

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	ELIZABETH "A" 2-36
Doc ID	1511215

Tops

Name	Top	Datum
ANHY	1675	490
TOPEKA	3131	-966
HEEBNER	3345	-1180
LANSING	3386	-1221
STARK	3563	-1398
BKC	3593	-1428
MARM	3628	-1463
ARB	3719	-1554



CHARGE TO: Cobalt Energy Llc
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 032753

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Hays, KS</u>	WELL/PROJECT NO. <u>2-36</u>	LEASE <u>Elizabeth A</u>	COUNTY/PARISH <u>Graham</u>	STATE <u>KS</u>	CITY	DATE <u>02/25/2020</u>	OWNER <u>Same</u>
2. <u>Ness City, KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Murfin Drilling</u>	RIG NAME/NO. <u>Rig 8</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>Dil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Top to Bottom Long String</u>	WELL PERMIT NO.		WELL LOCATION	
4.	REFERRAL LOCATION						
INVOICE INSTRUCTIONS							

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	60				5.00	300.00
579		1			Pump Charge - Top to Btm Long String	1				1900.00	1900.00
290		1			D-Air	5				42.00	210.00
281		1			Mud Flush	500				1.50	750.00
221		1			Liquid KCL	2				25.00	50.00
403		1			Cement Basket	4		5 1/2"		275.00	1100.00
406		1			Latch Down Plug + Baffle	1				250.00	250.00
407		1			Insert Float Shoe w/AutoFill	1				325.00	325.00
409		1			Turbolizer	9				90.00	810.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

DATE SIGNED _____ TIME SIGNED _____
 A.M.
 P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

Page 1 5695.00
 PAGE TOTAL
 Page 2 10,631.50
 Subtotal 16,326.50
 G. Green
 899.63
 TOTAL 17226.13

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR _____

APPROVAL _____

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

No. 032753

CUSTOMER Cabalt Energy	WELL Elizabeth A 2-36	DATE 02/26/2020	PAGE 2	OF 2
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT		
		LOC	ACCT	DF			QTY	U/M	QTY	U/M				
330		2				Swift Multi Density 5td	300	SKS			17.00	5100	00	
325		2				Standard Cement	150	SKS			13.50	2025	00	
284		2				Calseal	7	SKS			40.00	280	00	
283		2				Salt	800	lbs			0.25	200	00	
292		2				Halad 322	70	lbs			8.50	595	00	
276		2				Plecele	100	lbs			3.00	300	00	
581		2				SERVICE CHARGE Cement					1.00	832	50	
583		2				MILEAGE CHARGE					0.25	1299	00	
							TOTAL WEIGHT	45579		LOADING MILES	60			
							ENDIG FEET	250 SKS						
							TON MILES	1367.37						

CONTINUATION TOTAL **10631.50**

JOB LOG

SWIFT Services, Inc.

DATE PAGE NO.

02/25/2020 1

CUSTOMER WELL NO. LEASE JOB TYPE TICKET NO.

Cobalt Energy 2-36 Elizabeth 'A' Long String 832753

CHART NO. TIME RATE (BPM) VOLUME (BBL) (GAL) PUMPS T C PRESSURE (PSI) TUBING CASING DESCRIPTION OF OPERATION AND MATERIALS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0900							On location w/Float Equipment Murfin Rig 8, laying down collars RTD-3800' 3791' of 5 1/2" x 15 1/2" # set at 3796'. Baffle Plate @ 3748 JT # 94 as #10 Marker JT Turbolizers - 4, 3, 5, 6, 7, 8, 9, 94, 49 Baskets - Pin of 6, 37, 50, 64
	1230							Start casing w/Float Equipment
	1500							Break Circulation on Bottom
	1615	2	8					Plug Rat hole w/ 30 SKS SMD
		2	5					Plug Mansehole w/ 15 SKS SMD
		5	12			300		Pump Mud Flush
		5	20			300		Pump KGL spacer
	1630	6				300		Start SMD Cement mix @ 11.2 ppq
		6	140					Fin SMD, start EA2 Cmt @ 15.5 ppq
		4	36					Vac, Fin EA2 Cmt, shut Down
		8						Vac Drop Plug, Wash out Pump + Lines
		7	55			500		Start Displacement
		6	87			1200		Catch Cmt
	1730	6	89			1800		Lift
								Land Plug, Cmt Circulated to surface
								Release Trk, Dry
								Wash up
								Rack up
	1800							Job Complete

Thank You,
Jon, Austin, Kirby, Isaac

GLOBAL OIL FIELD SERVICES, LLC

13753

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell

DATE <u>2-17-20</u>	SEC. <u>36</u>	TWP. <u>08</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION <u>1.00 PM</u>	JOB START	JOB FINISH <u>2:45 PM</u>
LEASE <u>Elizabethton</u>		WELL #. <u>2-36</u>		LOCATION <u>Southern Bayou</u>		COUNTY <u>Cherokee</u>	STATE <u>Ks</u>
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR MURFIN
TYPE OF JOB SURFACE

HOLE SIZE <u>12 1/4</u>	T.D. <u>280</u>
CASING SIZE <u>5 1/2</u>	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS	
DISPLACEMENT <u>13 bbls</u>	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Bill</u>
# <u>417</u>	HELPER <u>JASON</u>
BULK TRUCK	
#	DRIVER <u>Eddie</u>
BULK TRUCK	
#	DRIVER

OWNER

CEMENT AMOUNT ORDERED 150,694 3-2

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE	@	
		TOTAL

REMARKS:

Ran 5 STS cement @ 280
Central 150N
pump plus w/ 13 bbls water
cost did not Thank

CHARGE TO: Cobalt Energy
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	
EXTRA FOOTAGE	@
MILEAGE	@
MANIFOLD	@
	@
	@
TOTAL	

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

Global Oil Field Services, LLC
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME JASON BOSTI
SIGNATURE Jason Bosti

SALES TAX (If Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Elizabeth "A" #2-36

36-8S-22W Graham,KS

Start Date: 2020.02.20 @ 13:00:07

End Date: 2020.02.20 @ 18:25:28

Job Ticket #: 66212 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.02.25 @ 08:42:33



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66212

DST#: 1

ATTN: Larry Nicholson

Test Start: 2020.02.20 @ 13:00:07

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 18:25:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3377.00 ft (KB) To 3432.00 ft (KB) (TVD)

Reference Elevations: 2157.00 ft (KB)

Total Depth: 3432.00 ft (KB) (TVD)

2152.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: psig @ 3378.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.02.20

End Date:

2020.02.20

Last Calib.:

2020.02.20

Start Time: 13:00:19

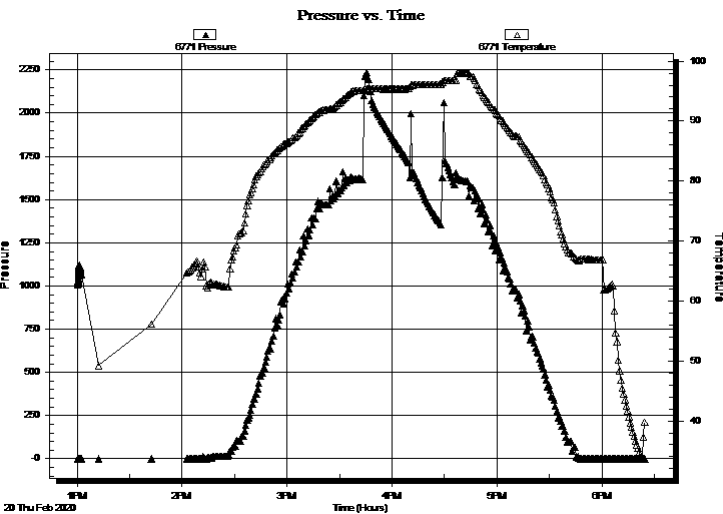
End Time:

18:24:54

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- 1/2" blow . Flushed tool tw ice. Pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66212

DST#: 1

ATTN: Larry Nicholson

Test Start: 2020.02.20 @ 13:00:07

Tool Information

Drill Pipe:	Length: 3181.00 ft	Diameter: 3.82 inches	Volume: 45.09 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3377.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	86.00 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			3347.00	
Shut In Tool	5.00			3352.00	
Hydraulic tool	5.00			3357.00	
Jars	5.00			3362.00	
Gap Sub	3.00			3365.00	
Safety Joint	3.00			3368.00	
Packer	5.00			3373.00	31.00 Bottom Of Top Packer
Packer	4.00			3377.00	
Stubb	1.00			3378.00	
Recorder	0.00	6771	Inside	3378.00	
Recorder	0.00	8700	Outside	3378.00	
Perforations	15.00			3393.00	
Change Over Sub	1.00			3394.00	
Drill Pipe	32.00			3426.00	
Change Over Sub	1.00			3427.00	
Perforations	2.00			3429.00	
Bullnose	3.00			3432.00	55.00 Bottom Packers & Anchor
Total Tool Length:	86.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66212

DST#: 1

ATTN: Larry Nicholson

Test Start: 2020.02.20 @ 13:00:07

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:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

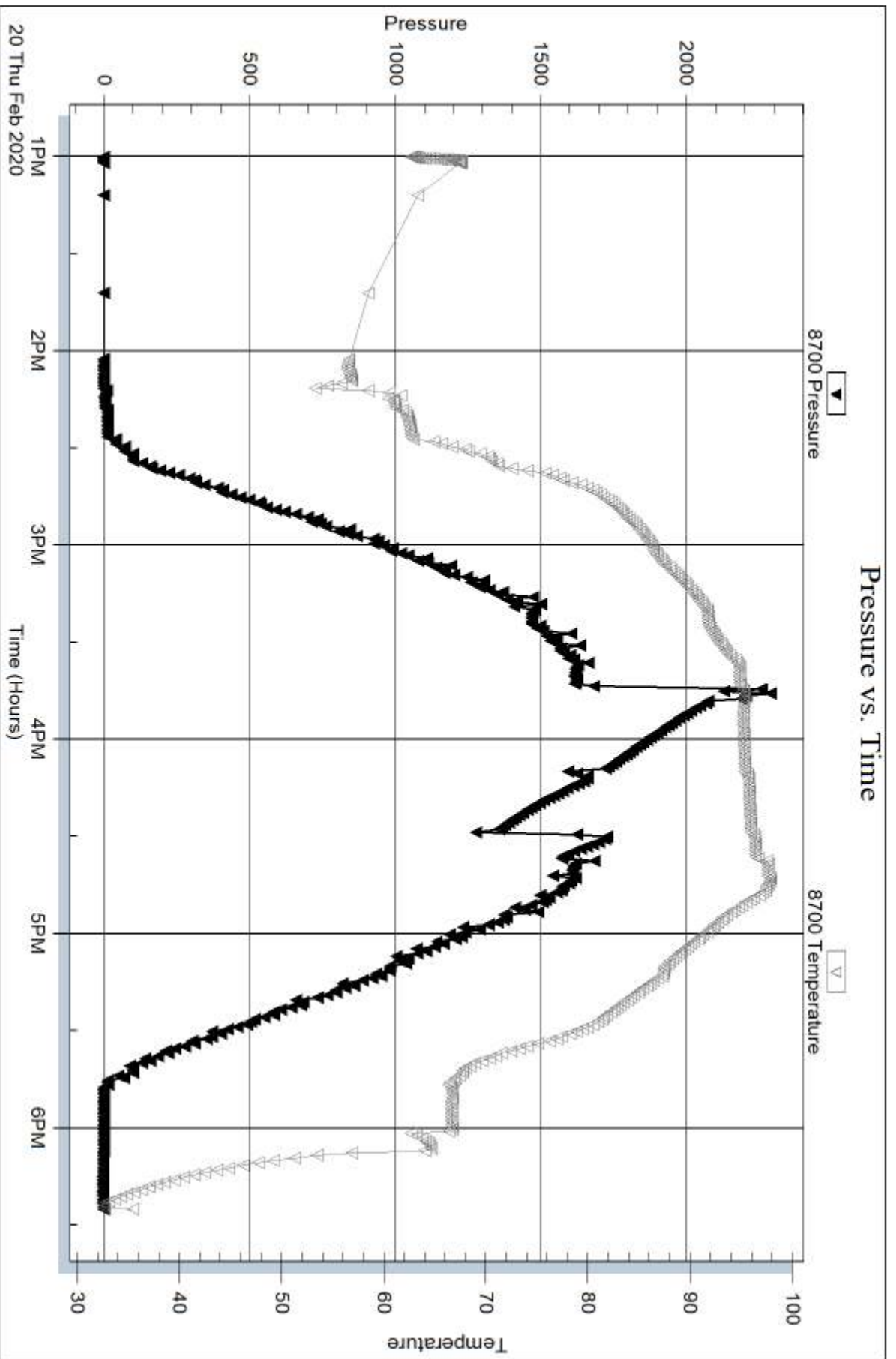
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



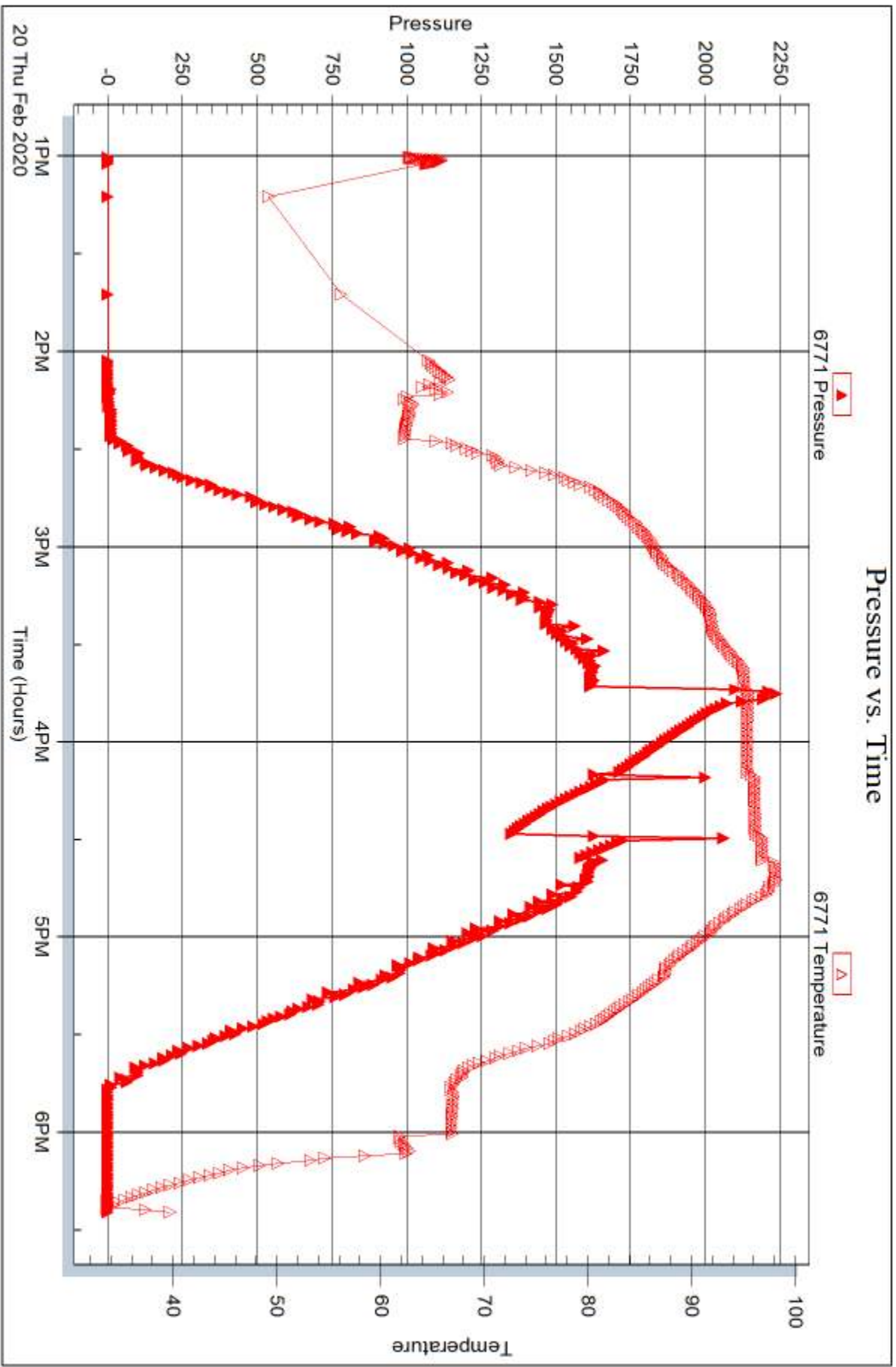
Serial #: 6771

Inside

Cobalt Energy, LLC

Elizabeth "A" #2-36

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Elizabeth "A" #2-36

36-8S-22W Graham,KS

Start Date: 2020.02.20 @ 23:08:43

End Date: 2020.02.21 @ 05:37:34

Job Ticket #: 66213 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.02.25 @ 08:42:11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66213

DST#: 2

ATTN: Larry Nicholson

Test Start: 2020.02.20 @ 23:08:43

Tool Information

Drill Pipe:	Length: 3181.00 ft	Diameter: 3.82 inches	Volume: 45.09 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3377.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	86.00 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			3347.00	
Shut In Tool	5.00			3352.00	
Hydraulic tool	5.00			3357.00	
Jars	5.00			3362.00	
Gap Sub	3.00			3365.00	
Safety Joint	3.00			3368.00	
Packer	5.00			3373.00	31.00 Bottom Of Top Packer
Packer	4.00			3377.00	
Stubb	1.00			3378.00	
Recorder	0.00	6771	Inside	3378.00	
Recorder	0.00	8700	Outside	3378.00	
Perforations	15.00			3393.00	
Change Over Sub	1.00			3394.00	
Drill Pipe	32.00			3426.00	
Change Over Sub	1.00			3427.00	
Perforations	2.00			3429.00	
Bullnose	3.00			3432.00	55.00 Bottom Packers & Anchor
Total Tool Length:	86.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66213

DST#: 2

ATTN: Larry Nicholson

Test Start: 2020.02.20 @ 23:08:43

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:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

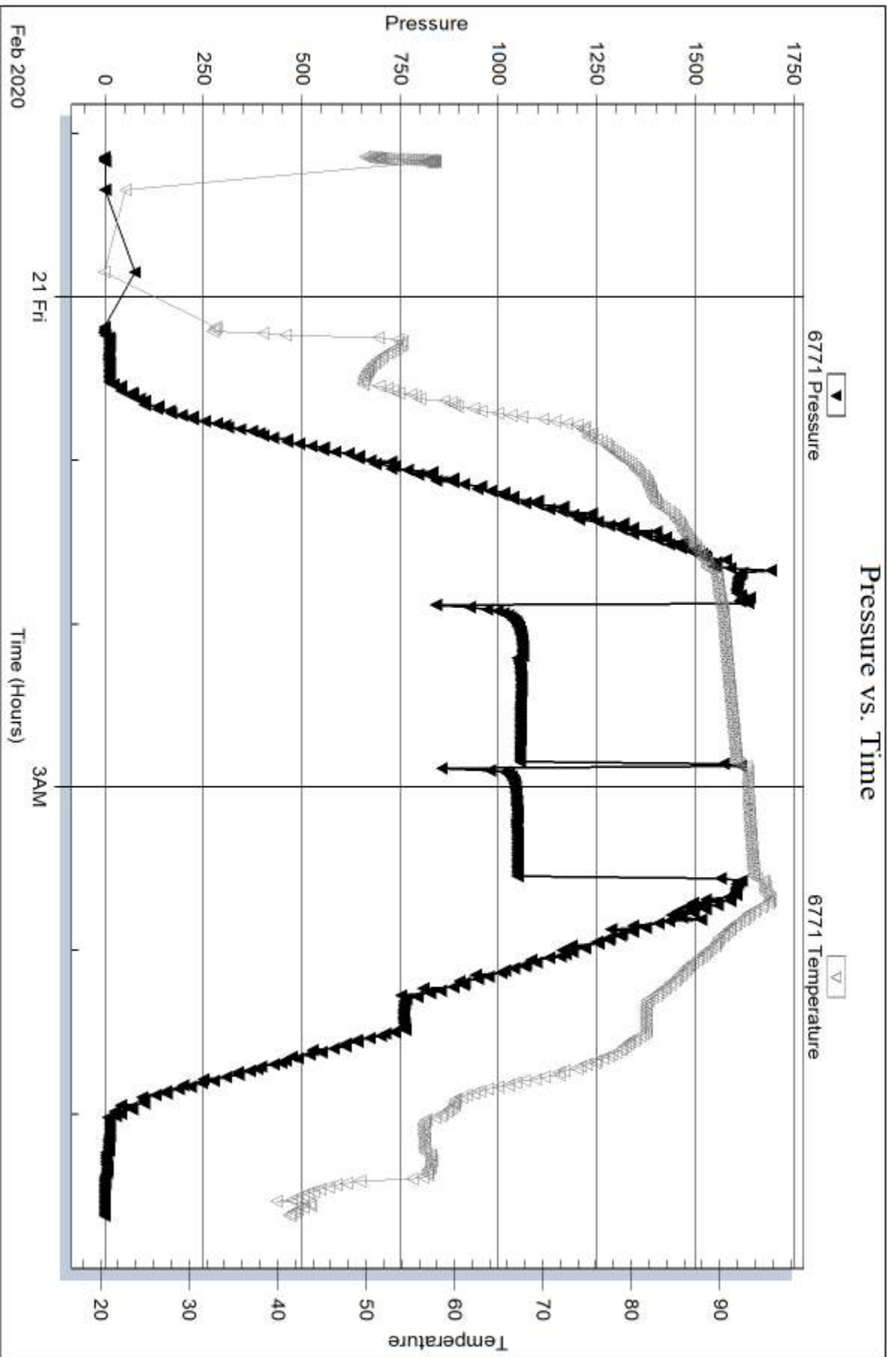
Serial #: 6771

Inside

Cobalt Energy, LLC

Elizabeth "A" #2-36

DST Test Number: 2

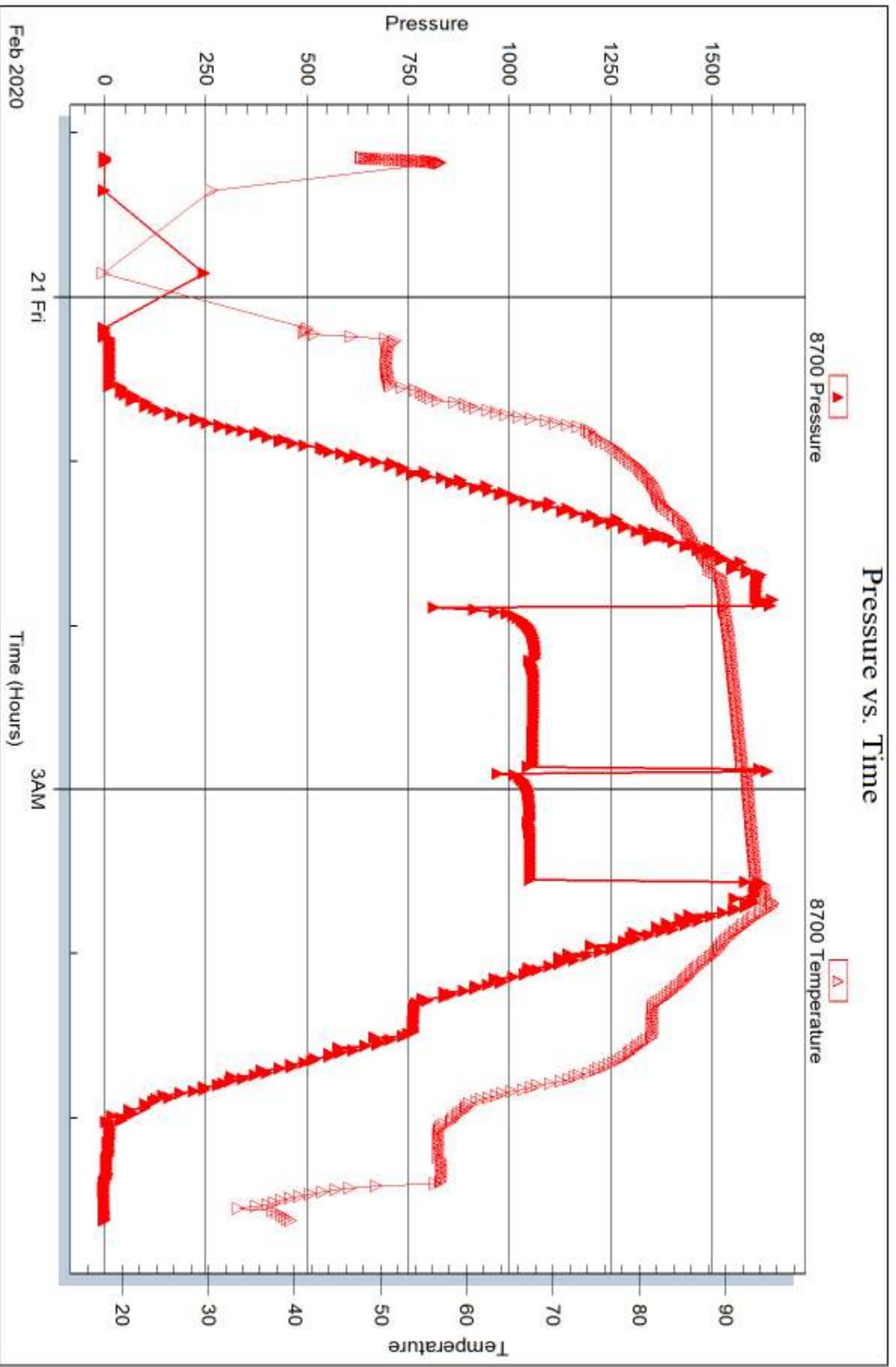


Serial #: 8700

Outside Cobalt Energy, LLC

Elizabeth "A" #2-36

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 66213

Printed: 2020.02.25 @ 08:42:12



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Elizabeth "A" #2-36

36-8S-22W Graham,KS

Start Date: 2020.02.21 @ 05:52:14

End Date: 2020.02.21 @ 13:28:50

Job Ticket #: 66214 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.02.25 @ 08:41:41



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66214

DST#: 3

ATTN: Larry Nicholson

Test Start: 2020.02.21 @ 05:52:14

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:53:35

Time Test Ended: 13:28:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3376.00 ft (KB) To 3432.00 ft (KB) (TVD)

Reference Elevations: 2157.00 ft (KB)

Total Depth: 3432.00 ft (KB) (TVD)

2152.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700

Outside

Press@RunDepth: 148.09 psig @ 3377.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.02.21

End Date:

2020.02.21

Last Calib.:

2020.02.21

Start Time: 05:52:15

End Time:

13:28:50

Time On Btm:

2020.02.21 @ 07:53:05

Time Off Btm:

2020.02.21 @ 11:14:35

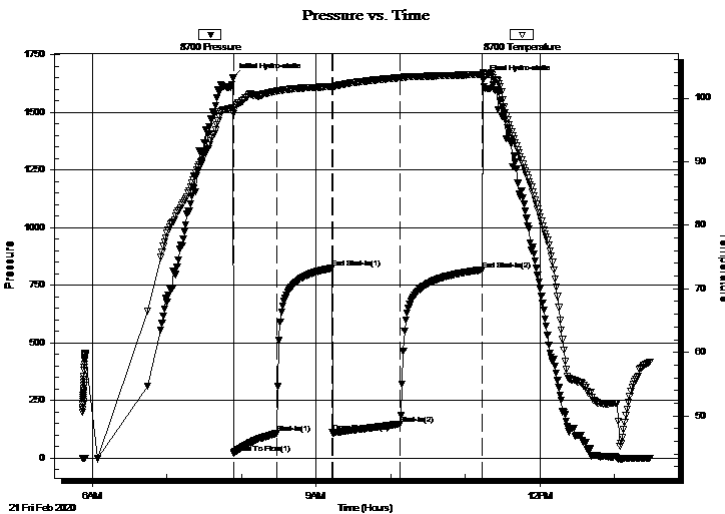
TEST COMMENT: 30- IF- Slowly built to 6.35"

45- IS- No blow

60- FF- BOB 45 mins. Built to 12.16"

60- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.77	98.53	Initial Hydro-static
1	21.15	97.60	Open To Flow (1)
35	106.89	101.12	Shut-In(1)
80	824.14	101.84	End Shut-In(1)
80	110.43	101.74	Open To Flow (2)
135	148.09	103.22	Shut-In(2)
200	816.39	103.74	End Shut-In(2)
202	1642.61	103.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	MW, 10%M 90%W	0.91
80.00	SOCM, 5%O 95%M	1.12
15.00	CO	0.21

* 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

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66214

DST#: 3

ATTN: Larry Nicholson

Test Start: 2020.02.21 @ 05:52:14

Tool Information

Drill Pipe:	Length: 3181.00 ft	Diameter: 3.82 inches	Volume: 45.09 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose:	56000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	54000.00 lb
Drill Pipe Above KB:	23.00 ft			Final	55000.00 lb
Depth to Top Packer:	3376.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	87.00 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			3346.00	
Shut In Tool	5.00			3351.00	
Hydraulic tool	5.00			3356.00	
Jars	5.00			3361.00	
Gap Sub	3.00			3364.00	
Safety Joint	3.00			3367.00	
Packer	5.00			3372.00	31.00 Bottom Of Top Packer
Packer	4.00			3376.00	
Stubb	1.00			3377.00	
Recorder	0.00	6771	Inside	3377.00	
Recorder	0.00	8700	Outside	3377.00	
Perforations	15.00			3392.00	
Change Over Sub	1.00			3393.00	
Drill Pipe	32.00			3425.00	
Change Over Sub	1.00			3426.00	
Perforations	3.00			3429.00	
Bullnose	3.00			3432.00	56.00 Bottom Packers & Anchor
Total Tool Length:	87.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66214

DST#: 3

ATTN: Larry Nicholson

Test Start: 2020.02.21 @ 05:52:14

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 5.97 in³
Resistivity: ohm.m
Salinity: 2600.00 ppm
Filter Cake: inches

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

Oil API: 34 deg API
Water Salinity: 23000 ppm

Recovery Information

Recovery Table

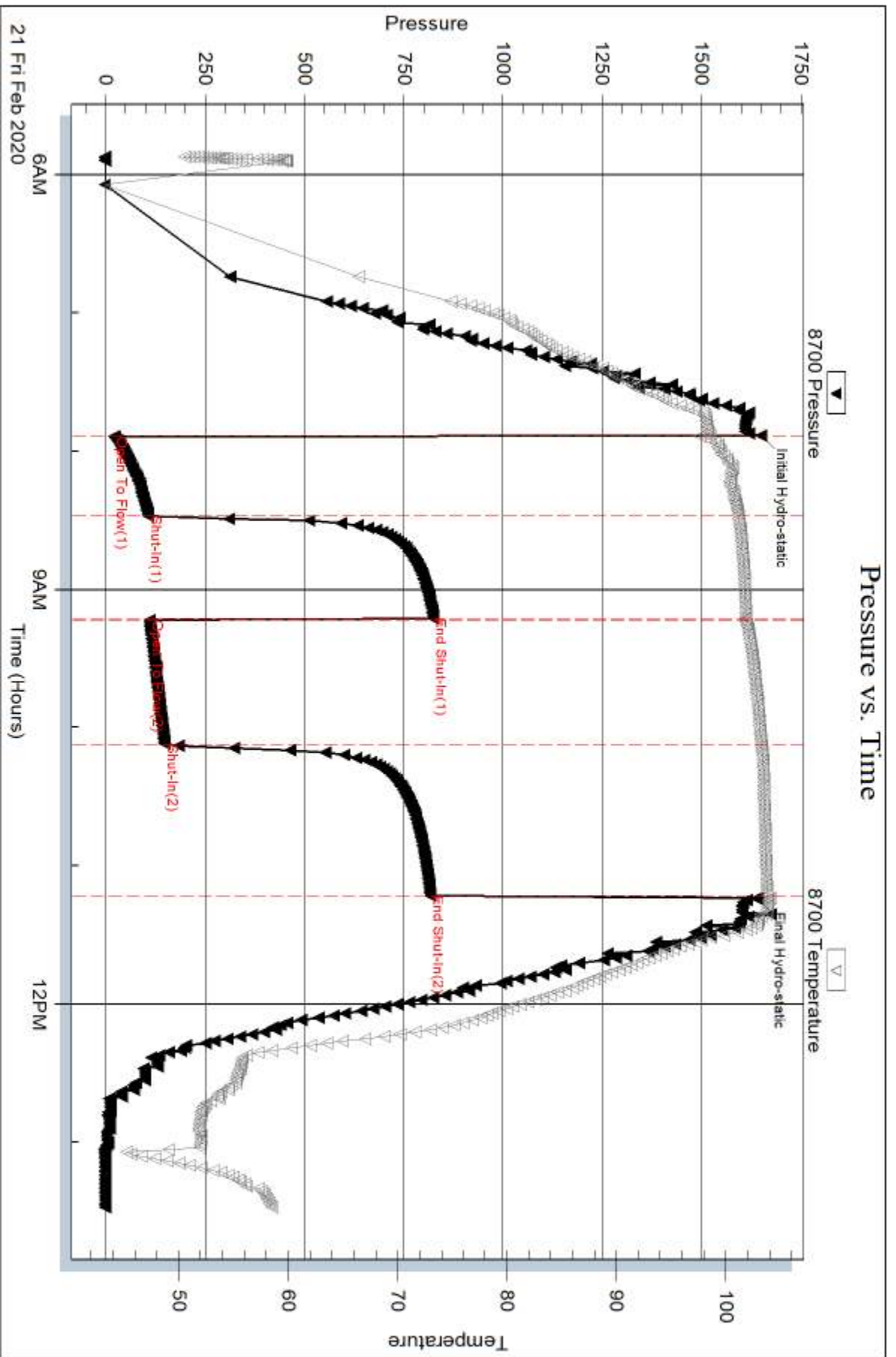
Length ft	Description	Volume bbl
185.00	MW, 10%M 90%W	0.910
80.00	SOCM, 5%O 95%M	1.116
15.00	CO	0.213

Total Length: 280.00 ft Total Volume: 2.239 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW: .37@54deg



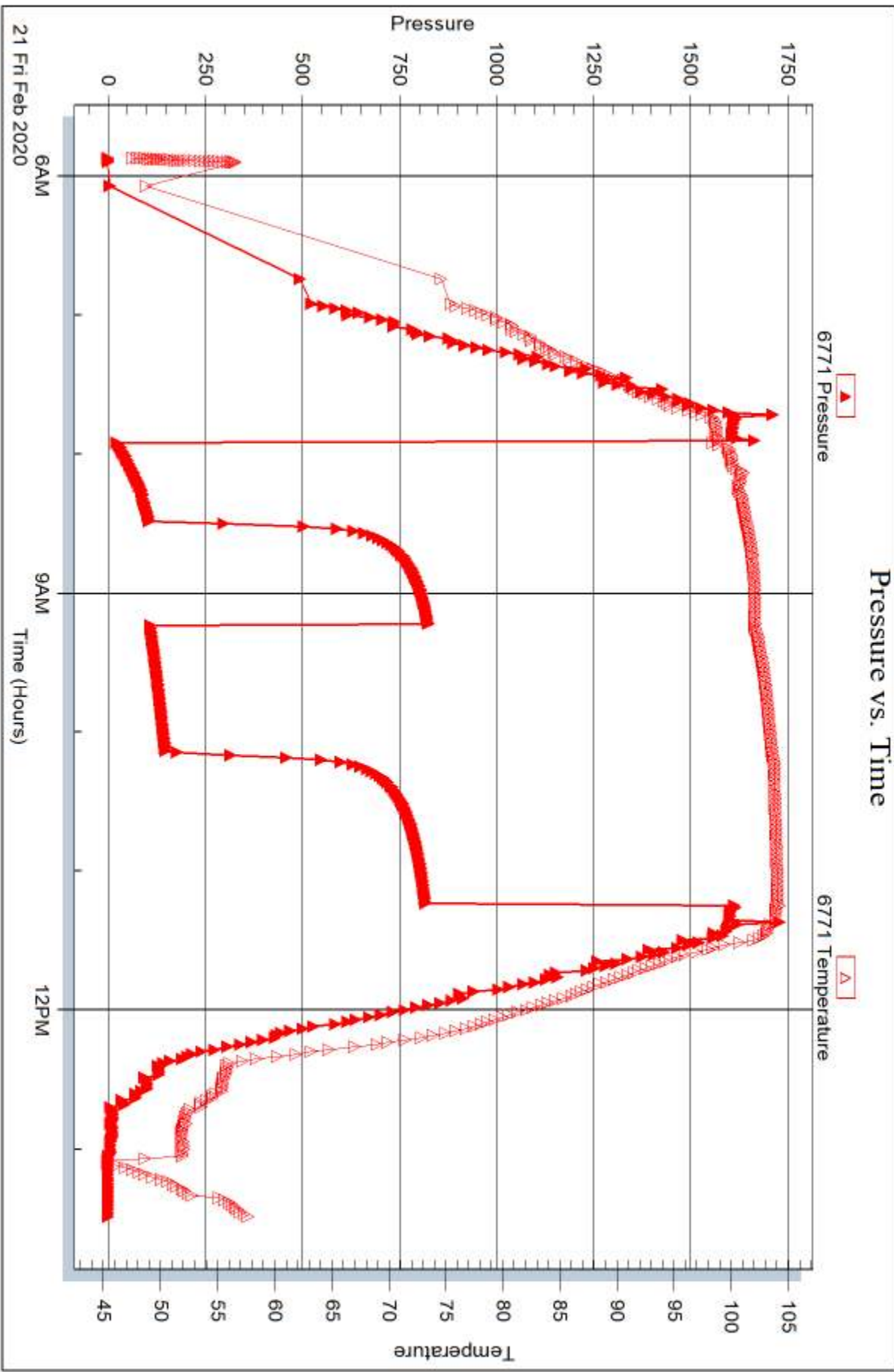
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Inside

Cobalt Energy, LLC

Elizabeth "A" #2-36

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 66214

Printed: 2020.02.25 @ 08:41:42



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Elizabeth "A" #2-36

36-8S-22W Graham,KS

Start Date: 2020.02.21 @ 21:41:31

End Date: 2020.02.22 @ 04:10:07

Job Ticket #: 66215 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.02.25 @ 08:41:12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

ATTN: Larry Nicholson

Job Ticket: 66215

DST#: 4

Test Start: 2020.02.21 @ 21:41:31

GENERAL INFORMATION:

Formation: **LKC "D-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:59:07

Time Test Ended: 04:10:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3433.00 ft (KB) To 3472.00 ft (KB) (TVD)

Reference Elevations: 2157.00 ft (KB)

Total Depth: 3472.00 ft (KB) (TVD)

2152.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press@RunDepth: 149.59 psig @ 3434.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.02.21

End Date:

2020.02.22

Last Calib.:

2020.02.22

Start Time: 21:41:32

End Time:

04:10:07

Time On Btm:

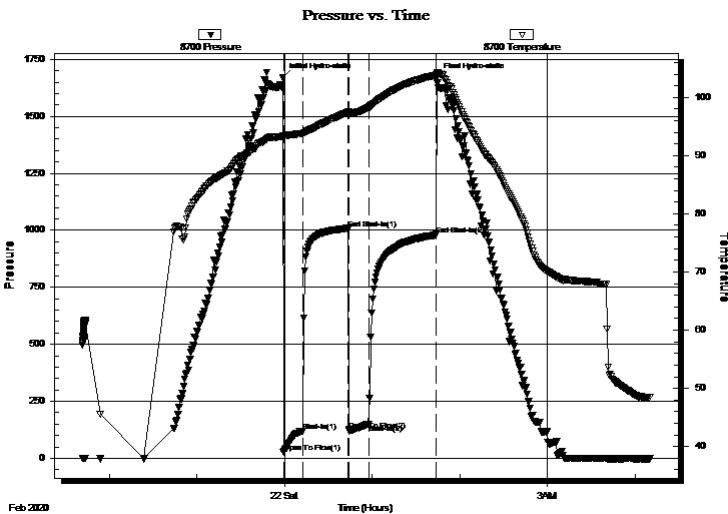
2020.02.21 @ 23:58:52

Time Off Btm:

2020.02.22 @ 01:44:22

TEST COMMENT: 15- IF- BOB 9 mins. Built to 13.22"
30- IS- Very weak surface blow
15- FF- BOB 9 mins. Built to 13.38"
45- FS- Surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.71	93.41	Initial Hydro-static
1	26.59	93.00	Open To Flow (1)
14	117.46	93.77	Shut-In(1)
45	1008.43	97.45	End Shut-In(1)
46	121.05	97.24	Open To Flow (2)
59	149.59	98.27	Shut-In(2)
105	979.51	103.81	End Shut-In(2)
106	1669.17	104.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	GWOCM, 15%G 15%W 15%O 55%M	1.81
65.00	OCM, 35%O 65%M	0.92
10.00	CO	0.14

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

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66215

DST#: 4

ATTN: Larry Nicholson

Test Start: 2020.02.21 @ 21:41:31

Tool Information

Drill Pipe:	Length: 3244.00 ft	Diameter: 3.82 inches	Volume: 45.99 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3433.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	65.00 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			3408.00	
Shut In Tool	5.00			3413.00	
Hydraulic tool	5.00			3418.00	
Gap Sub	3.00			3421.00	
Safety Joint	3.00			3424.00	
Packer	5.00			3429.00	26.00 Bottom Of Top Packer
Packer	4.00			3433.00	
Stubb	1.00			3434.00	
Recorder	0.00	6771	Inside	3434.00	
Recorder	0.00	8700	Outside	3434.00	
Perforations	1.00			3435.00	
Change Over Sub	1.00			3436.00	
Drill Pipe	30.00			3466.00	
Change Over Sub	1.00			3467.00	
Perforations	2.00			3469.00	
Bullnose	3.00			3472.00	39.00 Bottom Packers & Anchor
Total Tool Length:	65.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66215

DST#: 4

ATTN: Larry Nicholson

Test Start: 2020.02.21 @ 21:41:31

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
250.00	GWOCM, 15%G 15%W 15%O 55%M	1.813
65.00	OCM, 35%O 65%M	0.921
10.00	CO	0.142

Total Length: 325.00 ft Total Volume: 2.876 bbl

Num Fluid Samples: 0

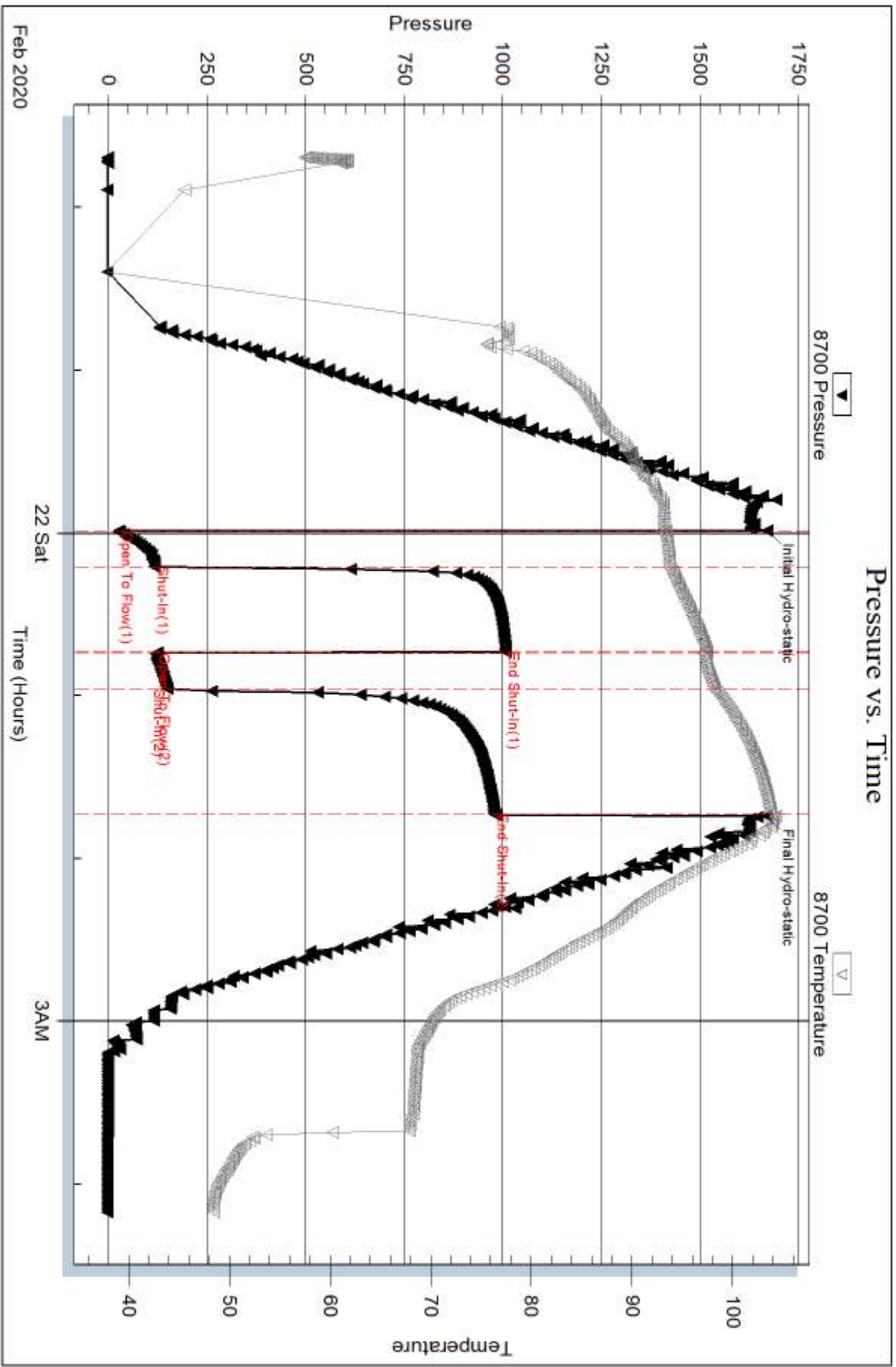
Num Gas Bombs: 0

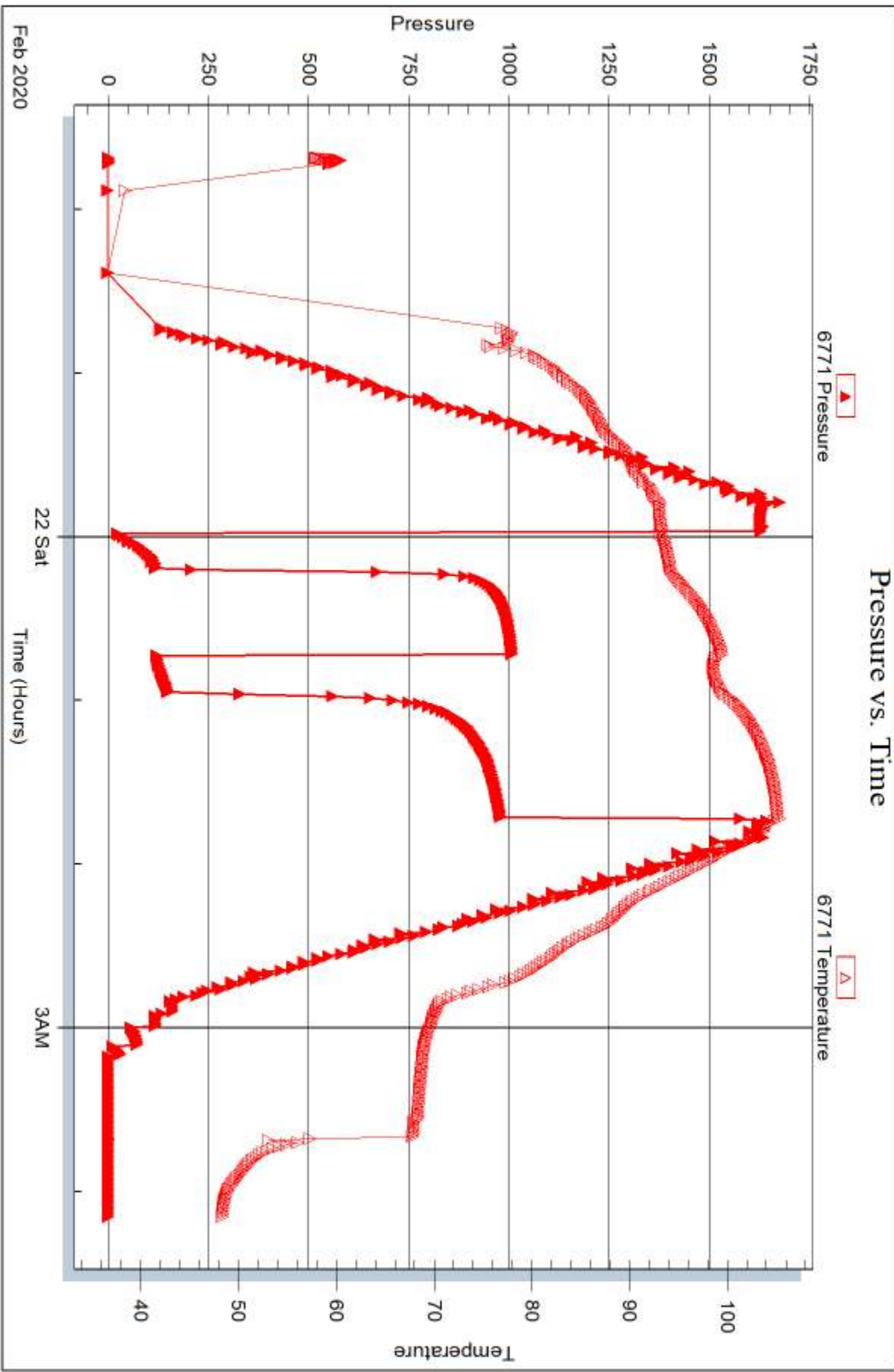
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .11@52deg







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Elizabeth "A" #2-36

36-8S-22W Graham,KS

Start Date: 2020.02.22 @ 15:08:15

End Date: 2020.02.22 @ 23:47:05

Job Ticket #: 66216 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.02.25 @ 08:40:48



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66216

DST#: 5

ATTN: Larry Nicholson

Test Start: 2020.02.22 @ 15:08:15

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:05:06

Time Test Ended: 23:47:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3497.00 ft (KB) To 3558.00 ft (KB) (TVD)

Reference Elevations: 2157.00 ft (KB)

Total Depth: 3558.00 ft (KB) (TVD)

2152.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press@RunDepth: 60.78 psig @ 3498.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.02.22 End Date: 2020.02.22

Last Calib.: 2020.02.22

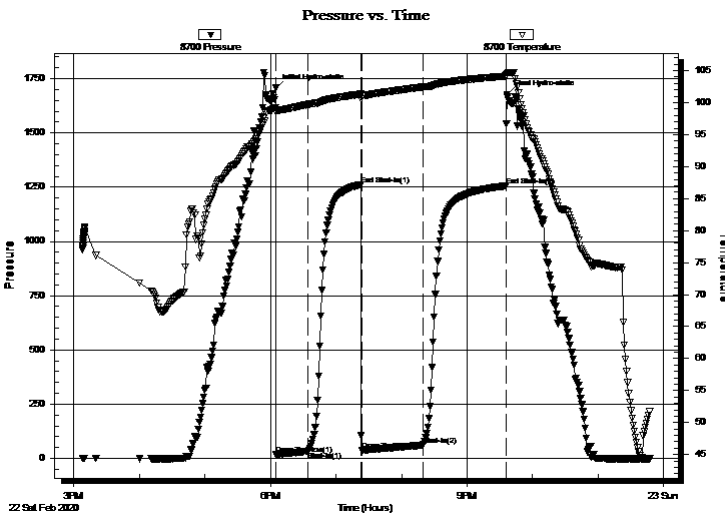
Start Time: 15:08:16 End Time: 23:47:05

Time On Btm: 2020.02.22 @ 18:04:51

Time Off Btm: 2020.02.22 @ 21:36:51

TEST COMMENT: 30- IF- Slow ly built to 4.99"
45- IS- No blow
60- FF- Slow ly built to 9.10"
75- FS- Surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.65	99.22	Initial Hydro-static
1	17.23	98.61	Open To Flow (1)
30	32.63	99.74	Shut-In(1)
78	1262.17	101.34	End Shut-In(1)
80	37.00	101.05	Open To Flow (2)
135	60.78	102.45	Shut-In(2)
211	1255.87	104.16	End Shut-In(2)
212	1675.76	104.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM, 20%O 80%M	0.30
65.00	CGO, 25%G 75%O	0.32

* 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

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66216

DST#: 5

ATTN: Larry Nicholson

Test Start: 2020.02.22 @ 15:08:15

Tool Information

Drill Pipe:	Length: 3307.00 ft	Diameter: 3.82 inches	Volume: 46.88 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3497.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	88.00 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			3472.00	
Shut In Tool	5.00			3477.00	
Hydraulic tool	5.00			3482.00	
Gap Sub	3.00			3485.00	
Safety Joint	3.00			3488.00	
Packer	5.00			3493.00	26.00 Bottom Of Top Packer
Packer	4.00			3497.00	
Stubb	1.00			3498.00	
Recorder	0.00	6771	Inside	3498.00	
Recorder	0.00	8700	Outside	3498.00	
Perforations	22.00			3520.00	
Change Over Sub	1.00			3521.00	
Drill Pipe	32.00			3553.00	
Change Over Sub	1.00			3554.00	
Perforations	2.00			3556.00	
Bullnose	3.00			3559.00	62.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66216

DST#: 5

ATTN: Larry Nicholson

Test Start: 2020.02.22 @ 15:08:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OCM, 20%O 80%M	0.295
65.00	CGO, 25%G 75%O	0.320

Total Length: 125.00 ft

Total Volume: 0.615 bbl

Num Fluid Samples: 0

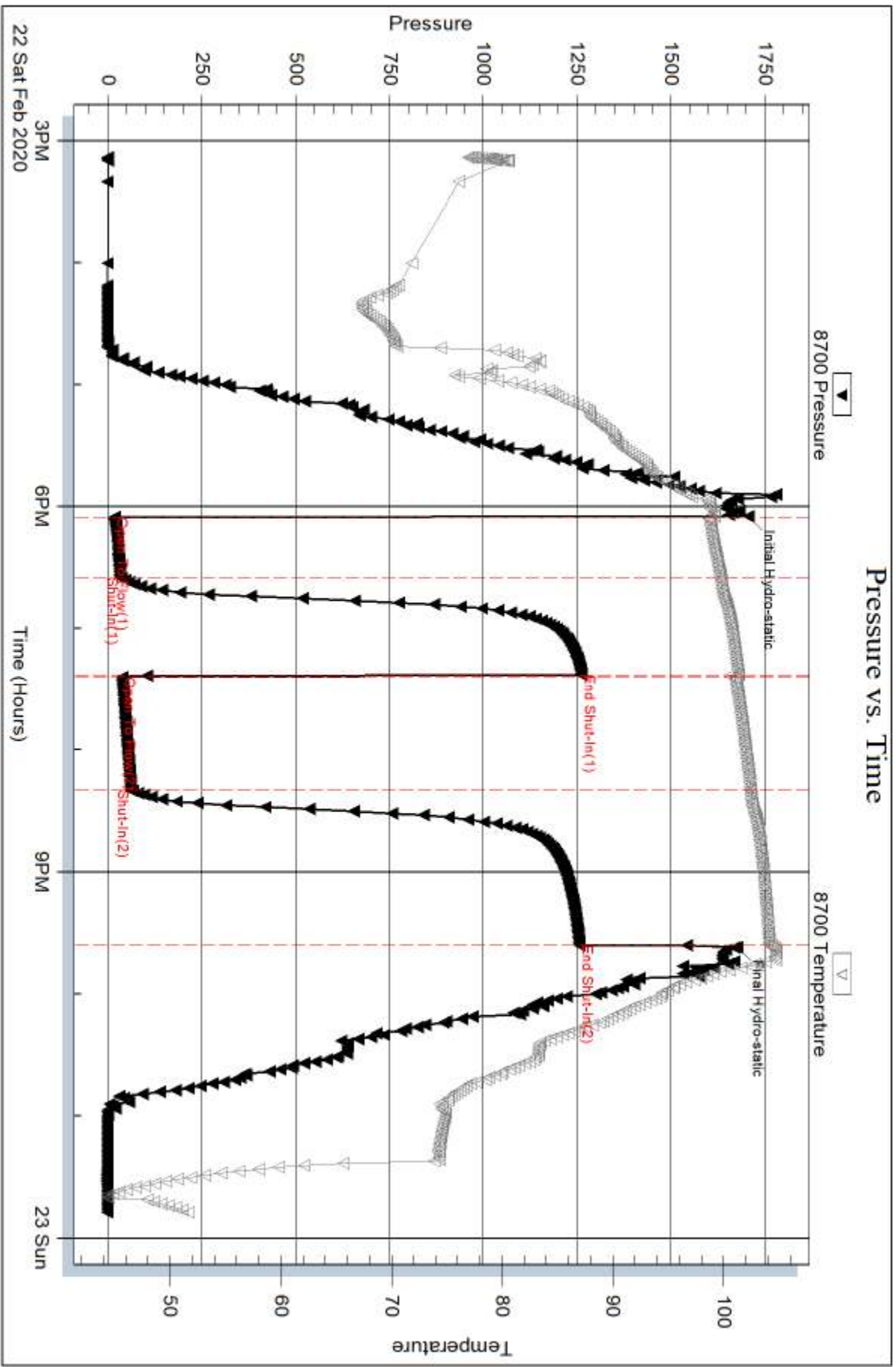
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



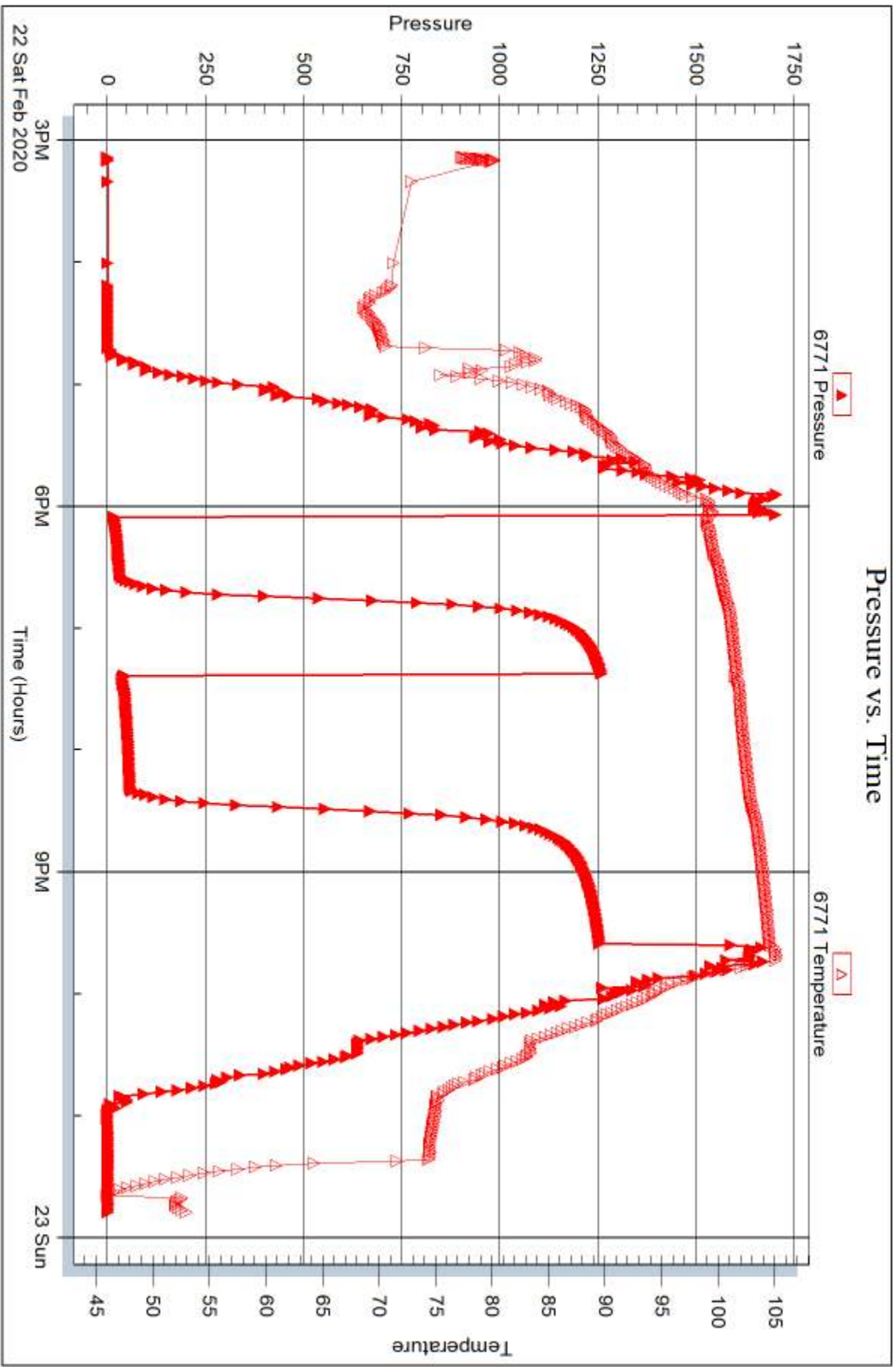
Serial #: 6771

Inside

Cobalt Energy, LLC

Elizabeth "A" #2-36

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Elizabeth "A" #2-36

36-8S-22W Graham,KS

Start Date: 2020.02.23 @ 07:16:20

End Date: 2020.02.23 @ 15:47:41

Job Ticket #: 66217 DST #: 6

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.02.25 @ 08:40:24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66217

DST#: 6

ATTN: Larry Nicholson

Test Start: 2020.02.23 @ 07:16:20

GENERAL INFORMATION:

Formation: **LKC "K - L"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 10:28:11
 Tester: Brannan Lonsdale
 Time Test Ended: 15:47:41
 Unit No: 73
 Interval: **3556.00 ft (KB) To 3586.00 ft (KB) (TVD)**
 Reference Elevations: 2157.00 ft (KB)
 Total Depth: 3686.00 ft (KB) (TVD)
 2152.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

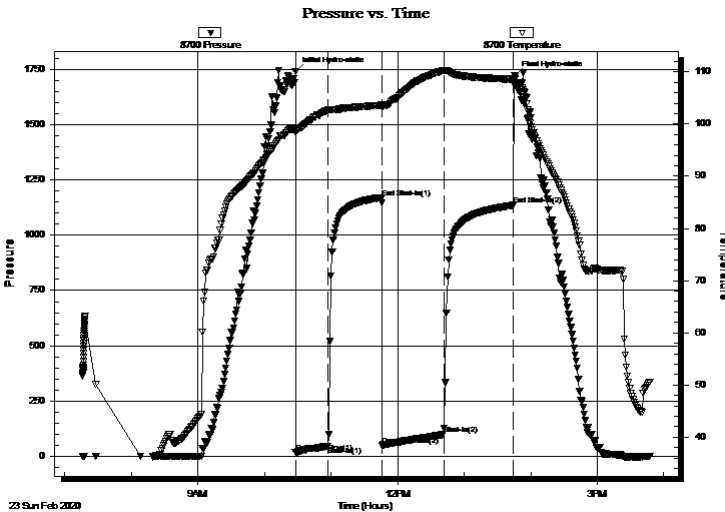
Serial #: 8700

Outside

Press@RunDepth: 97.79 psig @ 3557.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.02.23 End Date: 2020.02.23 Last Calib.: 2020.02.23
 Start Time: 07:16:21 End Time: 15:47:41 Time On Btm: 2020.02.23 @ 10:27:56
 Time Off Btm: 2020.02.23 @ 13:45:41

TEST COMMENT: 30- IF- Slow ly built to 2.94"
 45- IS- No blow
 60- FF- Slow ly built to 4.75"
 60- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.57	99.13	Initial Hydro-static
1	16.91	98.39	Open To Flow (1)
30	45.72	102.70	Shut-In(1)
78	1171.00	103.63	End Shut-In(1)
79	50.19	103.25	Open To Flow (2)
134	97.79	110.28	Shut-In(2)
197	1135.65	108.60	End Shut-In(2)
198	1720.65	108.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	OSMW, 45%M 55%W	0.76

* 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

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66217

DST#: 6

ATTN: Larry Nicholson

Test Start: 2020.02.23 @ 07:16:20

Tool Information

Drill Pipe:	Length: 3371.00 ft	Diameter: 3.82 inches	Volume: 47.79 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3556.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3531.00	
Shut In Tool	5.00			3536.00	
Hydraulic tool	5.00			3541.00	
Gap Sub	3.00			3544.00	
Safety Joint	3.00			3547.00	
Packer	5.00			3552.00	26.00 Bottom Of Top Packer
Packer	4.00			3556.00	
Stubb	1.00			3557.00	
Recorder	0.00	6771	Inside	3557.00	
Recorder	0.00	8700	Outside	3557.00	
Perforations	26.00			3583.00	
Bullnose	3.00			3586.00	30.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66217

DST#: 6

ATTN: Larry Nicholson

Test Start: 2020.02.23 @ 07:16:20

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:

33000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
155.00	OSMW, 45%M 55%W	0.762

Total Length: 155.00 ft Total Volume: 0.762 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

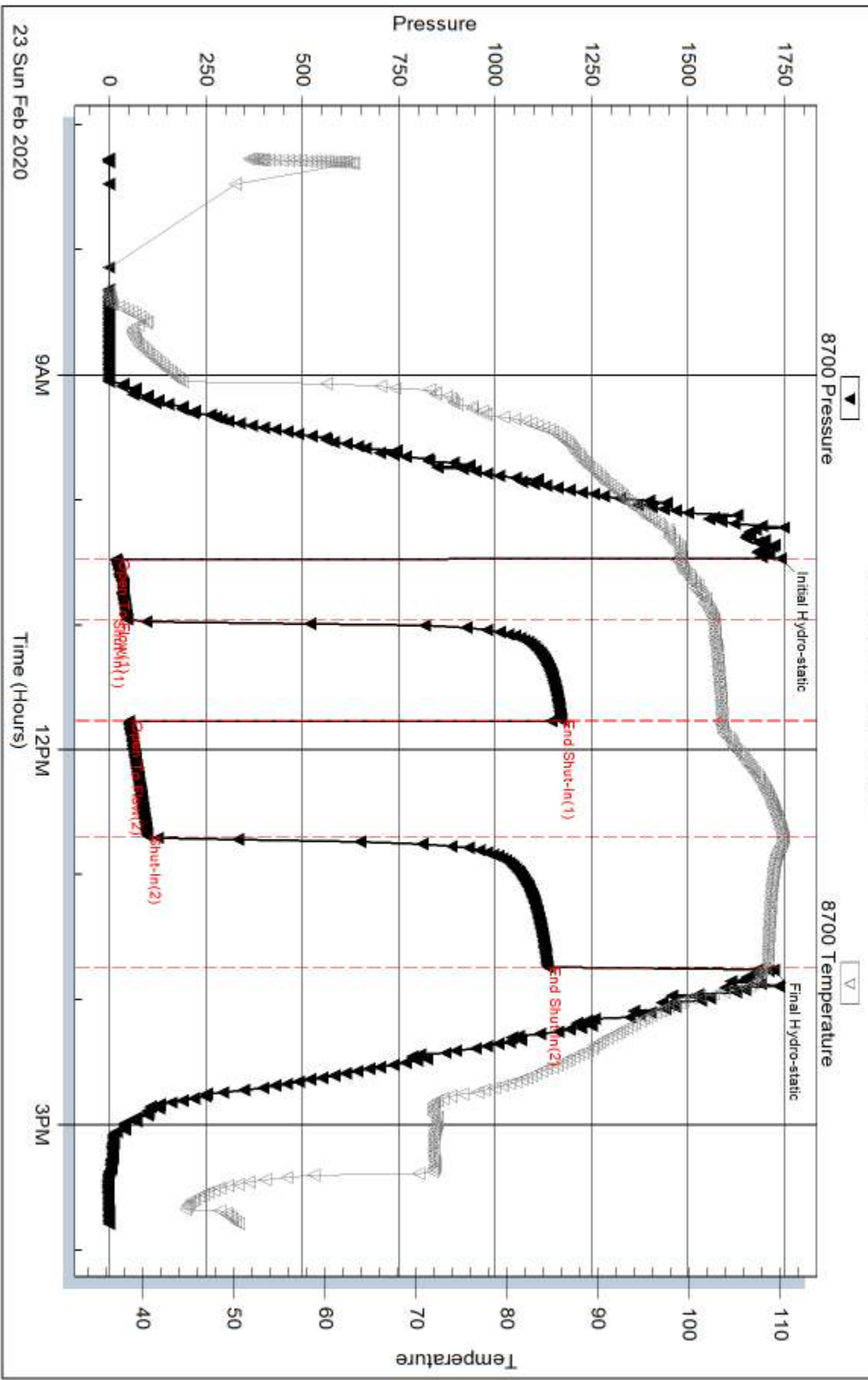
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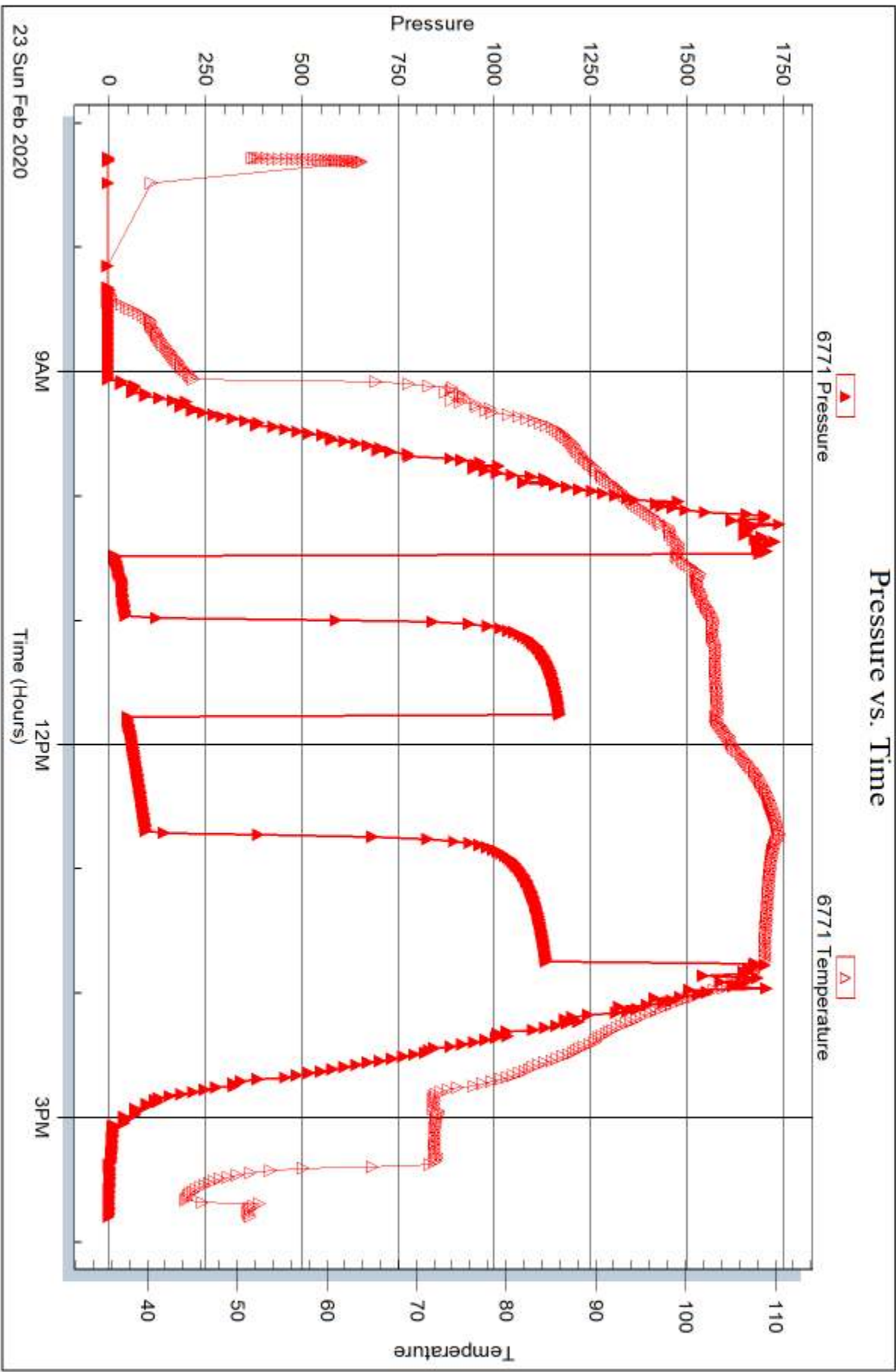
Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .24@56deg

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC**

PO Box 8037
Wichita, KS 67208

ATTN: Larry Nicholson

Elizabeth "A" #2-36

36-8S-22W Graham,KS

Start Date: 2020.02.24 @ 06:57:22

End Date: 2020.02.24 @ 15:24:28

Job Ticket #: 66218 DST #: 7

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.02.25 @ 08:39:56

Cobalt Energy, LLC
36-8S-22W Graham,KS
Elizabeth "A" #2-36
DST # 7
Arbuckle
2020.02.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66218

DST#: 7

ATTN: Larry Nicholson

Test Start: 2020.02.24 @ 06:57:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:44:28

Time Test Ended: 15:24:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3690.00 ft (KB) To 3733.00 ft (KB) (TVD)

Reference Elevations: 2157.00 ft (KB)

Total Depth: 3733.00 ft (KB) (TVD)

2152.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press@RunDepth: 185.80 psig @ 3691.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.02.24

End Date:

2020.02.24

Last Calib.:

2020.02.24

Start Time: 06:57:23

End Time:

15:24:28

Time On Btm:

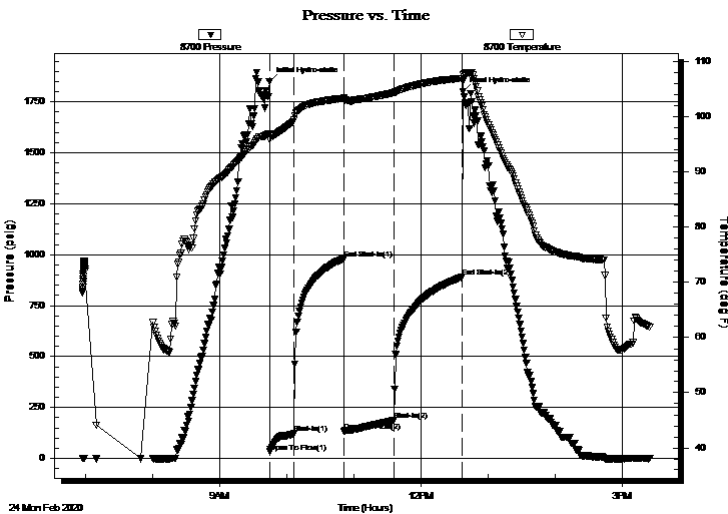
2020.02.24 @ 09:44:13

Time Off Btm:

2020.02.24 @ 12:37:28

TEST COMMENT: 20- IF- BOB 11 mins. Built to 18.25"
45- IS- Slow ly built to 0.36"
45- FF- BOB 16 mins. Built to 21.61"
60- FS- Slow ly built to 0.66"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1848.43	96.97	Initial Hydro-static
1	31.86	95.90	Open To Flow (1)
22	120.54	99.45	Shut-In(1)
67	980.55	103.41	End Shut-In(1)
67	133.88	103.16	Open To Flow (2)
112	185.80	104.40	Shut-In(2)
172	889.17	107.03	End Shut-In(2)
174	1801.08	107.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
375.00	GSMCO, 10%G 5%M 85%O	3.58
125.00	CGO, 30%G 70%O	1.77

* 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

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66218

DST#: 7

ATTN: Larry Nicholson

Test Start: 2020.02.24 @ 06:57:22

Tool Information

Drill Pipe:	Length: 3496.00 ft	Diameter: 3.82 inches	Volume: 49.56 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3690.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	69.00 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			3665.00	
Shut In Tool	5.00			3670.00	
Hydraulic tool	5.00			3675.00	
Gap Sub	3.00			3678.00	
Safety Joint	3.00			3681.00	
Packer	5.00			3686.00	26.00 Bottom Of Top Packer
Packer	4.00			3690.00	
Stubb	1.00			3691.00	
Recorder	0.00	6771	Inside	3691.00	
Recorder	0.00	8700	Outside	3691.00	
Perforations	5.00			3696.00	
Change Over Sub	1.00			3697.00	
Drill Pipe	31.00			3728.00	
Change Over Sub	1.00			3729.00	
Perforations	1.00			3730.00	
Bullnose	3.00			3733.00	43.00 Bottom Packers & Anchor
Total Tool Length:	69.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy, LLC

36-8S-22W Graham,KS

PO Box 8037
Wichita, KS 67208

Elizabeth "A" #2-36

Job Ticket: 66218

DST#: 7

ATTN: Larry Nicholson

Test Start: 2020.02.24 @ 06:57:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
375.00	GSMCO, 10%G 5%M 85%O	3.585
125.00	CGO, 30%G 70%O	1.772

Total Length: 500.00 ft

Total Volume: 5.357 bbl

Num Fluid Samples: 0

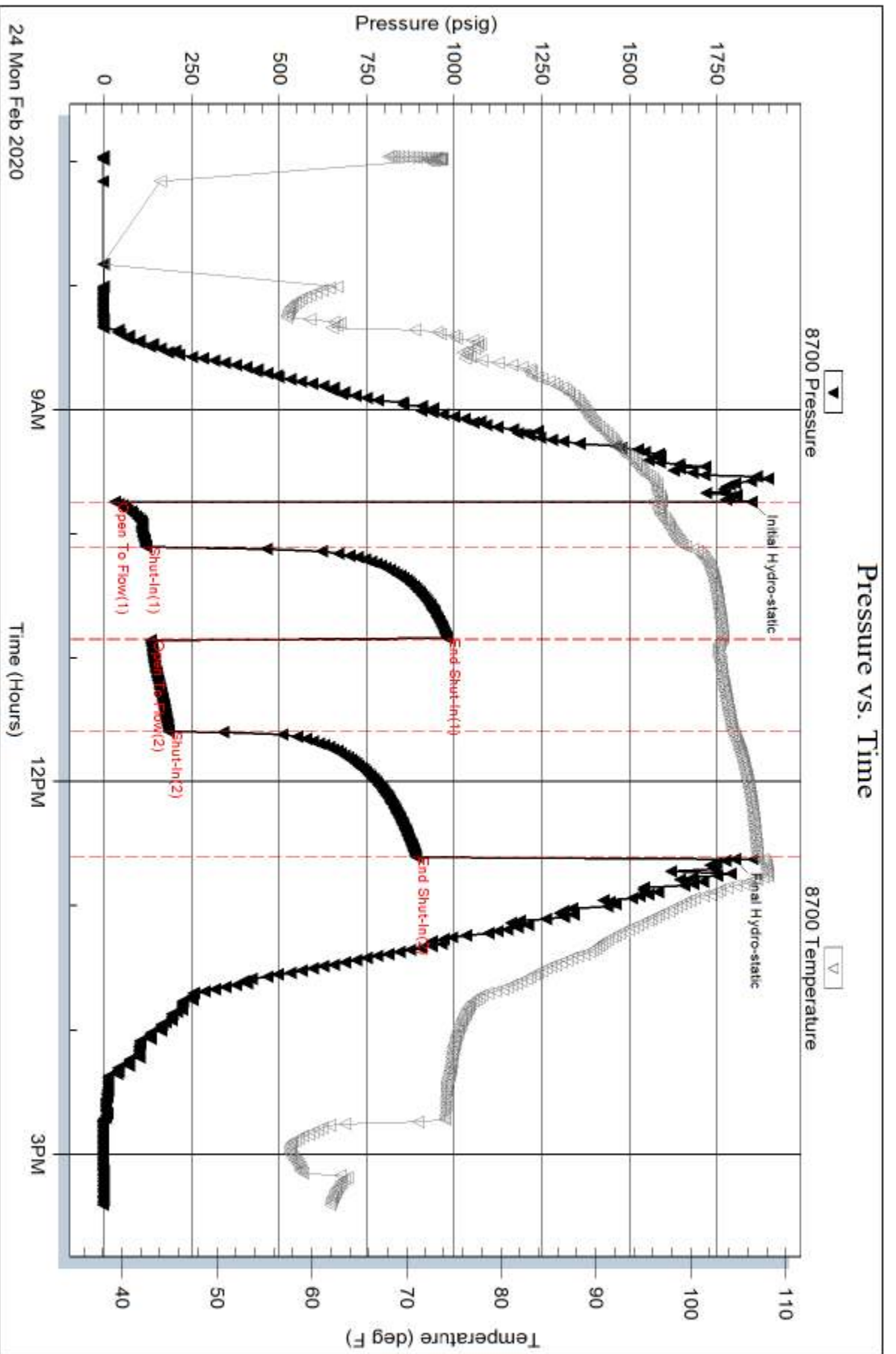
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



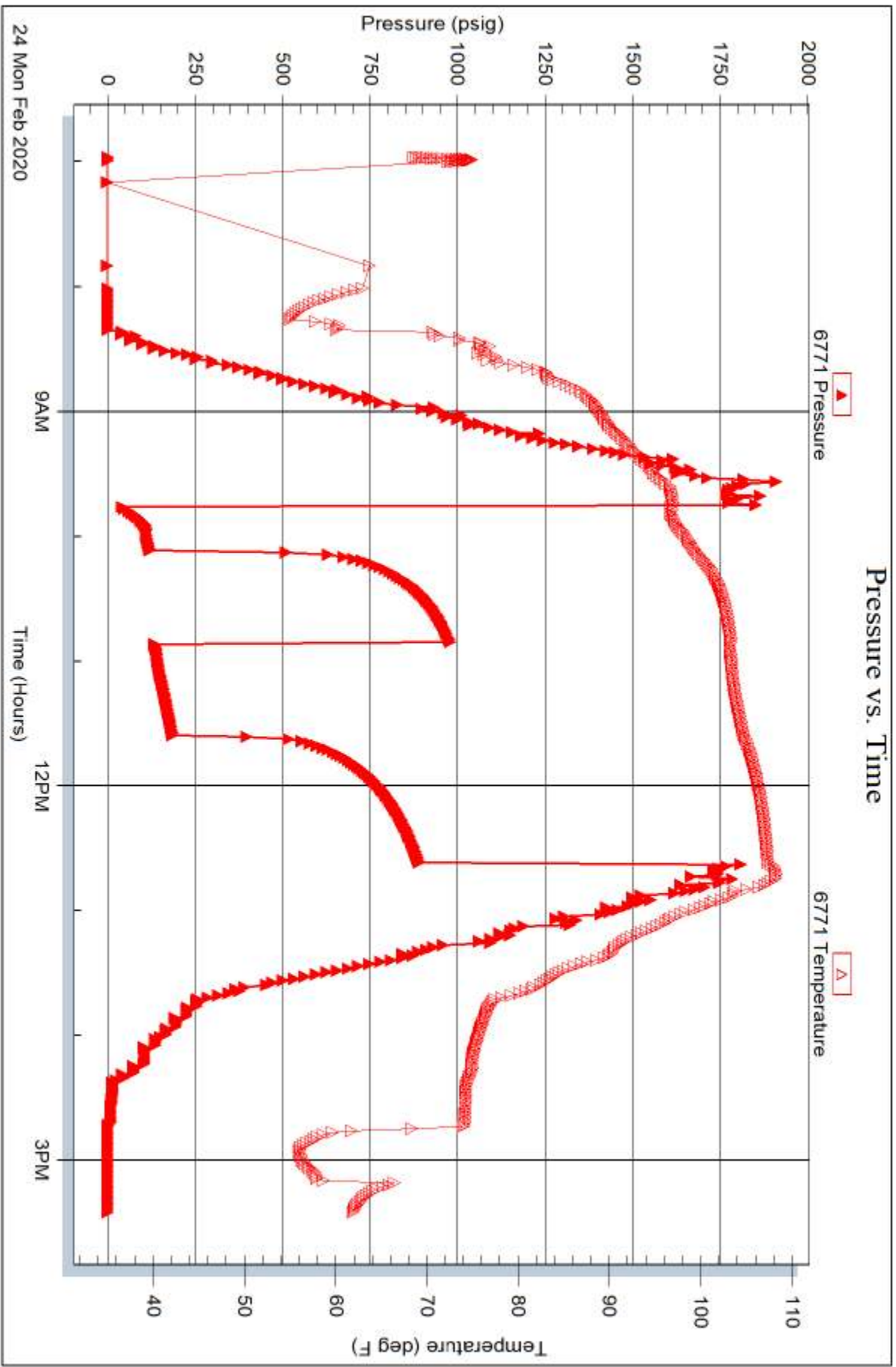
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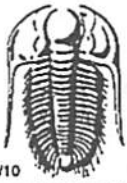
Inside

Cobalt Energy, LLC

Elizabeth "A" #2-36

DST Test Number: 7





TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66212

NO.

Well Name & No. Elizabeth "A" #2-36 Test No. 1 Date 2/20/2020
 Company Cobalt Energy LLC Elevation 2157 KB 2152 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murphy 8
 Location: Sec. 36 Twp 8 S Rge. 22 W Co. Graham State KS

Interval Tested 3377-3432 Zone Tested LKC "A-C"
 Anchor Length 55' Drill Pipe Run 3181 Mud Wt. 8.9
 Top Packer Depth 3377 Drill Collars Run 187 Vis 54
 Bottom Packer Depth 3377 Wt. Pipe Run WL 6.0
 Total Depth 3432 Chlorides 2600 ppm System LCM 2#
 Blow Description IF- 1/2" blow. Flushed tool twice. Pulled tool

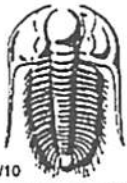
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic	<input checked="" type="checkbox"/> Test	<u>1200</u>	T-On Location	<u>1233</u>
(B) First Initial Flow	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1306</u>
(C) First Final Flow	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>1543</u>
(D) Initial Shut-In	<input type="checkbox"/> Circ Sub		T-Pulled	<u>1630</u>
(E) Second Initial Flow	<input type="checkbox"/> Hourly Standby		T-Out	<u>1826</u>
(F) Second Final Flow	<input checked="" type="checkbox"/> Mileage	<u>112 RT</u> 112	Comments	<u>Plugged tool</u>
(G) Final Shut-In	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<input type="checkbox"/> Straddle		<input checked="" type="checkbox"/> EM Tool	<u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Shale Packer	
Initial Shut-In	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Ruined Packer	
Final Flow	<input type="checkbox"/> Extra Recorder		<input type="checkbox"/> Extra Copies	
Final Shut-In	<input type="checkbox"/> Day Standby		Sub Total	<u>350</u>
	<input type="checkbox"/> Accessibility		Total	<u>1987 NC</u>
	Sub Total	<u>1637 NC</u>	MP/DST Disc't	

Approved By _____ Our Representative Bryan Lewis Dale

Tribolite 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 66213

NO.

Well Name & No. Elizabeth "A" #2-36 Test No. 2 Date 2/20/20
 Company Cobalt Energy, LLC Elevation 2157 KB 2152 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin 8
 Location: Sec. 36 Twp 8 S Rge. 22 W Co. Graham State KS

Interval Tested 3377-3429 Zone Tested LRC "A-C"
 Anchor Length 55' Drill Pipe Run 3181 Mud Wt. 8.9
 Top Packer Depth 3372 Drill Collars Run 187 Vis 54
 Bottom Packer Depth 3377 Wt. Pipe Run WL 6.0
 Total Depth 3432 Chlorides 2,600 ppm System LCM 2#
 Blow Description Plugged tool

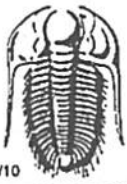
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic _____	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>2250</u>
(B) First Initial Flow _____	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2309</u>
(C) First Final Flow _____	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2/21</u> <u>0153</u>
(D) Initial Shut-In _____	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0333</u>
(E) Second Initial Flow _____	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0538</u>
(F) Second Final Flow _____	<input checked="" type="checkbox"/> Mileage <u>112 RT</u> <u>112</u>	Comments _____
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic _____	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open _____	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In _____	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow _____	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In _____	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1987</u> NC
	Sub Total <u>1637</u> NC	MP/DST Disc't _____

Approved By _____ Our Representative Brennan Lonsdale

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 66214

NO.

Well Name & No. Elizabeth "A" #2-36 Test No. 3 Date 2/21/20
 Company Cobalt Energy, LLC Elevation 2157 KB 2152 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murphy 8
 Location: Sec. 36 Twp 8 S Rge. 22 W Co. Graham State KS

Interval Tested 3376-3432 Zone Tested LKC "A-C"
 Anchor Length 56' Drill Pipe Run 3181 Mud Wt. 8.9
 Top Packer Depth 3371 Drill Collars Run 187 Vis 54
 Bottom Packer Depth 3376 Wt. Pipe Run _____ WL 6.0
 Total Depth 3432 Chlorides 2,600 ppm System LCM 2 #

Blow Description IF - Slowly built to 6.35"
ISF - No blow
FF - BOB 45 mins. Built to 12.16"
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>185</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>80</u>	<u>SOCMA</u>		<u>5</u>	<u>95</u>	
<u>15</u>	<u>CO</u>				
_____	_____				
_____	_____				

Rec Total 280' BHT 104° Gravity 34 API RW .37 @ 54° F Chlorides 23,000 ppm

(A) Initial Hydrostatic <u>1649</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>0538</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0552</u>
(C) First Final Flow <u>107</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0753</u>
(D) Initial Shut-In <u>824</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0110</u>
(E) Second Initial Flow <u>110</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1330</u>
(F) Second Final Flow <u>148</u>	<input type="checkbox"/> Mileage _____	Comments _____
(G) Final Shut-In <u>816</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1643</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1875</u>
	Sub Total <u>1525</u>	MP/DST Disc't _____

Approved By _____ Our Representative Brennan Lonsdale

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 66215

NO.

Well Name & No. Elizabeth "A" #2-36 Test No. 4 Date 2/21/20
 Company Cobalt Energy, LLC Elevation 2157 KB 2152 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Munfin 8
 Location: Sec. 36 Twp F S 5 Rge. 23 W Co. Crawham State KS

Interval Tested 3433-3472 Zone Tested LKC "D-F"
 Anchor Length 39' Drill Pipe Run 3244 Mud Wt. 8.9
 Top Packer Depth 3428 Drill Collars Run 187 Vis 51
 Bottom Packer Depth 3433 Wt. Pipe Run --- WL 6.0
 Total Depth 3472 Chlorides 2,700 ppm System LCM 2nd

Blow Description IF-BOB 9 mins Built to 13.22"
IST- Very weak surface blow
FF- BOB 9 mins Built to 13.38"
FSI- Surface blow

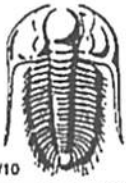
Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>AWOGM</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>55</u>
<u>65</u>	<u>OCM</u>	<u>---</u>	<u>35</u>	<u>---</u>	<u>65</u>
<u>10</u>	<u>CO</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

Rec Total 325' BHT 104° Gravity 32 API RW .11 @ 52° F Chlorides 32,000 ppm

(A) Initial Hydrostatic <u>1671</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>2115</u>
(B) First Initial Flow <u>27</u>	<input type="checkbox"/> Jars <u>---</u>	T-Started <u>2141</u>
(C) First Final Flow <u>117</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1158</u>
(D) Initial Shut-In <u>1008</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>2/22</u> <u>0143</u>
(E) Second Initial Flow <u>121</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>0411</u>
(F) Second Final Flow <u>150</u>	<input checked="" type="checkbox"/> Mileage <u>112 RT</u> <u>112</u>	Comments <u>---</u>
(G) Final Shut-In <u>980</u>	<input type="checkbox"/> Sampler <u>---</u>	<u>---</u>
(H) Final Hydrostatic <u>1669</u>	<input type="checkbox"/> Straddle <u>---</u>	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby <u>---</u>	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility <u>---</u>	Total <u>1737</u>
	Sub Total <u>1387</u>	MP/DST Disc't <u>---</u>

Approved By _____ Our Representative Brannan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66216

NO.

Well Name & No. Elizabeth "A" #2-36 Test No. 5 Date 2/22/2020
 Company Cobalt Energy, LLC Elevation 2157 KB 2152 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin 8
 Location: Sec. 36 Twp 8 S Rge. 22 W Co. Graham State KS

Interval Tested 3497-3558 Zone Tested LKC "H-J"
 Anchor Length 62' Drill Pipe Run 3307 Mud Wt. 9.2
 Top Packer Depth 3492 Drill Collars Run 187 Vis 60+
 Bottom Packer Depth 3497 Wt. Pipe Run WL 6.0
 Total Depth 3550 Chlorides 2,900 ppm System LCM 2#
 Blow Description IF Slowly built to 4.99"
ISI - No blow
FF - Slowly built to 9.10"
FST - Surface blow

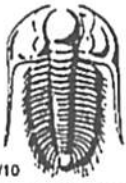
Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OCM</u>	<u>20</u>	<u>70</u>	<u>70</u>	<u>70</u>
<u>65</u>	<u>CGO</u>	<u>25</u>	<u>75</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 125' BHT 104° Gravity 34 API RW @ F Chlorides ppm

(A) Initial Hydrostatic <u>1706</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>1450</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars <u> </u>	T-Started <u>1508</u>
(C) First Final Flow <u>33</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1805</u>
(D) Initial Shut-In <u>1262</u>	<input type="checkbox"/> Circ Sub <u> </u>	T-Pulled <u>2135</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>2348</u>
(F) Second Final Flow <u>61</u>	<input checked="" type="checkbox"/> Mileage <u>112 RT</u> <u>112</u>	Comments <u> </u>
(G) Final Shut-In <u>1256</u>	<input type="checkbox"/> Sampler <u> </u>	
(H) Final Hydrostatic <u>1676</u>	<input type="checkbox"/> Straddle <u> </u>	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u> </u>	<input type="checkbox"/> Ruined Packer <u> </u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder <u> </u>	<input type="checkbox"/> Extra Copies <u> </u>
Final Shut-In <u>75</u>	<input type="checkbox"/> Day Standby <u> </u>	Sub Total <u> </u>
	<input type="checkbox"/> Accessibility <u> </u>	Total <u>1737</u>
	Sub Total <u>1387</u>	MP/DST Disc't <u> </u>

Approved By Our Representative Brannan Lonsdale

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 66217

NO.

Well Name & No. Elizabeth "A" #2-36 Test No. 6 Date 2/23/2020
 Company Cobalt Energy, LLC Elevation 2157 KB 2152 GL
 Address 115 S. Belmont #12, PO Box 8037 Wichita KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin 8
 Location: Sec. 36 Twp 8 S Rge. 22 W Co. Graham State KS

Interval Tested 3556-3586 Zone Tested LKC "KHL"
 Anchor Length 30' Drill Pipe Run 3371 Mud Wt. 9.1
 Top Packer Depth 3551 Drill Collars Run 187 Vis 52
 Bottom Packer Depth 3556 Wt. Pipe Run _____ WL 6.0
 Total Depth 3586 Chlorides 3,100 ppm System LCM 2nd

Blow Description IF - slowly built to 2.94"
ISF - No blow
PF - slowly built to 4.75"
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>155</u>	<u>OSMW</u>			<u>55%</u>	<u>45%</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

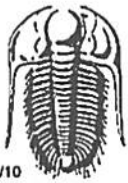
Rec Total 155 BHT 109° Gravity _____ API RW 24 @ 56° F Chlorides 33,000 ppm

(A) Initial Hydrostatic 1740 Test 1200 T-On Location 0700
 (B) First Initial Flow 17 Jars _____ T-Started 0716
 (C) First Final Flow 46 Safety Joint 75 T-Open 1027
 (D) Initial Shut-In 1171 Circ Sub _____ T-Pulled 1342
 (E) Second Initial Flow 50 Hourly Standby _____ T-Out 1548
 (F) Second Final Flow 98 Mileage 112 RT 112 Comments _____
 (G) Final Shut-In 1136 Sampler _____
 (H) Final Hydrostatic 1721 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 60
 Sub Total 1387 MP/DST Disc't _____

Approved By _____ Our Representative Brannan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66218

NO.

Well Name & No. Elizabeth "A" #2-36 Test No. 7 Date 2/24/20
 Company Cobalt Energy, LLC Elevation 2157 KB 2152 GL
 Address 115 S. Belmont #12, PO Box 5037 Wichita, KS 67208
 Co. Rep / Geo. Larry Nicholson Rig Murfin 8
 Location: Sec. 36 Twp 8 S Rge. 22 W Co. Graham State KS

Interval Tested 3690-3733 Zone Tested Arbuckle
 Anchor Length 43' Drill Pipe Run 3496 Mud Wt. 9.1
 Top Packer Depth 3685 Drill Collars Run 187 Vls 52
 Bottom Packer Depth 3690 Wt. Pipe Run WL 6.0
 Total Depth 3733 Chlorides 3100 ppm System LCM 2#

Blow Description IF-BOB 11 mins. Built to 18.25"
ISI - Slowly built to 0.36"
FF-BOB 16 mins. Built to 21.61"
FST - Slowly built to 0.66"

Rec	Feet of	%gas	%oil	%water	%mud
<u>375</u>	<u>GSMCO</u>	<u>10</u>	<u>85</u>	<u>5</u>	<u> </u>
<u>125</u>	<u>CGO</u>	<u>30</u>	<u>70</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 500' BHT 107° Gravity 25 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>1848</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>0630</u>
(B) First Initial Flow <u>32</u>	<input type="checkbox"/> Jars <u> </u>	T-Started <u>0657</u>
(C) First Final Flow <u>121</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0944</u>
(D) Initial Shut-In <u>981</u>	<input type="checkbox"/> Circ Sub <u> </u>	T-Pulled <u>1234</u>
(E) Second Initial Flow <u>134</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>1524</u>
(F) Second Final Flow <u>186</u>	<input checked="" type="checkbox"/> Mileage <u>112 RT</u> <u>112</u>	Comments <u> </u>
(G) Final Shut-In <u>889</u>	<input type="checkbox"/> Sampler <u> </u>	<u> </u>
(H) Final Hydrostatic <u>1801</u>	<input type="checkbox"/> Straddle <u> </u>	<u> </u>

Initial Open <u>20</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder <u> </u>	<input type="checkbox"/> Ruined Packer <u> </u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u> </u>	<input type="checkbox"/> Extra Copies <u> </u>
	<input type="checkbox"/> Accessibility <u> </u>	Sub Total <u>350</u>
	Sub Total <u>1637</u>	Total <u>1987</u>
		MP/DST Disc't <u> </u>

Approved By Our Representative Brannan Lonsdale

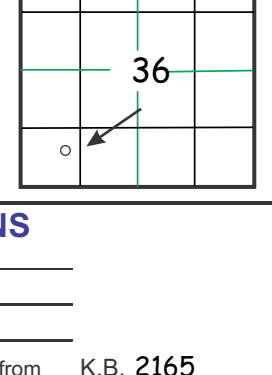
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GEOLOGICAL REPORT

Larry A. Nicholson

NAD 83
39.309438172
-99.731489318

COMPANY **Cobalt Energy LLC**
API # **15-065-24182** FIELD **NA**
LEASE **Elizabeth "A"** WELL # **#2-36**
LOCATION **SE NE SW SW**
SURVEY **904' FSL 1028' FWL**
SECTION **36** TWP **8S** RGE **22W**
COUNTY **Graham** STATE **Kansas**



CONTRACTOR **Murfin Drilling TP Galis** Rig # **8**
SPUD **02-17-20 10:45 am** COMD **02-24-20**
RTD **3800** LTD **3801**
MUD UP AT **2991-3024**
MUD TYPE **Chemical MudCo Gary Schmidtberger**

ELEVATIONS
K.B. **2165**
D.F.
G.L. **2160**

CASING RECORD
Conductor **220** of **8.5/8** in **150** sxs
Surface **220** of **8.5/8** in **150** sxs
Production **220** of **8.5/8** in **150** sxs

SAMPLES SAVED FROM **3100** TO **RTD**
DRILLING TIME FROM **1100** TO **RTD**
SAMPLES EXAMINED FROM **3100** TO **RTD**
GEOLOGICAL SUPERVISION FROM **3100** TO **RTD**
WELLSITE GEOLOGIST **LARRY A. NICHOLSON**

ELECTRICAL SURVEYS **Pioneer: Neu, Den, Micro, Dual**

FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG TOPS	SUBSEA DATUM	REFERENCE WELL
Anhydrite			1674	+491	1674 +511 -20
B/Anhydrite			1708	+457	1708 +477 -20
Topeka			3131	-966	3134 -949 -17
Heebner Sh			3346	-1181	3350 -1165 -16
Toronto			3370	-1205	3376 -1191 -14
Lansing			3386	-1221	3394 -1209 -12
Muncie Creek			3502	-1337	3508 -1323 -14
Stark Sh			3562	-1397	3568 -1383 -14
BK			3596	-1431	3596 -1411 -20
Marm			3628	-1463	3628 -1443 -20
Arb			3720	-1555	3746 -1561 +6
RTD			3800	-1635	3825 -1640 +5
LTD			3801	-1636	3823 -1638 +2

A: **Cobalt Energy Elizabeth "A" #1-36 Sec 36 T8S R22W 590' FSL 440' FEL KB 2185**
B:

LAN 7/92, Modified 5/05, 11/11, 4/12, 4/18 1inch = 25.4mm 8.5 x 97.5

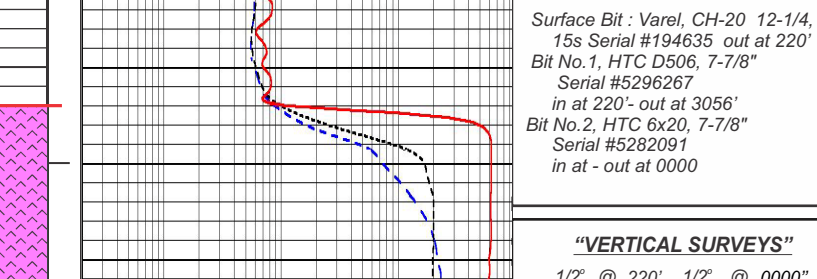
DRILLSTEM TEST SUMMARY :

Dst #1 3377-3432 (LKC A-C)
Suggested Plugged Tool
Dst #2 3337-3432 (LKC A-C)
Mechanical Failure
Dst #3 3376-3432 (LKC A-C) 30 45 60 60 IF:21-107 FF:110-148 SI:824-816
Total Rec: 250' Fluid, 15' CO 80' SOCCM (50 95M) 185' MW (90W 10M)
IF: built to 6.35" nr FF: BOB 45' built to 12.1" nr 34 GR RW: 7' @54' CL 23.000ppm
Dst #4 3463-3458 (LKC D-F) 30 45 15 45 IF:27-117 FF:121-150 SI:1008-960
Total Rec: 325' Fluid, 10' CO 65' OCM (350 65M) 250' GOCMW (15G 150 15W 55M)
IF: BOB 9' built to 13" nr FF: BOB 9' built to 13" surf blow, 32 GR, RW: 11632' CL 32.000ppm
Dst #5 3497-3558 (LKC H-J) 30 40 60 75 IF:17-333 FF:37-61 SI:1262-1256
Total Rec: 125' Fluid, 65' CGO (25G 75C) 80' OCM (200 80M)
IF: s/o built to 4.9" nr FF: s/o built to 9.1" nr 34 GR

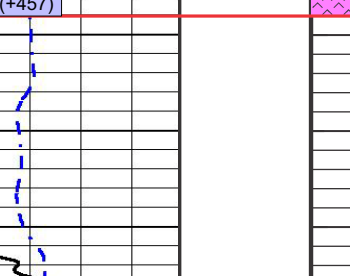
REMARKS & RECOMMENDATIONS:

Csg was set based on the positive DST and shows in the LKC and Arb

LEGEND



GAMMA RAY / SP



DEPTH

DEPTH (ft) 1650, 1700, 1750, 3100, 3150, 3200, 3250, 3300, 3350, 3400, 3450, 3500, 3550, 3600, 3650, 3700, 3750, 3800

LITHOLOGY

SAMPLE DESCRIPTIONS

Sh, lt tan, vfn xln, sli calc, pr-fr por, n stn, n odor, n sho

Sh, md gry sli calc

Ls, lt tan, vfn xln, sli calc, pr-fr por, n stn, n odor, n sho

Sh, md gry sli calc

Ls, sli dol, lt tan gry, vfn xln, pr por, trc spary calc xln, fossiliferous, chiky in part, n odor, n sho

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REMARKS

Spud 10:45 AM 02-17-2020
RTD 7:32 PM 02-24-2020

"BIT RECORD"
Surface Bit: Varul, CH-20 12-1/4, 15s Serial #160635, cut at 220'
Bit No. 1, HTC D506, 7-7/8"
Serial #5296267
FF: BOB 9' built to 13" nr FF: BOB 9' built to 13" surf blow, 32 GR, RW: 11632' CL 32.000ppm
Bit No. 2, HTC Ex20, 7-7/8"
Serial #5292051
in at - out at 0000

"VERTICAL SURVEYS"
1/2" @ 220' 1/2" @ 0000"
1/2" @ 3086'
1/2" @ 3432'
1/2" @ 3800'

"PUMP DATA"
National K-360
Stroke 14", Liner 6"
60 strokes/365 gpm

"DAILY REPORT"
Spud 02-17-2020 - 10:45 AM
Drig to 12 1/4" to 220'
Set 8-5/8" 5 jts
set @ 220'
150 sxs
60/40 Pbz
39/69 25% cc
Circ 5 sx to pills, Global
Plug down 2:45 PM 02-17-20
Drig plug 10:45 PM 02-17-20
02-18-2020 - 7:00 AM
Drig @ 2,740'
02-19-2020 - 7:00 AM
Drig @ 2,740'
02-20-2020 - 7:00 AM
Drig @ 3,400'
02-21-2020 - 7:00 AM
TIH Dst3 @ 3,432'
02-22-2020 - 7:00 AM
Drig @ 3,472'
02-23-2020 - 7:00 AM
Dst #6 @ 3,580
02-24-2020 - 7:00 AM
Dst #7 @ 3,733
02-24-2020 - 7:32 PM
RTD @ 3,800
02-24-2020 - 11:00 PM
LogTech finish 1:15 AM
LTD @ 3,801

GRD MW55 5 3/4" Ord 15.5#
R-3 LTC cement 2791',
set @ 3796',
RU Swift Service, cemented
255 sx SMD & 150 sx
EA-2, Plug down 5:30pm
cement to surface &
35 sx to pit - Swift

Pipe Strap 3887.40
Board 3886.64
Strap long 1.36

DST (1) 3377-3432
LKC A C
Tool appeared
plugged
TOH Condition

DST (2) 3377-3432
LKC A C
Discovered
Mechanical failure

DST (3) 3376-3432
LKC A C
30 45 60 90
IF: slow build to 6.35"
IS: n blow
FF: BOB in 45 min 12.16"
FS: n blow
Total Rec: 250' Fluid,
15' CO
80' SOCCM (50 95M)
185' MW (90W 10M)

FP: 21-107 FFP: 110-148
SIP: 824 FSP: 816
HP: 1649 FHP: 1643
Temp 104 F BHT
Grav 34' @ 60'
RW: 37' @ 54' CL 23.000ppm

DST (4) 3433-3472
LKC D-F
15-30-15-45
IF: BOB 9 min, built to 13.22in
IS: very weak surf blow
FF: BOB 9 min, built to 13.38in
FS: surf blow
Total Rec: 325' Fluid,
15' CO
80' SOCCM (50 95M)
185' MW (90W 10M)

FP: 27-117 FFP: 121-150
SIP: 1008 FSP: 980
HP: 1671 FHP: 1669
Temp 104 F BHT
Grav 34'

DST (5) 3497 - 3558
LKC H-J
30-45-60-90
IF: slow build to 4.99"
IS: n blow
FF: slow build to 9.1"
FS: surf blow
Total Rec: 125' Fluid
65' CO (25G 75C)
80' FT OCG (250 80M)

FP: 17-333 FFP: 37-61
SIP: 1262 FSP: 1256
HP: 1706 FHP: 1676
Temp 104 F BHT
Grav 34'

DST (6) 3556-3586
LKC K-L
30 45 60 60
IF: slow build to 2.94"
IS: no blow
FF: slow build to 4.75"
FS: no blow
Total Rec: 155' Fluid
15' CO
80' SOCCM (50 95M)
185' MW (90W 10M)

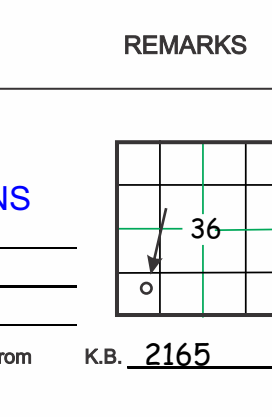
FP: 17-46 FFP: 50-98
SIP: 1171 FSP: 1176
HP: 1740 FHP: 1731
Temp 109 F BHT
RW 24 @ 66' F
CL 33.000 ppm

DST (7) 3690-3733
LKC Arbuokle
20 45 60 20
IF: BOB 11 min, built to 18.25"
IS: wk blow to .36"
FF: BOB 16 min, built to 12.61in
FS: wk blow to .65"
Total Rec: 500' Fluid,
125' CO (300 70C)
375 GWOCM (10G 850 5M)

FP: 32-121 FFP: 134-186
SIP: 981 FSP: 889
HP: 1848 FHP: 1801
Temp 107 F BHT
Grav 25'

DST (8) 3720-1635
LTD 3801
RTD 3800 7:32 pm 02/24/2020
LTD 3801

COMPANY **Cobalt Energy LLC**
LEASE **Elizabeth "A" #2-36 SE NE SW SW**
LOCATION **904' FSL 1028' FWL** SEC. **36** TWP **8S** RGE **22W**
COUNTY **Graham** STATE **Ks**



ELEVATIONS
K.B. **2165**
D.F.
G.L. **2160**

CASING RECORD
Conductor **220** of **8.5/8** in **150** sxs
Surface **220** of **8.5/8** in **150** sxs
Production **220** of **8.5/8** in **150** sxs

All measurements from K.B. 2165