

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Black Oak Exploration, LLC
Well Name	JUENEMANN 2-28
Doc ID	1659526

All Electric Logs Run

DUCP
DIL
MICRO
SONIC

Black Oak Exploration, LLC

WELL COMPARISON SHEET

Company: Black Oak Exploration, LLC
 1474 S St Paul St
 Denver, CO 80210

Contact: Clayton Camozzi 303-968-4999 (Cell)

Well: Juenemann 2-28
 Location: 1110 FNL / 1625
 FWL 28 - 5S - 30W
 Decatur Co., KS

Wellsite Geologist: Tim Hedrick Cell: (580) 754-0062

Elevation: 2895' KB 2890' GL

Field: Robertson

API No: 15-039-21280-0000

Surface Casing: 8 5/8" set @ 395' KB

Drilling Contractor: Murfin Drilling Co Rig #108. Rig Phone (785-259-0816), Tool Pusher Scott Piland (620-639-1843)

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Juenemann 2-28					Juenemann 1-28 Black Oak: Producer				Withers 2-21 Black Oak: Producer			
1110 FNL / 1625 FWL 28 - 5S - 30W					850 FNL / 590 FWL 28 - 5S - 30W				1500 FSL / 950 FWL 21 - 5S - 30W			
2895 KB					2901 KB		Structural Relationship		2894 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
STONE CORAL	2595	300	2592	303	2601	300	0	3	2606	288	12	15
FORAKER	3416	-521	3412	-517	3420	-519	-2	2	3427	-533	12	16
TOPEKA	3705	-810	3700	-805	3710	-809	-1	4	3715	-821	11	16
DEER CREEK	3754	-859	3750	-855	3758	-857	-2	2	3764	-870	11	15
LECOMPTON	3816	-921	3813	-918	3820	-919	-2	1	3828	-934	13	16
HEEBNER	3876	-981	3873	-978	3881	-980	-1	2	3888	-994	13	16
LANSING	3924	-1029	3922	-1027	3928	-1027	-2	0	3934	-1040	11	13
LANSING "D" ZONE	3962	-1067	3962	-1067	3966	-1065	-2	-2	3974	-1080	13	13
LANSING "F" ZONE	3990	-1095	3988	-1093	3998	-1097	2	4	4002	-1108	13	15
LANSING "H" ZONE	4038	-1143	4034	-1139	4046	-1145	2	6	4048	-1154	11	15
BKC	4140	-1245	4134	-1239	4143	-1242	-3	3	4149	-1255	10	16
Total Depth	4693	-1798	3494	-599	4210	-1309	-489	710	4242	-1348	-450	749



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration, LLC**

1474 S st Paul St
Denver, CO 80210

ATTN: Clayton Camozzi

Juenemann #2-28

28-5s-30w Decatur,KS

Start Date: 2022.04.18 @ 06:06:00

End Date: 2022.04.18 @ 12:26:30

Job Ticket #: 68079 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.04.26 @ 09:25:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Oak Exploration, LLC

28-5s-30w Decatur, KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68079

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2022.04.18 @ 06:06:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:45

Time Test Ended: 12:26:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 3875.00 ft (KB) To 3926.00 ft (KB) (TVD)

Reference Elevations: 2891.00 ft (KB)

Total Depth: 3926.00 ft (KB) (TVD)

2886.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874 Outside

Press@RunDepth: 24.43 psig @ 3876.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.18

End Date: 2022.04.18

Last Calib.: 2022.04.18

Start Time: 06:06:05

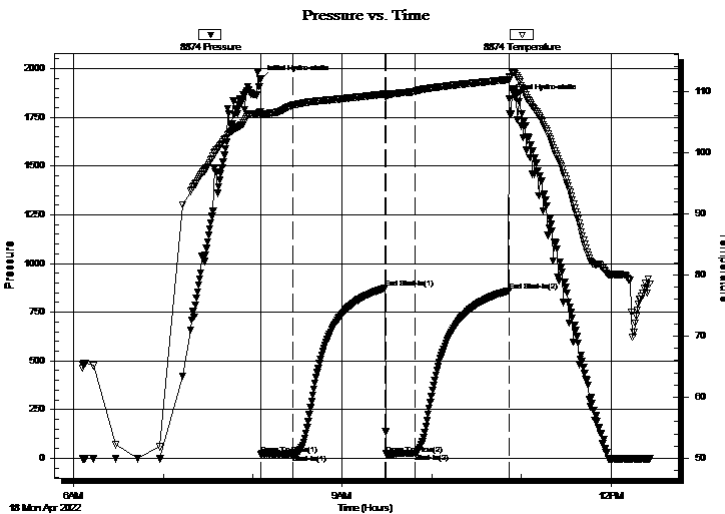
End Time: 12:26:29

Time On Btm: 2022.04.18 @ 08:05:15

Time Off Btm: 2022.04.18 @ 10:52:00

TEST COMMENT: 20- IF: 1" blow .
60- IS: No return.
15- FF: 1/4" blow .
60- FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.54	106.61	Initial Hydro-static
1	17.67	106.08	Open To Flow (1)
22	20.93	107.72	Shut-In(1)
84	873.35	109.57	End Shut-In(1)
84	22.21	109.32	Open To Flow (2)
104	24.43	109.98	Shut-In(2)
167	860.31	111.94	End Shut-In(2)
167	1847.87	112.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (oil Spots)	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration, LLC

28-5s-30w Decatur,KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68079

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2022.04.18 @ 06:06:00

Tool Information

Drill Pipe:	Length: 3612.00 ft	Diameter: 3.80 inches	Volume: 50.67 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 51.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3875.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	81.00 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			3846.00	
Shut In Tool	5.00			3851.00	
Hydraulic tool	5.00			3856.00	
Jars	5.00			3861.00	
EM Tool	3.00			3864.00	
Safety Joint	2.00			3866.00	
Packer	5.00			3871.00	30.00 Bottom Of Top Packer
Packer	4.00			3875.00	
Stubb	1.00			3876.00	
Recorder	0.00	8319	Inside	3876.00	
Recorder	0.00	8874	Outside	3876.00	
Perforations	14.00			3890.00	
Change Over Sub	1.00			3891.00	
Drill Pipe	31.00			3922.00	
Change Over Sub	1.00			3923.00	
Bullnose	3.00			3926.00	51.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration, LLC

28-5s-30w Decatur,KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68079

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2022.04.18 @ 06:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100m (oil Spots)	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

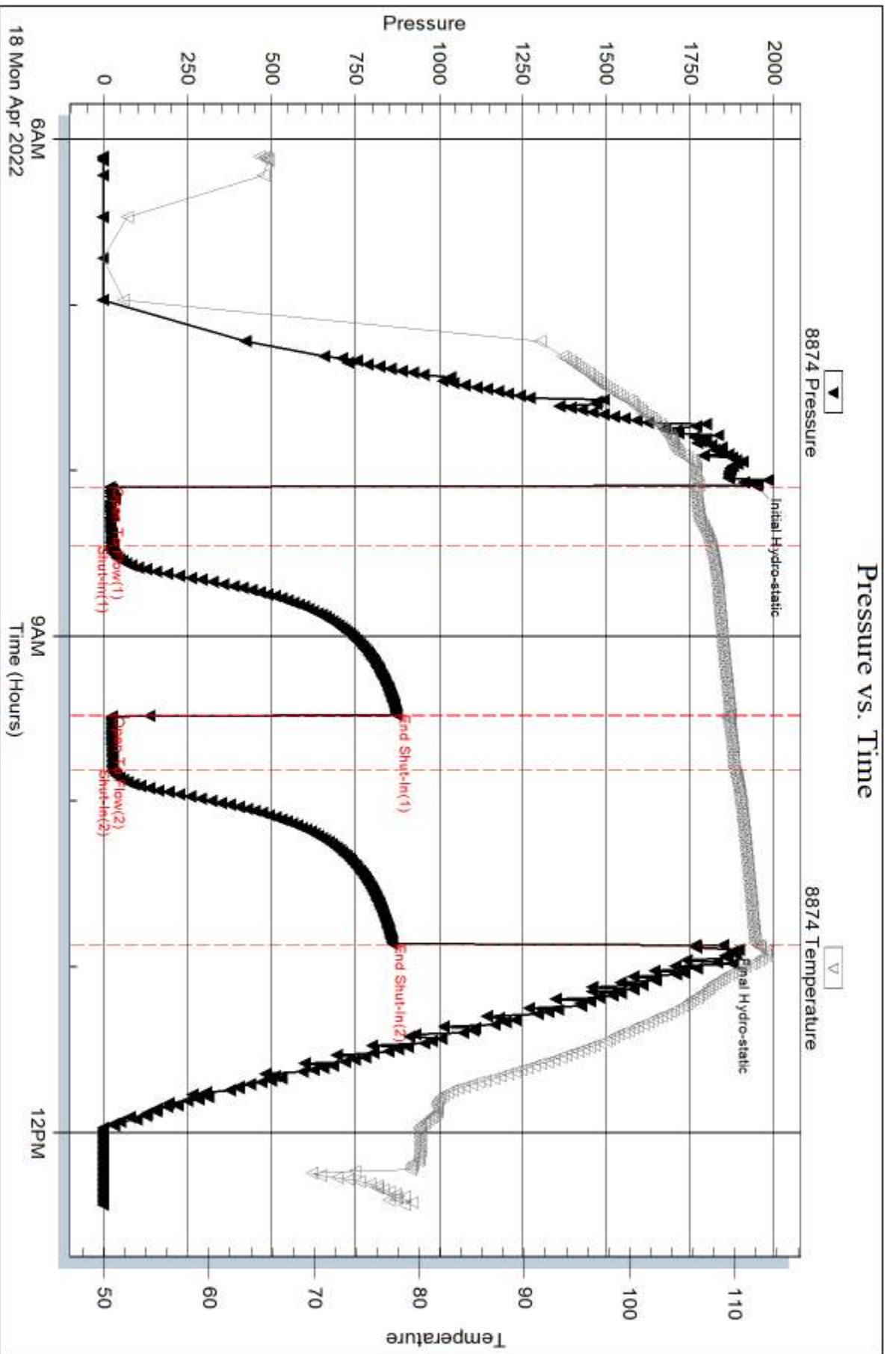
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



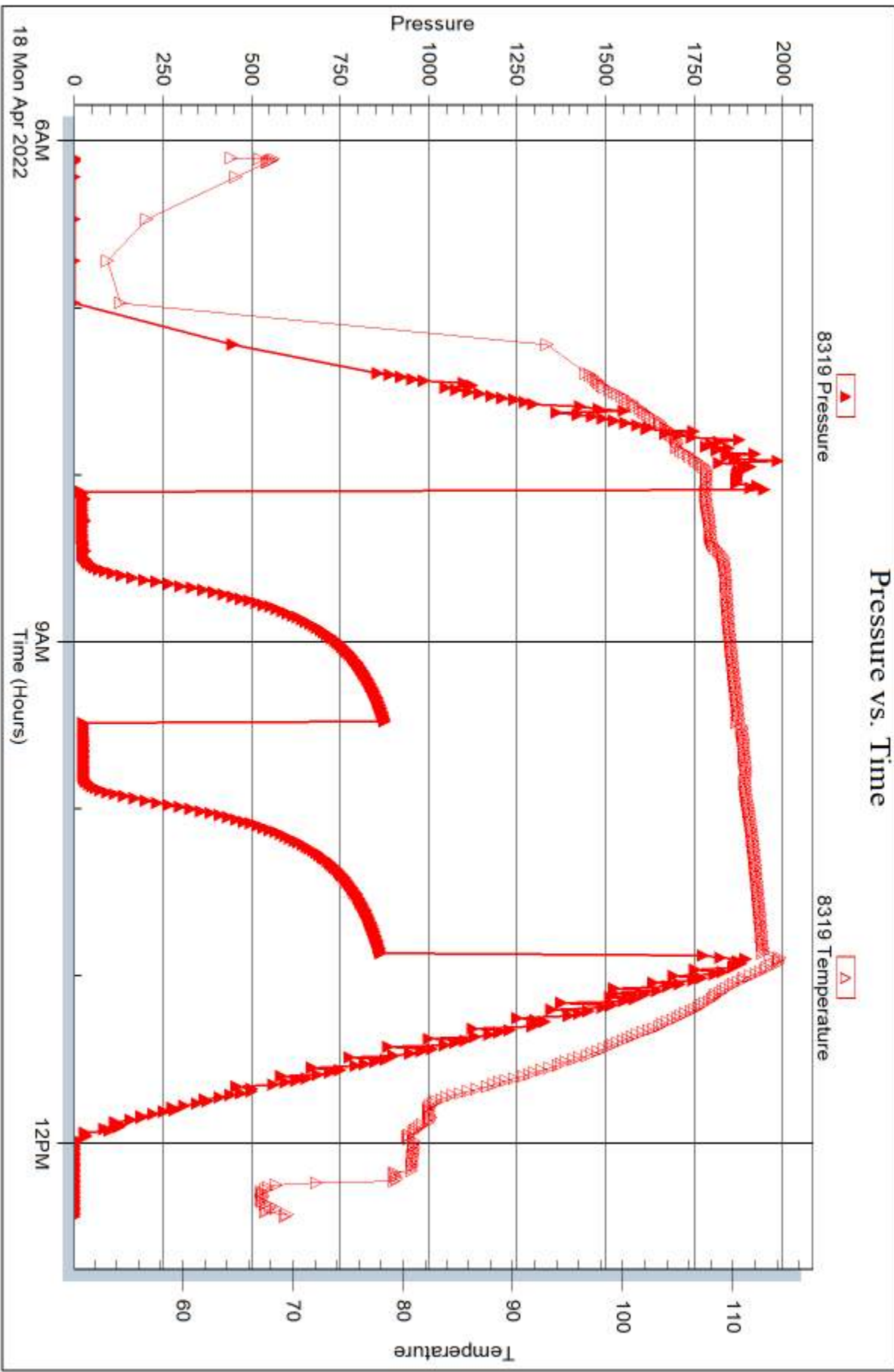
Serial #: 8319

Inside

Black Oak Exploration, LLC

Juennann #2-28

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 68079

Printed: 2022.04.26 @ 09:25:56



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration, LLC**

1474 S st Paul St
Denver, CO 80210

ATTN: Clayton Camozzi

Juenemann #2-28

28-5s-30w Decatur,KS

Start Date: 2022.04.18 @ 23:06:00

End Date: 2022.04.19 @ 05:41:30

Job Ticket #: 68080 DST #: 2

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

Printed: 2022.04.26 @ 09:25:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Oak Exploration, LLC

28-5s-30w Decatur, KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68080

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2022.04.18 @ 23:06:00

GENERAL INFORMATION:

Formation: **LKC B - C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:11:15

Time Test Ended: 05:41:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4930.00 ft (KB) To 4962.00 ft (KB) (TVD)

Reference Elevations: 2891.00 ft (KB)

Total Depth: 4962.00 ft (KB) (TVD)

2886.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874 Outside

Press@RunDepth: 28.73 psig @ 4931.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.18

End Date:

2022.04.19

Last Calib.:

2022.04.19

Start Time: 23:06:05

End Time:

05:41:29

Time On Btm:

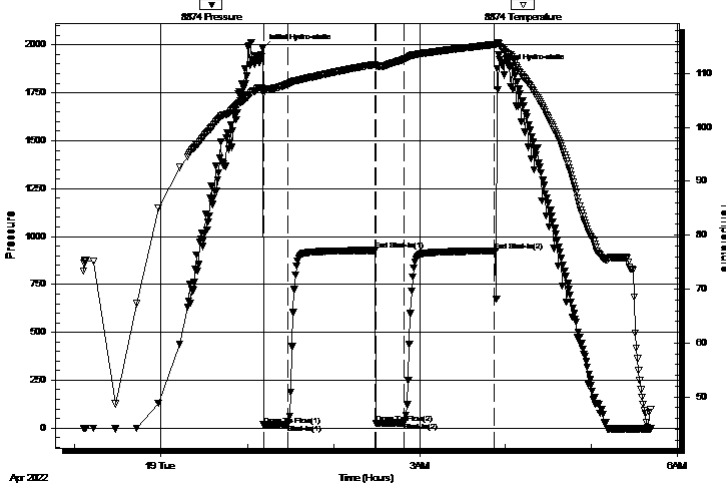
2022.04.19 @ 01:11:00

Time Off Btm:

2022.04.19 @ 03:54:15

TEST COMMENT: 20- IF: 1" blow ,
60- IS: No return.
20- FF: 1/4" blow .
60- FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.08	107.18	Initial Hydro-static
1	17.09	106.24	Open To Flow (1)
18	21.19	108.07	Shut-In(1)
79	927.16	111.69	End Shut-In(1)
79	23.62	111.35	Open To Flow (2)
99	28.73	112.64	Shut-In(2)
162	924.13	115.38	End Shut-In(2)
164	1876.91	115.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	w cm 15w 85m	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration, LLC

28-5s-30w Decatur,KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68080

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2022.04.18 @ 23:06:00

Tool Information

Drill Pipe:	Length: 4674.00 ft	Diameter: 3.80 inches	Volume: 65.56 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 66.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4930.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	62.00 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			4901.00	
Shut In Tool	5.00			4906.00	
Hydraulic tool	5.00			4911.00	
Jars	5.00			4916.00	
EM Tool	3.00			4919.00	
Safety Joint	2.00			4921.00	
Packer	5.00			4926.00	30.00 Bottom Of Top Packer
Packer	4.00			4930.00	
Stubb	1.00			4931.00	
Recorder	0.00	8319	Inside	4931.00	
Recorder	0.00	8874	Outside	4931.00	
Perforations	28.00			4959.00	
Bullnose	3.00			4962.00	32.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration, LLC

28-5s-30w Decatur,KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68080

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2022.04.18 @ 23:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	w cm 15w 85m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

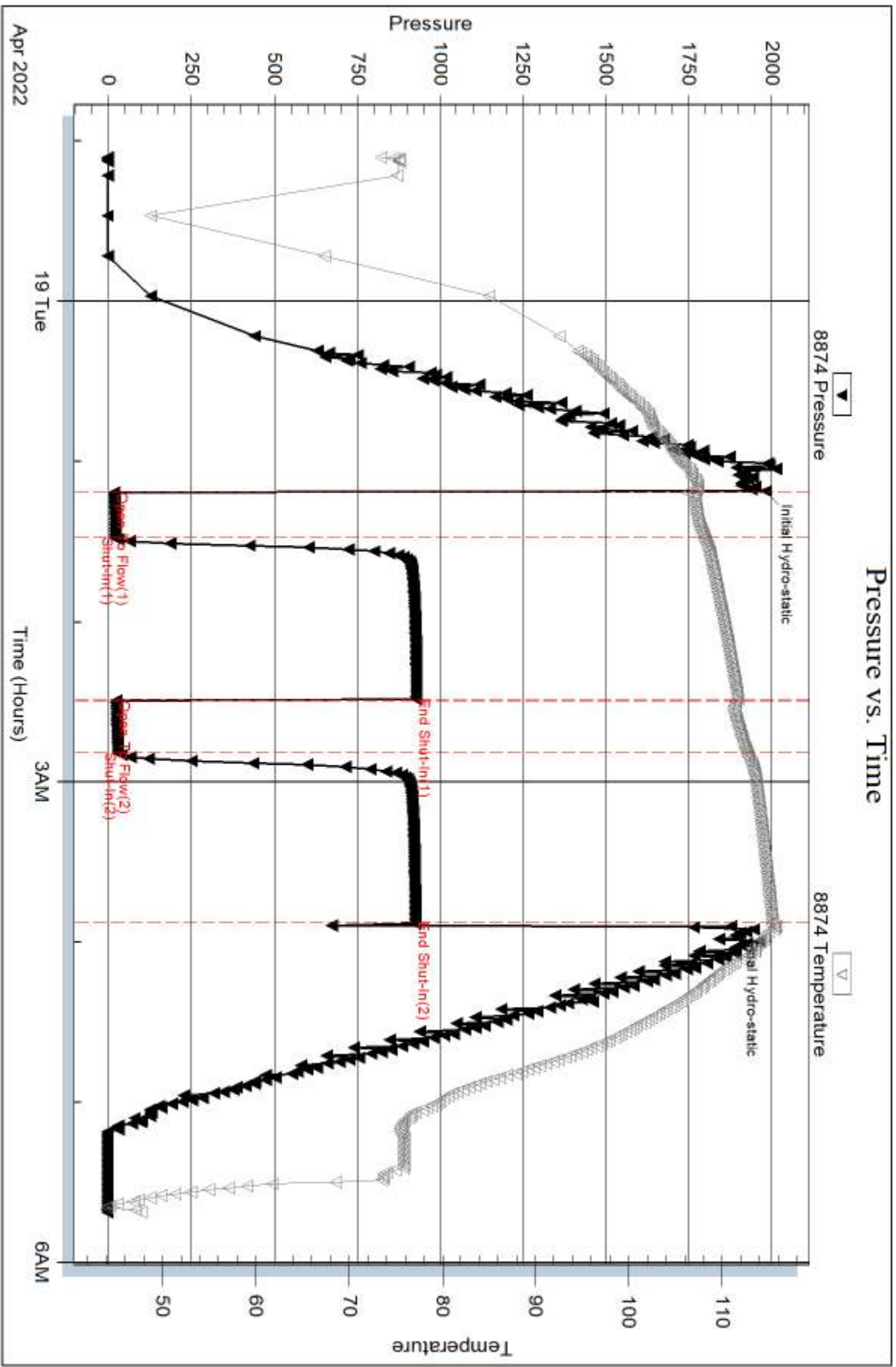
Num Gas Bombs: 0

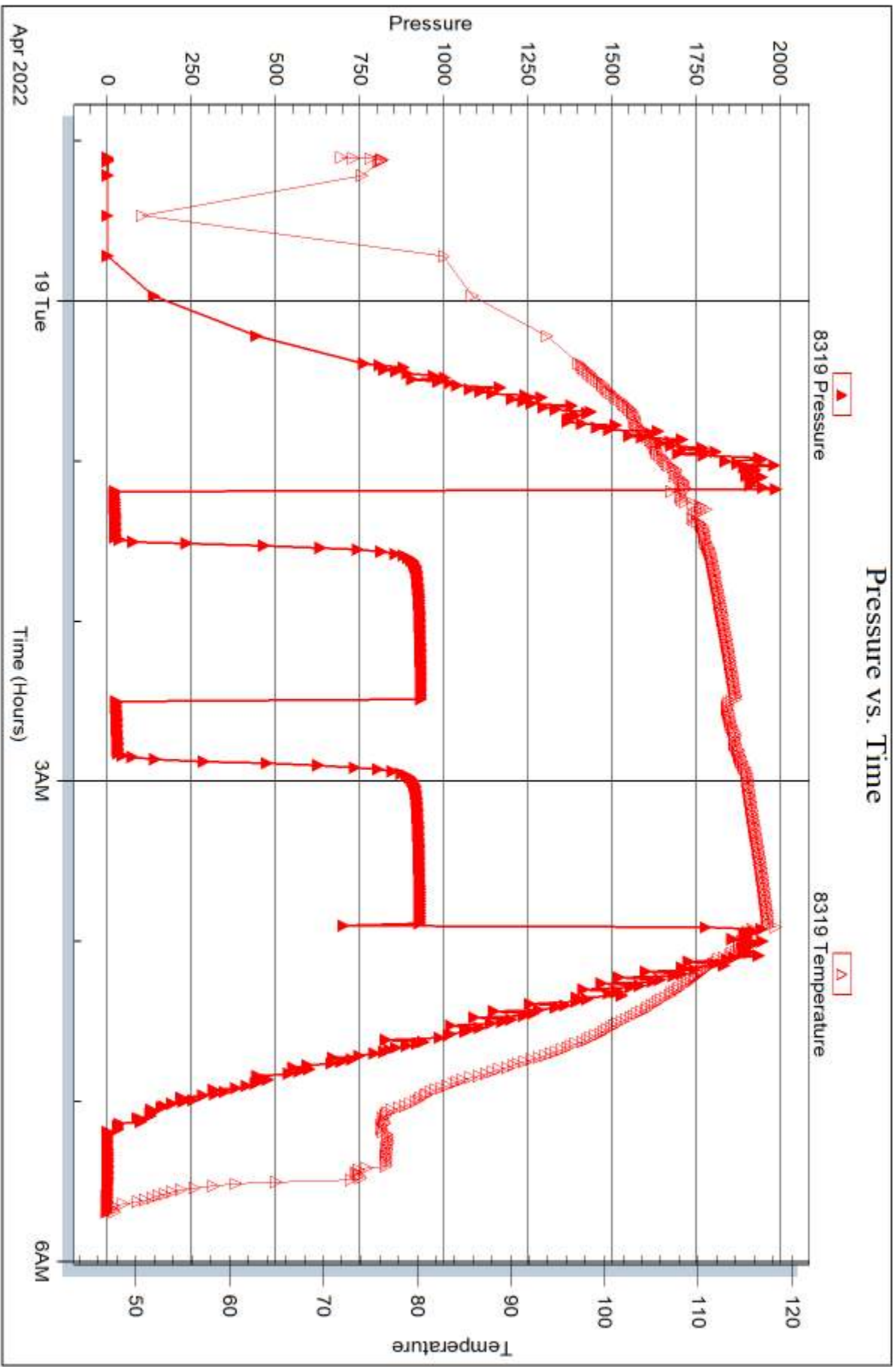
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration, LLC**

1474 S st Paul St
Denver, CO 80210

ATTN: Clayton Camozzi

Juenemann #2-28

28-5s-30w Decatur,KS

Start Date: 2022.04.19 @ 13:29:00

End Date: 2022.04.19 @ 19:34:00

Job Ticket #: 68081 DST #: 3

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

Printed: 2022.04.26 @ 09:25:01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Oak Exploration, LLC

28-5s-30w Decatur, KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68081

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2022.04.19 @ 13:29:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:39:00

Time Test Ended: 19:34:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 3955.00 ft (KB) To 3974.00 ft (KB) (TVD)

Reference Elevations: 2891.00 ft (KB)

Total Depth: 3974.00 ft (KB) (TVD)

2886.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 217.39 psig @ 3956.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.19

End Date:

2022.04.19

Last Calib.:

2022.04.19

Start Time: 13:29:05

End Time:

19:33:59

Time On Btm:

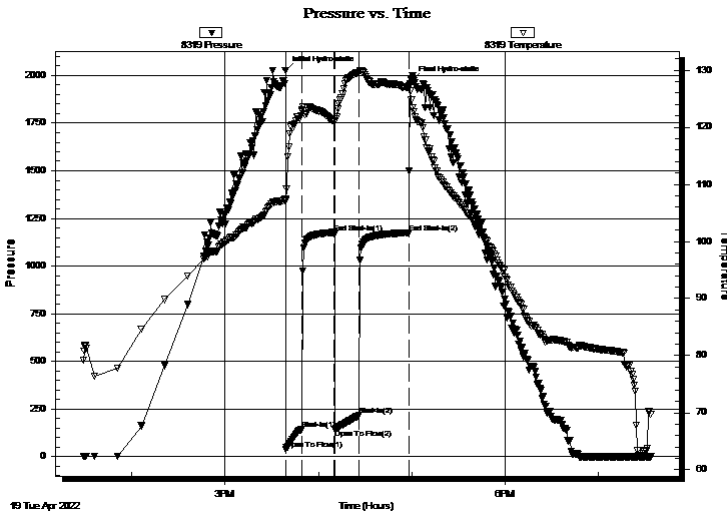
2022.04.19 @ 15:38:45

Time Off Btm:

2022.04.19 @ 16:59:45

TEST COMMENT: 10- IF: BOB @ 7 min. - 13.3" blow .
20- IS: No return.
15- FF: BOB @ 9 min- 15" blow .
30- FS: Surface return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2026.49	107.37	Initial Hydro-static
1	39.09	107.13	Open To Flow (1)
11	144.47	123.10	Shut-In(1)
32	1176.73	121.13	End Shut-In(1)
32	145.19	120.96	Open To Flow (2)
48	217.39	129.60	Shut-In(2)
80	1175.16	127.00	End Shut-In(2)
81	1975.56	124.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
450.00	mcw 10m 90w	4.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration, LLC

28-5s-30w Decatur,KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68081

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2022.04.19 @ 13:29:00

Tool Information

Drill Pipe:	Length: 3706.00 ft	Diameter: 3.80 inches	Volume: 51.99 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 53.16 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3955.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 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			3926.00	
Shut In Tool	5.00			3931.00	
Hydraulic tool	5.00			3936.00	
Jars	5.00			3941.00	
EM Tool	3.00			3944.00	
Safety Joint	2.00			3946.00	
Packer	5.00			3951.00	30.00 Bottom Of Top Packer
Packer	4.00			3955.00	
Stubb	1.00			3956.00	
Recorder	0.00	8319	Inside	3956.00	
Recorder	0.00	8874	Outside	3956.00	
Perforations	15.00			3971.00	
Bullnose	3.00			3974.00	19.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration, LLC

28-5s-30w Decatur,KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68081

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2022.04.19 @ 13:29:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

21000 ppm

Viscosity: 74.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 63.87 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	mcw 10m 90w	4.153

Total Length: 450.00 ft Total Volume: 4.153 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

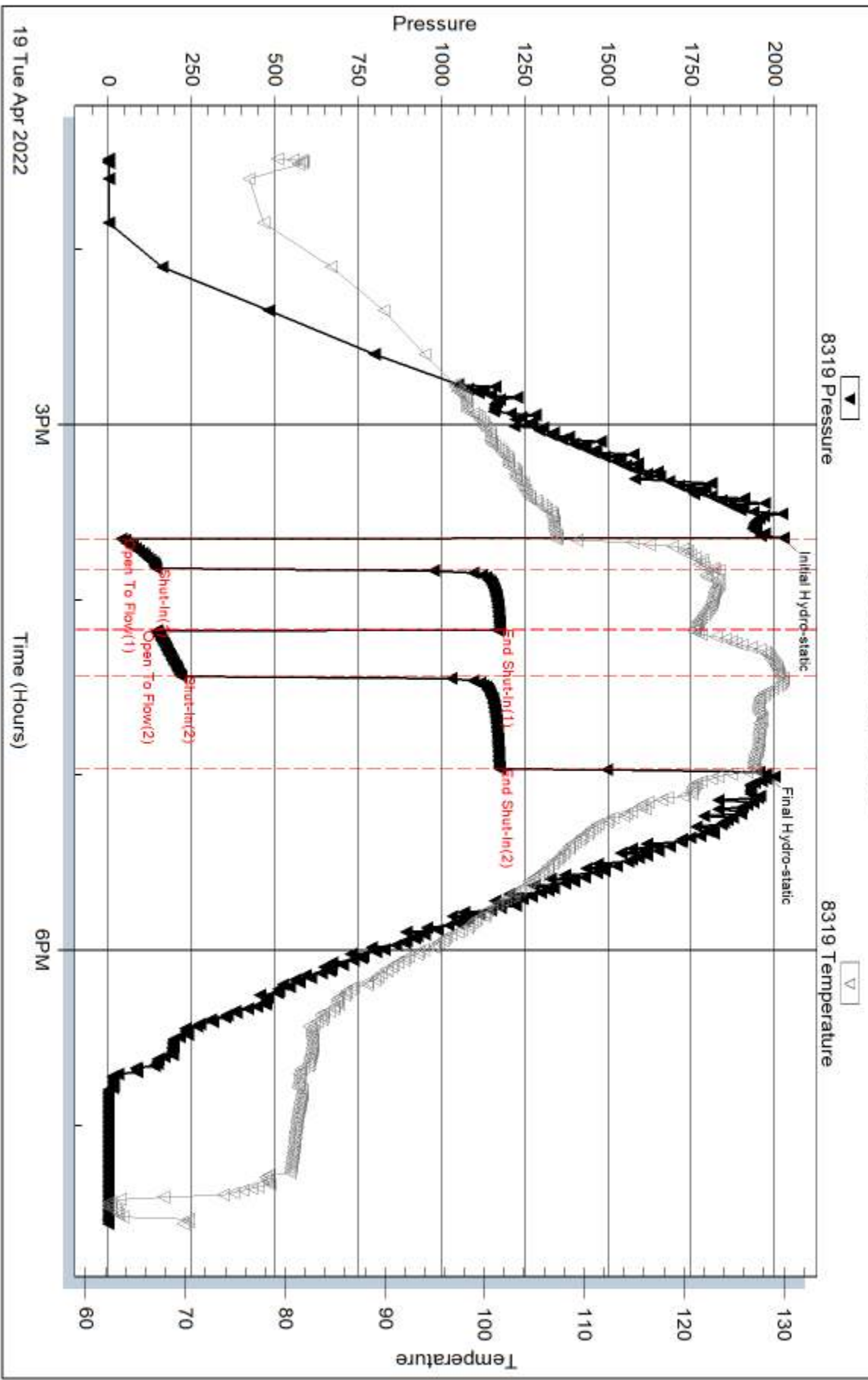
Serial #:

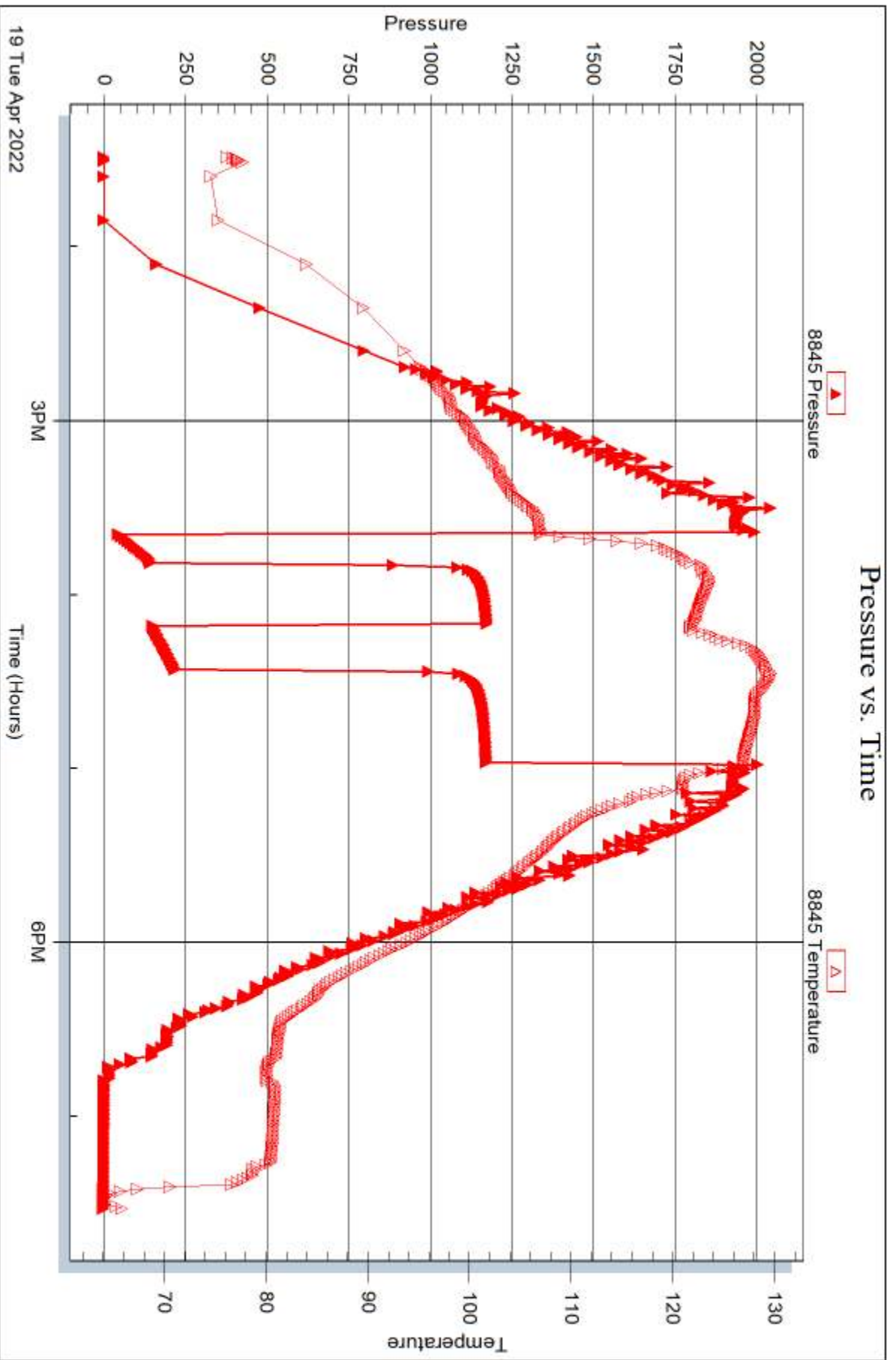
Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .316 @ 71F = 21000ppm

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration, LLC**

1474 S st Paul St
Denver, CO 80210

ATTN: Clayton Camozzi

Juenemann #2-28

28-5s-30w Decatur,KS

Start Date: 2022.04.20 @ 03:33:00

End Date: 2022.04.20 @ 08:52:00

Job Ticket #: 68082 DST #: 4

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

Printed: 2022.04.26 @ 09:24:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Oak Exploration, LLC

28-5s-30w Decatur, KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68082

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2022.04.20 @ 03:33:00

GENERAL INFORMATION:

Formation: **LKC F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:38:15

Time Test Ended: 08:52:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 3978.00 ft (KB) To 3999.00 ft (KB) (TVD)

Reference Elevations: 2891.00 ft (KB)

Total Depth: 3999.00 ft (KB) (TVD)

2886.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874 Outside

Press@RunDepth: 18.35 psig @ 3979.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.20

End Date: 2022.04.20

Last Calib.: 2022.04.20

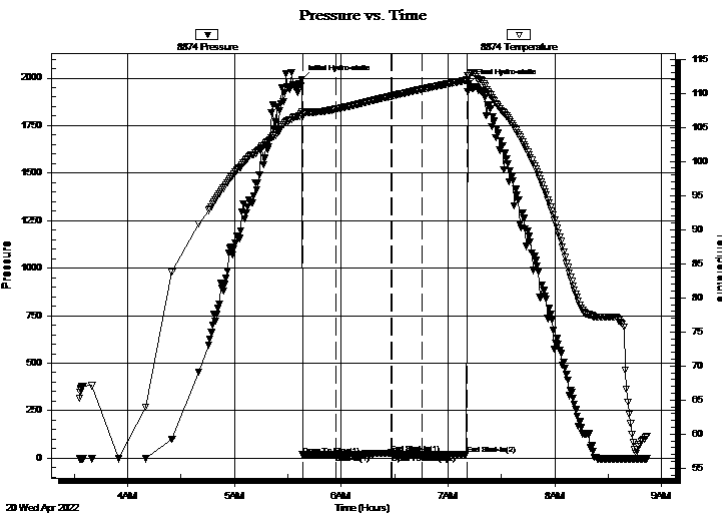
Start Time: 03:33:05

End Time: 08:51:59

Time On Btm: 2022.04.20 @ 05:38:00

Time Off Btm: 2022.04.20 @ 07:11:30

TEST COMMENT: 20- IF: <1/2" blow .
30- IS: No return.
15- FF: No blow .
20- FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1993.23	107.25	Initial Hydro-static
1	17.13	106.55	Open To Flow (1)
19	17.53	107.66	Shut-In(1)
50	26.99	109.57	End Shut-In(1)
51	17.74	109.60	Open To Flow (2)
68	18.35	110.59	Shut-In(2)
93	20.95	111.91	End Shut-In(2)
94	1971.68	112.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100m	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

Black Oak Exploration, LLC

28-5s-30w Decatur,KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68082

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2022.04.20 @ 03:33:00

Tool Information

Drill Pipe:	Length: 3736.00 ft	Diameter: 3.80 inches	Volume: 52.41 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 53.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3978.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	51.00 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			3949.00	
Shut In Tool	5.00			3954.00	
Hydraulic tool	5.00			3959.00	
Jars	5.00			3964.00	
EM Tool	3.00			3967.00	
Safety Joint	2.00			3969.00	
Packer	5.00			3974.00	30.00 Bottom Of Top Packer
Packer	4.00			3978.00	
Stubb	1.00			3979.00	
Recorder	0.00	8319	Inside	3979.00	
Recorder	0.00	8874	Outside	3979.00	
Perforations	17.00			3996.00	
Bullnose	3.00			3999.00	21.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration, LLC

28-5s-30w Decatur,KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68082

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2022.04.20 @ 03:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	Mud 100m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

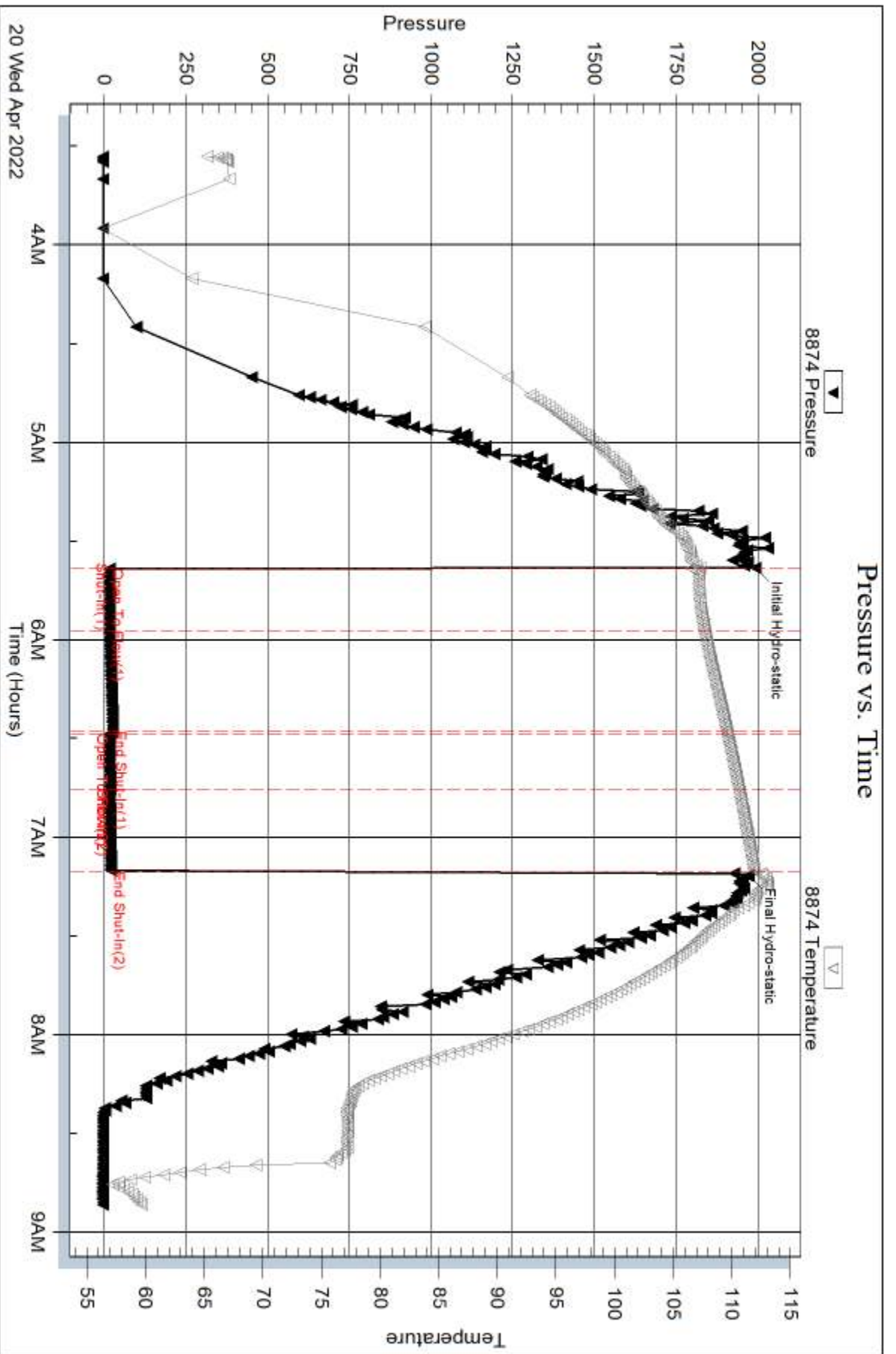
Num Gas Bombs: 0

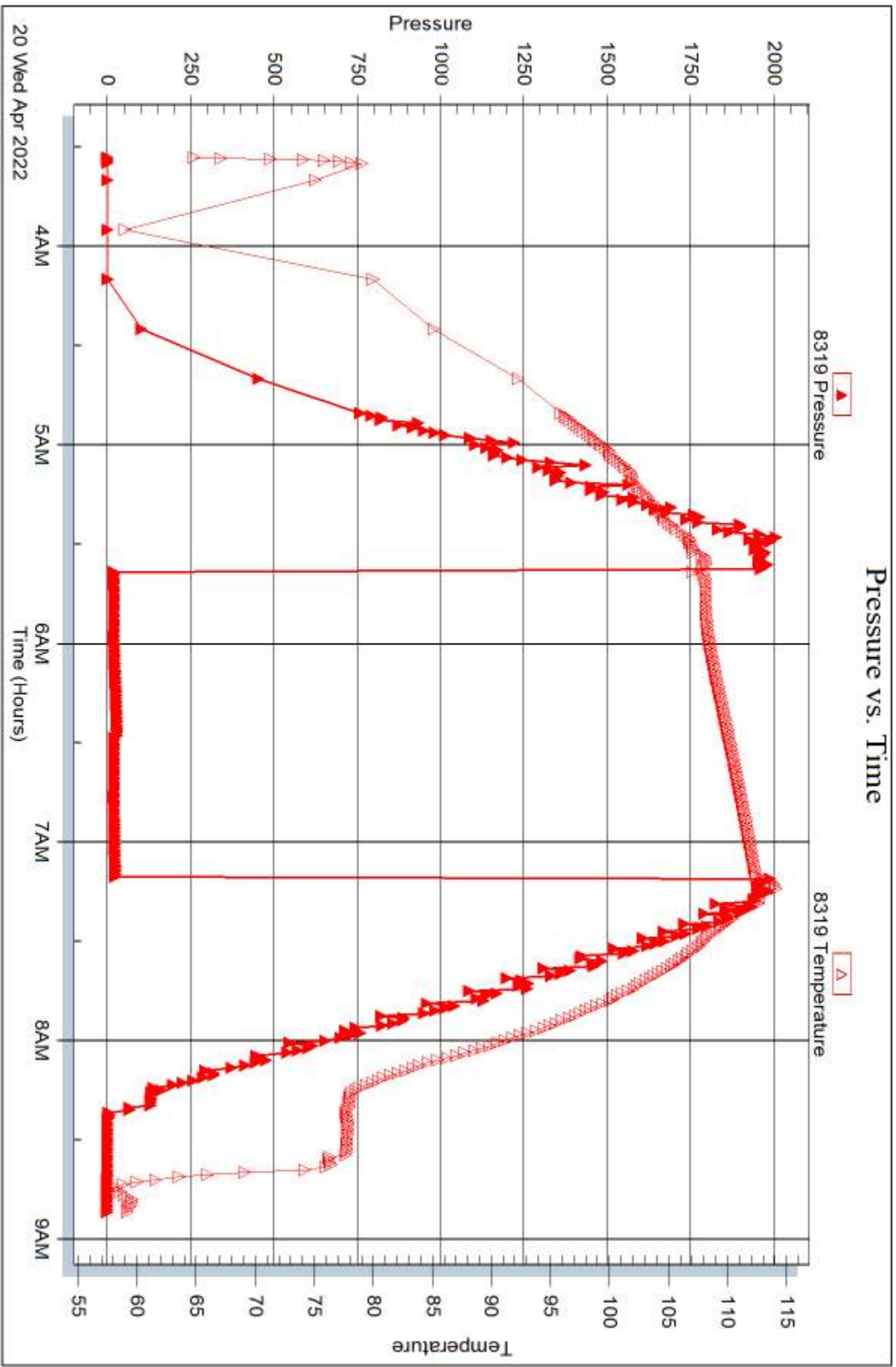
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration, LLC**

1474 S st Paul St
Denver, CO 80210

ATTN: Clayton Camozzi

Juenemann #2-28

28-5s-30w Decatur,KS

Start Date: 2022.04.20 @ 23:09:00

End Date: 2022.04.21 @ 05:29:45

Job Ticket #: 68083 DST #: 5

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

Printed: 2022.04.26 @ 09:23:43



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Oak Exploration, LLC

28-5s-30w Decatur, KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68083

DST#: 5

ATTN: Clayton Camozzi

Test Start: 2022.04.20 @ 23:09:00

GENERAL INFORMATION:

Formation: **LKC J - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:06:45

Time Test Ended: 05:29:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4074.00 ft (KB) To 4110.00 ft (KB) (TVD)

Reference Elevations: 2891.00 ft (KB)

Total Depth: 4110.00 ft (KB) (TVD)

2886.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874 Outside

Press@RunDepth: 39.31 psig @ 4075.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.20

End Date:

2022.04.21

Last Calib.: 2022.04.21

Start Time: 23:09:05

End Time:

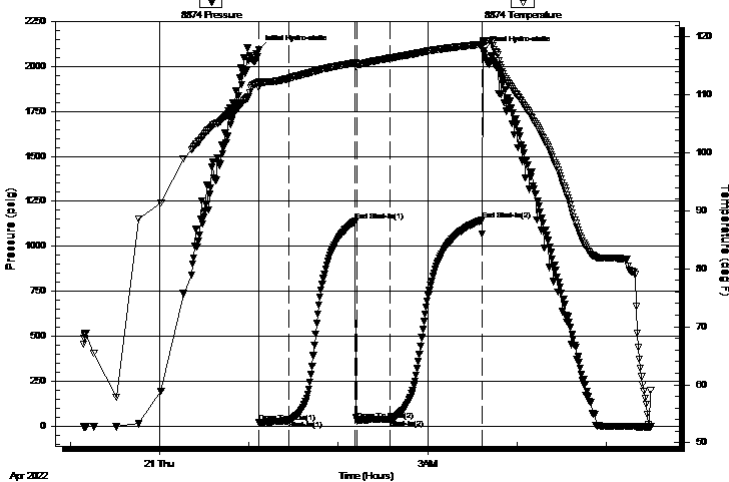
05:29:44

Time On Btm: 2022.04.21 @ 01:06:30

Time Off Btm: 2022.04.21 @ 03:37:30

TEST COMMENT: 20- IF: 1 3/4" blow .
45- IS: No return.
20- FF: 2" blow .
60- FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2091.02	112.15	Initial Hydro-static
1	19.85	111.22	Open To Flow (1)
21	30.95	112.81	Shut-In(1)
65	1139.73	115.49	End Shut-In(1)
66	29.73	115.27	Open To Flow (2)
89	39.31	116.31	Shut-In(2)
150	1145.56	118.69	End Shut-In(2)
151	2084.98	118.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gmco 10g 40m 50o	0.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration, LLC

28-5s-30w Decatur,KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68083

DST#: 5

ATTN: Clayton Camozzi

Test Start: 2022.04.20 @ 23:09:00

Tool Information

Drill Pipe:	Length: 3833.00 ft	Diameter: 3.80 inches	Volume: 53.77 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4074.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	66.00 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			4045.00	
Shut In Tool	5.00			4050.00	
Hydraulic tool	5.00			4055.00	
Jars	5.00			4060.00	
EM Tool	3.00			4063.00	
Safety Joint	2.00			4065.00	
Packer	5.00			4070.00	30.00 Bottom Of Top Packer
Packer	4.00			4074.00	
Stubb	1.00			4075.00	
Recorder	0.00	8319	Inside	4075.00	
Recorder	0.00	8874	Outside	4075.00	
Perforations	32.00			4107.00	
Bullnose	3.00			4110.00	36.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration, LLC

28-5s-30w Decatur,KS

1474 S st Paul St
Denver, CO 80210

Juenemann #2-28

Job Ticket: 68083

DST#: 5

ATTN: Clayton Camozzi

Test Start: 2022.04.20 @ 23:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gmco 10g 40m 50o	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

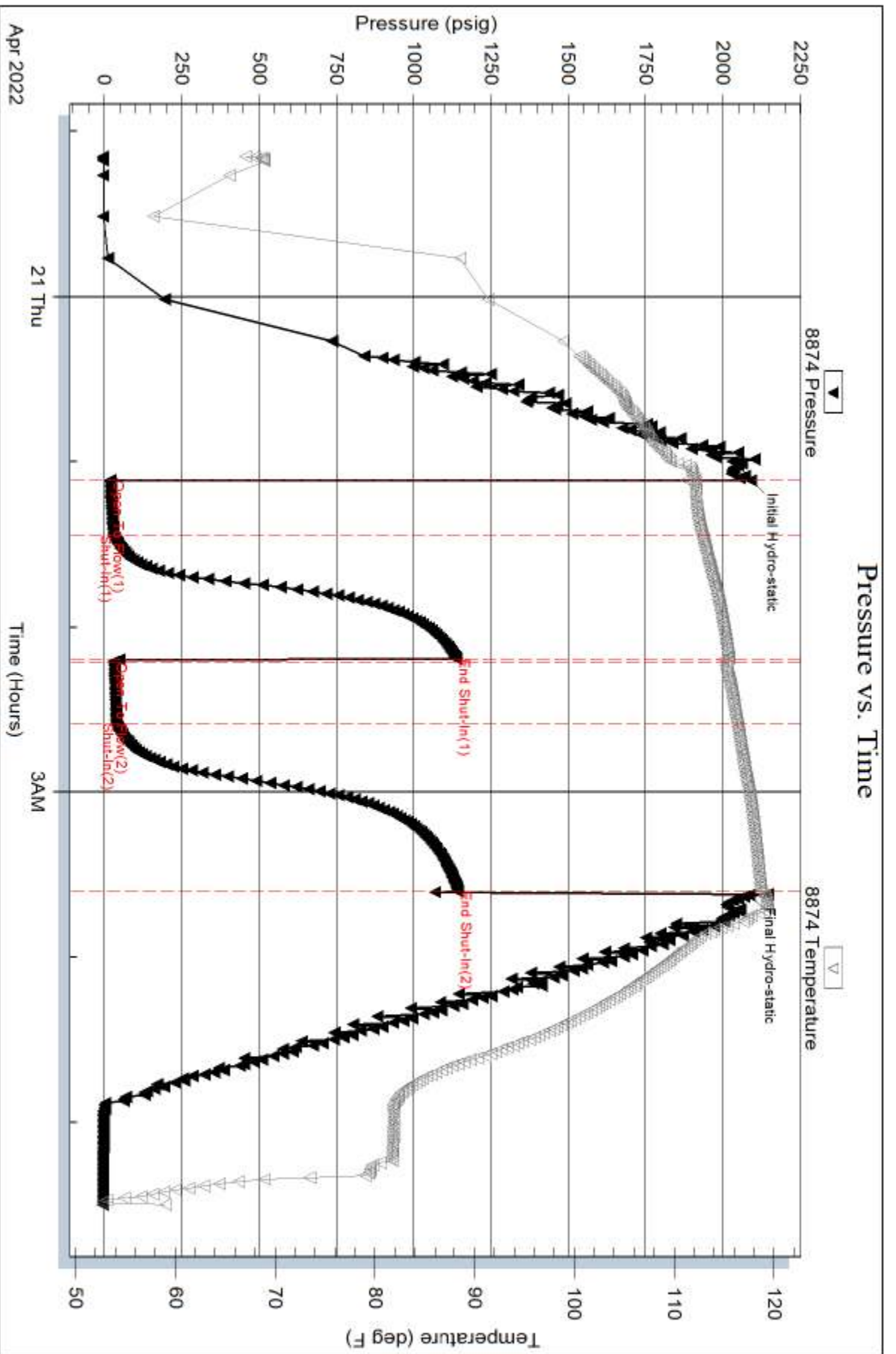
Num Gas Bombs: 0

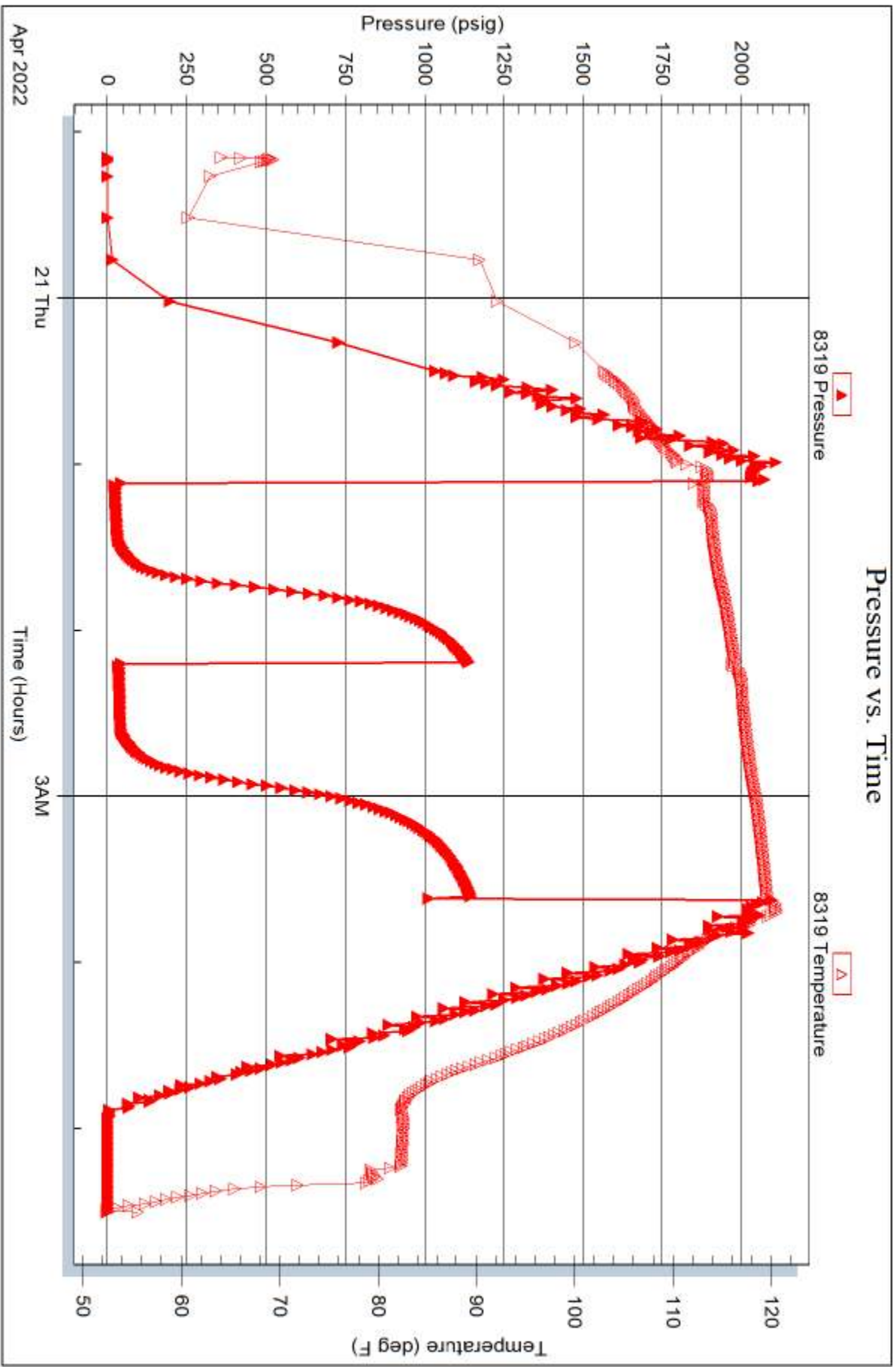
Serial #:

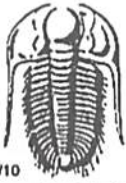
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68079**

Well Name & No. Juenemann #2-28 Test No. 1 Date 04/18/2022
 Company ~~Atlanta~~ Black Oak Exploration, LLC Elevation 2891 KB 2886 GL
 Address 1474 S St Paul St Denver, Co 80210
 Co. Rep / Geo. Clayton Camozzi Rig Merlin #7
 Location: Sec. 28 Twp 5s Rge. 30w Co. Decatur State Ks

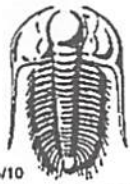
Interval Tested 3875-3926 Zone Tested Toronto-Lansing A
 Anchor Length 51' Drill Pipe Run 3612 Mud Wt. 9.1
 Top Packer Depth 3870 Drill Collars Run 237 Vis 69
 Bottom Packer Depth 3875 Wt. Pipe Run — WL 6.4
 Total Depth 3926 Chlorides 800 ppm System LCM 4#
 Blow Description IF 1" blow
ISF No return.
FF 1/4" blow
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mod</u>			<u>100</u>	

Rec Total 15 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 1943 Test 1800 T-On Location 0345
 (B) First Initial Flow 17 Jars 300 T-Started 0606
 (C) First Final Flow 20 Safety Joint — T-Open 0808
 (D) Initial Shut-In 873 Circ Sub — T-Pulled 1050
 (E) Second Initial Flow 22 Hourly Standby — T-Out 1226
 (F) Second Final Flow 24 Mileage 50rt 75 Comments —
 (G) Final Shut-In 860 Sampler —
 (H) Final Hydrostatic 1847 Straddle — EM Tool —
 Shale Packer — Ruined Shale Packer —
 Extra Packer — Ruined Packer —
 Extra Recorder — Extra Copies —
 Day Standby — Sub Total 0
 Accessibility — Total 2175
 Sub Total 2175 MP/DST Disc't —

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68080**

Well Name & No. Juenemann #2-28 Test No. 2 Date 04/19/2022
 Company Black Oak Exploration, LLC Elevation 2891 KB 2886 GL
 Address 1474 S St Paul St Denver, Co 80210
 Co. Rep / Geo. Clayton Camozzi Rig Mudfun #7
 Location: Sec. 28 Twp 5s Rge. 30w Co. Decatur State Ks

Interval Tested 3930 - 3962 Zone Tested Lansing B+C
 Anchor Length 32' Drill Pipe Run 4674 Mud Wt. 9.1
 Top Packer Depth 3925 Drill Collars Run 237 Vis 70
 Bottom Packer Depth 3930 Wt. Pipe Run Ø WL 6.4
 Total Depth 3962 Chlorides 600 ppm System LCM 6#

Blow Description IF 1" blow
FSI No return.
FF 1/4" blow
FSI No return.

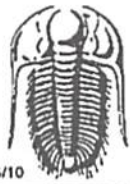
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>wcm</u>		<u>15</u>	<u>85</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 115 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1981</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>2200</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>2306</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0108</u>
(D) Initial Shut-In <u>927</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0348</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0541</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>75</u>	Comments
(G) Final Shut-In <u>924</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1876</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>-350</u>
Initial Open <u>20</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>20</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>1825</u>
	Sub Total <u>2175</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68081**

Well Name & No. Juenenarn #2-28 Test No. 3 Date 04/19/2022
 Company Black Oak Exploration, LLC Elevation 2891 KB 2886 GL
 Address 1474 S St Paul St Denver Co 80210
 Co. Rep / Geo. Clayton Camo221 Rig Martin #7
 Location: Sec. 28 Twp 5s Rge. 30w Co. Decatur State Ks

Interval Tested 3955 3974 Zone Tested Loring D
 Anchor Length 19 Drill Pipe Run 3704 Mud Wt. 9.2
 Top Packer Depth 3950 Drill Collars Run 237 Vis 74
 Bottom Packer Depth 3955 Wt. Pipe Run Ø WL 6.4
 Total Depth 3974 Chlorides 800 ppm System LCM 4#
 Blow Description IF BOB@ 7 - 13.3" blow
ISI No return.
FF BOB@ 9 - 15" blow
FSI Surface return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>440</u>	<u>ncw</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 450 BHT 127 Gravity — API RW 316 @ 71 °F Chlorides 21000 ppm
 (A) Initial Hydrostatic 2026 Test 1800 T-On Location 1305
 (B) First Initial Flow 39 Jars 300 T-Started 1329
 (C) First Final Flow 144 Safety Joint _____ T-Open 1540
 (D) Initial Shut-In 1176 Circ Sub _____ T-Pulled 1658
 (E) Second Initial Flow 145 Hourly Standby _____ T-Out 1734
 (F) Second Final Flow 217 Mileage 75 Comments _____
 (G) Final Shut-In 1175 Sampler _____
 (H) Final Hydrostatic 1975 Straddle _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 10 Shale Packer _____
 Initial Shut-In 20 Extra Packer _____
 Final Flow 15 Extra Recorder _____
 Final Shut-In 30 Day Standby _____
 Accessibility _____
 Sub Total 2175 Sub Total 2175 MP/DST Disc# _____

Approved By _____

Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68082

Well Name & No. Jiveneman #2-28 Test No. 4 Date 04/20/2022
 Company Black Oak Exploration Elevation 2891 KB 2886 GL
 Address 1474 S St Paul St Denver, Co 80210
 Co. Rep / Geo. Clayton Camozzi Rig Martin #7
 Location: Sec. 28 Twp 5S Rge. 30W Co. Decatur State Ks

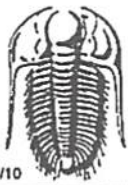
Interval Tested 3978-3999 Zone Tested Lansing F
 Anchor Length 21' Drill Pipe Run 3736 Mud Wt. 9.2
 Top Packer Depth 3973 Drill Collars Run 237 Vis #.58
 Bottom Packer Depth 3978 Wt. Pipe Run 0 WL 64
 Total Depth 3999 Chlorides 800 ppm System LCM 4#
 Blow Description IF 0.4" blow
ISI No return
FF No blow
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Mod</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 Total 3 BHT 112 Gravity — API RW — @ — F Chlorides — ppm
 (A) Initial Hydrostatic 1993 Test 1800 T-On Location 0230
 (B) First Initial Flow 17 Jars 300 T-Started 0329
 (C) First Final Flow 17 Safety Joint _____ T-Open 0535
 (D) Initial Shut-In 26 Circ Sub _____ T-Pulled 0205
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 0852
 (F) Second Final Flow 18 Mileage 75 Comments _____
 (G) Final Shut-In 20 Sampler _____
 (H) Final Hydrostatic 1971 Straddle _____ EM Tool _____
 Initial Open 20 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 15 Extra Recorder _____ Extra Copies _____
 Final Shut-In 20 Day Standby _____ Sub Total 0
 Sub Total 2175 Accessibility _____ Total 2175
 Sub Total 2175 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68083

Well Name & No. Jenenemann #2-28 Test No. 5 Date 04/21/2022
 Company Black Oak Exploration Elevation 2891 KB 2886 GL
 Address 1474 S St Paul St Denver, Co 80210
 Co. Rep / Geo. Clayton Camozzi Rig Morfin #7
 Location: Sec. 28 Twp 5S Rge. 30W Co. Decatur State Ks

Interval Tested 3974-4110 Zone Tested LKC J+K
 Anchor Length 36' Drill Pipe Run 3833 Mud Wt. 9.0
 Top Packer Depth 3969 Drill Collars Run 237 Vis 65
 Bottom Packer Depth 3974 Wt. Pipe Run Ø WL 7.2
 Total Depth 4110 Chlorides 900 ppm System LCM 4#

Blow Description IF 1 3/4" blow
ISF No return
FF 2" blow
FST No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>G MCO</u>	<u>10</u>	<u>50</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 119 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2091</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>2230</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>2309</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0107</u>
(D) Initial Shut-In <u>1139</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0337</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0530</u>
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage <u>75</u>	Comments
(G) Final Shut-In <u>1145</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2084</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool
Initial Open <u>20</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>20</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2325</u>
	Sub Total <u>2325</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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

BLACK OAK



EXPLORATION

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: JUEMENE 2-28
Well Id:
Location: Section 28 - 5S - 30W Decatur Co, Kansas
License Number: API # 15-039-21280
Spud Date: April 14, 2022
Surface Coordinates: 1110' FNL & 1625' FWL
Region: Robertson
Drilling Completed: April 22, 2022

Bottom Hole
Coordinates:
Ground Elevation (ft): 2891' K.B. Elevation (ft): 2895'
Logged Interval (ft): 3680 To: 4693' Total Depth (ft): 4693'
Formation: Lansing Kansas City
Type of Drilling Fluid: Chemical Gel/Polymer Fresh Water -Based

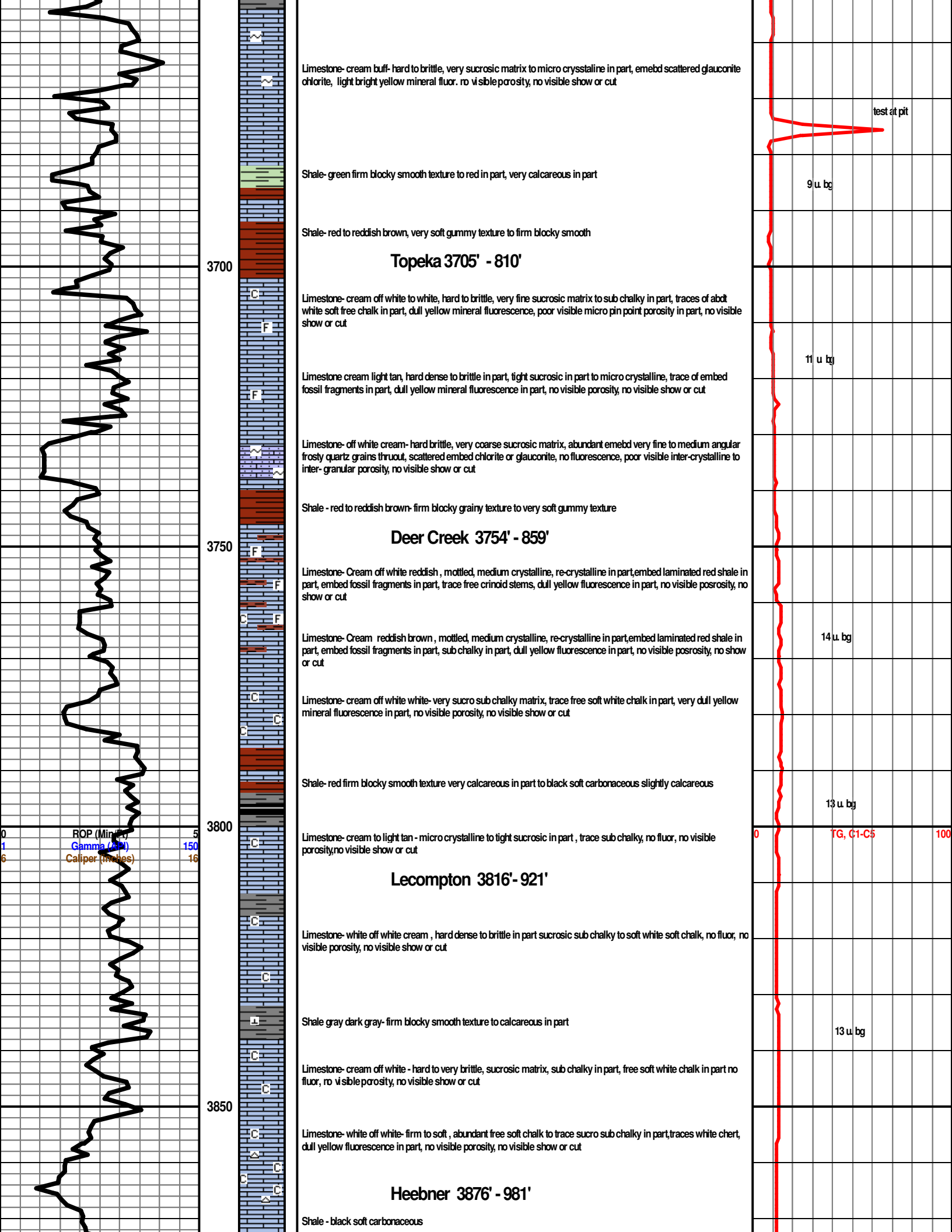
Printed by WellSight LogViewer from WellSight Systems 1-800-447-1534 www.WellSight.com

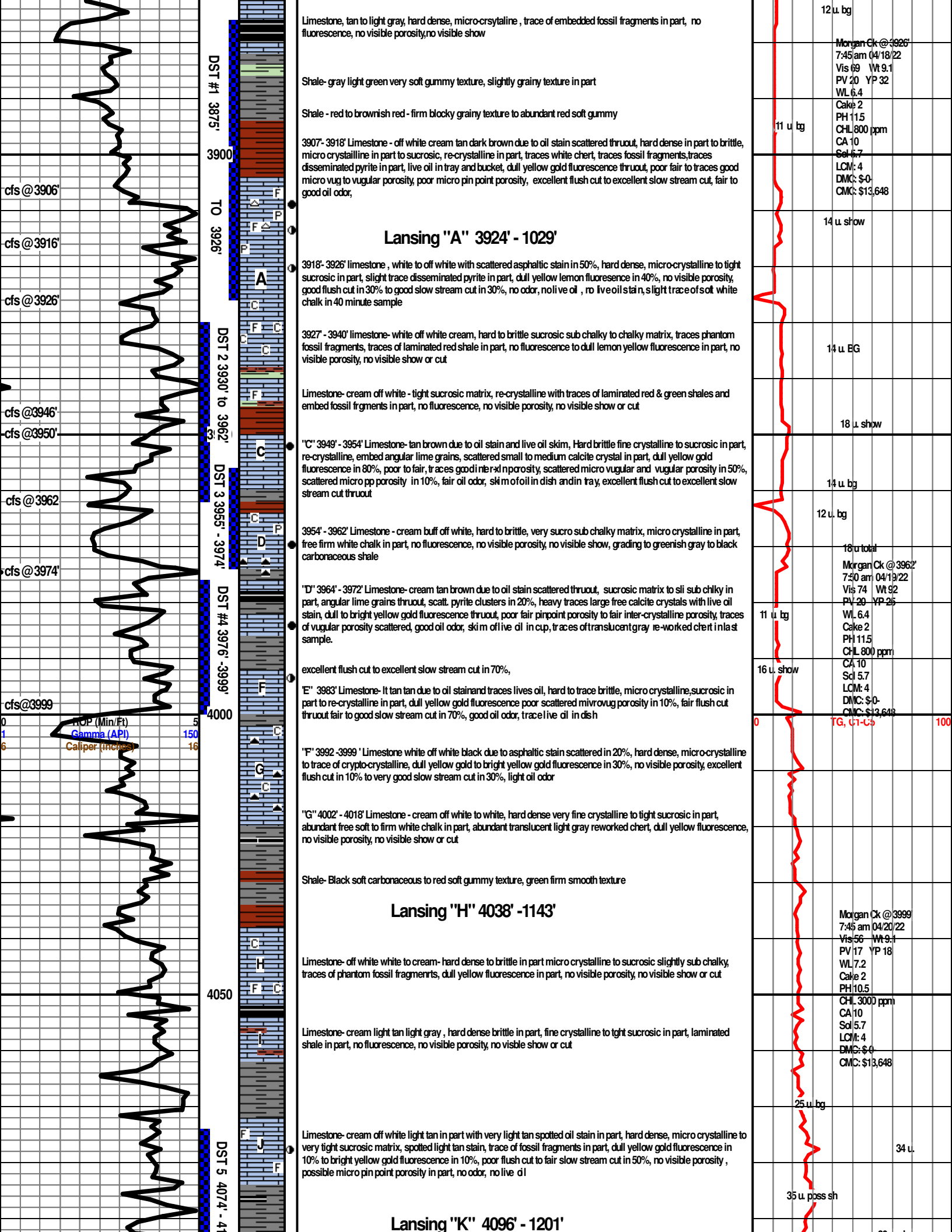
OPERATOR

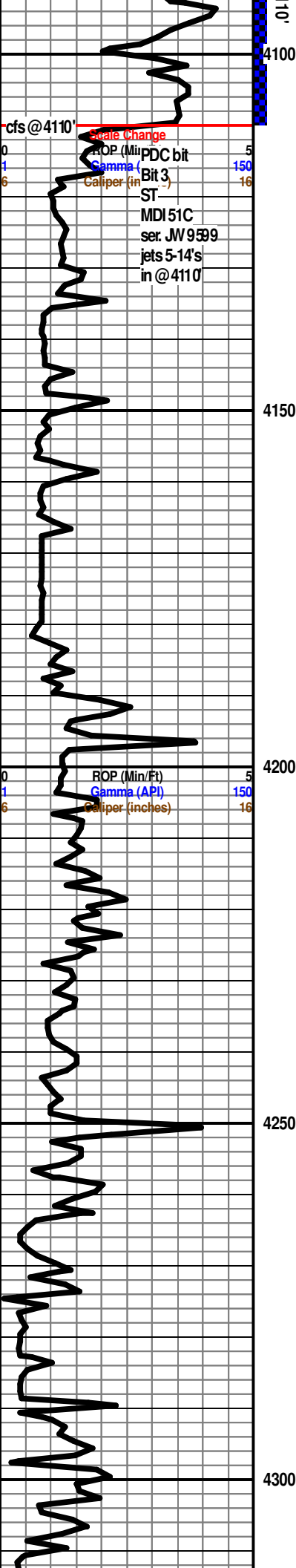
Company: BLACK OAK EXPLORATION, LLC
Address: 1474 S St Paul St
Denver CO 80210

GEOLOGIST

Name: TIM HEDRICK
Company: EARTH TECH OGL, INC
Address: Po BOX 683
Hooker, okla. 73945
580-754-0062 Cell







4096' - 4104' Limestone - cream light tan to tan due to even tan oil stain in 60%, very coarse sucrosic matrix, re-crystalline in part, embed fossil fragments, embed small to medium calcite crystals veragated with live oil stain oil in 15%, dull yellow gold fluorescence in 80%, poor to fair visible micro pin point porosity, poor to trace good inter-xtn, trace microvug porosity, very good flush cut in 80%, excellent slow stream cut in 60%, light oil odor, light oil drops in water

4105' - 4110' Limestone - hard dense white cream, micro crystalline to trace sub lithographic in part, ltoil stain on one faces of rock, dull yellow gold fluorescence in part, fair flush cut on one faces and fair slow stream cut, trace of oil drops on water in cup, light oil odor

Limestone- cream off white to white- hard dense fine to very fine crystalline, sub sucro to sub chalky in part, dull yellow mineral fluorescence, no visible porosity, no viable show

BKC 4140' - 1145'

Shale gray dark gray red, mottled firm blocky grainy texture to soft gummy in part

Note: ran in pdc bit @ 4110, lost all returns after getting to TD, mixed 16# hulls and tripped out 5 stands/ full returns

Limestone - cream light tan hard dense to brittle, sucrosic to sub chalky with abundant free firm chalk, dull yellow mineral fluorescence, no visible porosity, no visible show

Shale- red gray green maroon mottled, firm blocky grainy texture to smooth texture in part

Limestone- cream light tan light gray, hard dense mottled very sucrosic matrix with laminated mottled shales, no fluorescence, no visible porosity, no visible show or cut

Limestone - cream light tan light gray, hard dense sucrosic matrix, fossil fragments in part, embedded laminated and disseminated shale, no fluorescence, no visible show or cut

Shale- Light gray to dark gray to black soft carbonaceous

Pawnee 4250' - 1355'

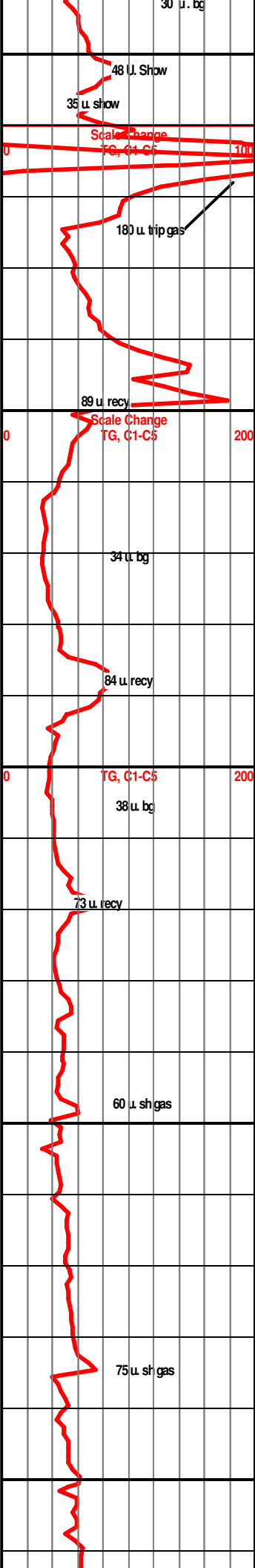
Limestone- off white cream hard brittle, fine crystalline in part to sucrosic sub chalky, abundant free soft white chalk, dull yellow mineral fluorescence, no visible porosity, no visible show or cut

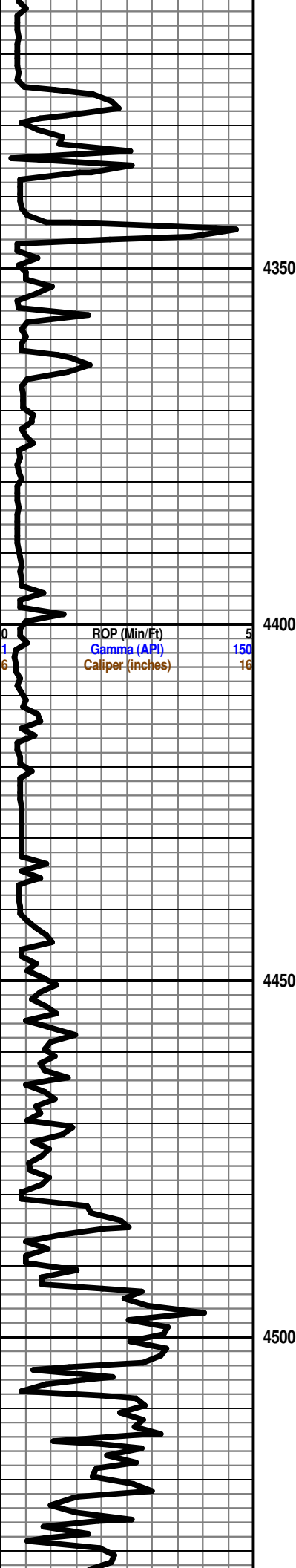
Ft. Scott 4288' - 1393'

Shale gray to black - firm blocky smooth texture to carbonaceous in part

Limestone- cream buff off white, sucrosic in part sub chalky to chalky, trace of fossil fragments in part, dull yellow fluorescence in part, no visible show or cut

Cherokee 4310' - 1415'





Shale black soft carbonaceous to grayish green in part

Limestone - cream off white, hard dense in part to brittle, sucrosic sub chalky matrix, abundant free soft white chalk, light yellow mineral fluorescence, no visible porosity, no visible show or cut

4350

Limestone- white cream light tan, hard dense fine crystalline to very tight sucrosic in part to chalky, abundant white chalk, traces of medium sized free clear subround quartz grains, no fluorescence, no visible porosity, no visible show or cut

Shale red brown green gray- mottled firm blocky grainy texture, silty in part

Limestone- off white cream, hard to brittle sucrosic s-chlky matrix, with free medium grain quartz sub round to sub angular, no fluor no visible porosity, no visible show or cut

4400

ROP (Min/Ft) 5
Gamma (API) 150
Caliper (inches) 16

Shales and silts - mottled red reddish brown very soft gummy texture to very soft silty

Shales red green mustard purple mottled firm blocky smooth texture, traces silty in part

Mississippi 4431' - 1536'

4450

Chert- pink orange white yellow, hard dense no fluorescence, no porosity

Chert- orange pink white hard dense mottled, abundant free chalk in part no fluorescence, no visible porosity,

Limestone- off white to white, hard dense crypto-crystalline translucent white chert, soft white chalk in part, no fluor, no visible porosity, no show

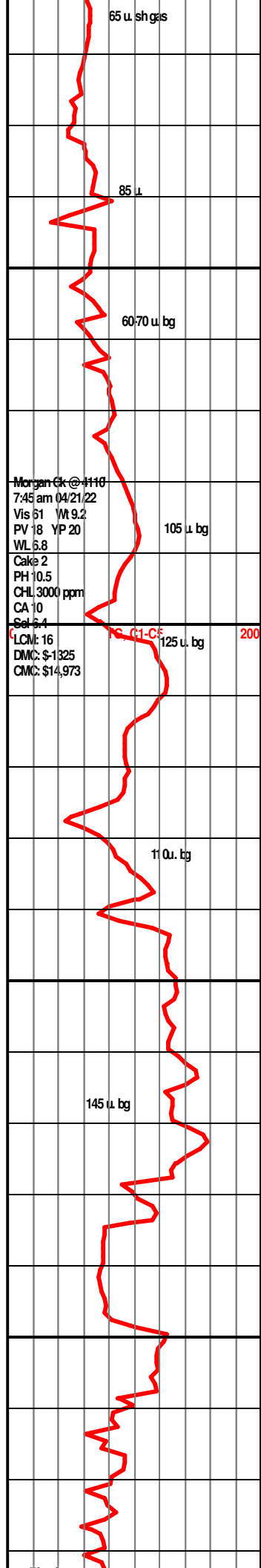
Chert- white hard dense, no fluorescence, no visible porosity,

4500

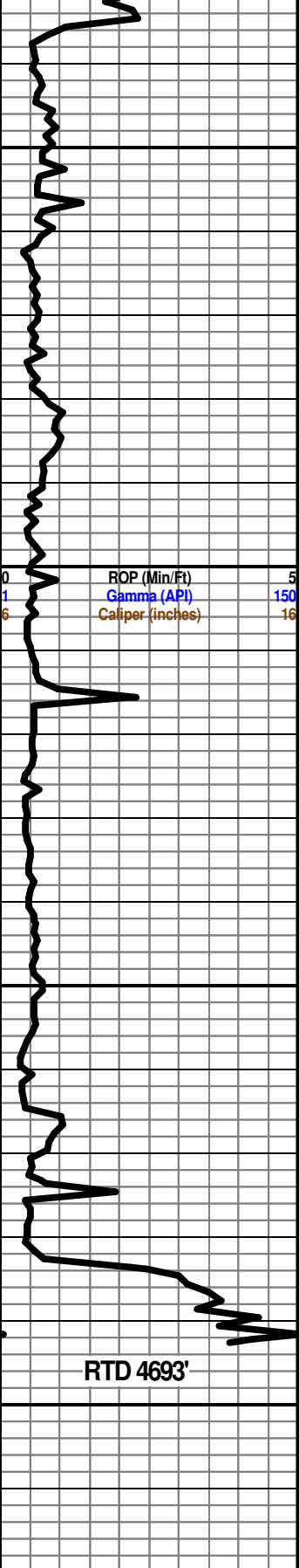
Limestone - white off white, hard dense in part to very sub chalky, abundant free soft white chalk, abundant white translucent slightly re-worked chert, dull yellow mineral fluorescence in part, no visible porosity

Arbuckle 4520' - 1625'

Dolomite- cream, hard dense very fine to fine crystalline to very tight sucrosic in part, dull yellow mineral fluorescence, no visible porosity, no visible show



Morgan Cr @ #110
7:45 am 04/21/22
Vis 51 Wt 9.2
PV 18 YP 20
WL 6.8
Cake 2
PH 10.5
CHL 3000 ppm
CA 10
Sol 5.4
LCM: 16
DMC: \$-1325
CMC: \$14,973



4550
4600
4650
4700



Dolomite- cream, hard very brittle, very sucrosic to coarse sucrosic matrix, very dull yellow mineral fluorescence, fair to good visible inter-crystalline porosity

Dolomite- cream, hard very brittle, very sucrosic to coarse sucrosic matrix, very dull yellow mineral fluorescence, good to very good visible inter-crystalline porosity

Dolomite- cream buff, hard to very brittle, very sucrosic to coarse sucrosic matrix, very dull yellow mineral fluorescence, poor fair to good to very good visible inter-crystalline porosity

Dolomite- cream buff, hard to brittle, very sucrosic matrix to fine crystalline in part, dull yellow mineral fluorescence, poor fair to good inter-crystalline to micro vug porosity in part

Dolomite- cream buff off white pink, hard to brittle, very sucrosic matrix to fine crystalline in part, traces clear medium sized sub round clear quartz grains w/ traces chlorite embed, dull yellow mineral fluorescence, poor fair to good inter-crystalline to micro vug porosity in part

Granite wash 4675' -1780'

Granite 4683' - 1788'

Granite wash- pink to reddish brown to black, Hard dense crypto to very fine crystalline, heavy mineral content thruout, no fluorescence, no visble porosity, no show

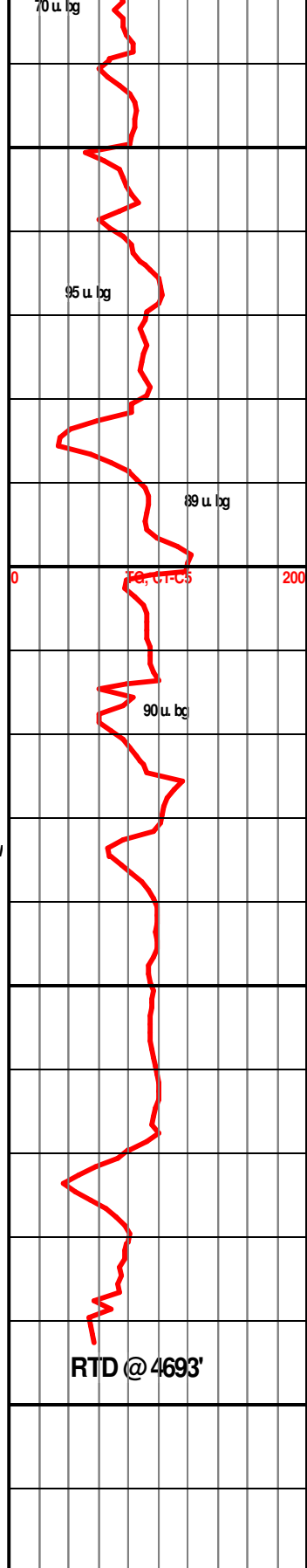
RTD @ 1:15 am, April 22, 2022

CFS / Short Trip

CTCH . Drop survey

TOFL/ Midwest wireline

RTD 4693'



RTD @ 4693'