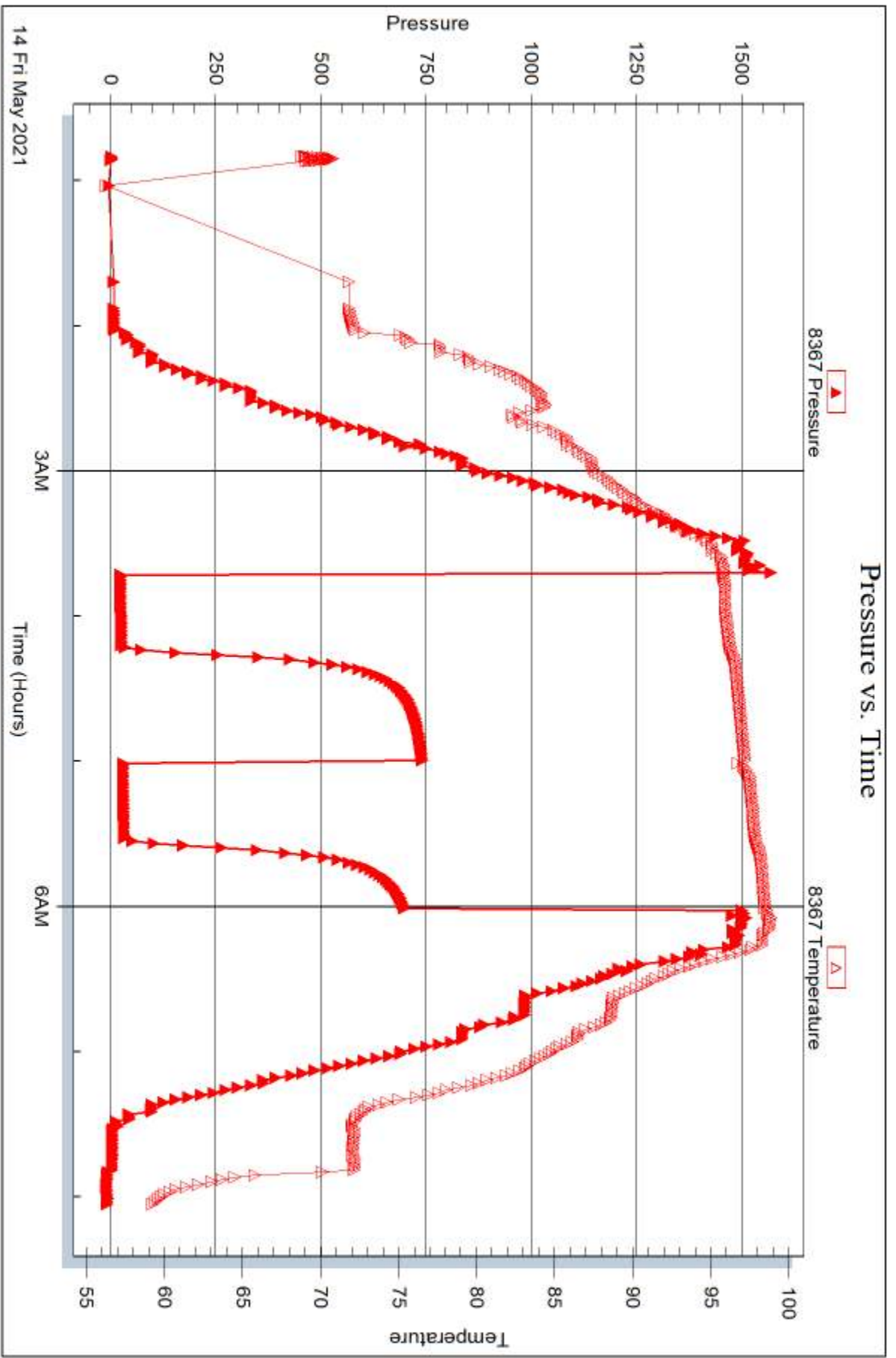
Inside

Cobalt Energy LLC

Hutchinson #1-9

DST Test Number: 3







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Corey Baker

Hutchinson #1-9

9-7s-19w Rooks,KS

Start Date: 2021.05.14 @ 22:43:00

End Date: 2021.05.15 @ 06:41:21

Job Ticket #: 67005 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.05.17 @ 11:05:12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 67005

DST#: 4

ATTN: Corey Baker

Test Start: 2021.05.14 @ 22:43:00

GENERAL INFORMATION:

Formation: **LKC "H - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:46:21

Time Test Ended: 06:41:21

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 3275.00 ft (KB) To 3362.00 ft (KB) (TVD)

Reference Elevations: 1963.00 ft (KB)

Total Depth: 3362.00 ft (KB) (TVD)

1958.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 83.17 psig @ 3276.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.14

End Date:

2021.05.15

Last Calib.:

2021.05.15

Start Time: 22:43:01

End Time:

06:41:21

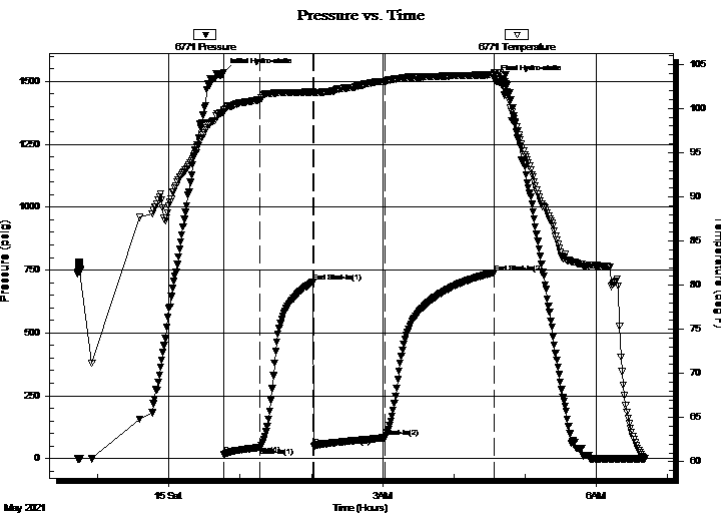
Time On Btm:

2021.05.15 @ 00:45:51

Time Off Btm:

2021.05.15 @ 04:33:51

TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 4 1/4"
45 - IS: No blow back
60 - FF: 1/2" Blow at open, built to 4" (possible leak), died back to 3 1/4"
90 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1535.82	99.87	Initial Hydro-static
1	17.48	99.66	Open To Flow (1)
31	45.36	100.99	Shut-In(1)
76	701.55	101.86	End Shut-In(1)
76	49.72	101.81	Open To Flow (2)
137	83.17	103.06	Shut-In(2)
228	738.79	103.83	End Shut-In(2)
228	1509.13	103.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	GOCM 72%o, 19%o, 9%g	0.37
90.00	CGO 91%o, 9%g	0.44
0.00	GIP = 75'+	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 67005

DST#: 4

ATTN: Corey Baker

Test Start: 2021.05.14 @ 22:43:00

Tool Information

Drill Pipe:	Length: 3086.00 ft	Diameter: 3.80 inches	Volume: 43.29 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 44.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3275.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3248.00	
Shut In Tool	5.00			3253.00	
Hydraulic tool	5.00			3258.00	
Gap Sub	4.00			3262.00	
Safety Joint	3.00			3265.00	
Packer	5.00			3270.00	28.00 Bottom Of Top Packer
Packer	5.00			3275.00	
Stubb	1.00			3276.00	
Recorder	0.00	6771	Inside	3276.00	
Recorder	0.00	8367	Outside	3276.00	
Perforations	16.00			3292.00	
Blank Spacing	65.00			3357.00	
Perforations	2.00			3359.00	
Bullnose	3.00			3362.00	87.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

9-7s-19w Rooks,KS

PO Box 8037
Wichita, KS 67208

Hutchinson #1-9

Job Ticket: 67005

DST#: 4

ATTN: Corey Baker

Test Start: 2021.05.14 @ 22:43:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 6.39 in³
Resistivity: ohm.m
Salinity: 2400.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 35.2 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	GOCM 72% _m , 19% _o , 9% _g	0.369
90.00	CGO 91% _o , 9% _g	0.443
0.00	GIP = 75'+	0.000

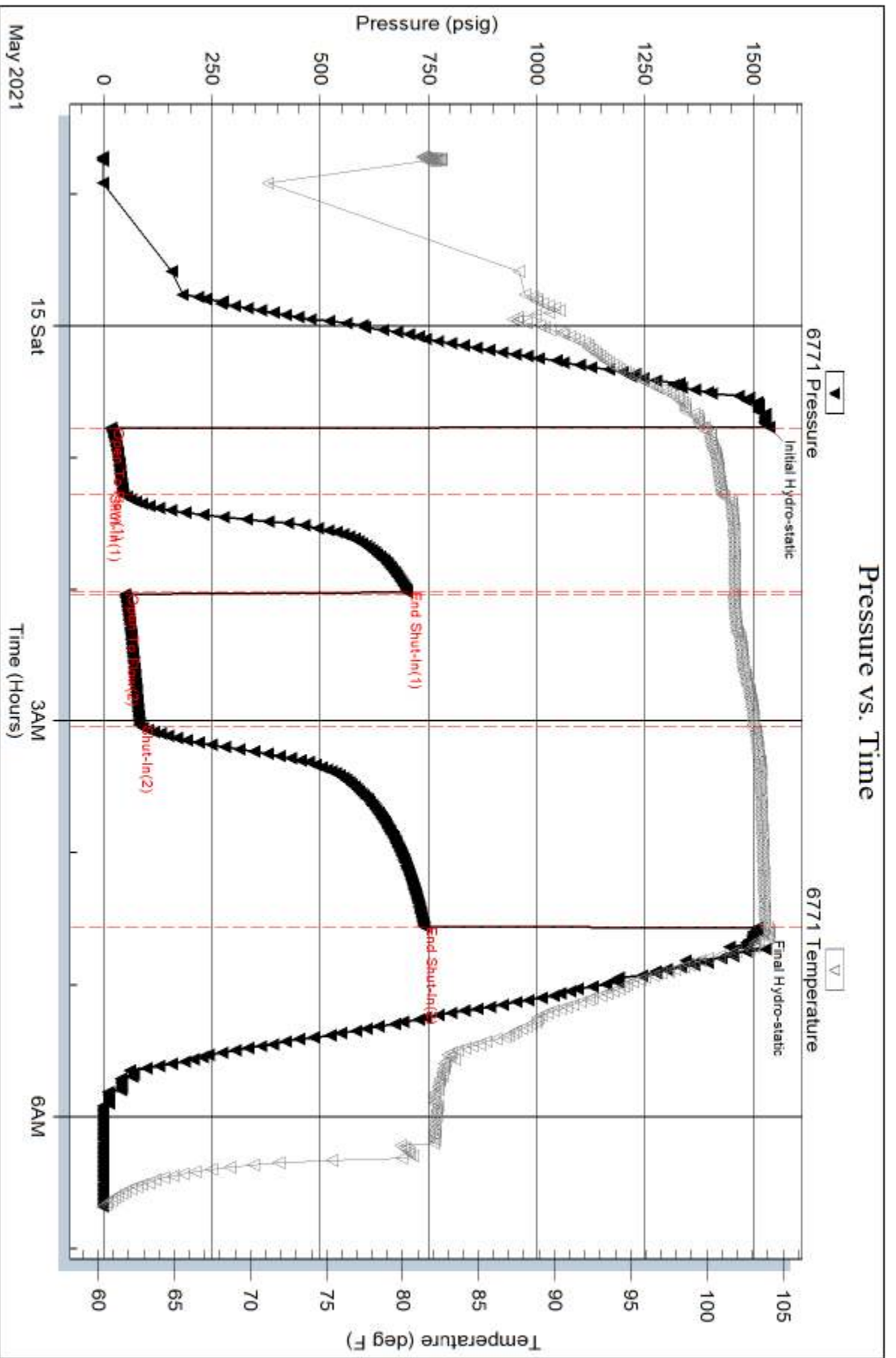
Total Length: 165.00 ft Total Volume: 0.812 bbl

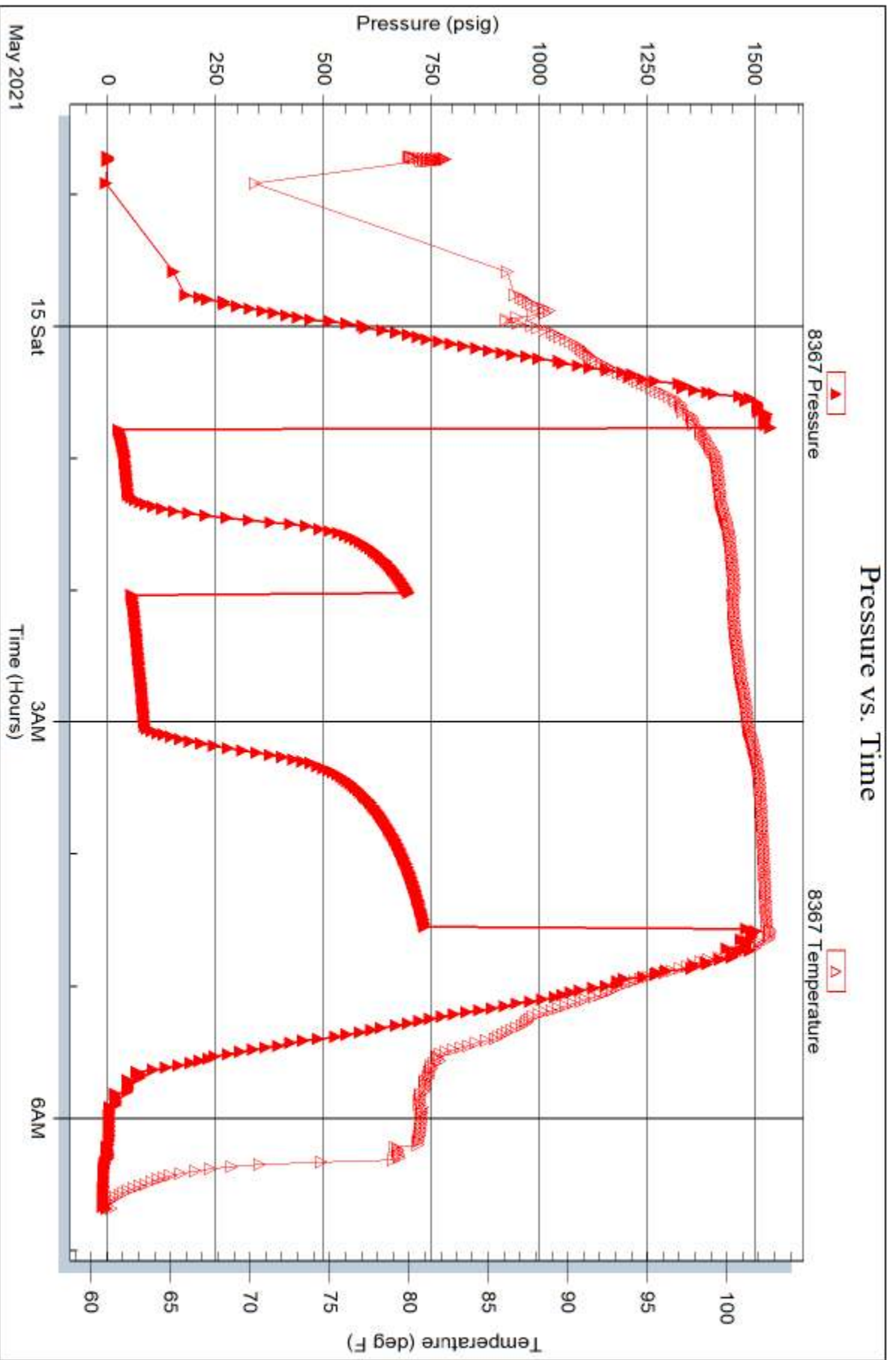
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

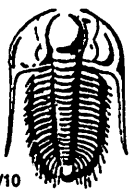
Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 36 api @ 68 deg F Corrected Gravity = 35.2 api

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61701

Well Name & No. Hutchinson Test No. 1 Date 5/12/2021
 Company Cubit Energy Elevation 1963 KB 1958 GL
 Address _____
 Co. Rep / Geo. Larry Nichols Rig Murf. 21
 Location: Sec. 9 Twp. 17S Rge. 19W Co. Roots State KJ

Interval Tested 3116 - 3155 Zone Tested Terculo
 Anchor Length 39 Drill Pipe Run _____ Mud Wt. 9.0
 Top Packer Depth 3111 Drill Collars Run 187 Vis 49
 Bottom Packer Depth 3116 Wt. Pipe Run _____ WL 6.8
 Total Depth 3155 Chlorides _____ ppm System LCM _____

Blow Description 1. blow built to 325' 13.1 blow built to 89'
FF blow built to BOB in 3 min built to
GTS when bleeding first flow
FSE blow built to 2.5'

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>HCCP</u>	<u>20</u>		<u>82</u>	
<u>1975</u>	<u>gassy oil</u>	<u>10</u>	<u>90</u>		
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 2100 BHT 103 Gravity 36 API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 1535.82
- (B) First Initial Flow 17.48
- (C) First Final Flow 45.36
- (D) Initial Shut-In 701.55
- (E) Second Initial Flow 49.72
- (F) Second Final Flow 83.17
- (G) Final Shut-In 738.79
- (H) Final Hydrostatic 1509.13

- Test 1200
- Jars EM 350
- Safety Joint _____
- Circ Sub ✓ 50
- Hourly Standby _____
- Mileage 125
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1725

T-On Location 1050
 T-Started 1105
 T-Open 1354
 T-Pulled 1545
 T-Out 1922

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1725
 MP/DST Disc't _____

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

Approved By _____ Our Representative _____

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. 67003

Well Name & No. Hutchinson #1-9 Test No. 2 Date 5-13-21
 Company Cobalt Energy LLC Elevation 1963 KB 1958 GL
 Address 1155 Belmont #12 PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #8
 Location: Sec. 9 Twp 7S Rge. 19W Co. Rooks State KS

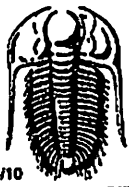
Interval Tested 3161-3232 Zone Tested Lans. "A-D"
 Anchor Length 71 Drill Pipe Run 2961 Mud Wt. 8.9
 Top Packer Depth 3156 Drill Collars Run 187 Vis 49
 Bottom Packer Depth 3161 (shale) Wt. Pipe Run - WL 5.8
 Total Depth 3232 Chlorides 2400 ppm System LCM -
 Blow Description IF: 1/8" Blow at open, built to 2 1/4"
ISI: No blowback
FF: Blow built to 2"
FSI: Blowback built to ~~1 1/8"~~ 1/8"

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>mw w trace oil</u>	<u>4</u>	<u>54</u>	<u>42</u>	
	<u>Heavy oil spots in too!</u>				

Rec Total 80 BHT 101 Gravity API RW, 225 @ 80 ° F Chlorides 27,000 ppm

(A) Initial Hydrostatic <u>1515</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>5:50</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>7:53</u>
(C) First Final Flow <u>34</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:33</u>
(D) Initial Shut-In <u>881</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>14:21</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>16:35</u>
(F) Second Final Flow <u>63</u>	<input checked="" type="checkbox"/> Mileage <u>100 RT</u> 125	Comments _____
(G) Final Shut-In <u>889</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1498</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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>90</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2250</u>
	Sub Total <u>1900</u>	MP/DST Disc't _____

Approved By _____ Our Representative James Winter
 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. 67004

Well Name & No. Hutchinson #1-9 Test No. 3 Date 5-14-21
 Company Cobalt Energy Inc Elevation 1963 KB 1958 GL
 Address 115 S Belmont #12 PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #8
 Location: Sec. 9 Twp 7s Rge. 19w Co. Rooks State KS

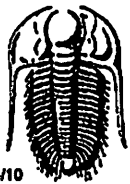
Interval Tested 3228 - 3270 Zone Tested LKC "E-6"
 Anchor Length 42 Drill Pipe Run 3023 Mud Wt. 8.9
 Top Packer Depth 3223 Drill Collars Run 187 Vis 49
 Bottom Packer Depth 3228 Wt. Pipe Run - WL 5.8
 Total Depth 3270 Chlorides 2400 ppm System LCM -
 Blow Description IF: 1/4" Blow at open, built to 1/2"
ISI: surface blow at end of close
FF: surface blow started at 10 min., built to 1/2"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>Mud w/trace oil</u>	<u>trace</u>		<u>100</u>	
	<u>oil spots in tool</u>				

Rec Total 45 BHT 100 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1532 Test 1200 T-On Location 12:00 AM
 (B) First Initial Flow 16 Jars _____ T-Started 12:50
 (C) First Final Flow 22 Safety Joint 75 T-Open 3:42
 (D) Initial Shut-In 745 Circ Sub _____ T-Pulled 6:01
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 8:00
 (F) Second Final Flow 29 Mileage 100RT 125 Comments _____
 (G) Final Shut-In 705 Sampler _____
 (H) Final Hydrostatic 1509 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 30 Day Standby _____
 Accessibility _____
 Sub Total 1400 Sub Total _____
 Total 1750 Total _____
 MP/DST Disc't _____

Approved By _____ Our Representative James Winters
 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. 67005

Well Name & No. Hutchinson #1-9 Test No. 4 Date 5-14-21
 Company Cobalt Energy LLC Elevation 1963 KB 1958 GL
 Address 115 S Belmont #12 PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin #8
 Location: Sec. 9 Twp 7s Rge. 19W Co. Rooks State KS

Interval Tested 3275 - 3362 Zone Tested LKC "H-K"
 Anchor Length 87 Drill Pipe Run 3086 Mud Wt. 9.0
 Top Packer Depth 3270 Drill Collars Run 187 Vis 52
 Bottom Packer Depth 3275 Wt. Pipe Run - WL 6.4
 Total Depth 3362 Chlorides 2400 ppm System LCM 3

Blow Description IF: 1/4" Blow at open, built to 4 1/4"
ISI: No blowback

FF: 1/2" Blow at open, built to 4" (possible leak), died back to 3 1/4"

FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>CGO</u>	<u>9</u>	<u>91</u>		
<u>75</u>	<u>GOCM</u>	<u>9</u>	<u>19</u>		<u>72</u>
<u>Rec</u>	<u>Feet of GIP=75'</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 165 BHT 104 Gravity 35.2 API RW @ °F Chlorides ppm

- (A) Initial Hydrostatic 1535
- (B) First Initial Flow 17
- (C) First Final Flow 45
- (D) Initial Shut-In 702
- (E) Second Initial Flow 50
- (F) Second Final Flow 83
- (G) Final Shut-In 739
- (H) Final Hydrostatic 1509

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

- Test 1200
- Jars
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 100RT X 2 250
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1525

T-On Location 19:45 5/14
 T-Started 20:43
 T-Open 00:46
 T-Pulled 4:33
 T-Out 4:40 5/15

Comments loaded tools 5/15 13:15
 EM Tool 350
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1875
 MP/DST Disc't

Approved By _____ Our Representative James Wicks
 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.

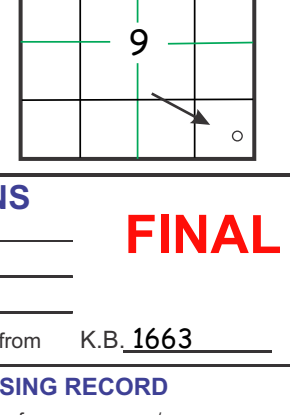
In Memory of
Geologist Tim Laurer
Who's Grave Side service coincided with
the RTD of this Well. 3:00 pm May 15, 2021 last well

GEOLOGICAL REPORT

Larry A. Nicholson

NAD 83
39.4531717
-99.43659411

COMPANY **Cobalt Energy, LLC**
API # **15-163-24423** FIELD **NA**
LEASE **Hutchinson #1-9** WELL # **#1-9**
LOCATION **N2 SE SE SE**
SURVEY **456' FSL 432' FEL**
SECTION **9** TWP **7S** RGE **19W**
COUNTY **Rooks** STATE **Kansas**



CONTRACTOR **Murfin** Rig # **8**
SPUD **05-08-21 12:30 pm** COMP **05-26 5:45 pm**
RTD **3480 3:00 pm 05/15/21** LTD **3479**
MUD UP AT **2676-2697**
MUD TYPE **Chemical Mud-Co Gary**

ELEVATIONS
K.B. **1963**
D.F.
G.L. **1958**
All measurements from K.B. **1663**

SAMPLES SAVED FROM **2850** TO **RTD**
DRILLING TIME FROM **2800** TO **RTD**
SAMPLES EXAMINED FROM **2800** TO **RTD**
GEOLOGICAL SUPERVISION FROM **2850** TO **RTD**
WELLSITE GEOLOGIST **LARRY A. NICHOLSON**

CASING RECORD
Conductor **224** of **8 5/8** in **155** sxs
Surface **224** of **8 5/8** in **155** sxs
Production **224** of **8 5/8** in **155** sxs

ELECTRICAL SURVEYS **Dual, Den, Neu, Micro Sonic, Midwest Wireline**

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG TOPS		SUBSEA DATUM	REFERENCE WELL	
			A	B		A	B
Anhydrite			1475	+488			
Base Anhy			1508	+455			
Topeka			2916	-953			
Heabner			3116	-1153			
Toronto			3138	-1175			
Lansing			3158	-1195			
Muncie Ck			3276	-1313			
I zone			3308	-1345			
Stark Sh			3340	-1377			
BKC			3374	-1411			
Arbuckle			3414	-1451			
RTD			3480	-1517			
LTD			3479	-1516			

REFERENCE WELLS
A: _____
B: _____

DRILLSTEM TEST SUMMARY: _____ REMARKS & RECOMMENDATIONS: _____

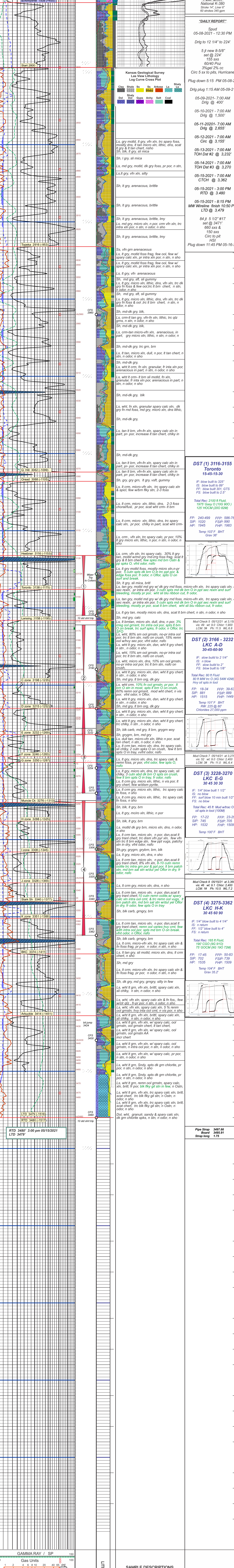
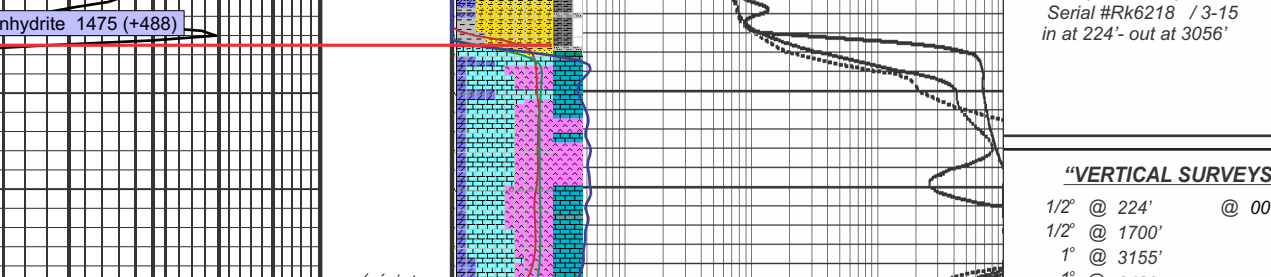
Dat #1 3116-3155 (Toronto) 15 45 15 30 IF:240-499 FF:586-768 SI:1020-990
Rec 2100' Total Fluid IF built to 325', r 89" FF built to 301 GTS, r 2.5" BHT 103, GR 36
Csg was set based on the positive DST#1

Dat #2 3161-3232 (LKC A-D) 30 45 60 90 IF:18-34 FF:39-63 SI:881-889
Rec 80' MW rec oil IF built to 2 1/4", nr FF built to 2", nr BHT 101 RW 225 @ 80
** Rig ROP is 2 ft deep to log based on correlation pts.
The DSTs and ROP on GeoReport could be moved up 3 feet.

Dat #3 3228-3270 (LKC E-G) 30 45 30 30 IF:16-22 FF:23-29 SI:745-705
Rec 45 M w/trc O (100M) IF built to 1 1/2", surf blow FF surf blow to 1 1/2", nr BHT 100

Dat #4 3275-3362 (LKC H-K) 30 45 60 90 IF:17-45 FF:50-83 SI:702-739
Rec 90 CGO (9G 910) 75 GOCM (9G 190 72M) IGP 75' IF built 4 1/4", nr FF ult to 4", nr 356 O

LEGEND



Spud 12:30 PM 05-08-2021
RTD 3:00 PM 05-15-2021

"BIT RECORD"
Surface Bit - Vari, CH-20 12-1/4,
15s Serial #164633 cut at 224'
Bit No. 1, STC FH1, 7-7/8
Serial #R6218 / 3-15
in at 224' cut at 3056'

"VERTICAL SURVEYS"
1/2" @ 224' @ 0000"
1/2" @ 1700'
1" @ 3155'
1" @ 3480'

"PUMP DATA"
National K-360
Stroke 14", Liner 6"
60 strokes/345 gpm

"DAILY REPORT"
Spud 05-08-2021 - 12:30 PM
Drig to 12 1/4" to 224'
5 ft new 8-5/8" set @ 224'
155 sxs
60/40 Pzb
396g/29c
Circ 5 sx to pits, Hurricane
Plug down 5:15 PM 05-08-21

Drig plug 1:15 AM 05-09-21
05-09-2021 - 7:00 AM
Drig @ 400'
05-10-2021 - 7:00 AM
Drig @ 1,500'
05-11-2021 - 7:00 AM
Drig @ 2,655'
05-12-2021 - 7:00 AM
Circ @ 3,155'
05-13-2021 - 7:00 AM
TOH Dst #2 @ 3,232'
05-14-2021 - 7:00 AM
TOH Dst #3 @ 3,270'
05-15-2021 - 7:00 AM
C7CH @ 3,362'
05-15-2021 - 3:00 PM
RTD @ 3,480'

05-15-2021 - 8:15 PM
MW Wireline finish 10:50 PM
LTD @ 3,479'

84 ft 5 1/2" #17
set @ 3471'
1" @ 3155'
150 sxs
Circ to pit
HSI
Plug down 11:45 PM 05-16-21

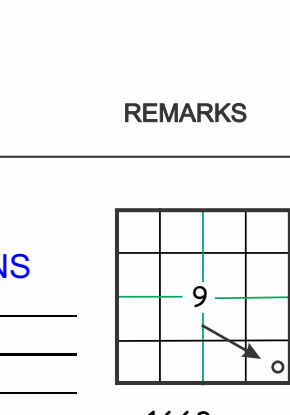
DST (1) 3116-3155 Toronto 15-45-15-30
IF: blow built to 325"
IS: blow built to 89"
FF: blow built 301, GTS
FS: blow built to 2.5"
Total Rec: 2100' Fluid
1975' Gasy O (106 900)
125' HOCM (200 82M)
FP: 240-499 FFP: 586-768
SIP: 1020 FSIP: 990
HP: 1945 FHP: 1983
Temp 103' F BHT
Grav 36'

DST (2) 3166-3232 LKC A-D 30-45-60-90
IF: slow build to 2 1/4"
IS: n blow
FF: slow build to 2"
FS: blow built to 1/8"
Total Rec: 80' Fluid
80' MW trc O (4G 54W 42M)
Hvy oil spits in flow
FP: 18-34 FFP: 39-63
SIP: 881 FSIP: 889
HP: 1515 FHP: 1449
Temp 101' F BHT
RW 225 @ 80'
Chlorides 27,000 ppm

DST (3) 3228-3270 LKC E-G 30-45-30-30
IF: 1 1/4" blow built 1 1/2"
IS: n blow
FF: surf blow 10 min built 1/2"
FS: no blow
Total Rec: 45' fluid
oil spits in flow (100M)
FP: 17-22 FFP: 23-29
SIP: 881 FSIP: 705
HP: 1532 FHP: 1509
Temp 100' F BHT

DST (4) 3275-3362 LKC H-K 30-45-60-90
IF: 1 1/4" blow built to 4 1/4"
IS: n return
FF: 1/2" blow built to 4"
FS: n blow
Total Rec: 165 ft Fluid
190' CGO (9G 910)
75' GOCM (9G 190 72M)
FP: 17-45 FFP: 50-83
SIP: 702 FSIP: 739
HP: 1535 FHP: 1509
Temp 104' F BHT
Grav 35.2'

COMPANY **Cobalt Energy, LLC** ELEVATIONS
LEASE **Hutchinson #1-9 N2 SE SE SE** K.B. **1963**
LOCATION **456' FSL 432' FEL** SEC. **9** TWP **7S** RGE **19W** D.F.
COUNTY **Rooks** STATE **Ks** G.L. **1958**
All measurements from K.B. **1663**



Pipe Strap **3487.66**
Board **3485.91**
Strap long **1.75**