

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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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	DARVIN 1-22
Doc ID	1755012

All Electric Logs Run

DUAL INDUCTION
NEUTRON-DENSITY
MICRO
SONIC



Remit To: Hurricane Services, Inc.
 250 N. Water, Suite 200
 Wichita, KS 67202
 316-303-9515

Customer:
 COBALT ENERGY LLC
 125 N MARKET
 SUITE 1725
 WICHITA, KS 67202

Invoice Date: 11/25/2023
 Invoice #: 0372913
 Lease Name: Darvin
 Well #: 1-22
 County: Graham, Ks
 Job Number: WP4940
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
New Hole Plug	0.000	0.000	0.00
H-Plug	255.000	16.000	4,080.00
Wooden plug 8 5/8"	1.000	175.000	175.00
Light Eq Mileage	75.000	2.000	150.00
Heavy Eq Mileage	150.000	4.000	600.00
Ton Mileage	823.000	1.500	1,234.50
Depth Charge 1001'-2000'	1.000	1,500.000	1,500.00
Cement Blending & Mixing	255.000	1.400	357.00
Service Supervisor	1.000	275.000	275.00

Net Invoice	8,371.50
Sales Tax:	477.88
Total	8,849.38

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



CEMENT TREATMENT REPORT

Customer: Cobalt Energy	Well: Darwin 1-22	Ticket: wp 4940
City, State: wakeeney/ks	County: graham/ks	Date: 11/25/2023
Field Rep: andy dinkel	S-T-R: 22-10s-22w	Service: pta

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	3900 ft
Casing Size:	8 5/8 in
Casing Depth:	2000 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbls

Calculated Slurry - Lead	
Blend:	h-plug a
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	0.0406 bbs / ft.
Depth:	2000 ft
Annular Volume:	81.2 bbls
Excess:	
Total Slurry:	64.4 bbls
Total Sacks:	255 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	TOTAL BBLs	REMARKS
10:30 PM			-	-	arrive on location
10:35 PM				-	safety meeting
10:40 PM				-	rig up
11:50 PM	2.5	150.0	5.0	5.0	pump 5bbl fw spacer
11:54 PM	5.0	200.0	12.6	17.6	pump cmt @13.8ppg 50sks 2000ft
12:02 AM	5.0	180.0	5.0	22.6	pump 5bbl of h20 behind cmt @8.34
12:04 AM				22.6	rig pump mud for 1.5 min
				22.6	
12:48 AM	2.5	120.0	5.0	27.6	pump 5bbl of fw spacer
12:50 AM	5.0	230.0	25.2	52.8	pump 25.2bbl cmt @13.ppg8 100sks 1075ft
12:56 AM	5.0	300.0	7.7	60.5	pump displacement @8.34
1:20 AM	2.5	200.0	5.0		pump 5bbl fw spacer
1:25 AM	5.0	220.0	12.6		pump cmt @13.8ppg 50sks 325ft
1:29 AM	2.0	250.0	1.5		pump displacement 1.5bbl
2:30 AM	2.0	150.0	2.5		pump cmt @13.8 2.5bbl 10sks drop wooden plug @ 40ft
2:33 AM	1.0	50.0	1.6		pump displacement 1.6
2:35 AM	3.0	50.0	7.5		pump cmt @13.8 30sks rat hole
2:28 AM	3.0	50.0	4.9		pump displacement 4.9bbl @8.34
2:45 AM	1.5	20.0	3.7		pump 3.7bbl cmt @13.8 mouse hole 15sks
					pump 2.4 bbl displacement 8.34
3:00 AM					done pumping cmt
3:05 AM					rig down
3:30 AM					depart location

CREW		UNIT	SUMMARY		
Cementer:	Roger	945	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jose	537-520	3.2 bpm	155 psi	100 bbls
Bulk #1:	Kenny	176-532			
Bulk #2:					



Remit To: Hurricane Services, Inc.
 250 N. Water, Suite 200
 Wichita, KS 67202
 316-303-9515

Customer:
 COBALT ENERGY LLC
 125 N MARKET
 SUITE 1725
 WICHITA, KS 67202

Invoice Date: 11/17/2023
 Invoice #: 0372903
 Lease Name: Darvin
 Well #: 1-22 (New)
 County: Graham, Ks
 Job Number: WP4923
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	175.000	22.500	3,937.50
Light Eq Mileage	75.000	2.000	150.00
Heavy Eq Mileage	150.000	4.000	600.00
Ton Mileage	619.000	1.500	928.50
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Cement Blending & Mixing	175.000	1.400	245.00
Service Supervisor	1.000	275.000	275.00

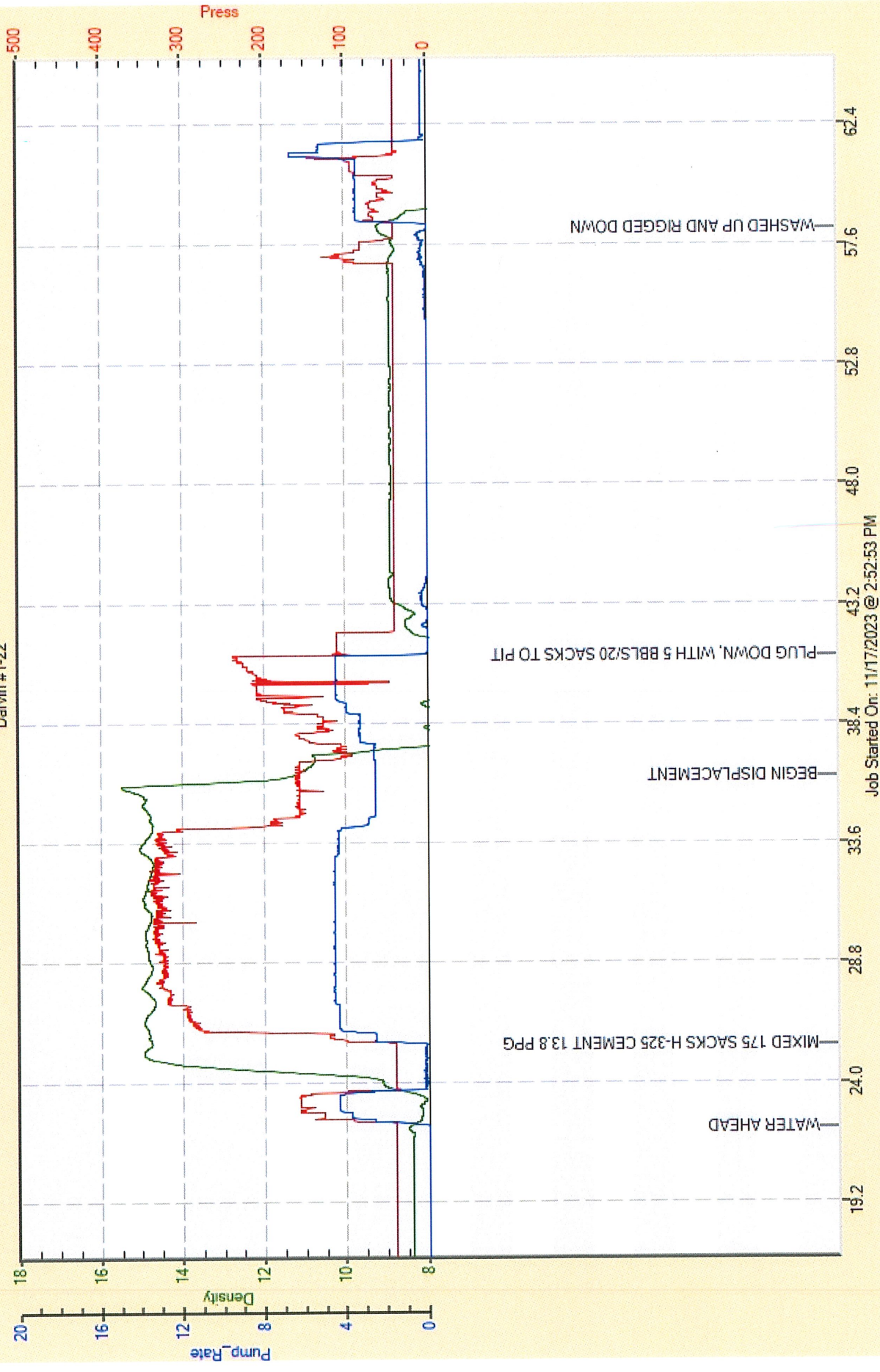
Total 7,136.00

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!

Cobalt Energy
Darwin #1-22





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

125 N. Market ST STE 1725
Wichita, KS 67202

ATTN: Larry Nicholson

Darvin # 1-22

22-10S-22W Graham,KS

Start Date: 2023.11.21 @ 15:23:00

End Date: 2023.11.21 @ 22:41:45

Job Ticket #: 70065 DST #: 1

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

Printed: 2023.11.28 @ 15:32:31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC
125 N. Market ST STE 1725
Wichita, KS 67202
ATTN: Larry Nicholson

22-10S-22W Graham,KS

Darvin # 1-22

Job Ticket: 70065

DST#: 1

Test Start: 2023.11.21 @ 15:23:00

GENERAL INFORMATION:

Formation: **LKC C-D**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 17:58:15
 Tester: Dustin Day
 Time Test Ended: 22:41:45
 Unit No: 70
 Interval: **3629.00 ft (KB) To 3675.00 ft (KB) (TVD)**
 Reference Elevations: 2336.00 ft (KB)
 Total Depth: 3675.00 ft (KB) (TVD)
 2331.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: KB to GR/CF: 5.00 ft

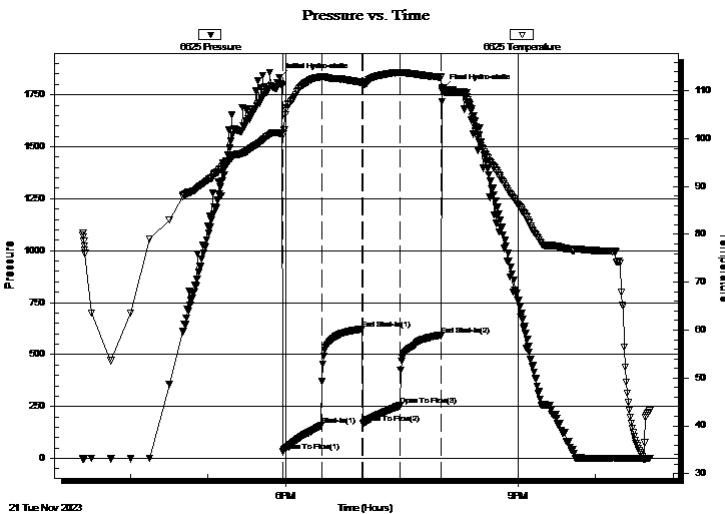
Serial #: 6625

Inside

Press@RunDepth: 158.69 psig @ 3630.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.11.21 End Date: 2023.11.21 Last Calib.: 2023.11.21
 Start Time: 15:23:05 End Time: 22:41:44 Time On Btm: 2023.11.21 @ 17:55:15
 Time Off Btm: 2023.11.21 @ 20:01:30

TEST COMMENT: IF-30- BOB in 8 min, Built to 33.36"
 SI1-30- No return
 FF-30- BOB in 14 min built to 22"
 SI2-30- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.45	101.11	Initial Hydro-static
3	33.95	100.93	Open To Flow (1)
33	158.69	112.99	Shut-In(1)
64	623.43	111.79	End Shut-In(1)
65	168.30	111.68	Open To Flow (2)
94	254.42	113.83	Open To Flow (3)
125	593.41	112.88	End Shut-In(2)
127	1777.51	110.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
318.00	SMCW 5% mud 95% w ater	4.19
190.00	MCW 30% mud 70% w ater	2.67

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

22-10S-22W Graham,KS

125 N. Market ST STE 1725
Wichita, KS 67202

Darvin # 1-22

Job Ticket: 70065

DST#: 1

ATTN: Larry Nicholson

Test Start: 2023.11.21 @ 15:23:00

Tool Information

Drill Pipe:	Length: 3586.00 ft	Diameter: 3.80 inches	Volume: 50.30 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	20000.00 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:	13.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3629.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	72.00 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			3604.00	
shut In Tool	5.00			3609.00	
hydraulic tool	5.00			3614.00	
EM Tool	3.00			3617.00	
safety Joint	3.00			3620.00	
Packer	5.00			3625.00	26.00 Bottom Of Top Packer
Packer	4.00			3629.00	
Stubb	1.00			3630.00	
Recorder	0.00	6625	Inside	3630.00	
Recorder	0.00	8524	Outside	3630.00	
perforations	7.00			3637.00	
change Over Sub	1.00			3638.00	
drill Pipe	32.00			3670.00	
change Over Sub	1.00			3671.00	
Bullnose	4.00			3675.00	46.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

22-10S-22W Graham,KS

125 N. Market ST STE 1725
Wichita, KS 67202

Darvin # 1-22

Job Ticket: 70065

DST#: 1

ATTN: Larry Nicholson

Test Start: 2023.11.21 @ 15:23:00

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:

46000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
318.00	SMCW 5% mud 95% w ater	4.187
190.00	MCW 30% mud 70% w ater	2.665

Total Length: 508.00 ft

Total Volume: 6.852 bbl

Num Fluid Samples: 0

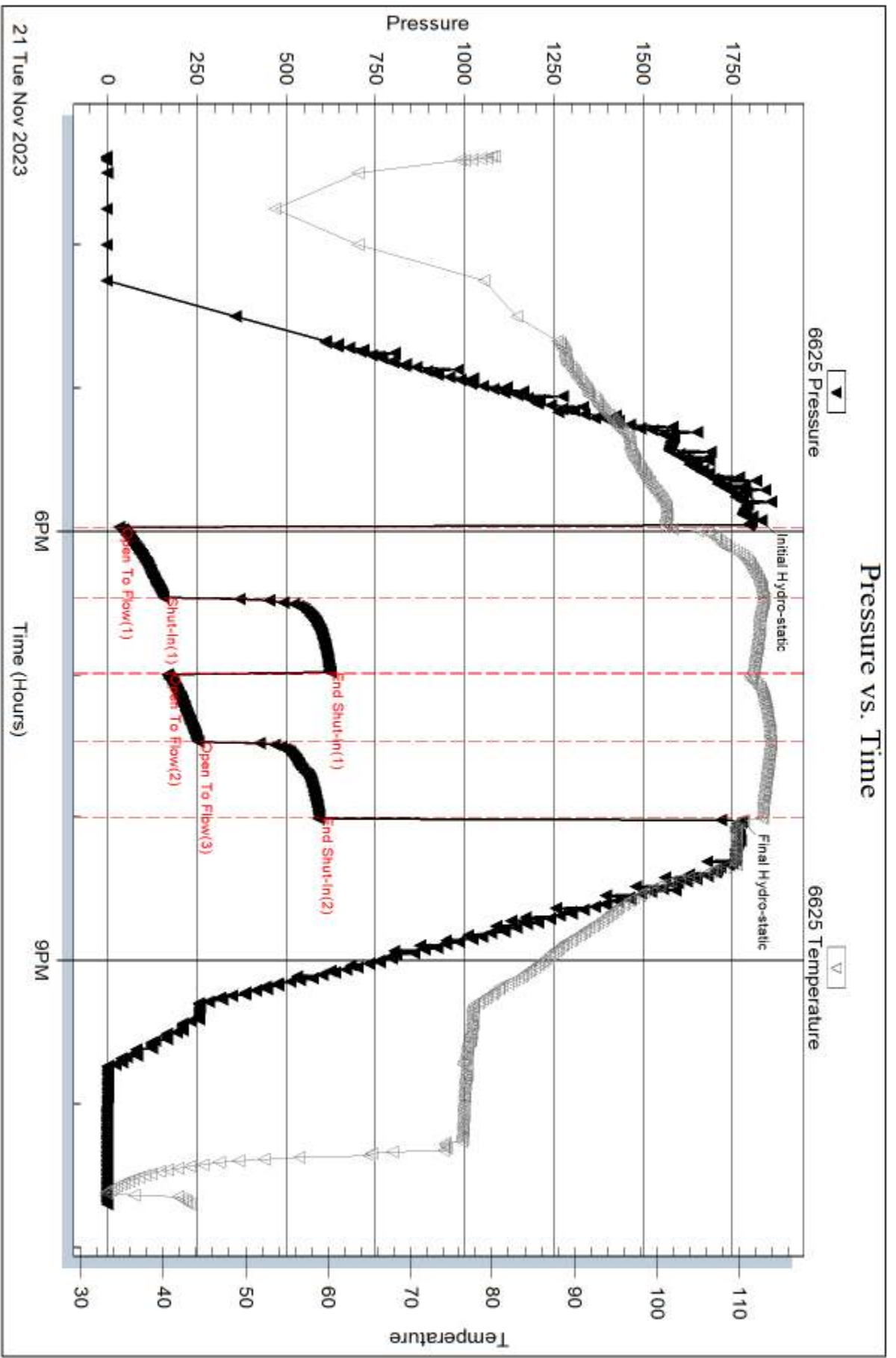
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2# LCM

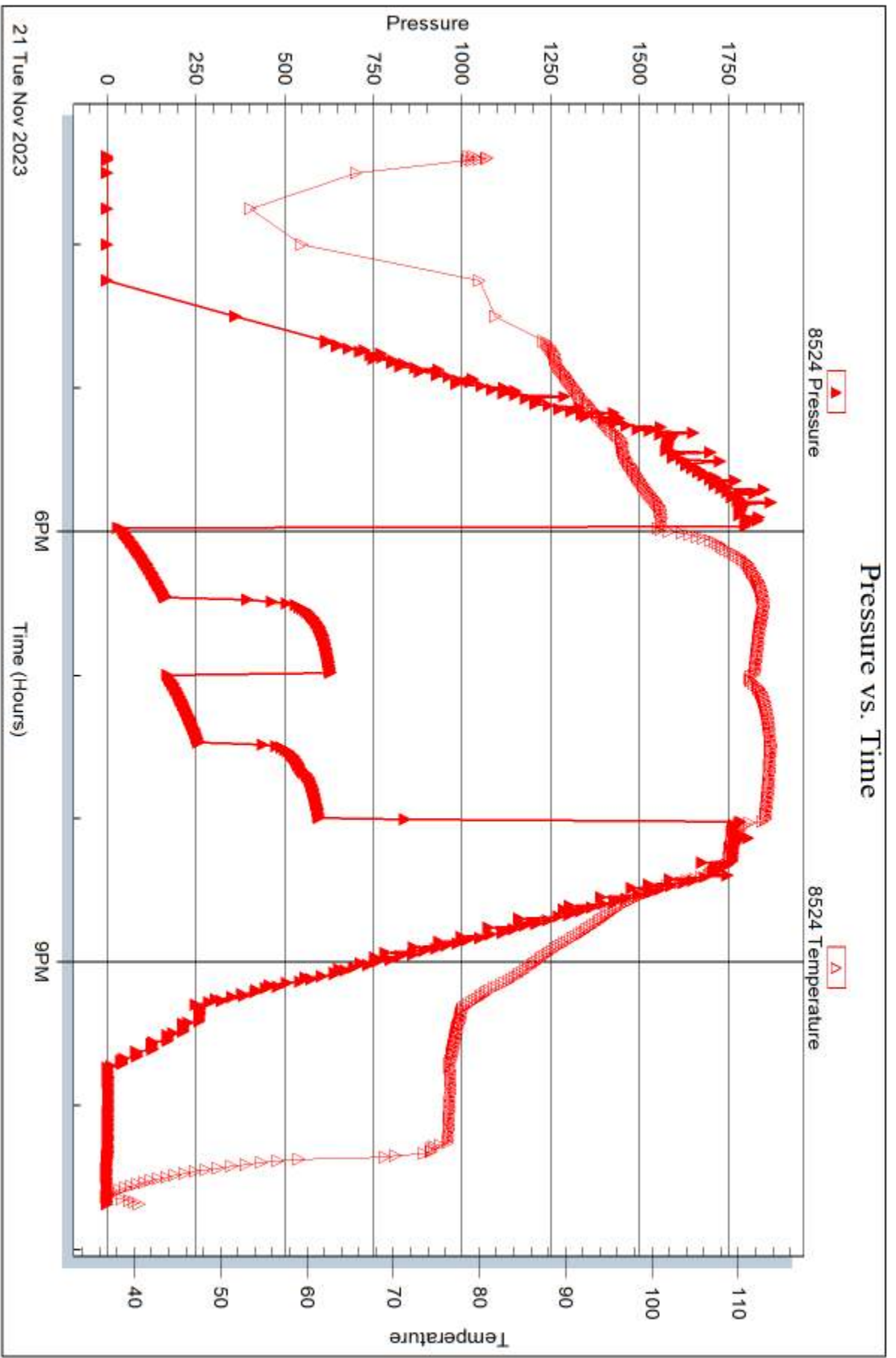


Serial #: 8524

Outside Cobalt Energy LLC

Darvin #1-22

DST Test Number: 1



21 Tue Nov 2023

Triobite Testing, Inc

Ref. No: 70065

Printed: 2023.11.28 @ 15:32:32



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

125 N. Market ST STE 1725
Wichita, KS 67202

ATTN: Larry Nicholson

Darvin # 1-22

22-10S-22W Graham,KS

Start Date: 2023.11.22 @ 05:08:00

End Date: 2023.11.22 @ 12:15:15

Job Ticket #: 70066 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.11.28 @ 15:27:58



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC
125 N. Market ST STE 1725
Wichita, KS 67202
ATTN: Larry Nicholson

22-10S-22W Graham,KS

Darvin # 1-22

Job Ticket: 70066

DST#: 2

Test Start: 2023.11.22 @ 05:08:00

GENERAL INFORMATION:

Formation: **LKC F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:22:45
 Time Test Ended: 12:15:15
 Interval: **3673.00 ft (KB) To 3702.00 ft (KB) (TVD)**
 Total Depth: 3702.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 2336.00 ft (KB)
 2331.00 ft (CF)
 KB to GR/CF: 5.00 ft

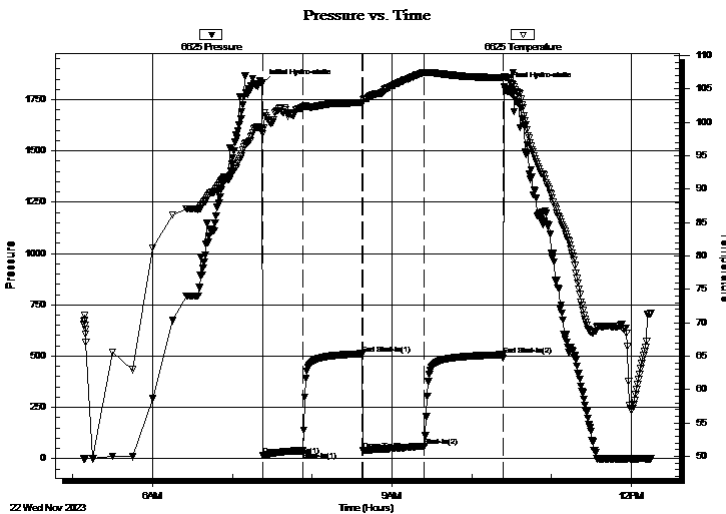
Serial #: 6625

Inside

Press@RunDepth: 61.01 psig @ 3674.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.11.22 End Date: 2023.11.22 Last Calib.: 2023.11.22
 Start Time: 05:08:05 End Time: 12:15:14 Time On Btm: 2023.11.22 @ 07:22:30
 Time Off Btm: 2023.11.22 @ 10:24:30

TEST COMMENT: IF-30- Built to 5"
 SI1-45- 1/2" return blow
 FF-45- built from 1/2" to 5.5"
 SI2-60- WSB

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1829.75	99.14	Initial Hydro-static
1	14.93	98.29	Open To Flow (1)
31	37.79	102.20	Shut-In(1)
76	511.43	103.00	End Shut-In(1)
76	40.49	103.02	Open To Flow (2)
122	61.01	107.47	Shut-In(2)
181	506.81	106.75	End Shut-In(2)
182	1810.83	106.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 50% mud 50% w ater	0.57
50.00	GHWCM w/oil spots 5% gas 35% w 60%	0.70

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

22-10S-22W Graham,KS

125 N. Market ST STE 1725
Wichita, KS 67202

Darvin # 1-22

Job Ticket: 70066

DST#: 2

ATTN: Larry Nicholson

Test Start: 2023.11.22 @ 05:08:00

Tool Information

Drill Pipe:	Length: 3650.00 ft	Diameter: 3.80 inches	Volume: 51.20 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3673.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 ft				
Tool Length:	55.00 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			3648.00	
shut In Tool	5.00			3653.00	
hydraulic tool	5.00			3658.00	
EM Tool	3.00			3661.00	
safety Joint	3.00			3664.00	
Packer	5.00			3669.00	26.00 Bottom Of Top Packer
Packer	4.00			3673.00	
Stubb	1.00			3674.00	
Recorder	0.00	6625	Inside	3674.00	
Recorder	0.00	8524	Outside	3674.00	
perforations	24.00			3698.00	
Bullnose	4.00			3702.00	29.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

22-10S-22W Graham,KS

125 N. Market ST STE 1725
Wichita, KS 67202

Darvin # 1-22

Job Ticket: 70066

DST#: 2

ATTN: Larry Nicholson

Test Start: 2023.11.22 @ 05:08:00

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:

25000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	MW 50% mud 50% w ater	0.568
50.00	GHWCM w /oil spots 5% gas 35% w 60% m	0.701

Total Length: 110.00 ft

Total Volume: 1.269 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

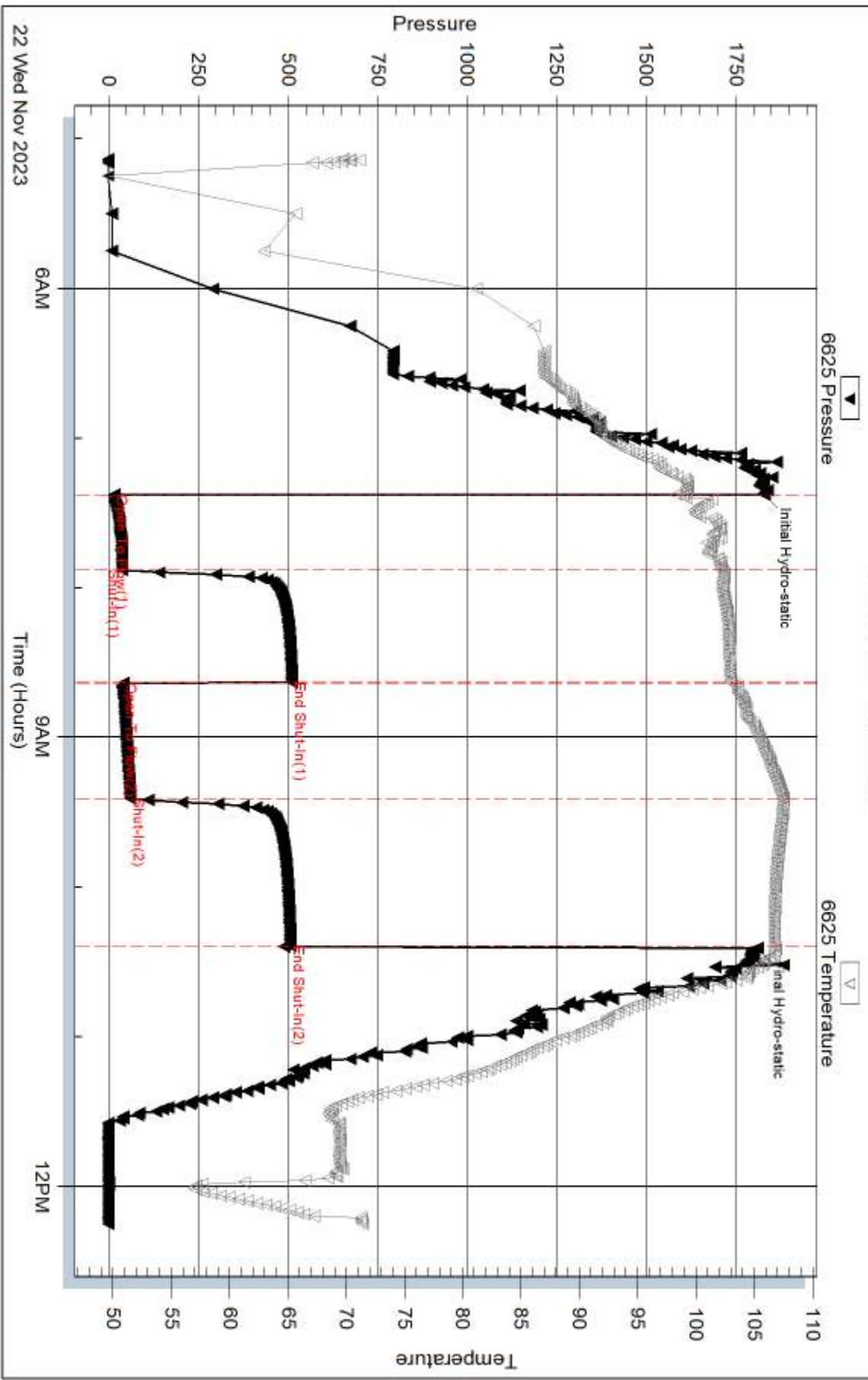
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM

Pressure vs. Time

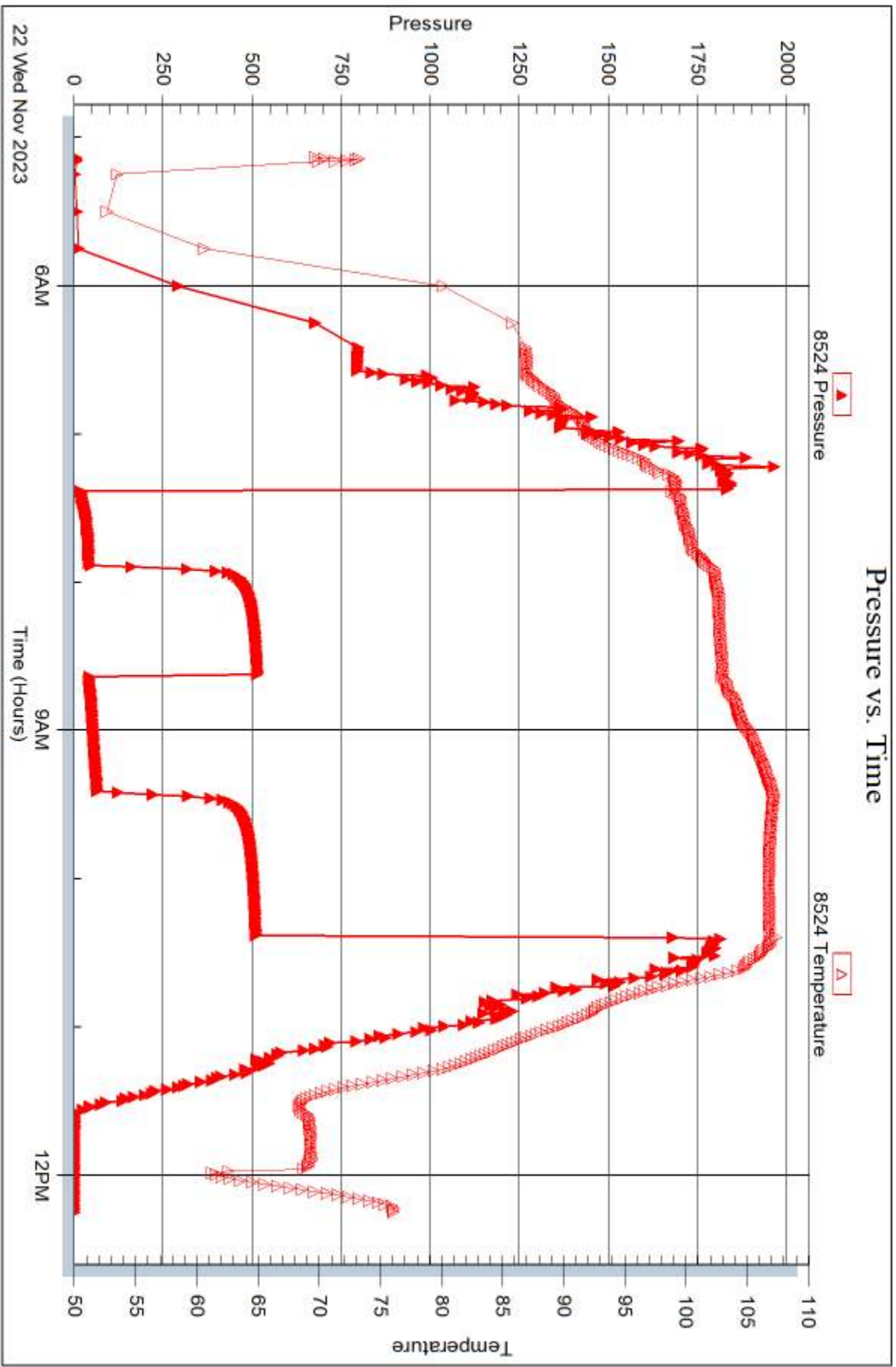


Serial #: 8524

Outside Cobalt Energy LLC

Darvin # 1-22

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 70066

Printed: 2023.11.28 @ 15:27:59



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

125 N. Market ST STE 1725
Wichita, KS 67202

ATTN: Larry Nicholson

Darvin # 1-22

22-10S-22W Graham,KS

Start Date: 2023.11.23 @ 05:50:00

End Date: 2023.11.23 @ 11:47:15

Job Ticket #: 70067 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.11.28 @ 15:06:59



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy LLC
125 N. Market ST STE 1725
Wichita, KS 67202
ATTN: Larry Nicholson

22-10S-22W Graham,KS

Darvin # 1-22

Job Ticket: 70067

DST#: 3

Test Start: 2023.11.23 @ 05:50:00

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:55:00
 Time Test Ended: 11:47:15
 Interval: **3729.00 ft (KB) To 3795.00 ft (KB) (TVD)**
 Total Depth: 3795.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 2336.00 ft (KB)
 2331.00 ft (CF)
 KB to GR/CF: 5.00 ft

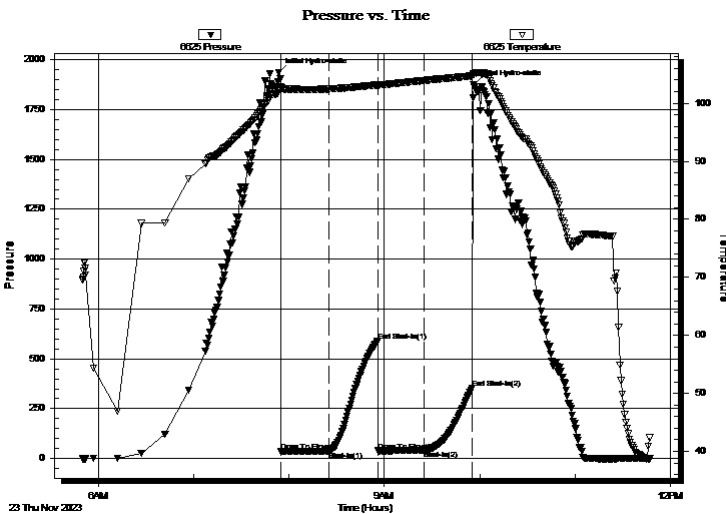
Serial #: 6625

Inside

Press@RunDepth: 40.36 psig @ 3730.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.11.23 End Date: 2023.11.23 Last Calib.: 2023.11.23
 Start Time: 05:50:05 End Time: 11:47:14 Time On Btm: 2023.11.23 @ 07:53:45
 Time Off Btm: 2023.11.23 @ 09:56:15

TEST COMMENT: IF-30- Built to 1 1/4"
 SI1-30- No return
 FF-30- No blow
 SI2-30- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.53	102.35	Initial Hydro-static
2	34.25	102.66	Open To Flow (1)
32	37.04	102.47	Shut-In(1)
62	588.98	103.18	End Shut-In(1)
63	38.43	102.98	Open To Flow (2)
92	40.36	103.93	Shut-In(2)
122	352.26	104.73	End Shut-In(2)
123	1874.58	105.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100% (Oil spots in tool)	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

22-10S-22W Graham,KS

125 N. Market ST STE 1725
Wichita, KS 67202

Darvin # 1-22

Job Ticket: 70067

DST#: 3

ATTN: Larry Nicholson

Test Start: 2023.11.23 @ 05:50:00

Tool Information

Drill Pipe:	Length: 3681.00 ft	Diameter: 3.80 inches	Volume: 51.63 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	20000.00 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:	8.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3729.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	66.00 ft				
Tool Length:	92.00 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			3704.00	
shut In Tool	5.00			3709.00	
hydraulic tool	5.00			3714.00	
EM Tool	3.00			3717.00	
safety Joint	3.00			3720.00	
Packer	5.00			3725.00	26.00 Bottom Of Top Packer
Packer	4.00			3729.00	
Stubb	1.00			3730.00	
Recorder	0.00	6625	Inside	3730.00	
Recorder	0.00	8524	Outside	3730.00	
perforations	27.00			3757.00	
change Over Sub	1.00			3758.00	
drill Pipe	32.00			3790.00	
change Over Sub	1.00			3791.00	
Bullnose	4.00			3795.00	66.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

22-10S-22W Graham,KS

125 N. Market ST STE 1725
Wichita, KS 67202

Darvin # 1-22

Job Ticket: 70067

DST#: 3

ATTN: Larry Nicholson

Test Start: 2023.11.23 @ 05:50:00

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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	MUD 100% (Oil spots in tool)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

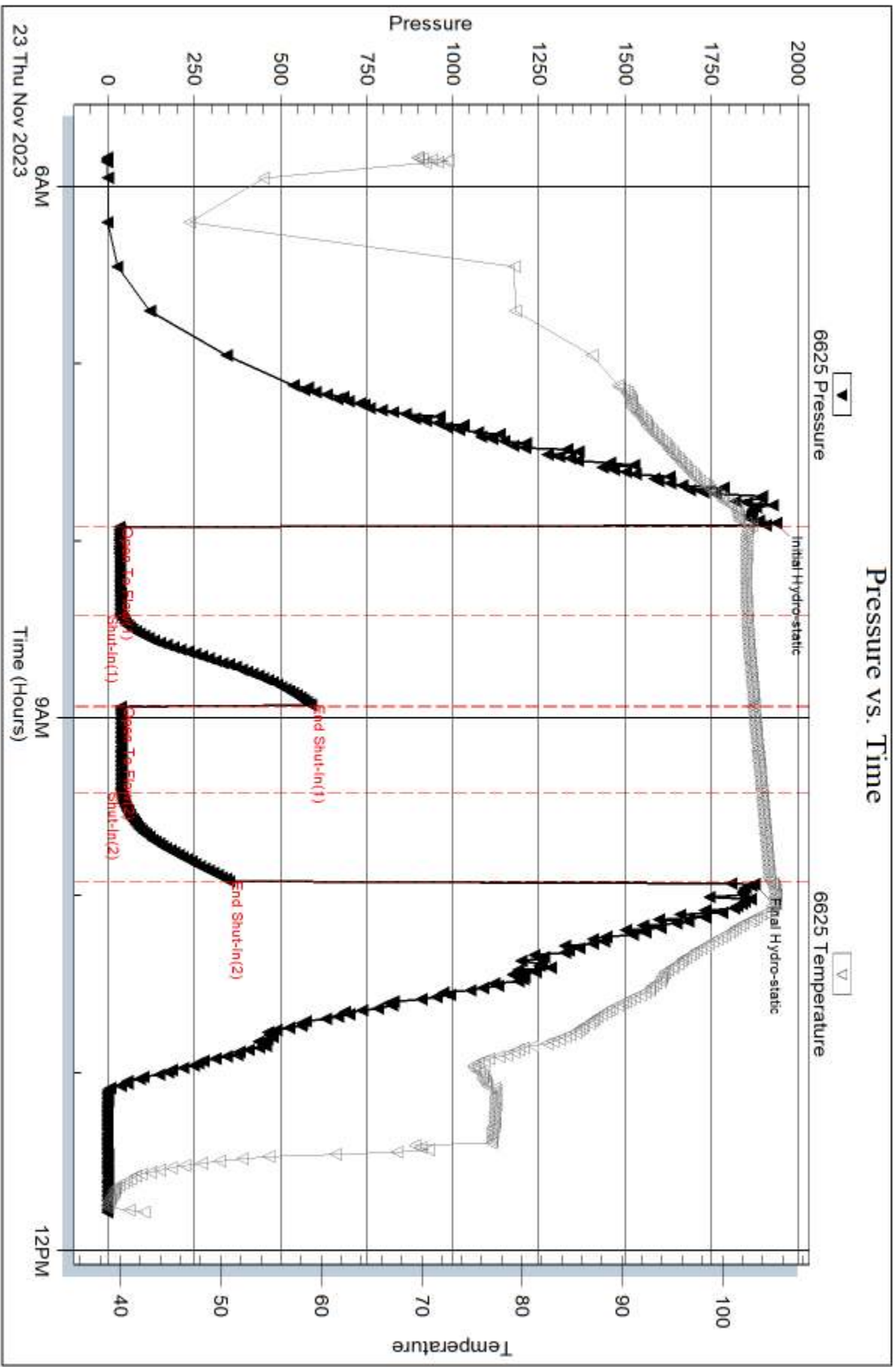
Num Gas Bombs: 0

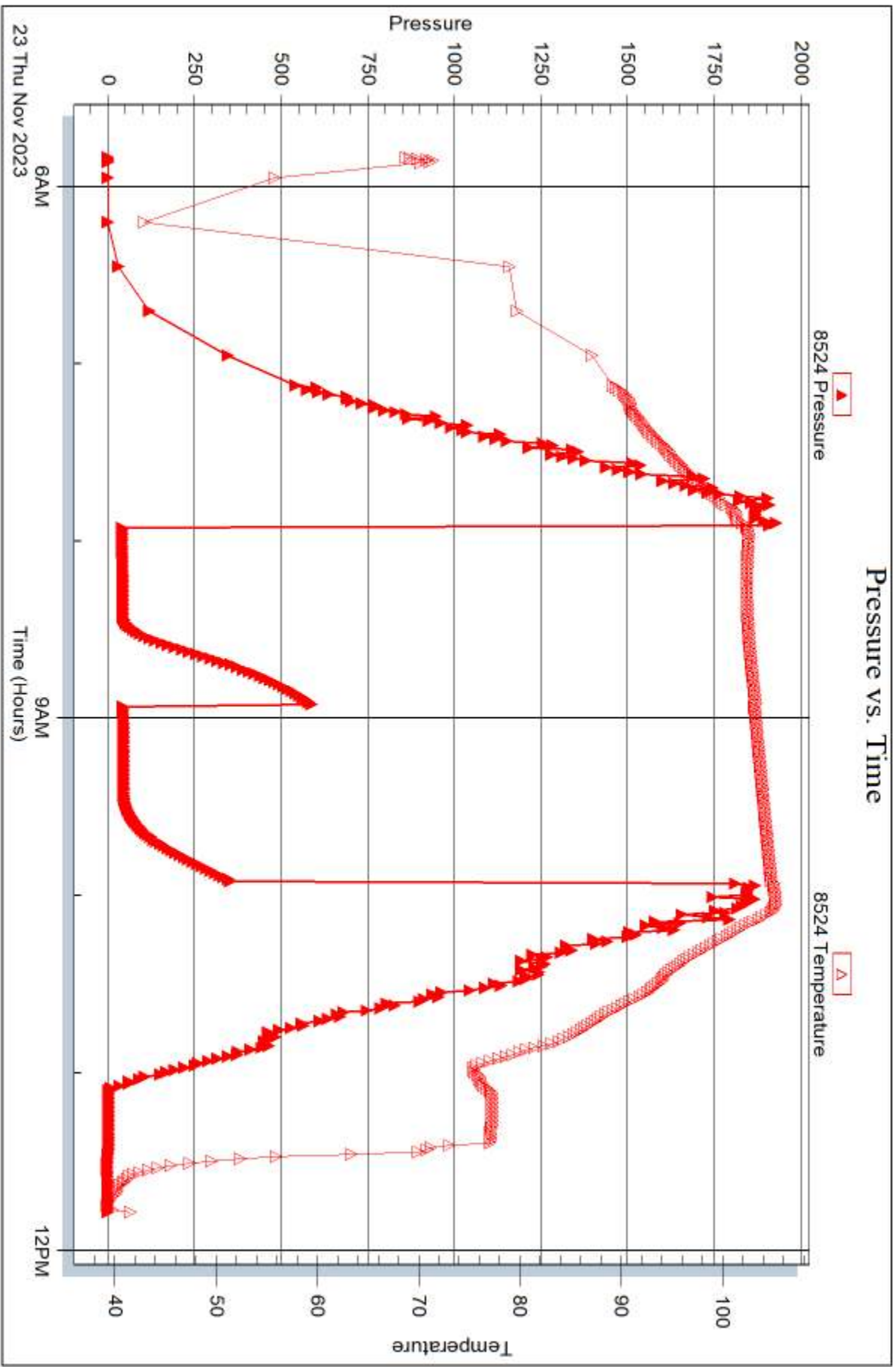
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

125 N. Market ST STE 1725
Wichita, KS 67202

ATTN: Larry Nicholson

Darvin # 1-22

22-10S-22W Graham,KS

Start Date: 2023.11.23 @ 18:45:00

End Date: 2023.11.24 @ 00:27:00

Job Ticket #: 70068 DST #: 4

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

Printed: 2023.11.28 @ 15:04:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy LLC
 125 N. Market ST STE 1725
 Wichita, KS 67202
 ATTN: Larry Nicholson

22-10S-22W Graham,KS

Darvin # 1-22

Job Ticket: 70068

DST#: 4

Test Start: 2023.11.23 @ 18:45:00

GENERAL INFORMATION:

Formation: **LKC K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:50:00
 Time Test Ended: 00:27:00
 Interval: **3792.00 ft (KB) To 3815.00 ft (KB) (TVD)**
 Total Depth: 3815.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 2336.00 ft (KB)
 2331.00 ft (CF)
 KB to GR/CF: 5.00 ft

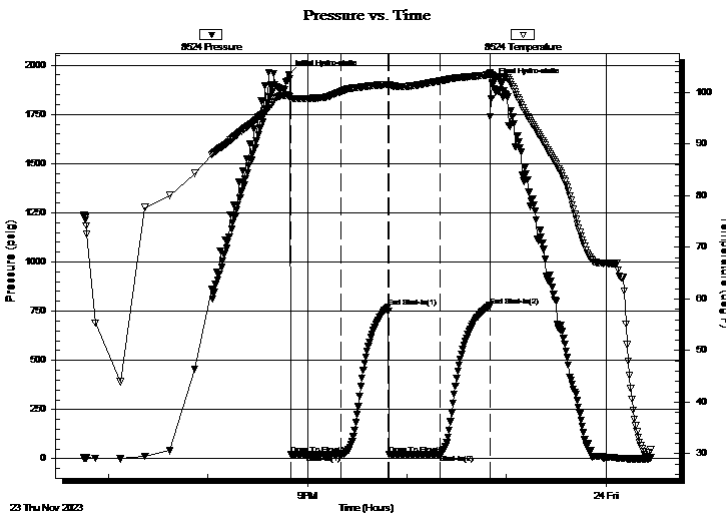
Serial #: 8524

Outside

Press@RunDepth: 23.86 psig @ 3793.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.11.23 End Date: 2023.11.24 Last Calib.: 2023.11.24
 Start Time: 18:45:05 End Time: 00:26:59 Time On Btm: 2023.11.23 @ 20:48:45
 Time Off Btm: 2023.11.23 @ 22:51:15

TEST COMMENT: IF-30- Built to 1"
 SI1-30- No return
 FF-30- No blow
 SI2-30- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1949.73	99.42	Initial Hydro-static
2	23.20	98.60	Open To Flow (1)
32	21.71	100.12	Shut-In(1)
60	771.13	101.55	End Shut-In(1)
61	21.63	101.25	Open To Flow (2)
92	23.86	102.25	Shut-In(2)
122	778.23	103.54	End Shut-In(2)
123	1911.61	103.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100%	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

22-10S-22W Graham,KS

125 N. Market ST STE 1725
Wichita, KS 67202

Darvin # 1-22

Job Ticket: 70068

DST#: 4

ATTN: Larry Nicholson

Test Start: 2023.11.23 @ 18:45:00

Tool Information

Drill Pipe:	Length: 3744.00 ft	Diameter: 3.80 inches	Volume: 52.52 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	20000.00 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
				String Weight: Initial	46000.00 lb
Drill Pipe Above KB:	8.00 ft			Final	46000.00 lb
Depth to Top Packer:	3792.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 ft				
Tool Length:	49.00 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			3767.00	
shut In Tool	5.00			3772.00	
hydraulic tool	5.00			3777.00	
EM Tool	3.00			3780.00	
safety Joint	3.00			3783.00	
Packer	5.00			3788.00	26.00 Bottom Of Top Packer
Packer	4.00			3792.00	
Stubb	1.00			3793.00	
Recorder	0.00	6625	Inside	3793.00	
Recorder	0.00	8524	Outside	3793.00	
perforations	18.00			3811.00	
Bullnose	4.00			3815.00	23.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

22-10S-22W Graham,KS

125 N. Market ST STE 1725
Wichita, KS 67202

Darvin # 1-22

Job Ticket: 70068

DST#: 4

ATTN: Larry Nicholson

Test Start: 2023.11.23 @ 18:45:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100%	0.010

Total Length: 2.00 ft

Total Volume: bbl

Num Fluid Samples: 0

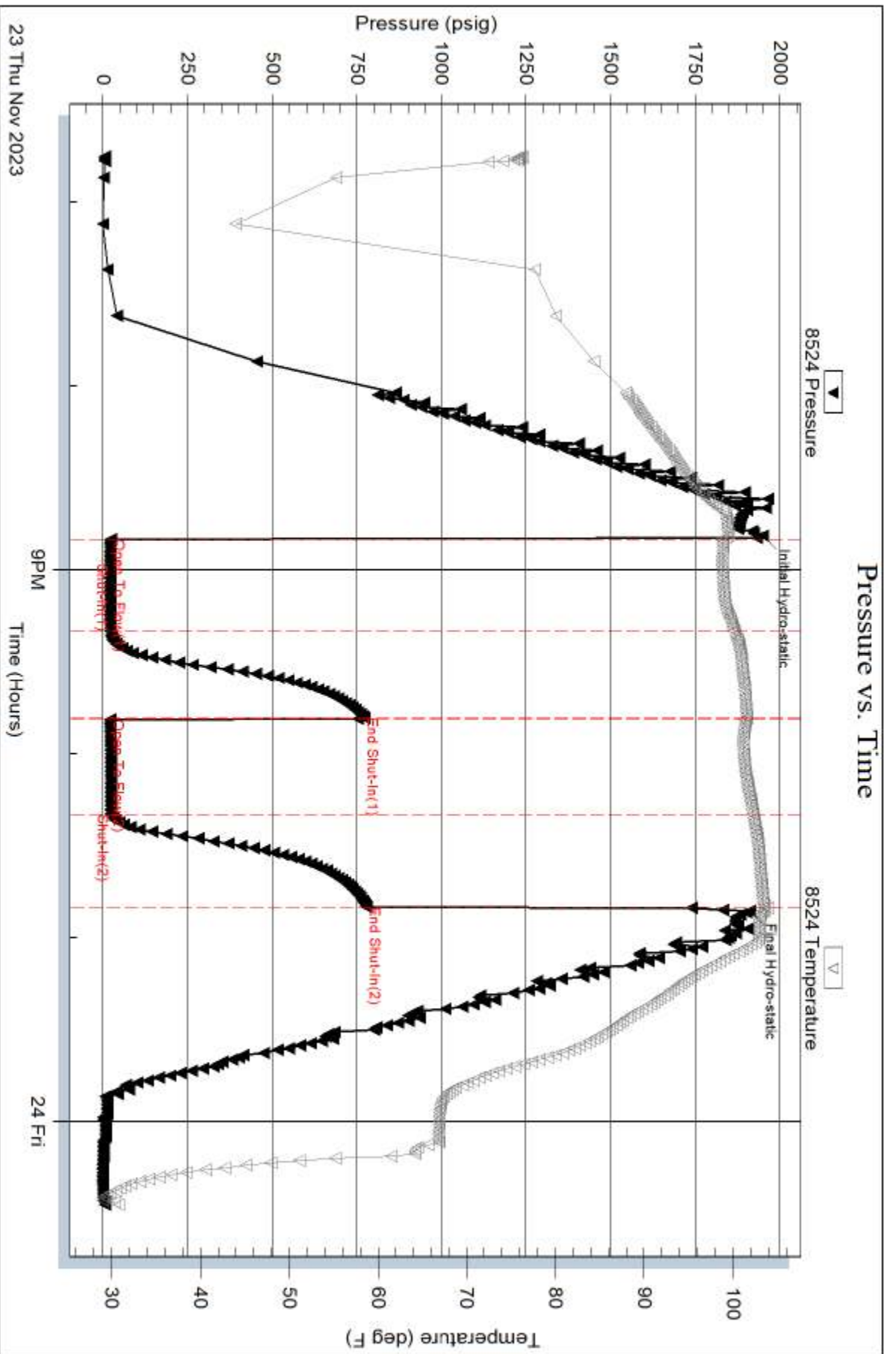
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM



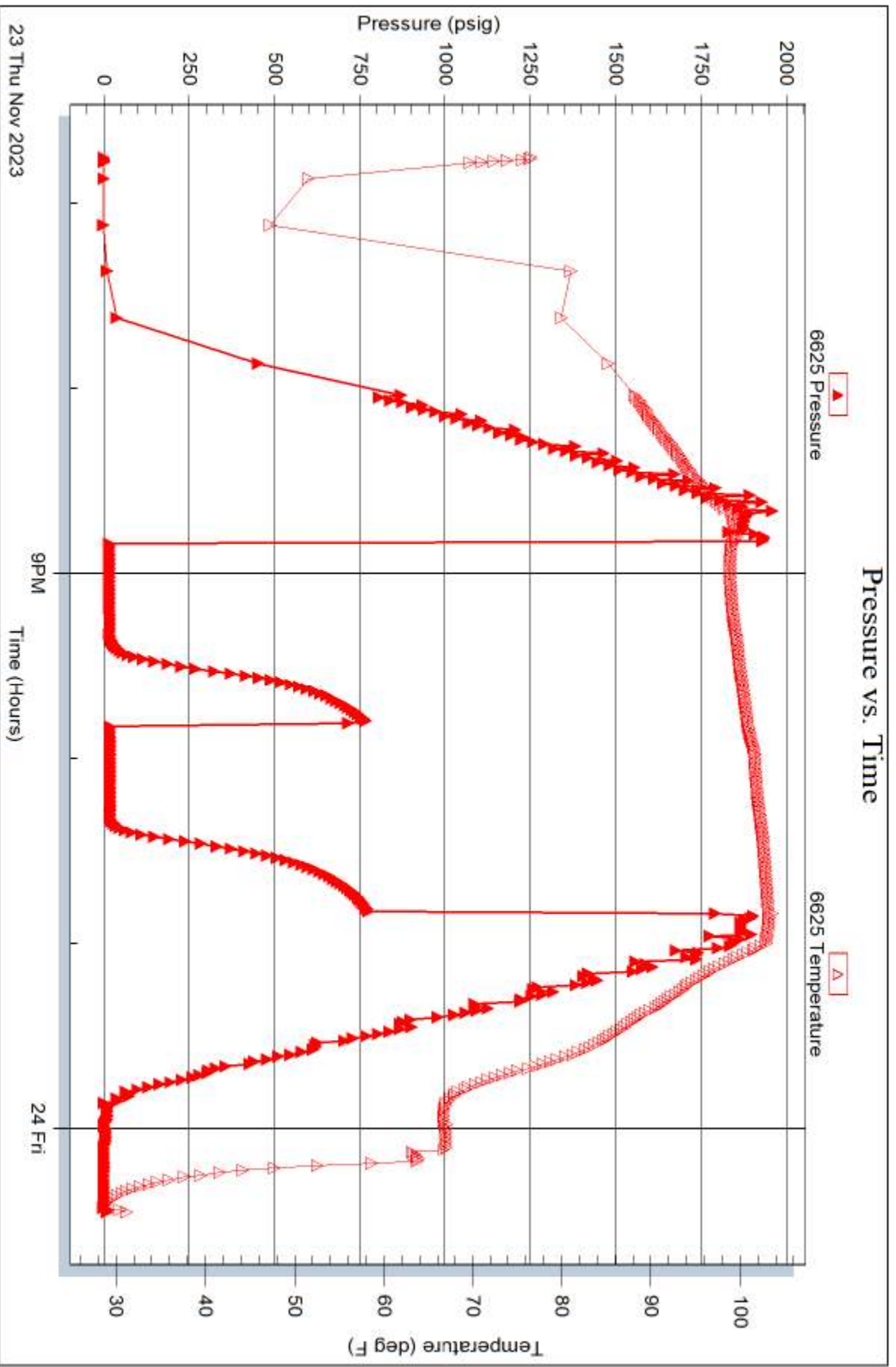
Serial #: 6625

Inside

Cobalt Energy LLC

Darwin #1-22

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **70065**

Well Name & No. Darwin# 1-22 Test No. 1 Date 11/21/23
 Company Cobalt Energy LLC Elevation 2336 KB 2331 GL
 Address 125 N. Market ST STE 1725 Wichita, KS 67202
 Co. Rep / Geo Larry Nicholson Rig Murfin Rig#116
 Location: Sec. 22 Twp 10S Rge. 22W Co. Graham State KS

Interval Tested 31629-31675 Zone Tested LKC C-D
 Anchor Length 46 Drill Pipe Run 3586 Mud Wt. 9.0
 Top Packer Depth 31624 Drill Collars Run 30 Vis 600
 Bottom Packer Depth 31629 Wt. Pipe Run 2 WL 6.4
 Total Depth 31675 Chlorides 1500 ppm System LCM 2#

Blow Description @IF-BOB in 8min built to 3336"
SI1 - no return
FF- BOB in 14 min, built to 22"
SI2 - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
<u>318</u>	<u>USMCW</u>			<u>95</u>	<u>5</u>

Rec Total 508 BHT 110 Gravity _____ API RW 340 @ 34 °F Chlorides 46000 ppm
 Initial Hydrostatic 1831 Test 1800 Ruined Shale Packer _____
 Initial Flow 34 to 159 Jars _____ Ruined Packer _____
 Initial Shut-In 623 Circ Sub _____ Hotel _____
 Final Flow 168 to 254 Hourly Standby _____ EM Tool Successful _____
 Final Shut-In 593 Mileage 84 147 Accessibility _____
 Final Hydrostatic 1778 Sampler _____ Gas Sample _____
 T- On Location 1340 Straddle _____ Sub Total 0
 Initial Flow 30 T-Started 15:23 Shale Packer _____ Total 1947
 Initial Shut-In 30 T-Open 17:59 Extra Packer _____ Tool Loaded _____ @ _____
 Final Flow 30 T-Pulled 19:59 Extra Recorder _____ MP/DST Disc't _____
 Final Shut-In 30 T-Out 22:43 Day Standby _____

Comments _____

Approved By _____ Our Representative Dusty Dyx

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **70066**

Well Name & No. Darwin# 1-22 Test No. 2 Date 11/22/23
 Company Cobalt Energy LLC Elevation 2336 KB 2331 GL
 Address 125 N. Market ST STE 1725 Wichita, KS 67202
 Co. Rep / Geo Larry Nicholson Rig Murfin Rig #16
 Location: Sec. 22 Twp 10S Rge. 22W Co. Graham State KS

Interval Tested 3673-3702 Zone Tested LKCF
 Anchor Length 29 Drill Pipe Run 3650 Mud Wt. 9.1
 Top Packer Depth 2668 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 2673 Wt. Pipe Run 0 WL 6.8
 Total Depth 2702 Chlorides 1600 ppm System LCM 1#

Blow Description IF- Built to 5"
S17- 1/2" return blow
FF- Built to 5.5"
S12- WSB

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>GHWCM w/ oil spots</u>	<u>5</u>		<u>35</u>	<u>60</u>
<u>60</u>	<u>MW</u>			<u>50</u>	<u>50</u>

Rec Total 110 BHT 106 Gravity 1800 API RW .357 @ 55 °F Chlorides 25000 ppm
 Initial Hydrostatic 1830 Test 1800 Ruined Shale Packer
 Initial Flow 15 to 38 Jars Ruined Packer
 Initial Shut-In 511 Circ Sub Hotel
 Final Flow 41 to 61 Hourly Standby EM Tool Successful
 Final Shut-In 507 Mileage 84 147 Accessibility
 Final Hydrostatic 1811 Sampler Gas Sample
 T-On Location 04:23 Straddle Sub Total 0
 Initial Flow 30 T-Started 05:08 Shale Packer Total 1947
 Initial Shut-In 45 T-Open 07:23 Extra Packer Tool Loaded @
 Final Flow 45 T-Pulled 10:23 Extra Recorder MP/DST Disc't
 Final Shut-In 60 T-Out 12:15 Day Standby

Comments _____

Approved By _____ Our Representative Duyl Dy

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. 70067

Well Name & No. Parvin #1-22 Test No. 3 Date 11/22-23/23
 Company Cobalt Energy LLC Elevation 2336 KB 2331 GL
 Address 125 N. Market ST STE 1725 Wichita, KS 67202
 Co. Rep / Geo Larry Nicholson Rig Murfin Rig #116
 Location: Sec. 22 Twp 10S Rge. 22W Co. Graham State KS

Interval Tested 3729-3795 Zone Tested LKC H-V
 Anchor Length 66' Drill Pipe Run 3681 Mud Wt. 9.1
 Top Packer Depth 3724 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3729 Wt. Pipe Run 6 WL 6.8
 Total Depth 3795 Chlorides 1600 ppm System LCM 1#

Blow Description IF Built to 1/4"
S17 - No return
IF - No blow
S12 - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud (oil spots in tool)</u>				

Rec Total 5 BHT 105 Gravity 1800 API RW @ °F Chlorides ppm
 Initial Hydrostatic 1937 Test 1800 Ruined Shale Packer
 Initial Flow 34 to 37 Jars Ruined Packer
 Initial Shut-In 589 Circ Sub Hotel
 Final Flow 38 to 40 Hourly Standby EM Tool Successful
 Final Shut-In 352 Mileage 84x2 147+147 Accessibility
 Final Hydrostatic 1875 Sampler Gas Sample
 T-On Location 23:00-04:40 Straddle Sub Total 0
 Initial Flow 30 T-Started 05:50 Shale Packer Total 2094
 Initial Shut-In 30 T-Open 07:24 Extra Packer Tool Loaded @
 Final Flow 30 T-Pulled 09:24 Extra Recorder MP/DST Disc't
 Final Shut-In 30 T-Out 11:16 Day Standby
 Comments Slw + dlw break down

Approved By _____ Our Representative D. J. Dy

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. **70068**

Well Name & No. Darwin #1-22 Test No. 4 Date 11/23/23
 Company Cobalt Energy LLC Elevation 2336 KB 2331 GL
 Address 125 W Market St STE 1725 Wichita, KS 67202
 Co. Rep / Geo Larry Nicholson Rig Marlin Rig #16
 Location: Sec. 22 Twp 10S Rge. 22W Co. Graham State KS

Interval Tested 3792-3815 Zone Tested LKC K
 Anchor Length 23 Drill Pipe Run 3744 Mud Wt. 9.2
 Top Packer Depth 3787 Drill Collars Run 30 Vis 52
 Bottom Packer Depth 3792 Wt. Pipe Run 0 WL 6.8
 Total Depth 3815 Chlorides 1900 ppm System LCM 14

Blow Description IF - Built to 1"
S11 - No return
EF - No blow
S12 - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 103 Gravity 1800 API RW 1800 @ 147 °F Chlorides 1900 ppm
 Initial Hydrostatic 1550 Test 1800 Ruined Shale Packer
 Initial Flow 23 to 22 Jars Ruined Packer
 Initial Shut-In 771 Circ Sub Hotel
 Final Flow 22 to 24 Hourly Standby EM Tool Successful
 Final Shut-In 778 Mileage 84 Accessibility
 Final Hydrostatic 1912 Sampler Gas Sample
 T-On Location 17:40 Straddle Sub Total 0
 Initial Flow 30 T-Started 18:45 Shale Packer Total 1947
 Initial Shut-In 30 T-Open 20:50 Extra Packer Tool Loaded @
 Final Flow 30 T-Pulled 22:50 Extra Recorder MP/DST Disc't
 Final Shut-In 30 T-Out 00:28 Day Standby

Comments _____

Approved By _____ Our Representative DUSTY

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

FINAL
NAD 83
39.164528688
.9976162634

COMPANY & WELL **Cobalt Energy Darwin #1-22**
LOCATION **1207 FSL & 2076 FEL NE NW SW SE**
SEC **22** TWP **10S** RGE **22W**
COUNTY **Graham** STATE **Ks**

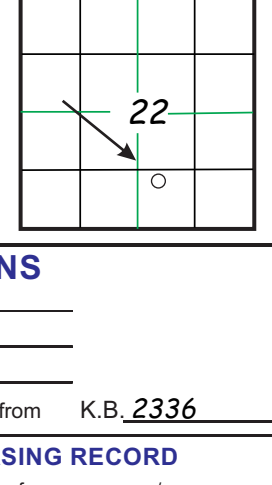
COMPANY **Cobalt Energy**
API # **15-065-24303** FIELD **Wildcat**
LEASE **Darwin** WELL # **#1-22**
LOCATION **NE NW SW SE**
SURVEY **1207 FSL & 2076 FEL**
COUNTY **22 TWP 10S** RGE **22W**
STATE **Kansas**

CONTRACTOR **Murfin Drilling** Rig # **16**
SPUD **9:00 am 11-17-23** COMP. **2336**
RTD **7:36 am 11-24-23** LTD **3898**
MUD UP AT **2935**
MUD TYPE **Chemical Mud-Co Gary S.**

ELEVATIONS
K.B. **2336**
D.F.
G.L. **2331**
All measurements from K.B. **2336**

SAMPLES SAVED FROM **3200** TO **RTD**
DRILLING TIME 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 **259** of **8 5/8"** wt **175** ss
Production _____ of _____ wt _____ ss



ELECTRICAL SURVEYS Western Neu Den Dual Micro

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELELOG TOPS	SUBSEA DATUM	REFERENCE WELL
Anhydrite			1850	+486	
Topeka			3344	-1008	
Heebner			3568	-1232	
Toronto			3589	-1253	
Lansing			3605	-1269	
Lansing G			3704	-1368	
Lansing J			3782	-1446	
Stark			3796	-1460	
Lansing K			3802	-1466	
Hushpuckney			3822	-1486	
BKC			3845	-1509	
RTD			3900	-1564	
LTD			3898	-1562	

REFERENCE WELLS
A: _____
B: _____

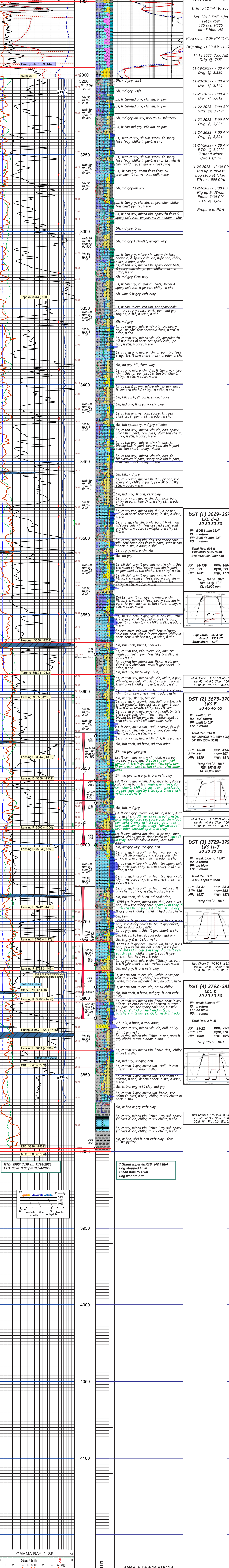
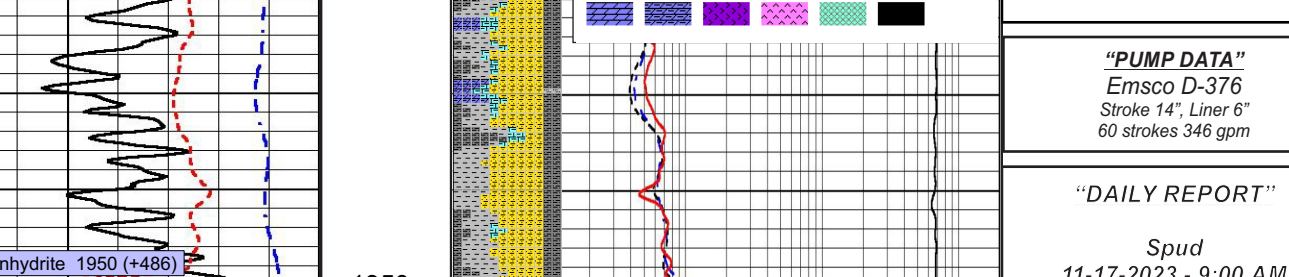
LAN 7/92, Modified 5/05, 11/11, 4/12, 4/18 8.5 x 97.5 mem TL 5/05/21 last well

DRILLSTEM TEST SUMMARY :

REMARKS & RECOMMENDATIONS:
Based on Sample Shows and Dst Results the well was P&A.
*** Note Rop Dsts, Sho, cfs, lag, moved up 2 ft. to match elogs (depth moved, num not changed)**
Sincerely Submitted
Larry Nicholson Geologist

In Memory of Geologist Tom Lauer

LEGEND



COMPANY **Cobalt Energy**
LEASE **Darwin #1-22 NE NW SW SE**
LOCATION **1207 FSL & 2076 FEL** SEC **22** TWP **10S** RGE **22W**
COUNTY **Graham** STATE **Ks**

ELEVATIONS
K.B. **2336**
D.F.
G.L. **2331**
All measurements from K.B. **2336**

