

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	Black Oak Exploration
Well Name	FRISBIE FAMILY 1-14
Doc ID	1519177

All Electric Logs Run

BHCS
DUCP
DIL
MEL



CEMENT TREATMENT REPORT

Customer:	Black Oak	Well:	FrisbieFamily 1-14	Ticket:	ICT 3148
City, State:		County:	Rawlins KS	Date:	1/22/2020
Field Rep:		S-T-R:	14-2S-36W	Service:	Longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4885 ft
Casing Size:	5 1/2 in
Casing Depth:	4852 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	114.5 bbls

Calculated Slurry	
Weight:	14.6 # / sx
Water / Sx:	gal / sx
Yield:	1.56 ft ³ / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	69.5 bbls
Total Sacks:	250 sx

Product	% / #	#
Class A		
Poz		
Gel		
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		
Total		-

TIME	RATE	PSI	BBLs	REMARKS
700P				ON LOCATION
710P				GET THE FOLLOWING INFO FROM CO MAN: 7 7/8 OPEN HOLE, 5 1/2 15.5# CASING (RACK VERIFIED), 4885 FT TD, 4852 FT CAS
				43.14 FT SHOE JOINT TURBOLIZERS ON JOINTS 2, 5, 8, 12, 14, BASKETS ON JOINTS 4, 27, 40, 74, 94
917P				CASING ON BOTTOM
950P				CIRCULATE 1 HR DROP BALL CIRCULATE 30 MINS
1000P				EQUIPMENT ARRIVES ON LOCATION
1010P				SAFETY MEETING
1020P				RIG UP
1146P	3.1	180.0	5.0	H2O AHEAD
1149P	3.1	180.0	12.0	MUDFLUSH
1152P	3.1	190.0	5.0	H2O SPACER
1155P	6.5	310.0	114.0	LEAD CEMENT 320 SKS H-CON 25 SKS IN MOUSE HOLE 50 SKS IN RATHOLE
1218A	3.7	150.0	88.9	TAIL CEMENT 250 SKS HSC
1253A				SHUT DOWN
1255A				WASH PUMP AND LINES/DROP PLUG
100A	5.5	110.0	25.0	DISPLACE H2O
106A	6.0	700.0	25.0	DISPLACE H2O
110A	6.0	1,120.0	25.0	DISPLACE H2O
115A	5.0	1,600.0	25.0	DISPLACE H2O
117A	5.0	1,740.0	10.0	DISPLACE H2O CEMENT TO SURFACE 15 BBLs
119A	4.0	1,680.0	4.0	DISPLACE H2O
120A		3,000.0		PLUG LANDED
122A				CHECK FLOATS THEY HELD
130A				RIG DOWN
150A				LEFT LOCATION

CREW		UNIT	SUMMARY		
Cementer:	Jimmie Cottrell	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jesse Jones	231	4.63636 bpm	913 psi	339 bbls
Bulk #1:	John Polley	194/254			
Bulk #2:	Jeff Jackson	180/250			



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration**

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

Frisbie Family #1-14

14-2s-36w Rawlins,KS

Start Date: 2020.01.14 @ 17:50:00

End Date: 2020.01.15 @ 01:21:39

Job Ticket #: 65649 DST #: 1

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

Printed: 2020.01.22 @ 09:09:47

Black Oak Exploration

14-2s-36w Rawlins,KS

Frisbie Family #1-14

DST # 1

LeCompton

2020.01.14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

ATTN: Clayton Camozzi

Job Ticket: 65649

DST#: 1

Test Start: 2020.01.14 @ 17:50:00

GENERAL INFORMATION:

Formation: **LeCompton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:02:20

Time Test Ended: 01:21:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 4065.00 ft (KB) To 4135.00 ft (KB) (TVD)

Reference Elevations: 3320.00 ft (KB)

Total Depth: 4135.00 ft (KB) (TVD)

3315.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 110.43 psig @ 4066.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.14

End Date:

2020.01.15

Last Calib.: 2020.01.15

Start Time: 17:50:01

End Time:

01:21:40

Time On Btm: 2020.01.14 @ 20:02:00

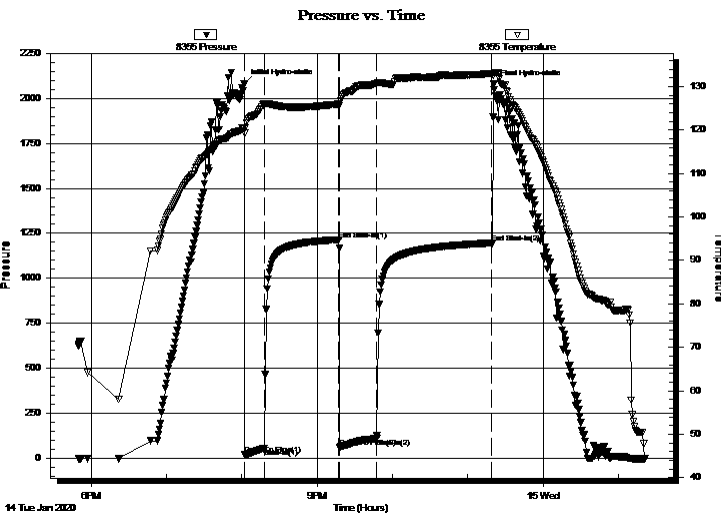
Time Off Btm: 2020.01.14 @ 23:20:39

TEST COMMENT: 15-IF-1/2" Blow @ open built to 4"

60-ISI-No blow back

30-FF-Blow built to 4 1/2"

90-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.56	120.22	Initial Hydro-static
1	20.96	119.31	Open To Flow (1)
16	56.68	125.91	Shut-In(1)
76	1215.43	125.99	End Shut-In(1)
76	63.47	125.65	Open To Flow (2)
106	110.43	130.72	Shut-In(2)
198	1196.68	133.02	End Shut-In(2)
199	2078.86	132.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WGM W/oil spots 8%G, 2%W, 90%M	0.59
75.00	GM W/oil spots 8%G, 92%M	0.51

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Black Oak Exploration

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

14-2s-36w Rawlins, KS

Frisbie Family #1-14

Job Ticket: 65649

DST#: 1

Test Start: 2020.01.14 @ 17:50:00

GENERAL INFORMATION:

Formation: **LeCompton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:02:20

Time Test Ended: 01:21:39

Interval: **4065.00 ft (KB) To 4135.00 ft (KB) (TVD)**

Total Depth: 4135.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Shawn Wheelbarger

Unit No: 76

Reference Elevations: 3320.00 ft (KB)

3315.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8645 Inside

Press@RunDepth: psig @ 4066.00 ft (KB)

Start Date: 2020.01.14

End Date:

2020.01.15

Capacity: 8000.00 psig

Last Calib.:

2020.01.15

Start Time: 17:50:01

End Time:

01:22:10

Time On Btm:

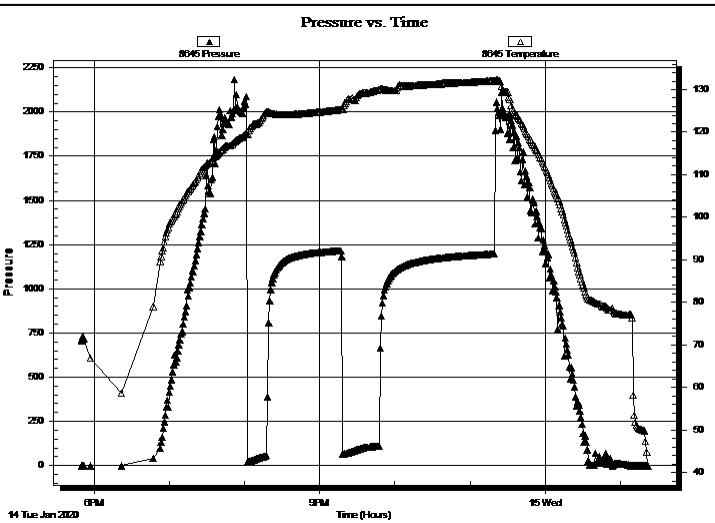
Time Off Btm:

TEST COMMENT: 15-IF-1/2" Blow @ open built to 4"

60-ISI-No blow back

30-FF-Blow built to 4 1/2"

90-FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WGM W/oil spots 8%G, 2%W, 90%M	0.59
75.00	GM W/oil spots 8%G, 92%M	0.51

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 65649

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2020.01.14 @ 17:50:00

Tool Information

Drill Pipe:	Length: 3867.00 ft	Diameter: 3.80 inches	Volume: 54.24 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 55.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4065.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	98.00 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			4038.00	
Shut In Tool	5.00			4043.00	
Hydraulic tool	5.00		Inside	4048.00	
Jars	5.00			4053.00	
Safety Joint	2.00			4055.00	
Packer	5.00			4060.00	28.00 Bottom Of Top Packer
Packer	5.00			4065.00	
Stubb	1.00			4066.00	
Recorder	0.00	8355	Outside	4066.00	
Recorder	0.00	8645	Inside	4066.00	
Perforations	32.00			4098.00	
Change Over Sub	1.00			4099.00	
Drill Pipe	32.00			4131.00	
Change Over Sub	1.00			4132.00	
Bullnose	3.00			4135.00	70.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 65649

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2020.01.14 @ 17:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 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
120.00	WGM W/oil spots 8%G, 2%W, 90%M	0.590
75.00	GM W/oil spots 8%G, 92%M	0.515

Total Length: 195.00 ft

Total Volume: 1.105 bbl

Num Fluid Samples: 0

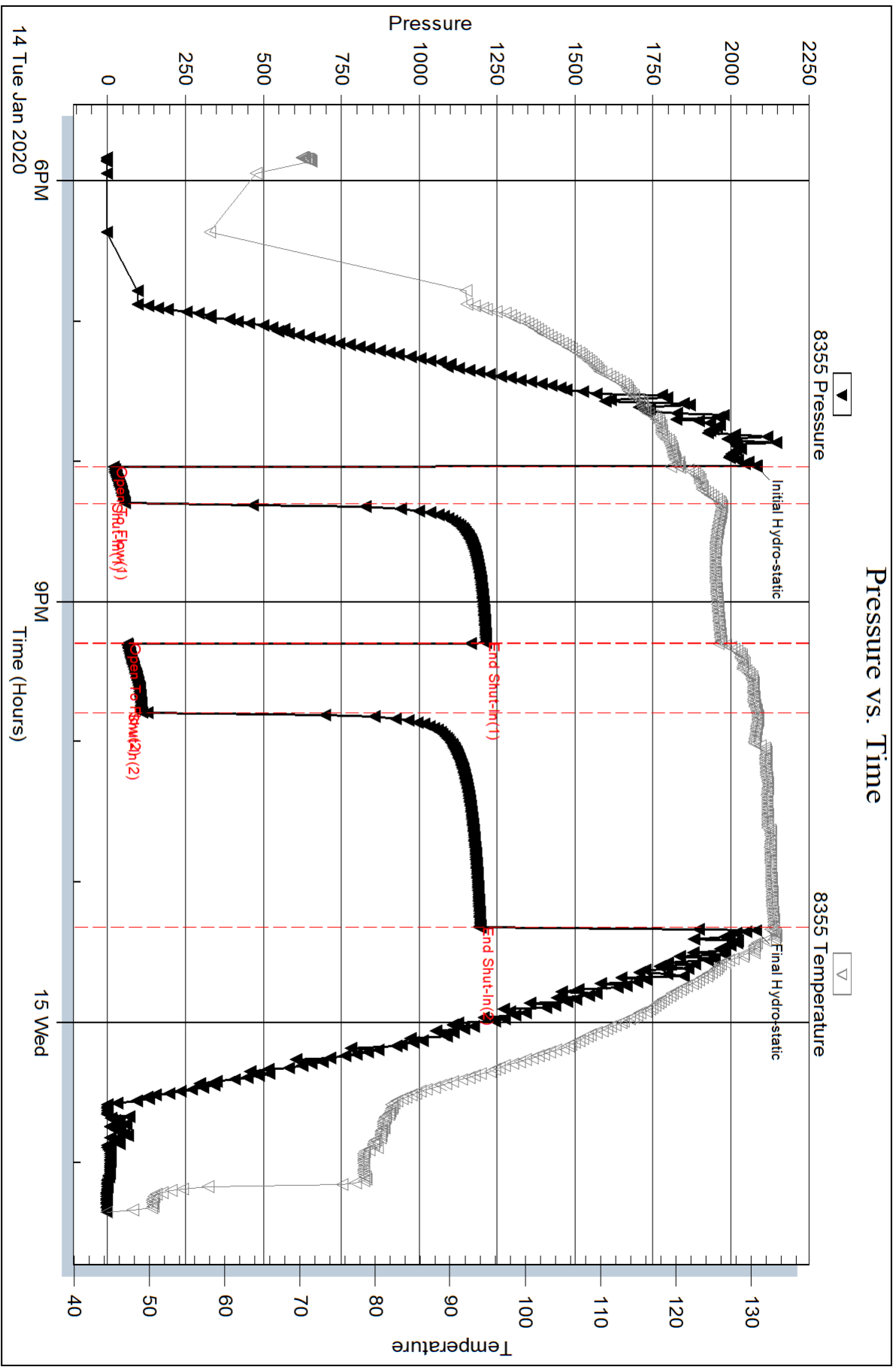
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



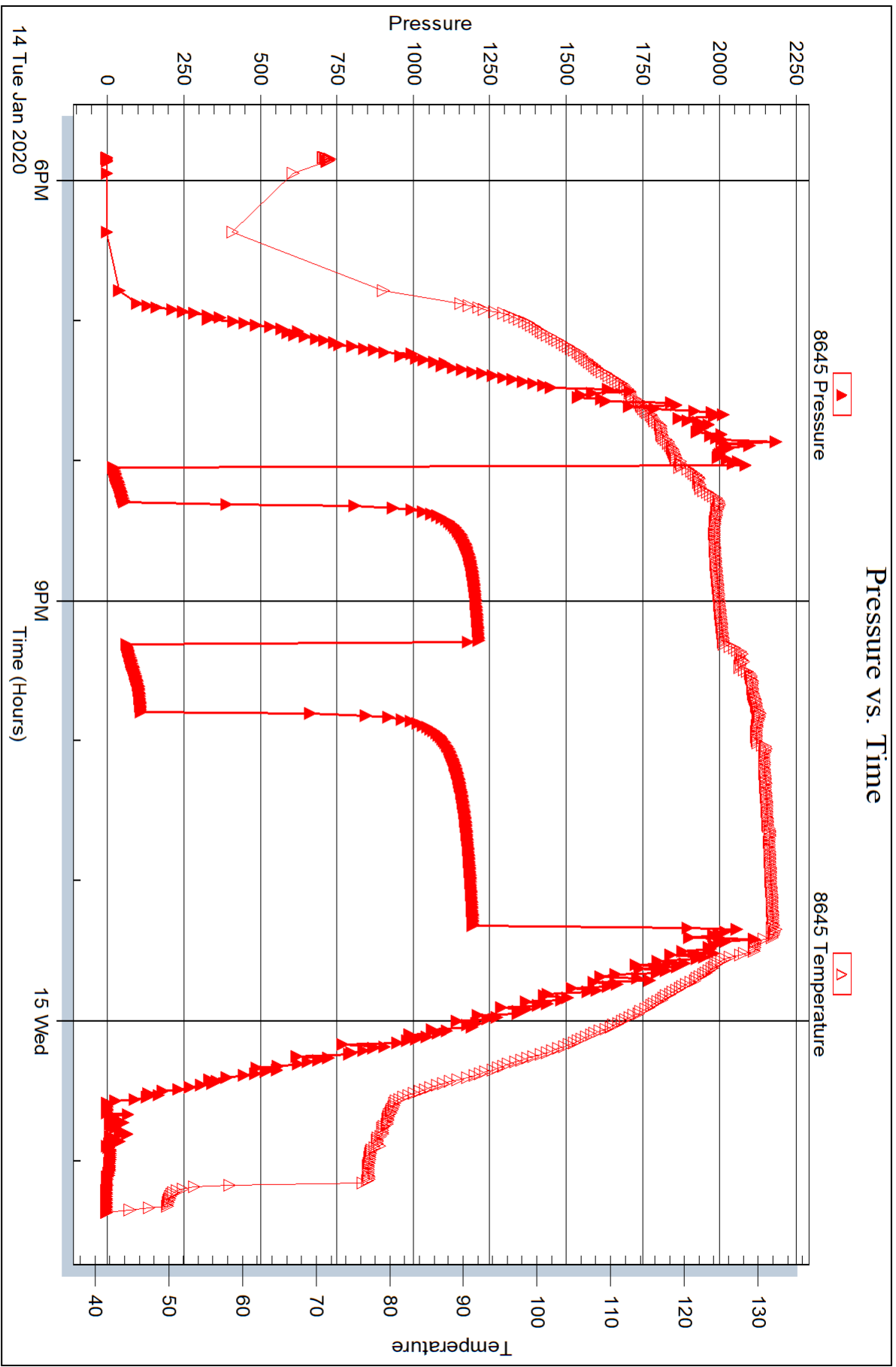
Serial #: 8645

Inside

Black Oak Exploration

Friskie Family #1 - 14

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65649

Printed: 2020.01.22 @ 09:09:49



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration**

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

Frisbie Family #1-14

14-2s-36w Rawlins,KS

Start Date: 2020.01.15 @ 09:49:00

End Date: 2020.01.15 @ 16:43:39

Job Ticket #: 65650 DST #: 2

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

Printed: 2020.01.22 @ 09:07:16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

ATTN: Clayton Camozzi

Job Ticket: 65650

DST#: 2

Test Start: 2020.01.15 @ 09:49:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:38:30

Time Test Ended: 16:43:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 4120.00 ft (KB) To 4175.00 ft (KB) (TVD)

Reference Elevations: 3320.00 ft (KB)

Total Depth: 4175.00 ft (KB) (TVD)

3315.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 26.00 psig @ 4121.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.15 End Date: 2020.01.15

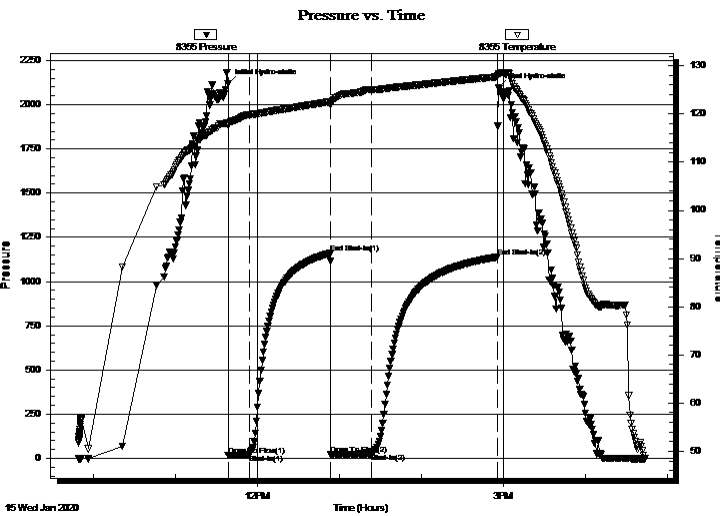
Last Calib.: 2020.01.15

Start Time: 09:49:01 End Time: 16:43:40

Time On Btm: 2020.01.15 @ 11:38:20

Time Off Btm: 2020.01.15 @ 14:56:30

TEST COMMENT: 15-IF-1/4" Blow @ open slow build to 1"
60-ISI-Weak surface blow @ 7 min declined @ 44 mins
30-FF-Weak surface blow built to 1/2"
90-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.07	118.13	Initial Hydro-static
1	17.09	117.55	Open To Flow (1)
16	20.05	119.88	Shut-In(1)
75	1159.55	122.55	End Shut-In(1)
76	21.49	122.01	Open To Flow (2)
106	26.00	125.01	Shut-In(2)
198	1137.73	127.71	End Shut-In(2)
199	2097.88	128.20	Final Hydro-static

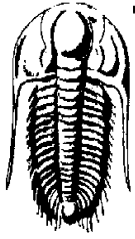
Recovery

Length (ft)	Description	Volume (bbl)
5.00	GSOCM 2%G, 8%O, 90%M	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 65650

DST#: 2

ATTN: Clayton Camozzi

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3315.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8645 Inside

Press@RunDepth: psig @ 4121.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.15 End Date: 2020.01.15

Last Calib.: 2020.01.15

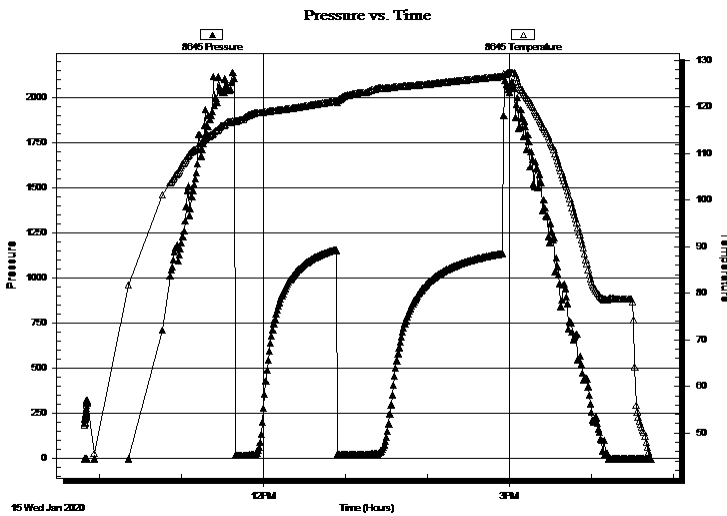
Start Time: 09:49:01 End Time: 16:43:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-1/4" Blow @ open slow build to 1"
60-ISI-Weak surface blow @ 7 min declined @ 44 mins
30-FF-Weak surface blow built to 1/2"
90-FSI-No blow back

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	GSOCM 2%G, 8%O, 90%M	0.02

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 65650

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2020.01.15 @ 09:49:00

Tool Information

Drill Pipe:	Length: 3931.00 ft	Diameter: 3.80 inches	Volume: 55.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 56.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4120.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			4093.00	
Shut In Tool	5.00			4098.00	
Hydraulic tool	5.00		Inside	4103.00	
Jars	5.00			4108.00	
Safety Joint	2.00			4110.00	
Packer	5.00			4115.00	28.00 Bottom Of Top Packer
Packer	5.00			4120.00	
Stubb	1.00			4121.00	
Recorder	0.00	8355	Outside	4121.00	
Recorder	0.00	8645	Inside	4121.00	
Perforations	17.00			4138.00	
Change Over Sub	1.00			4139.00	
Drill Pipe	32.00			4171.00	
Change Over Sub	1.00			4172.00	
Bullnose	3.00			4175.00	55.00 Bottom Packers & Anchor

Total Tool Length: 83.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 65650

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2020.01.15 @ 09:49:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 74.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.38 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
5.00	GSOCM 2%G, 8%O, 90%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

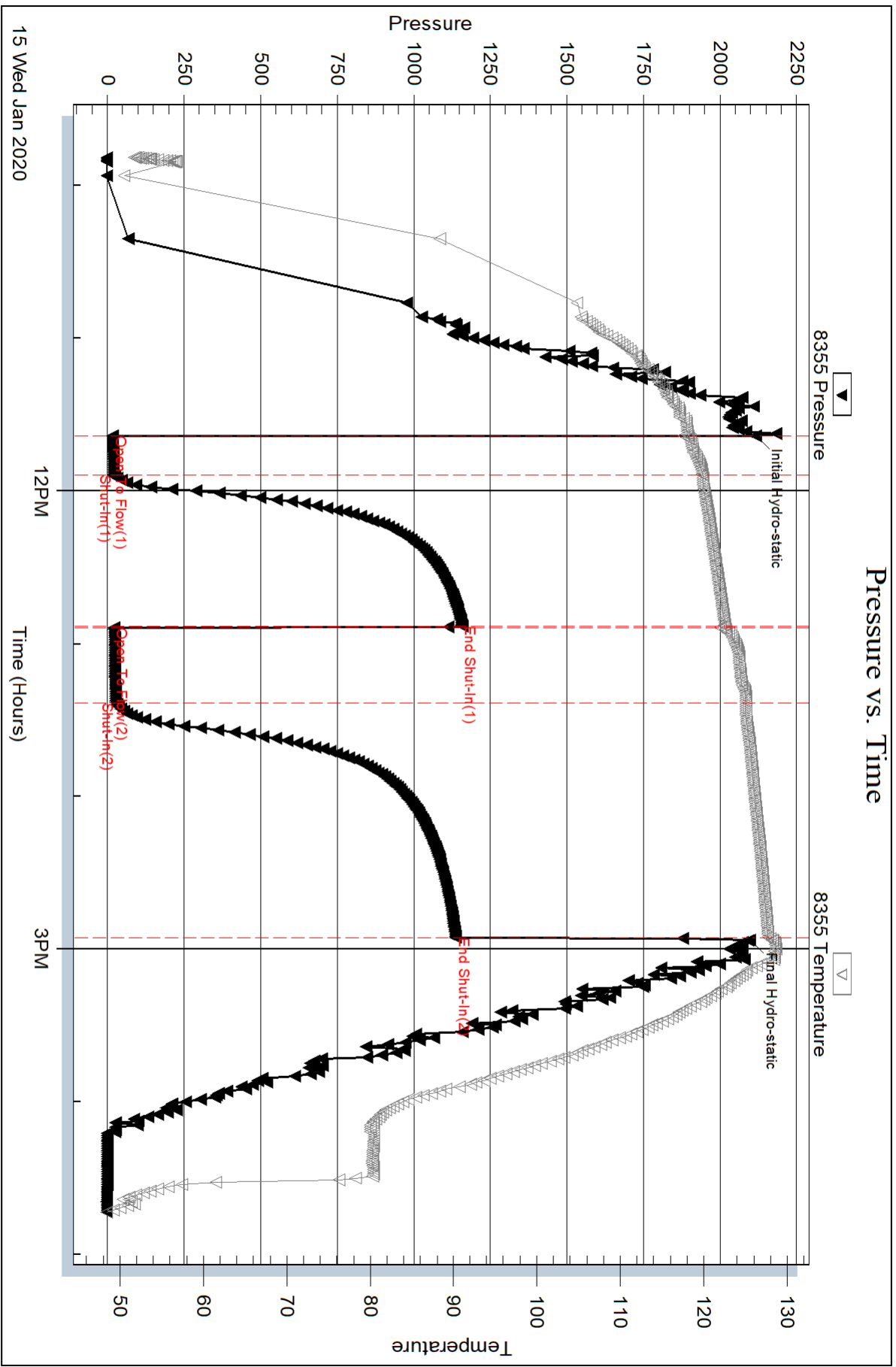
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



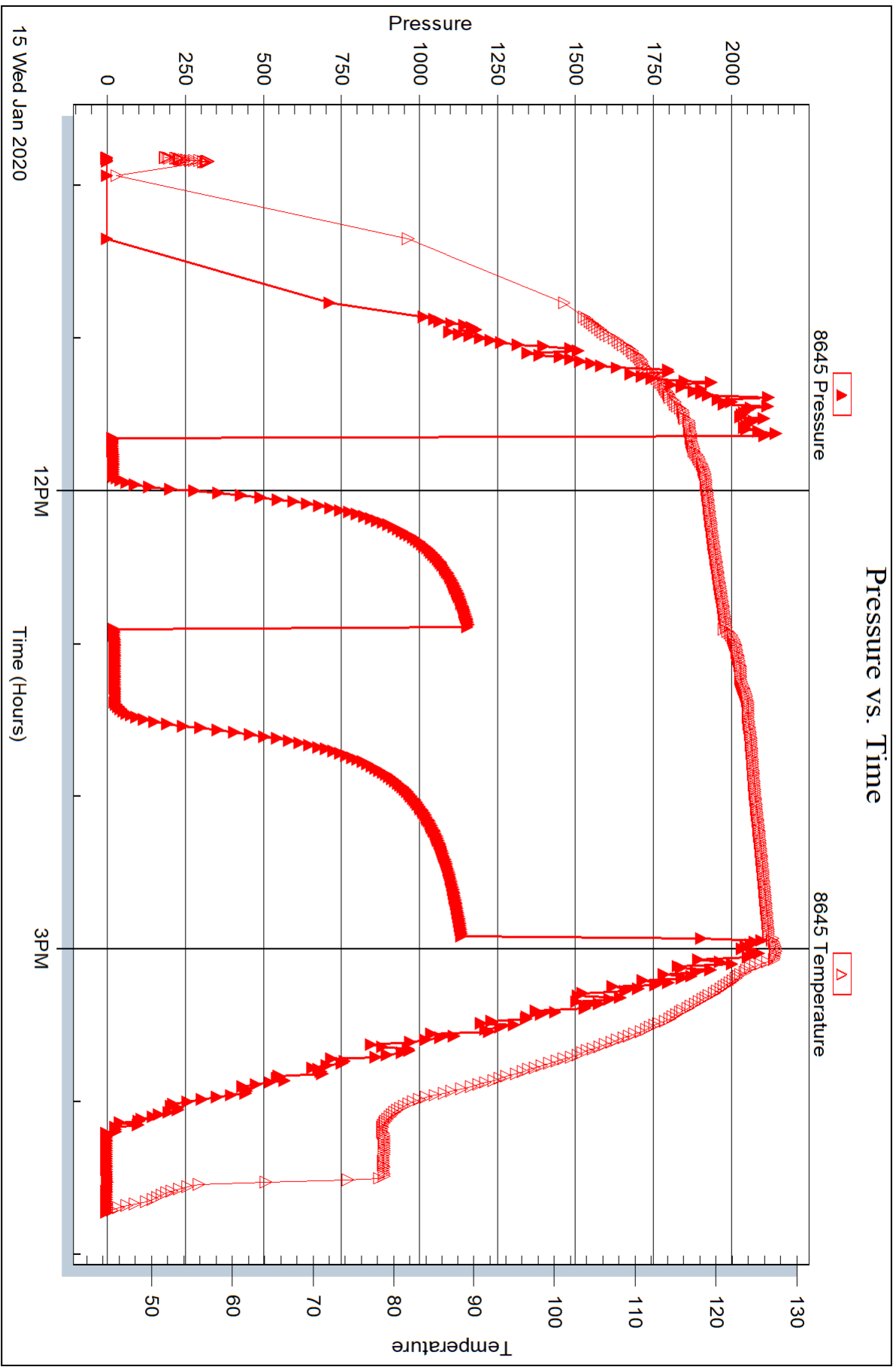
Serial #: 8645

Inside

Black Oak Exploration

Friskie Family #1-14

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65650

Printed: 2020.01.22 @ 09:07:17



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration**

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

Frisbie Family #1-14

14-2s-36w Rawlins,KS

Start Date: 2020.01.16 @ 05:26:00

End Date: 2020.01.16 @ 12:56:20

Job Ticket #: 66001 DST #: 3

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

Printed: 2020.01.22 @ 09:00:09

Black Oak Exploration

14-2s-36w Rawlins,KS

Frisbie Family #1-14

DST # 3

Lansing A

2020.01.16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

ATTN: Clayton Camozzi

Job Ticket: 66001

DST#: 3

Test Start: 2020.01.16 @ 05:26:00

GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:50:20

Time Test Ended: 12:56:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 4234.00 ft (KB) To 4276.00 ft (KB) (TVD)

Reference Elevations: 3320.00 ft (KB)

Total Depth: 4276.00 ft (KB) (TVD)

3315.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 251.55 psig @ 4235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.16 End Date: 2020.01.16

Last Calib.: 2020.01.16

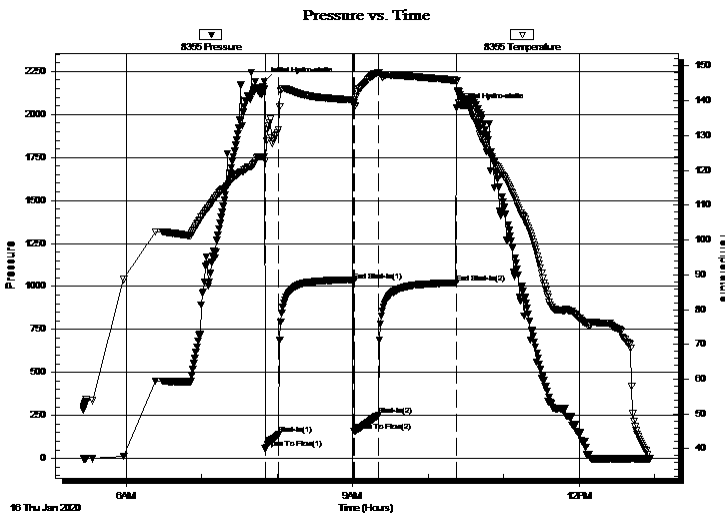
Start Time: 05:26:01 End Time: 12:56:20

Time On Btm: 2020.01.16 @ 07:49:50

Time Off Btm: 2020.01.16 @ 10:22:50

TEST COMMENT: 10-IF-2" Blow @ open BOB in 4 min 15 sec blow built to 22 1/4"
60-ISI-Blow built to 6 1/2" in 37 min declined to 5"
20-FF-BOB in 9 min 30 sec blow built to 26 3/4"
60-FSI-Blow built to 7 1/4" in 41 min declined to 6"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.29	123.90	Initial Hydro-static
1	56.31	122.80	Open To Flow (1)
12	138.14	131.61	Shut-In(1)
71	1032.41	140.21	End Shut-In(1)
72	156.83	138.32	Open To Flow (2)
91	251.55	148.14	Shut-In(2)
153	1020.52	145.81	End Shut-In(2)
154	2037.52	145.64	Final Hydro-static

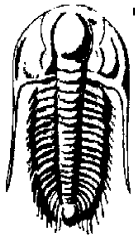
Recovery

Length (ft)	Description	Volume (bbl)
121.00	GWMO 18%G, 30%O, 22%W, 30%M	0.60
375.00	GMO 12%G, 72%O, 16%M	4.73
32.00	GO 7%G, 93%O	0.45
0.00	GIP 378 Ft	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Black Oak Exploration

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

14-2s-36w Rawlins,KS

Frisbie Family #1-14

Job Ticket: 66001

DST#: 3

Test Start: 2020.01.16 @ 05:26:00

GENERAL INFORMATION:

Formation: **Lansing A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:50:20
 Time Test Ended: 12:56:20
 Interval: **4234.00 ft (KB) To 4276.00 ft (KB) (TVD)**
 Total Depth: 4276.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shawn Wheelbarger
 Unit No: 76
 Reference Elevations: 3320.00 ft (KB)
 3315.00 ft (CF)
 KB to GR/CF: 5.00 ft

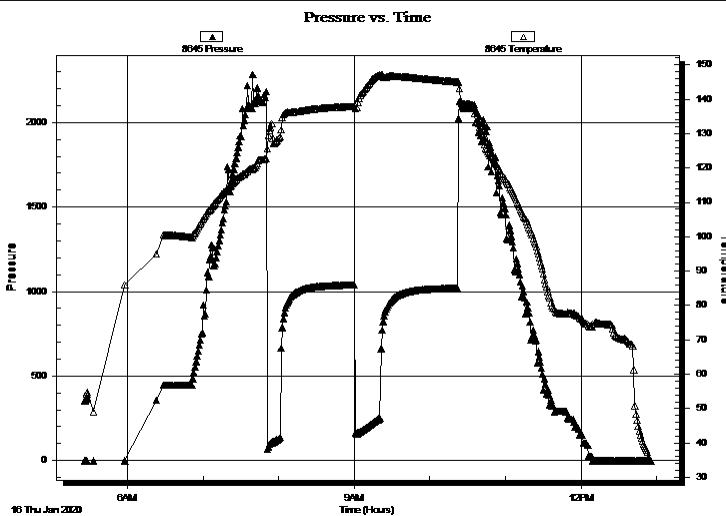
Serial #: 8645

Inside

Press@RunDepth: psig @ 4235.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2020.01.16 End Date: 2020.01.16	Last Calib.: 2020.01.16
Start Time: 05:26:01 End Time: 12:55:50	Time On Btm: Time Off Btm:

TEST COMMENT: 10-IF-2" Blow @ open BOB in 4 min 15 sec blow built to 22 1/4"
 60-ISI-Blow built to 6 1/2" in 37 min declined to 5"
 20-FF-BOB in 9 min 30 sec blow built to 26 3/4"
 60-FSI-Blow built to 7 1/4" in 41 min declined to 6"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
121.00	GWMO 18%G, 30%O, 22%W, 30%M	0.60
375.00	GMO 12%G, 72%O, 16%M	4.73
32.00	GO 7%G, 93%O	0.45
0.00	GIP 378 Ft	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66001

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2020.01.16 @ 05:26:00

Tool Information

Drill Pipe:	Length: 4058.00 ft	Diameter: 3.80 inches	Volume: 56.92 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 57.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4234.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4207.00	
Shut In Tool	5.00			4212.00	
Hydraulic tool	5.00		Inside	4217.00	
Jars	5.00			4222.00	
Safety Joint	2.00			4224.00	
Packer	5.00			4229.00	28.00 Bottom Of Top Packer
Packer	5.00			4234.00	
Packer - Shale	0.00			4234.00	
Stubb	1.00			4235.00	
Recorder	0.00	8355	Outside	4235.00	
Recorder	0.00	8645	Inside	4235.00	
Perforations	5.00			4240.00	
Change Over Sub	1.00			4241.00	
Drill Pipe	31.00			4272.00	
Change Over Sub	1.00			4273.00	
Bullnose	3.00			4276.00	42.00 Bottom Packers & Anchor
Total Tool Length:	70.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66001

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2020.01.16 @ 05:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

46000 ppm

Viscosity: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 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 bbbl
121.00	GWMO 18%G, 30%O, 22%W, 30%M	0.595
375.00	GMO 12%G, 72%O, 16%M	4.732
32.00	GO 7%G, 93%O	0.449
0.00	GIP 378 Ft	0.000

Total Length: 528.00 ft Total Volume: 5.776 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

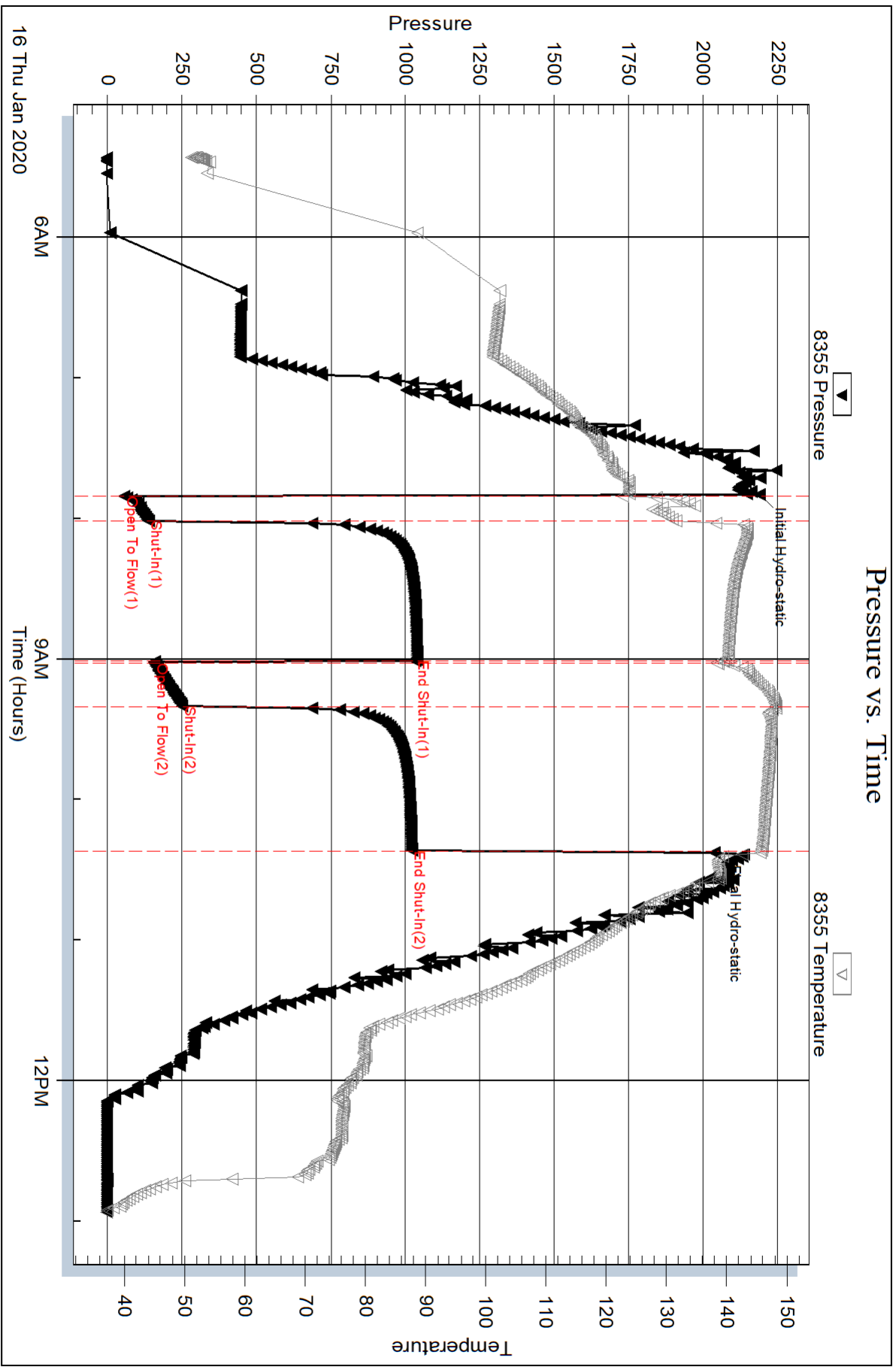
Recovery Comments: Oil API 27.4 @ 4 DEG F Adjusted to 27.6 API
RW.375 @ 30.5 DEG F Chlorides 46000 PPM

Serial #: 8355

Outside Black Oak Exploration

Frisbie Family #1 - 14

DST Test Number: 3



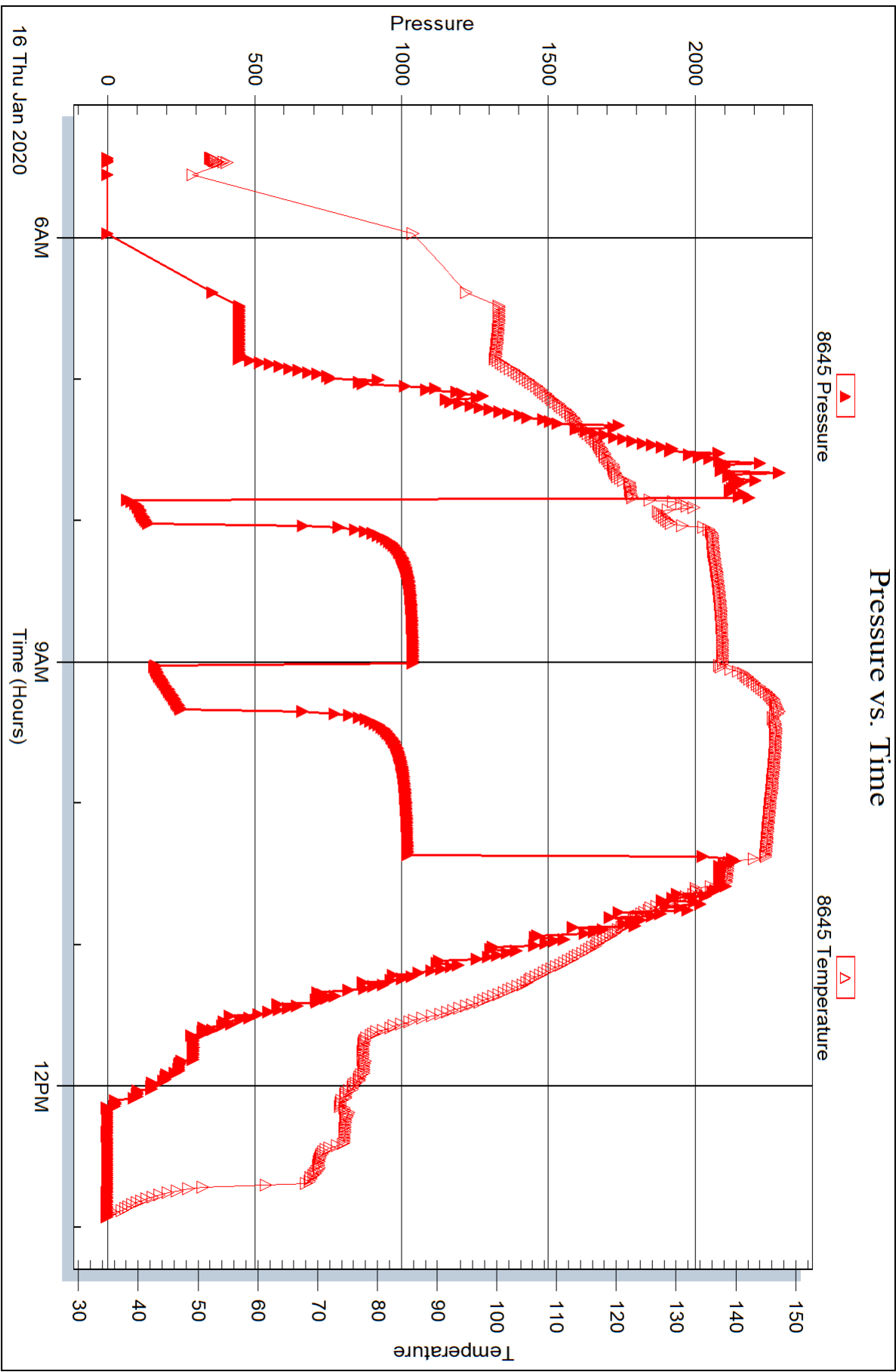
Serial #: 8645

Inside

Black Oak Exploration

Friskie Family #1 - 14

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration**

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

Frisbie Family #1-14

14-2s-36w Rawlins,KS

Start Date: 2020.01.16 @ 23:09:00

End Date: 2020.01.17 @ 05:27:00

Job Ticket #: 66002 DST #: 4

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

Printed: 2020.01.22 @ 08:58:58

Black Oak Exploration

14-2s-36w Rawlins,KS

Frisbie Family #1-14

DST # 4

Lansing D

2020.01.16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

ATTN: Clayton Camozzi

Job Ticket: 66002

DST#: 4

Test Start: 2020.01.16 @ 23:09:00

GENERAL INFORMATION:

Formation: **Lansing D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:07:00

Time Test Ended: 05:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 4320.00 ft (KB) To 4335.00 ft (KB) (TVD)

Reference Elevations: 3320.00 ft (KB)

Total Depth: 4335.00 ft (KB) (TVD)

3315.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 169.45 psig @ 4321.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.16

End Date:

2020.01.17

Last Calib.: 2020.01.17

Start Time: 23:09:01

End Time:

05:27:00

Time On Btm: 2020.01.17 @ 01:06:20

Time Off Btm: 2020.01.17 @ 03:04:50

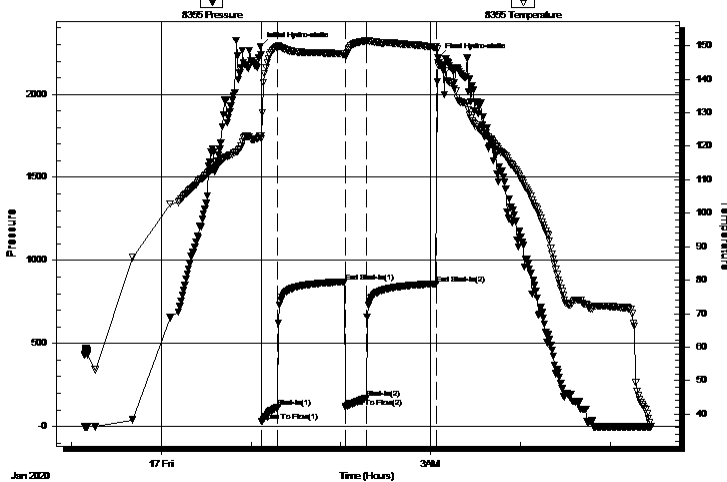
TEST COMMENT: 10-IF-3/4" Blow @ open built to 2"

45-ISI-No blow back

15-FF-Medium surface blow

45-FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2287.30	123.06	Initial Hydro-static
1	29.94	122.17	Open To Flow (1)
12	114.43	149.64	Shut-In(1)
57	870.87	147.50	End Shut-In(1)
57	114.20	147.06	Open To Flow (2)
71	169.45	151.39	Shut-In(2)
118	859.78	149.61	End Shut-In(2)
119	2220.08	145.00	Final Hydro-static

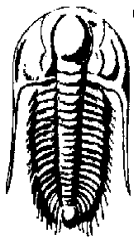
Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCMW 11%O,49%W,40%M	0.59
186.00	SOMW 9%O, 81%W,10%M	2.07
48.00	Oil 100%	0.67

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

ATTN: Clayton Camozzi

Job Ticket: 66002

DST#: 4

Test Start: 2020.01.16 @ 23:09:00

GENERAL INFORMATION:

Formation: **Lansing D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:07:00

Time Test Ended: 05:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 4320.00 ft (KB) To 4335.00 ft (KB) (TVD)

Reference Elevations: 3320.00 ft (KB)

Total Depth: 4335.00 ft (KB) (TVD)

3315.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8645 Inside

Press@RunDepth: psig @ 4321.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.16 End Date: 2020.01.17

Last Calib.: 2020.01.17

Start Time: 23:09:01 End Time: 05:26:50

Time On Btm:

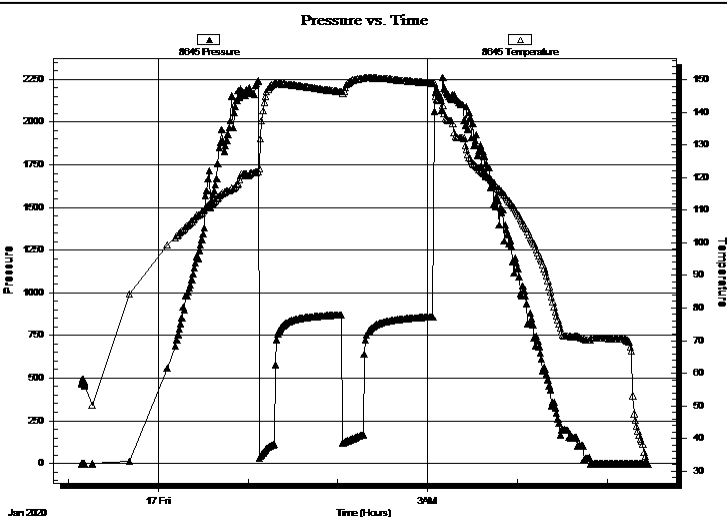
Time Off Btm:

TEST COMMENT: 10-IF-3/4" Blow @ open built to 2"

45-ISI-No blow back

15-FF-Medium surface blow

45-FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCMW 11%O,49%W,40%M	0.59
186.00	SOMW 9%O, 81%W,10%M	2.07
48.00	Oil 100%	0.67

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

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66002

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2020.01.16 @ 23:09:00

Tool Information

Drill Pipe:	Length: 4121.00 ft	Diameter: 3.80 inches	Volume: 57.81 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 58.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4320.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	43.00 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			4293.00	
Shut In Tool	5.00			4298.00	
Hydraulic tool	5.00		Inside	4303.00	
Jars	5.00			4308.00	
Safety Joint	2.00			4310.00	
Packer	5.00			4315.00	28.00 Bottom Of Top Packer
Packer	5.00			4320.00	
Stubb	1.00			4321.00	
Recorder	0.00	8355	Outside	4321.00	
Recorder	0.00	8645	Inside	4321.00	
Perforations	11.00			4332.00	
Bullnose	3.00			4335.00	15.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66002

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2020.01.16 @ 23:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21.3 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

36000 ppm

Viscosity: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 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
120.00	OCMW 11%O,49%W,40%M	0.590
186.00	SOMW 9%O, 81%W,10%M	2.072
48.00	Oil 100%	0.673

Total Length: 354.00 ft Total Volume: 3.335 bbl

Num Fluid Samples: 0

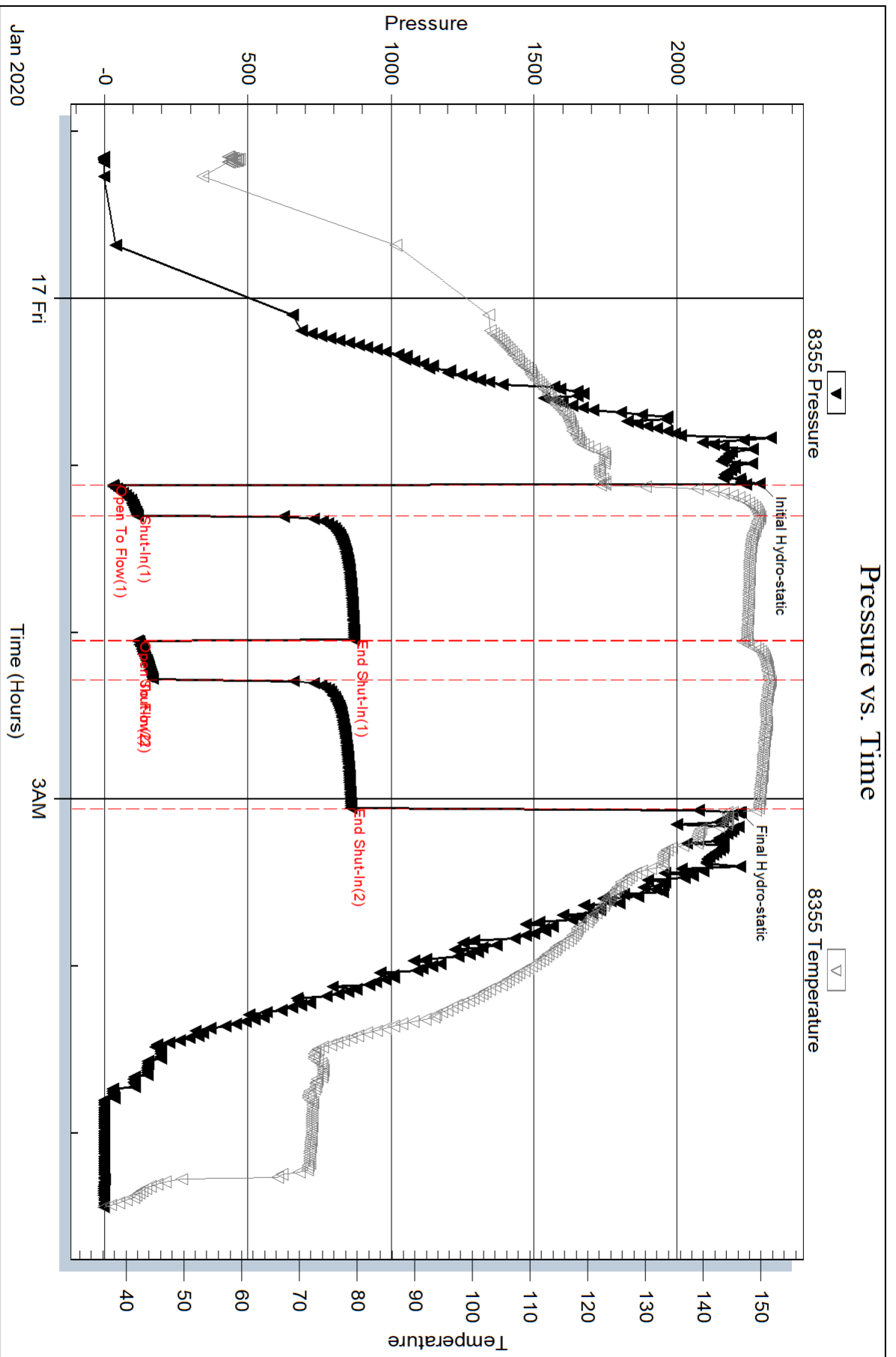
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 18.8 @ 35 DEG F Adjusted to 21.3 DEG F
RW .504 @ 27.2 DEG F Chlorides 36000 PPM



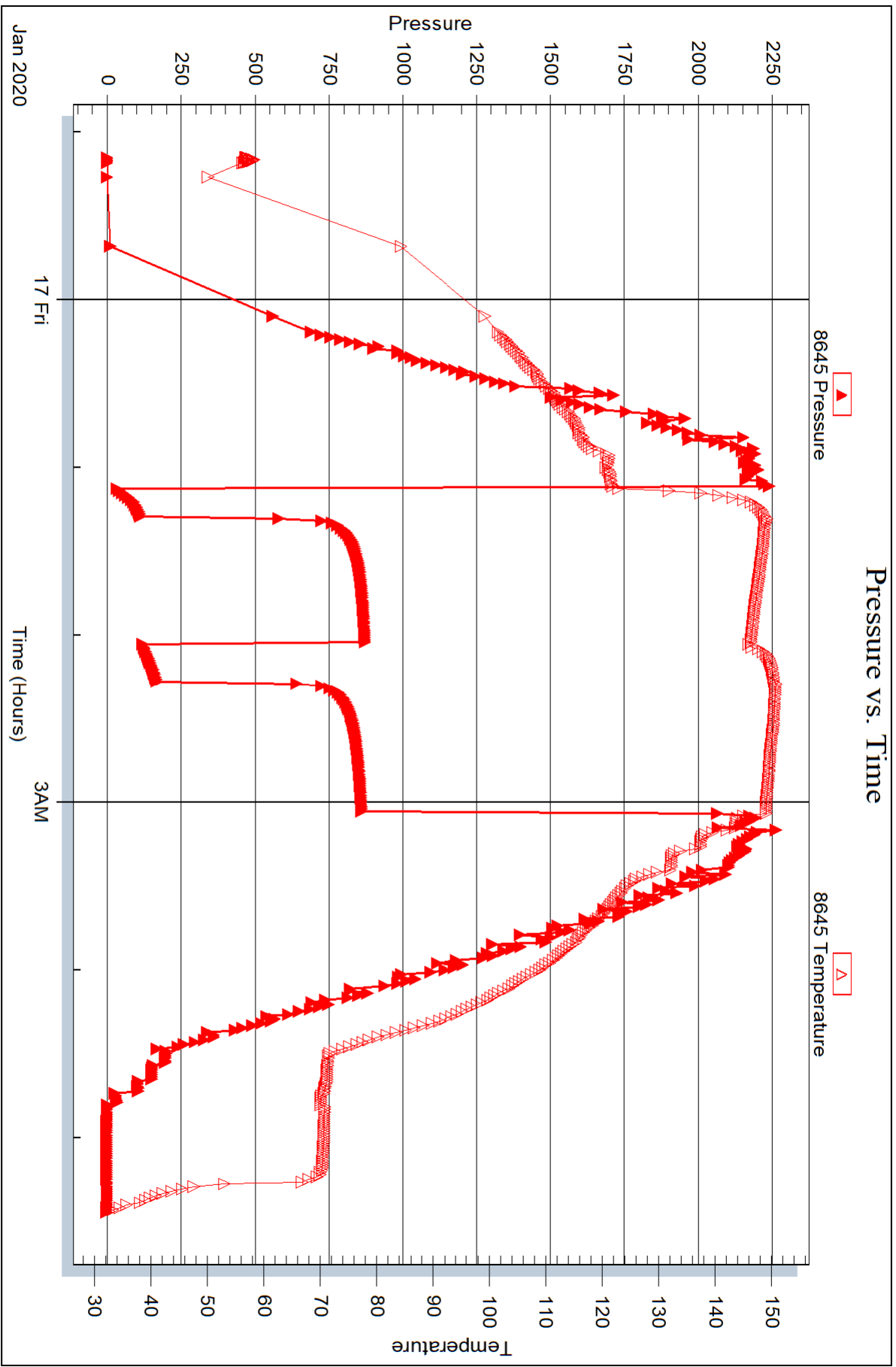
Serial #: 8645

Inside

Black Oak Exploration

Frisbie Family #1-14

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration**

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

Frisbie Family #1-14

14-2s-36w Rawlins,KS

Start Date: 2020.01.18 @ 02:41:00

End Date: 2020.01.18 @ 09:30:00

Job Ticket #: 66003 DST #: 5

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

Printed: 2020.01.22 @ 08:57:15

Black Oak Exploration

14-2s-36w Rawlins,KS

Frisbie Family #1-14

DST # 5

Lansing J

2020.01.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

ATTN: Clayton Camozzi

Job Ticket: 66003

DST#: 5

Test Start: 2020.01.18 @ 02:41:00

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:50:10

Time Test Ended: 09:30:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 4437.00 ft (KB) To 4475.00 ft (KB) (TVD)

Reference Elevations: 3320.00 ft (KB)

Total Depth: 4475.00 ft (KB) (TVD)

3315.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 23.23 psig @ 4438.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.18

End Date:

2020.01.18

Last Calib.:

2020.01.18

Start Time: 02:41:01

End Time:

09:30:00

Time On Btm:

2020.01.18 @ 04:49:20

Time Off Btm:

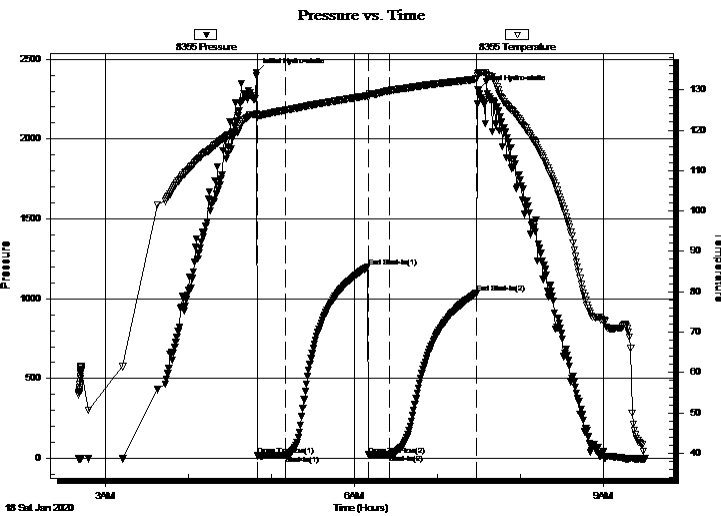
2020.01.18 @ 07:29:09

TEST COMMENT: 20-IF-1/2" Blow @ open built to 1 1/2"

60-ISI-No blow back

15-FF-No blow

60-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2417.33	124.06	Initial Hydro-static
1	17.07	123.21	Open To Flow (1)
21	19.29	124.97	Shut-In(1)
81	1199.39	128.56	End Shut-In(1)
81	22.29	128.16	Open To Flow (2)
96	23.23	129.80	Shut-In(2)
159	1034.15	132.63	End Shut-In(2)
160	2309.76	134.01	Final Hydro-static

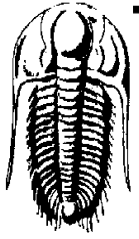
Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 15%O, 85%M	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

14-2s-36w Rawlins, KS

Frisbie Family #1-14

Job Ticket: 66003

DST#: 5

Test Start: 2020.01.18 @ 02:41:00

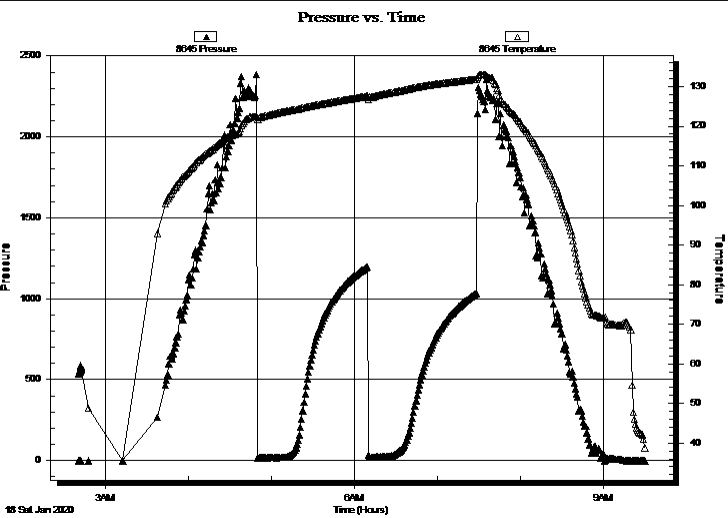
GENERAL INFORMATION:

Formation: **Lansing J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:50:10
 Time Test Ended: 09:30:00
Interval: 4437.00 ft (KB) To 4475.00 ft (KB) (TVD)
 Total Depth: 4475.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
 Tester: Shawn Wheelbarger
 Unit No: 76
 Reference Elevations: 3320.00 ft (KB)
 3315.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8645 Inside
 Press@RunDepth: psig @ 4438.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.01.18 End Date: 2020.01.18 Last Calib.: 2020.01.18
 Start Time: 02:41:01 End Time: 09:29:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: 20-IF-1/2" Blow @ open built to 1 1/2"
 60-ISI-No blow back
 15-FF-No blow
 60-FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 15%O, 85%M	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66003

DST#: 5

ATTN: Clayton Camozzi

Test Start: 2020.01.18 @ 02:41:00

Tool Information

Drill Pipe:	Length: 4248.00 ft	Diameter: 3.80 inches	Volume: 59.59 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 60.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4437.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4410.00	
Shut In Tool	5.00			4415.00	
Hydraulic tool	5.00		Inside	4420.00	
Jars	5.00			4425.00	
Safety Joint	2.00			4427.00	
Packer	5.00			4432.00	28.00 Bottom Of Top Packer
Packer	5.00			4437.00	
Packer - Shale	0.00			4437.00	
Stubb	1.00			4438.00	
Recorder	0.00	8355	Outside	4438.00	
Recorder	0.00	8645	Inside	4438.00	
Perforations	34.00			4472.00	
Bullnose	3.00			4475.00	38.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66003

DST#: 5

ATTN: Clayton Camozzi

Test Start: 2020.01.18 @ 02:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 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
10.00	OCM 15%O, 85%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:

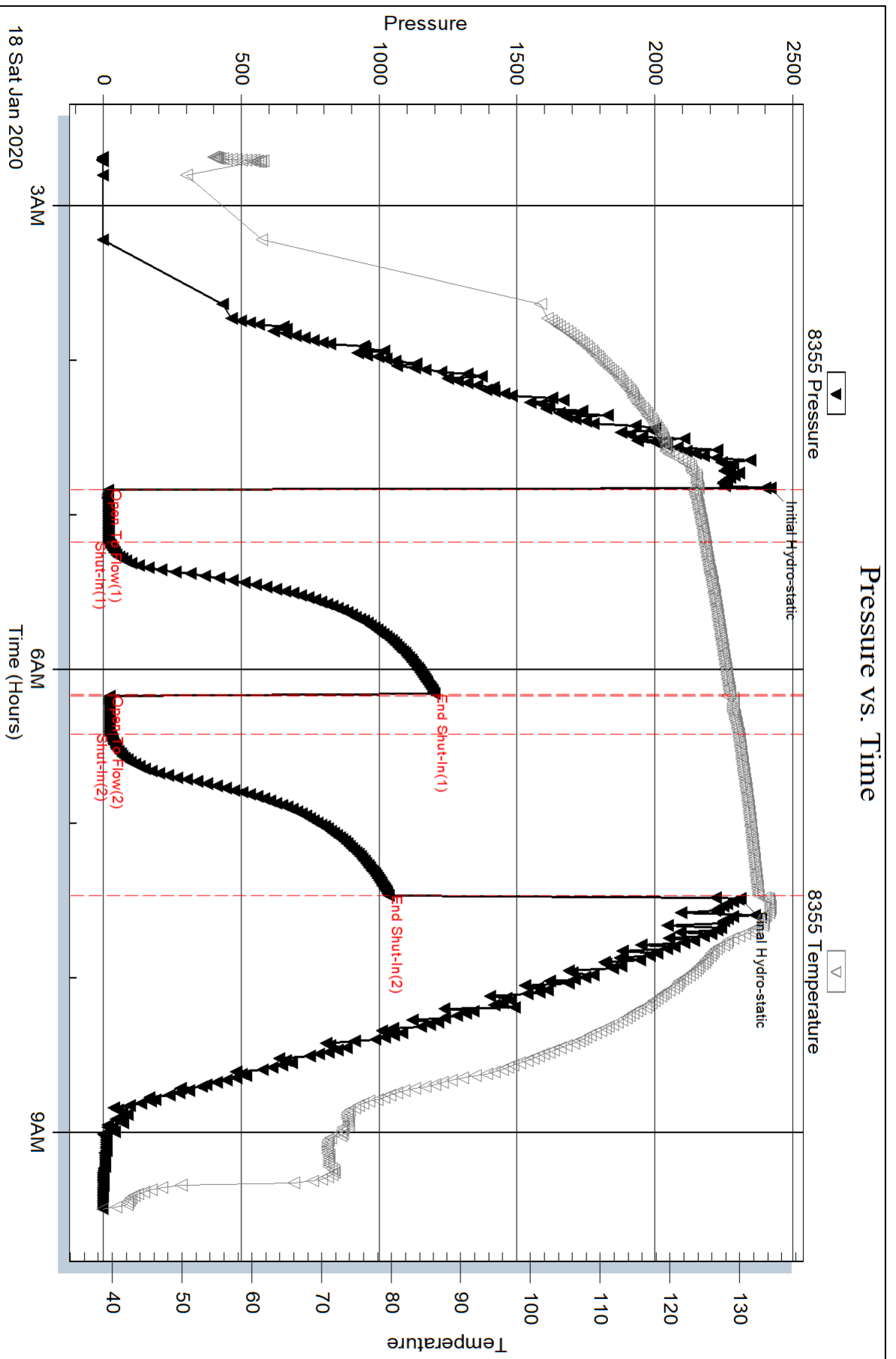
Recovery Comments:

Serial #: 8355

Outside Black Oak Exploration

Friskie Family #1-14

DST Test Number: 5



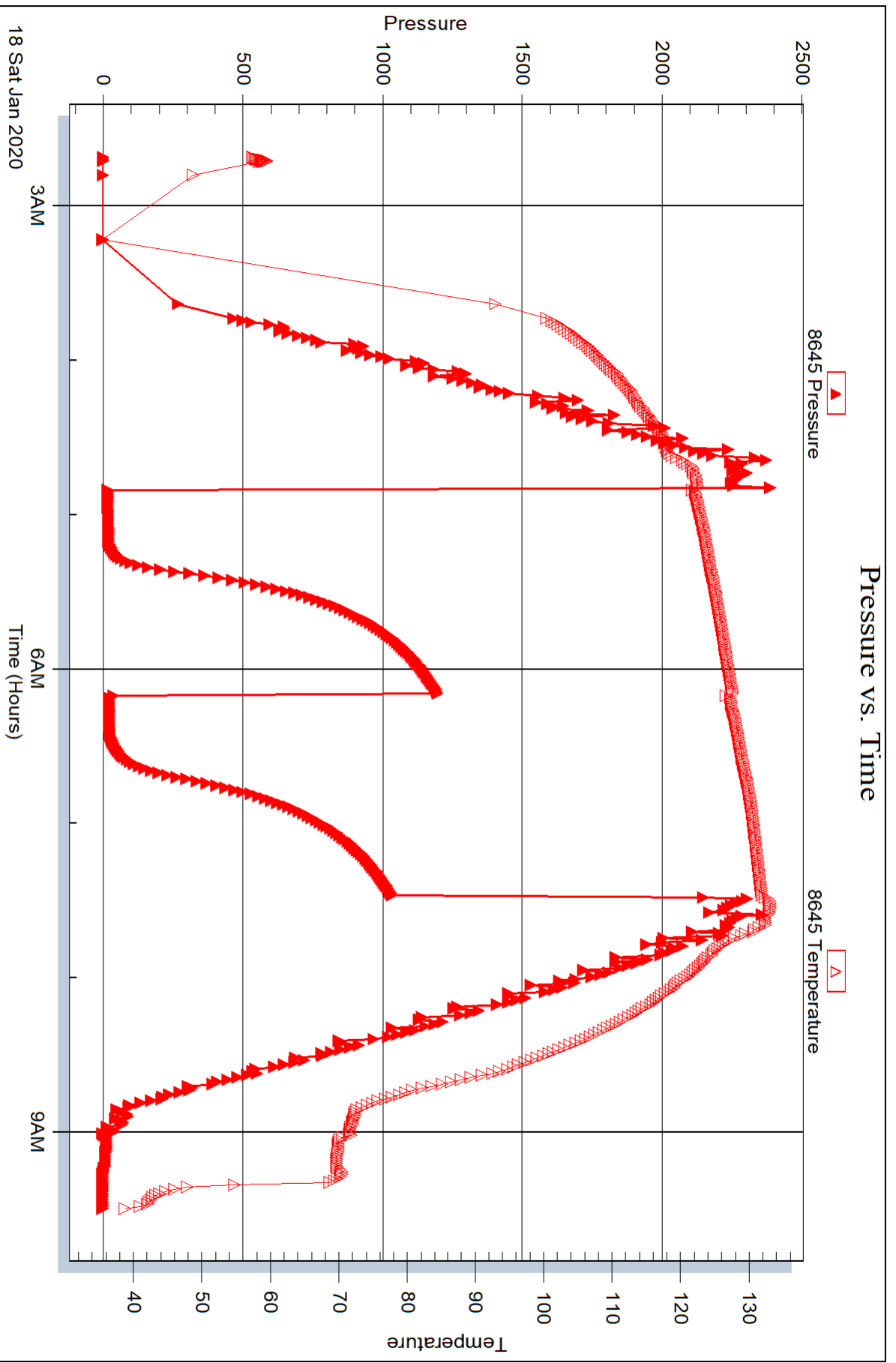
Serial #: 8645

Inside

Black Oak Exploration

Friskie Family #1-14

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration**

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

Frisbie Family #1-14

14-2s-36w Rawlins,KS

Start Date: 2020.01.18 @ 13:47:00

End Date: 2020.01.18 @ 22:20:10

Job Ticket #: 66004 DST #: 6

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

Printed: 2020.01.22 @ 08:51:38

Black Oak Exploration

14-2s-36w Rawlins,KS

Frisbie Family #1-14

DST # 6

Lansing H-J

2020.01.18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66004

DST#: 6

ATTN: Clayton Camozzi

Test Start: 2020.01.18 @ 13:47:00

GENERAL INFORMATION:

Formation: **Lansing H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:23:40

Time Test Ended: 22:20:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 4403.00 ft (KB) To 4475.00 ft (KB) (TVD)

Reference Elevations: 3320.00 ft (KB)

Total Depth: 4475.00 ft (KB) (TVD)

3315.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 185.87 psig @ 4404.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.18 End Date: 2020.01.18

Last Calib.: 2020.01.18

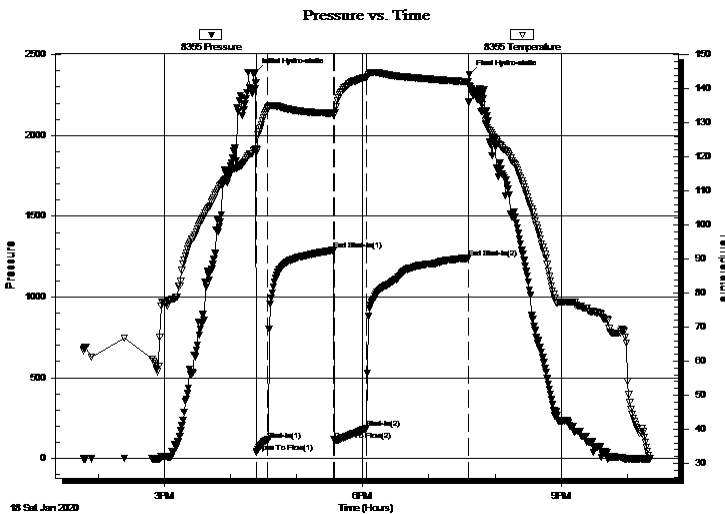
Start Time: 13:47:01 End Time: 22:20:10

Time On Btm: 2020.01.18 @ 16:22:50

Time Off Btm: 2020.01.18 @ 19:37:00

TEST COMMENT: 10-IF-1 1/2" Blow @ open BOB in 8 min built to 12"
60-ISI-Blow built to 1/2" in 18 min remained @ 1/2"
30-FF-BOB in 11 min blow built to 34 3/4"
90-FSI-Blow built to 6 1/4" in 37 min declined to 5 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2390.74	122.22	Initial Hydro-static
1	39.90	121.31	Open To Flow (1)
12	112.03	134.18	Shut-In(1)
71	1289.13	132.83	End Shut-In(1)
72	115.20	132.36	Open To Flow (2)
101	185.87	143.38	Shut-In(2)
194	1240.82	142.06	End Shut-In(2)
195	2376.75	140.95	Final Hydro-static

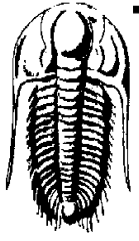
Recovery

Length (ft)	Description	Volume (bbl)
434.00	GMO 17%G, 51%O,32%M	4.46
0.00	444 Ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Black Oak Exploration

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

14-2s-36w Rawlins, KS

Frisbie Family #1-14

Job Ticket: 66004

DST#: 6

Test Start: 2020.01.18 @ 13:47:00

GENERAL INFORMATION:

Formation: **Lansing H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:23:40

Time Test Ended: 22:20:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 4403.00 ft (KB) To 4475.00 ft (KB) (TVD)

Reference Elevations: 3320.00 ft (KB)

Total Depth: 4475.00 ft (KB) (TVD)

3315.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8645 Inside

Press@RunDepth: psig @ 4404.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.18

End Date: 2020.01.18

Last Calib.: 2020.01.18

Start Time: 13:47:01

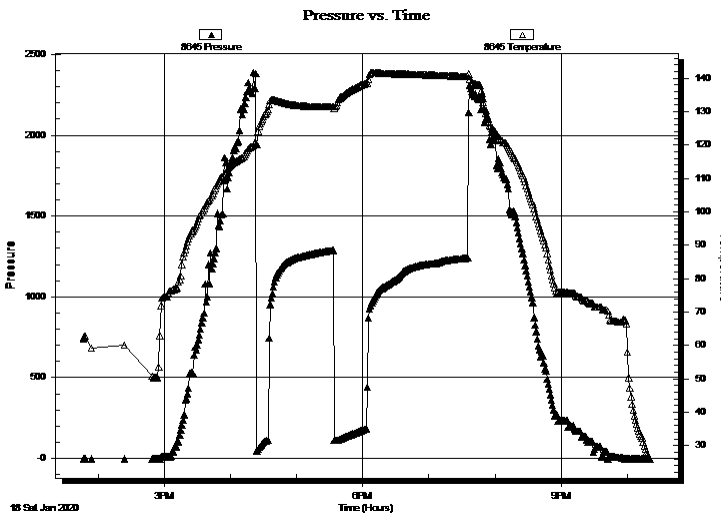
End Time: 22:20:40

Time On Btm:

Time Off Btm:

TEST COMMENT: 10-IF-1 1/2" Blow @ open BOB in 8 min built to 12"
60-ISI-Blow built to 1/2" in 18 min remained @ 1/2"
30-FF-BOB in 11 min blow built to 34 3/4"
90-FSI-Blow built to 6 1/4" in 37 min declined to 5 1/4"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
434.00	GMO 17%G, 51%O,32%M	4.46
0.00	444 Ft GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66004

DST#: 6

ATTN: Clayton Camozzi

Test Start: 2020.01.18 @ 13:47:00

Tool Information

Drill Pipe:	Length: 4216.00 ft	Diameter: 3.80 inches	Volume: 59.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4403.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	100.00 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			4376.00	
Shut In Tool	5.00			4381.00	
Hydraulic tool	5.00		Inside	4386.00	
Jars	5.00			4391.00	
Safety Joint	2.00			4393.00	
Packer	5.00			4398.00	28.00 Bottom Of Top Packer
Packer	5.00			4403.00	
Packer - Shale	0.00			4403.00	
Stubb	1.00			4404.00	
Recorder	0.00	8355	Outside	4404.00	
Recorder	0.00	8645	Inside	4404.00	
Perforations	34.00			4438.00	
Change Over Sub	1.00			4439.00	
Drill Pipe	32.00			4471.00	
Change Over Sub	1.00			4472.00	
Bullnose	3.00			4475.00	72.00 Bottom Packers & Anchor
Total Tool Length:	100.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66004

DST#: 6

ATTN: Clayton Camozzi

Test Start: 2020.01.18 @ 13:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 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
434.00	GMO 17%G, 51%O,32%M	4.457
0.00	444 Ft GIP	0.000

Total Length: 434.00 ft Total Volume: 4.457 bbl

Num Fluid Samples: 0

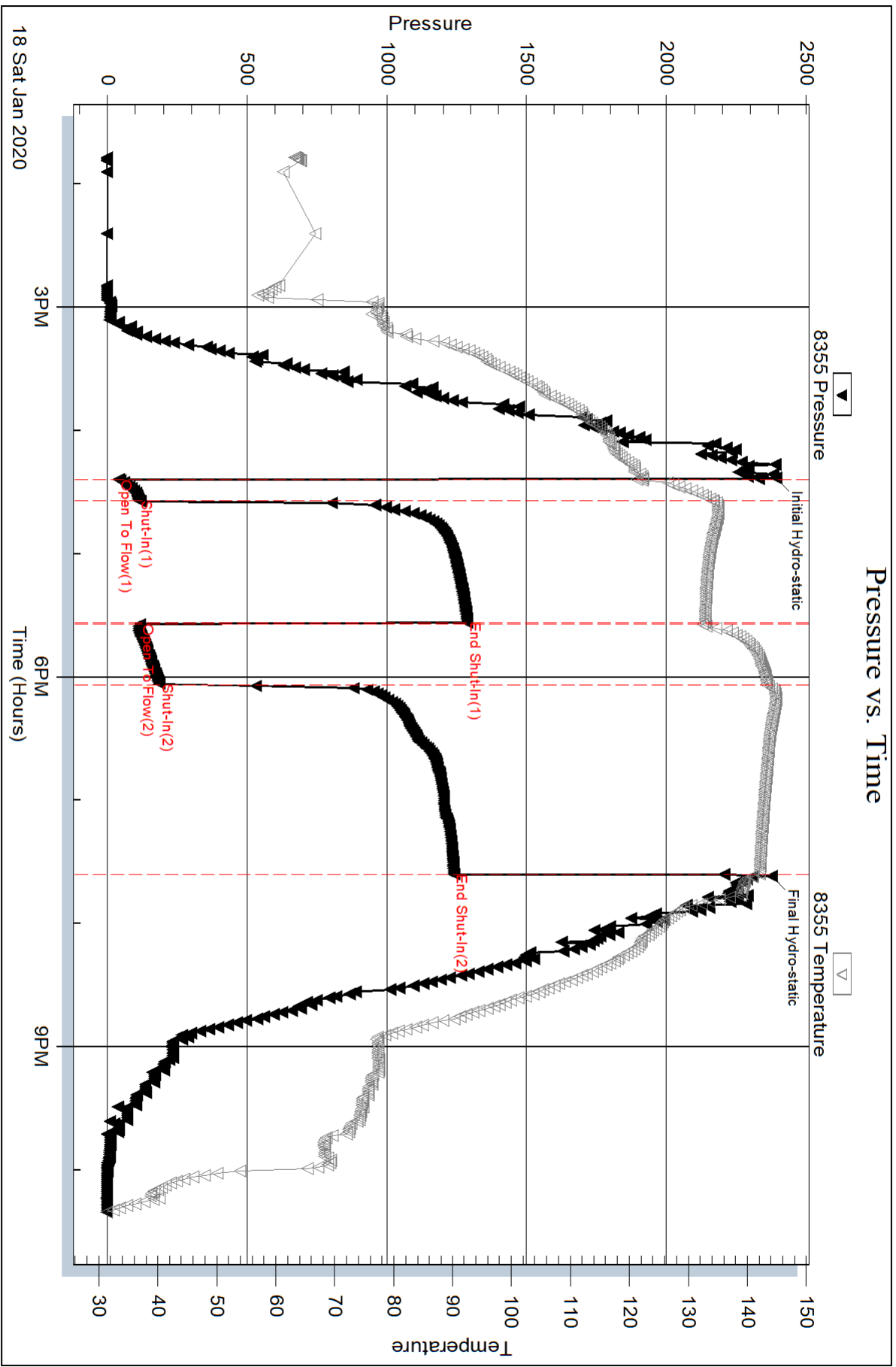
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 31.6 API @ 28 DEG F Adjusted to 34.8 API



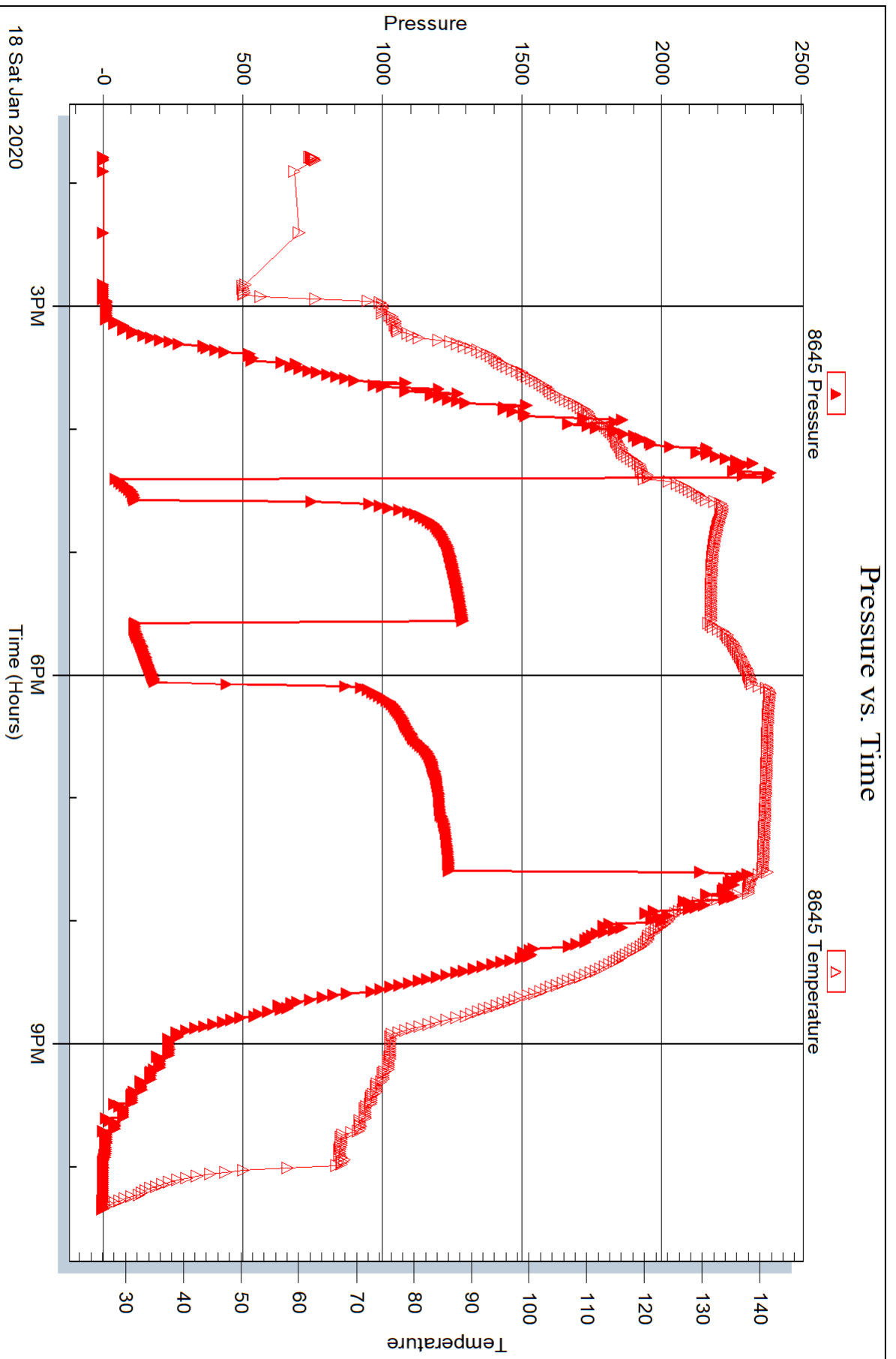
Serial #: 8645

Inside

Black Oak Exploration

Friskie Family #1 - 14

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 66004

Printed: 2020.01.22 @ 08:51:40



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration**

1474 S St Paul St
Denver CO 80210

ATTN: Clayton Camozzi

Frisbie Family #1-14

14-2s-36w Rawlins,KS

Start Date: 2020.01.19 @ 20:53:00

End Date: 2020.01.20 @ 06:08:19

Job Ticket #: 66005 DST #: 7

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

Printed: 2020.01.22 @ 08:47:16

Black Oak Exploration

14-2s-36w Rawlins,KS

Frisbie Family #1-14

DST # 7

Fort Scott

2020.01.19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

ATTN: Clayton Camozzi

Job Ticket: 66005

DST#: 7

Test Start: 2020.01.19 @ 20:53:00

GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:29:00

Time Test Ended: 06:08:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Interval: 4624.00 ft (KB) To 4668.00 ft (KB) (TVD)

Total Depth: 4668.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3320.00 ft (KB)

3315.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8355 Outside

Press@RunDepth: 19.13 psig @ 4625.00 ft (KB)

Start Date: 2020.01.19

End Date: 2020.01.20

Start Time: 20:53:01

End Time: 06:08:19

Capacity: 8000.00 psig

Last Calib.: 2020.01.20

Time On Btm: 2020.01.20 @ 01:28:09

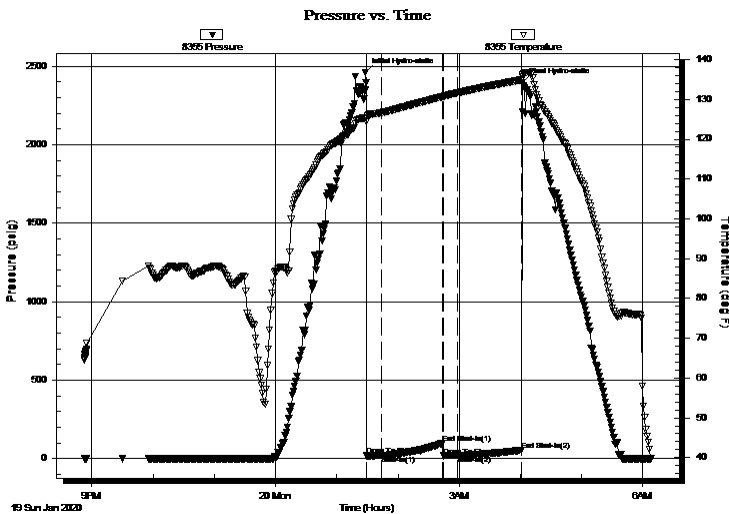
Time Off Btm: 2020.01.20 @ 04:02:09

TEST COMMENT: 15-IF-1/2" Blow @ open built to 1 1/2"

60-ISI-No blow back

30-FF-No blow

60-FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2461.15	125.42	Initial Hydro-static
1	17.93	124.38	Open To Flow (1)
16	18.53	126.66	Shut-In(1)
76	98.45	130.71	End Shut-In(1)
77	17.55	130.71	Open To Flow (2)
91	19.13	131.65	Shut-In(2)
153	53.16	134.91	End Shut-In(2)
154	2396.24	136.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 2%O, 98%M	0.02

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

ATTN: Clayton Camozzi

Job Ticket: 66005

DST#: 7

Test Start: 2020.01.19 @ 20:53:00

GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:29:00

Time Test Ended: 06:08:19

Interval: **4624.00 ft (KB) To 4668.00 ft (KB) (TVD)**

Total Depth: 4668.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

Reference Elevations: 3320.00 ft (KB)

3315.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8645

Inside

Press@RunDepth: psig @ 4625.00 ft (KB)

Start Date: 2020.01.19

End Date:

2020.01.20

Start Time: 20:53:01

End Time:

06:09:10

Capacity: 8000.00 psig

Last Calib.:

2020.01.20

Time On Btm:

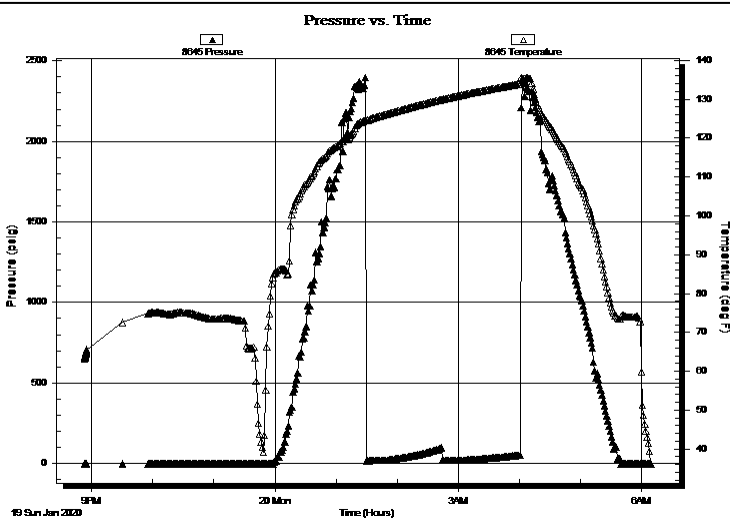
Time Off Btm:

TEST COMMENT: 15-IF-1/2" Blow @ open built to 1 1/2"

60-ISI-No blow back

30-FF-No blow

60-FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 2%O, 98%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66005

DST#: 7

ATTN: Clayton Camozzi

Test Start: 2020.01.19 @ 20:53:00

Tool Information

Drill Pipe:	Length: 4438.00 ft	Diameter: 3.80 inches	Volume: 62.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 63.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4624.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4597.00	
Shut In Tool	5.00			4602.00	
Hydraulic tool	5.00		Inside	4607.00	
Jars	5.00			4612.00	
Safety Joint	2.00			4614.00	
Packer	5.00			4619.00	28.00 Bottom Of Top Packer
Packer	5.00			4624.00	
Packer - Shale	0.00			4624.00	
Stubb	1.00			4625.00	
Recorder	0.00	8355	Outside	4625.00	
Recorder	0.00	8645	Inside	4625.00	
Perforations	6.00			4631.00	
Change Over Sub	1.00			4632.00	
Drill Pipe	32.00			4664.00	
Change Over Sub	1.00			4665.00	
Bullnose	3.00			4668.00	44.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration

14-2s-36w Rawlins,KS

1474 S St Paul St
Denver CO 80210

Frisbie Family #1-14

Job Ticket: 66005

DST#: 7

ATTN: Clayton Camozzi

Test Start: 2020.01.19 @ 20:53:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 2%O, 98%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

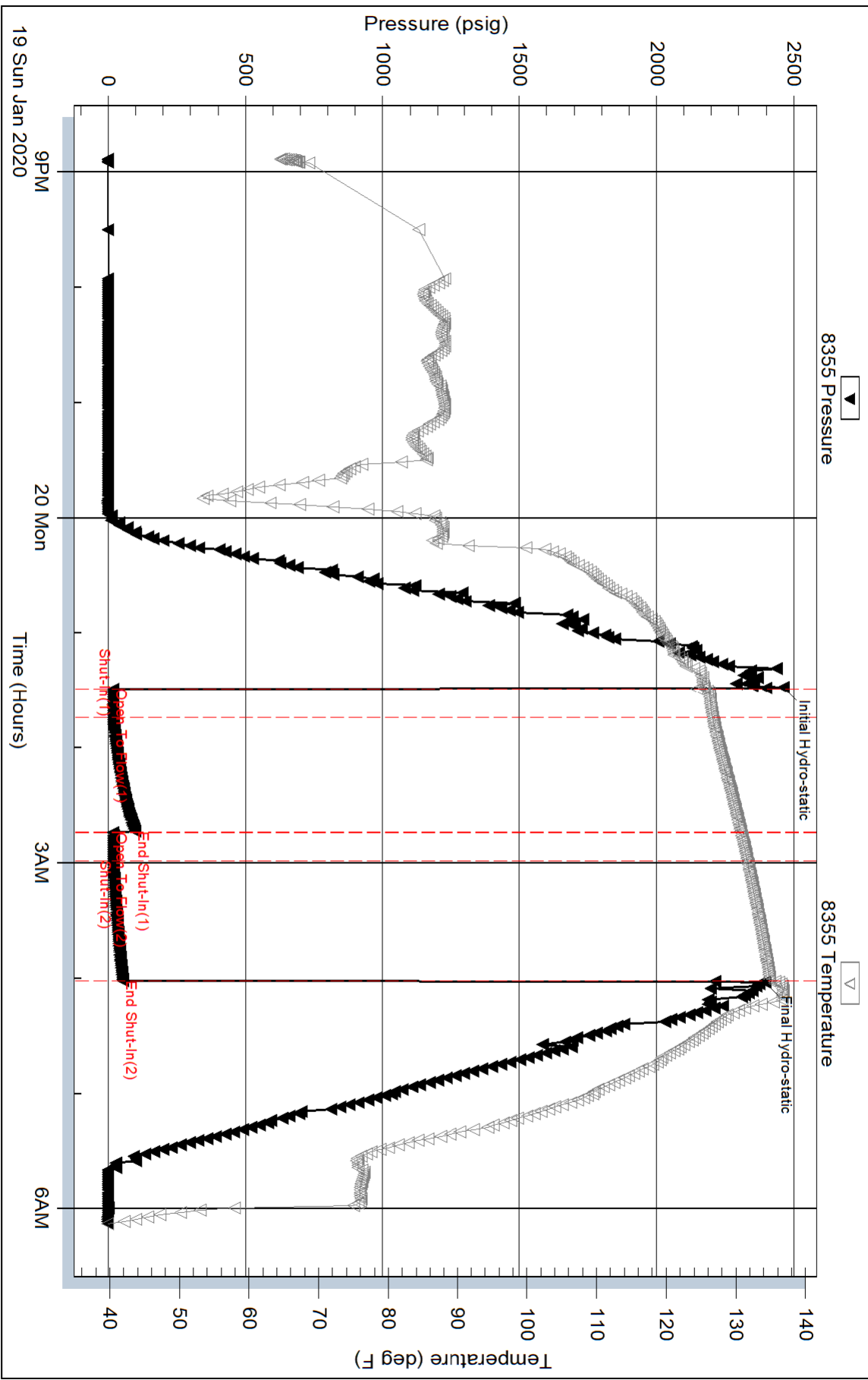
Serial #: 8355

Outside Black Oak Exploration

Friskie Family #1-14

DST Test Number: 7

Pressure vs. Time



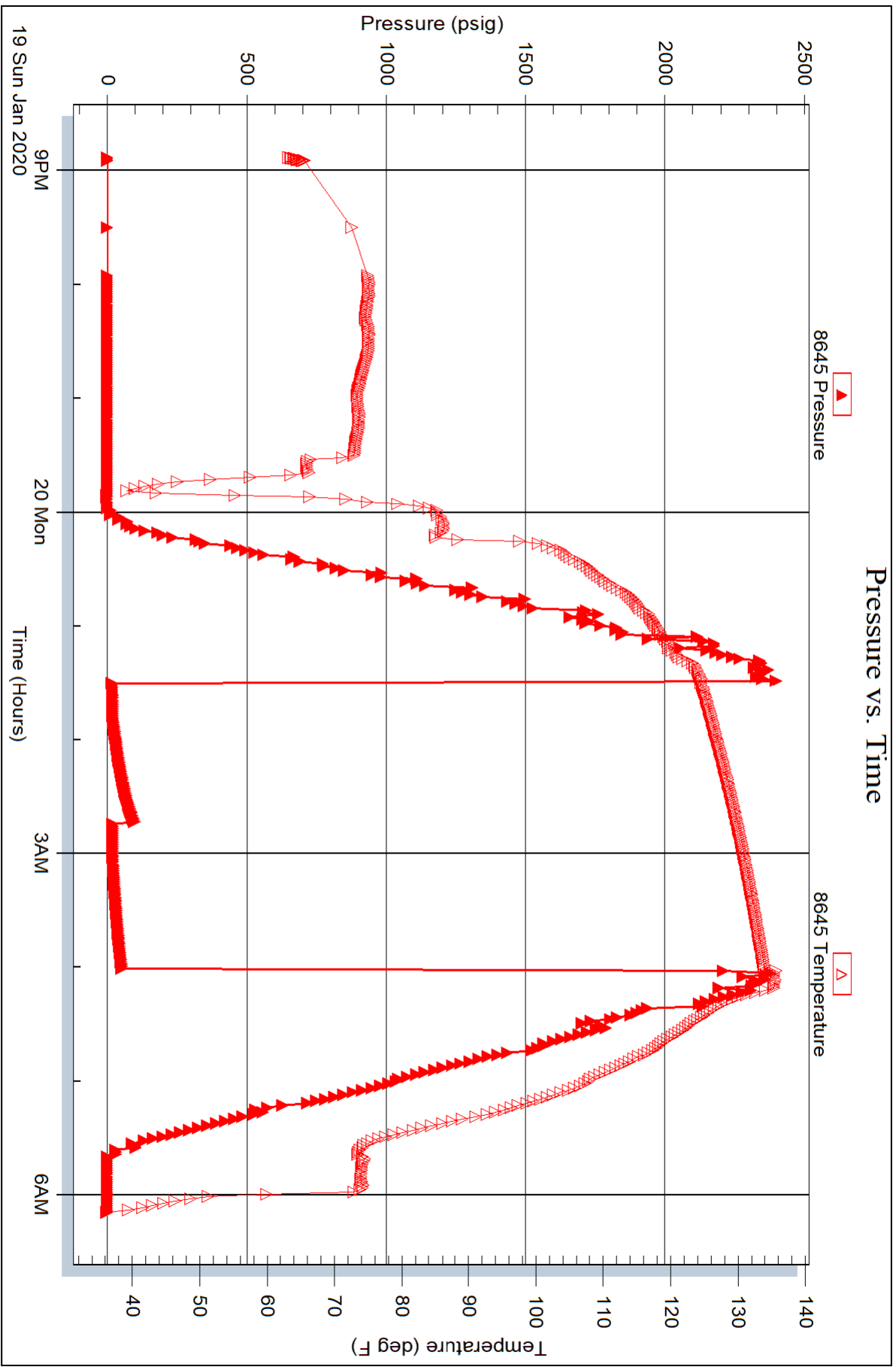
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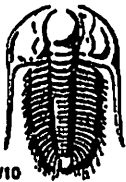
Inside

Black Oak Exploration

Friskie Family #1 - 14

DST Test Number: 7





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65649

Well Name & No. Frisbie Family #1-14 Test No. 1 Date 1-14-20
 Company Black Oak Exploration Elevation 3320 KB 3315 GL
 Address 1474 S St Paul St Denver CO 80210
 Co. Rep / Geo. Clayton Camozzi Rig Murfin #7
 Location: Sec. 14 Twp 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4065 - 4135 Zone Tested Le Compton
 Anchor Length 70 Drill Pipe Run 3867 Mud Wt. 9
 Top Packer Depth 4060 Drill Collars Run 179 Vis 76
 Bottom Packer Depth 4065 Wt. Pipe Run - WL 6.4
 Total Depth 4135 Chlorides 900 ppm System LCM 4
 Blow Description IF 1/2" Blow @ open built to 4"
FSI No blow back
FF Blow built to 4 1/2"
FSI No blow

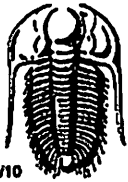
Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>6M w/oil spots 8</u>			<u>92</u>	
<u>120</u>	<u>WGM w/oil spots 8</u>		<u>2</u>	<u>90</u>	

Rec Total 195 BHT 133 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2082</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>16:23</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:50</u>
(C) First Final Flow <u>57</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:03</u>
(D) Initial Shut-In <u>1215</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>23:18</u>
(E) Second Initial Flow <u>63</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1:19</u> <u>1-15</u>
(F) Second Final Flow <u>110</u>	<input checked="" type="checkbox"/> Mileage <u>103 RT</u> 103	Comments
(G) Final Shut-In <u>1197</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2079</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1728</u>
	Sub Total <u>1728</u>	MP/DST Disc't

Approved By _____ Our Representative Shawn Wheelbarger

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. 65650

Well Name & No. Erzbie Family # 1-14 Test No. 2 Date 1-15-20
 Company Black Oak Exploration Elevation 3320 KB 3315 GL
 Address 1474 S. st paul ST Denver CO 80210
 Co. Rep / Geo. Clayton LamoZZi Rig Murfin # 7
 Location: Sec. 14 Twp 2s Rge. 36w Co. Rawlins State KS

Interval Tested 4120 - 4175 Zone Tested Oread
 Anchor Length 5.5 Drill Pipe Run 3931 Mud Wt. 9.1
 Top Packer Depth 4115 Drill Collars Run 179 Vis 74
 Bottom Packer Depth 4120 Wt. Pipe Run - WL 6.4
 Total Depth 4175 Chlorides 900 ppm System LCM 4

Blow Description IF 1/4" Blow @ open slow build to 1"
ISI Weak surface blow @ 7 min declined @ 44 min/s
FF Weak surface blow built to 1/2"
FSI No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>650 CM</u>	<u>2</u>	<u>8</u>	<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 128 Gravity - API RW - @ - ° F Chlorides - ppm

- (A) Initial Hydrostatic 2117
- (B) First Initial Flow 17
- (C) First Final Flow 20
- (D) Initial Shut-In 1160
- (E) Second Initial Flow 21
- (F) Second Final Flow 26
- (G) Final Shut-In 1138
- (H) Final Hydrostatic 2098

- Initial Open 15
- Initial Shut-In 60
- Final Flow 30
- Final Shut-In 90

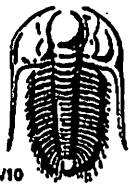
- Test 1300
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 103 RT 103
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1728

- T-On Location 9:26
- T-Started 9:49
- T-Open 11:39
- T-Pulled 14:54
- T-Out 16:41

- Comments
- EM Tool
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 1728

Approved By _____ Our Representative Shawn Wheelbarger MP/DST Disc't

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66001

NO.

Well Name & No. Friskie Family #1-14 Test No. 3 Date 1-16-20
 Company Black Oak Exploration Elevation 3320 KB 3315 GL
 Address 1474 S St Paul St Denver CO 80210
 Co. Rep / Geo. Clayton Camozzi Rig Murfin #7
 Location: Sec. 14 Twp 2s Rge. 36w Co. Rawlins State KS

Interval Tested 4234-4276 Zone Tested Lansing A
 Anchor Length 42 Drill Pipe Run 4058 Mud Wt. 9.2
 Top Packer Depth 4229 Drill Collars Run 179 Vis 71
 Bottom Packer Depth 4234 Wt. Pipe Run — WL 4.4
 Total Depth 4276 Chlorides 900 ppm System LCM 4

Blow Description IF 2" Blow @ open BOB in 4 min 15 sec blow built to 2 2/4"
IST Blow built to 6 1/2" in 37 min declined to 5"
FF BOB in 9 min 30 sec blow built to 26 3/4"
FST Blow built to 7 1/4" in 41 min declined to 6"

Rec	Feet of	%gas	%oil	%water	%mud
<u>32</u>	<u>60</u>	<u>7</u>	<u>93</u>		
<u>375</u>	<u>GMO</u>	<u>12</u>	<u>72</u>		<u>16</u>
<u>121</u>	<u>GWMO</u>	<u>18</u>	<u>30</u>	<u>22</u>	<u>30</u>
<u>378</u>	<u>GIP</u>	<u>100</u>			
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 528 ~~1028~~ ~~1028~~ BHT 146 Gravity 27.6 API RW .375 @ 30.5 °F Chlorides 46000 ppm

- (A) Initial Hydrostatic 2189
- (B) First Initial Flow 56
- (C) First Final Flow 138
- (D) Initial Shut-In 1032
- (E) Second Initial Flow 157
- (F) Second Final Flow 252
- (G) Final Shut-In 1021
- (H) Final Hydrostatic 2038

Initial Open 10
 Initial Shut-In 60
 Final Flow 20
 Final Shut-In 60

- Test 1300
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 103RT ¹⁰³
- Sampler
- Straddle
- Shale Packer 250
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1978

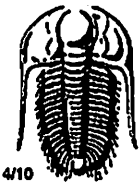
T-On Location 4:48
 T-Started 5:26
 T-Open 7:51
 T-Pulled 10:21
 T-Out 12:41

Comments _____

 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1978

Approved By _____ Our Representative Shawn Weeber

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66002

NO.

Well Name & No. Frisbie Family #1-14 Test No. 4 Date 1-16-20
 Company Black Oak Exploration Elevation 3320 KB 3315 GL
 Address 1474 S St Paul St Denver CO 80210
 Co. Rep / Geo. Clayton Camozzi Rig Murfin #7
 Location: Sec. 14 Twp 23 Rge. 36w Co. Rawlins State KS

Interval Tested 4320-4335 Zone Tested Lansing D
 Anchor Length 15 Drill Pipe Run 4121 Mud Wt. 9.2
 Top Packer Depth 4315 Drill Collars Run 179 Vis 71
 Bottom Packer Depth 4320 Wt. Pipe Run - WL 64
 Total Depth 4335 Chlorides 900 ppm System LCM 4
 Blow Description IF 3/4" Blow @ open built to 2"
ISI No blow back
FF Medium surface blow
FSI No blow

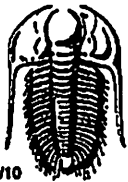
Rec	Feet of	%gas	%oil	%water	%mud
<u>48</u>	<u>Oil</u>	<u>100</u>			
<u>186</u>	<u>SOMW</u>	<u>9</u>	<u>81</u>	<u>10</u>	
<u>120</u>	<u>OCMW</u>	<u>11</u>	<u>49</u>	<u>40</u>	

Rec Total 354 BHT 145 Gravity 21.3 API RW 1504 @ 27.2°F Chlorides 36000 ppm
 (A) Initial Hydrostatic 2287 Test 1300 T-On Location 22:19 1-16
 (B) First Initial Flow 30 Jars 250 T-Started 23:09 1-16
 (C) First Final Flow 114 Safety Joint 75 T-Open 1:07
 (D) Initial Shut-In 871 Circ Sub _____ T-Pulled 3:02
 (E) Second Initial Flow 114 Hourly Standby _____ T-Out 5:23
 (F) Second Final Flow 169 Mileage 103 RT ¹⁰³ Comments _____
 (G) Final Shut-In 860 Sampler _____
 (H) Final Hydrostatic 2220 Straddle _____
 Shale Packer 250 EM Tool _____
 Extra Packer _____ Ruined Shale Packer _____
 Extra Recorder _____ Ruined Packer _____
 Day Standby _____ Extra Copies _____
 Accessibility _____ Sub Total 0
 Sub Total 1978 Total 1978

Initial Open 10
 Initial Shut-In 45
 Final Flow 15
 Final Shut-In 45

Approved By _____ Our Representative Shawn Wheelbarger
 MP/DST Disc't _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66003

NO.

Well Name & No. Friskie Family #1-14 Test No. 5 Date 1-18-20
 Company Black Oak Exploration Elevation 3320 KB 3315 GL
 Address 1474 S St Paul St Denver CO 80210
 Co. Rep / Geo. Clayton Camozzi Rig Murfin #7
 Location: Sec. 14 Twp 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4437-4475 Zone Tested Lansing
 Anchor Length 38 Drill Pipe Run 4248 Mud Wt. 9.3
 Top Packer Depth 4432 Drill Collars Run 179 Vls 65
 Bottom Packer Depth 4437 Wt. Pipe Run - WL 6.4
 Total Depth 4475 Chlorides 900 ppm System LCM 4

Blow Description IF 1/2" Blow @ open built to 1 1/2"
J.S.I No blow back
FF No blow
F.S.I No blow

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

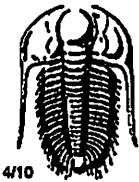
Rec Total 10 BHT 134 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2417 Test 1300 T-On Location 1:57
 (B) First Initial Flow 17 Jars 250 T-Started 2:41
 (C) First Final Flow 19 Safety Joint 75 T-Open 4:51
 (D) Initial Shut-In 1199 Circ Sub _____ T-Pulled 7:26
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 9:28
 (F) Second Final Flow 23 Mileage 10.3 RT 103 Comments _____
 (G) Final Shut-In 1034 Sampler _____
 (H) Final Hydrostatic 2310 Straddle _____

Initial Open 20 Shale Packer 250 EM Tool _____
 Initial Shut-In 60 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 15 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 60 Day Standby _____ Extra Copies _____
 Sub Total 0 Accessibility _____ Sub Total 1978
 Sub Total 1978 MP/DST Disc't _____

Approved By _____ Our Representative Shawn Healy

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66004

NO.

Well Name & No. Frisbie Family Test No. 6 Date 1-18-20
 Company Black Oak Exploration Elevation 3320 KB 3315 GL
 Address 1474 S ST Paul Denver CO 80210
 Co. Rep / Geo. Clayton Camozzi Rig Murfin #7
 Location: Sec. 14 Twp 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4403-4475 Zone Tested Lansing H-1
 Anchor Length 72 Drill Pipe Run 4216 Mud Wt. 9.3
 Top Packer Depth 4398 Drill Collars Run 179 Vis 6.5
 Bottom Packer Depth 4403 Wt. Pipe Run - WL 6.4
 Total Depth 4475 Chlorides 900 ppm System LCM 4

Blow Description IF 1 1/2" Blow @ open built to 12" BOR in 8 min
ISI Blow built to 1/2" in 18 min remained 1/2"
FF BOB in 11 min blow built to 34 3/4"
FSI Blow built to 6 1/4" in 37 min declined to 5 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>434</u>	<u>6 MO</u>	<u>17</u>	<u>51</u>	<u>32</u>	
<u>444</u>	<u>6 IP</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 434 BHT 141 Gravity 34.8 API RW - @ - °F Chlorides - ppm

- (A) Initial Hydrostatic 2391
- (B) First Initial Flow 40
- (C) First Final Flow 112
- (D) Initial Shut-In 1289
- (E) Second Initial Flow 115
- (F) Second Final Flow 186
- (G) Final Shut-In 1241
- (H) Final Hydrostatic 2377

Initial Open 10
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 90

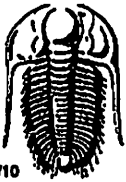
- Test 1300
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 103 RT 103
- Sampler
- Straddle
- Shale Packer 250
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1978

T-On Location 1318
 T-Started 1347
 T-Open 16:24
 T-Pulled 19:34
 T-Out 22:14

Comments _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1978

Approved By _____ Our Representative Shawn Wheelbarger MP/DST Disc't

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 66005

NO.

Well Name & No. Frisbie Family #1-14 Test No. 7 Date 1-19-20
 Company Black Oak Exploration Elevation 3320 KB 3315 GL
 Address 1474 S ST Paul Denver CO 80210
 Co. Rep / Geo. Clayton Camozzi Rig Murfin #7
 Location: Sec. 14 Twp 22 Rge. 3W Co. Rawlins State KS

Interval Tested 4624-4668 Zone Tested Fast Scott
 Anchor Length 44 Drill Pipe Run 4438 Mud Wt. 9.4
 Top Packer Depth 4619 Drill Collars Run 179 Vis 66
 Bottom Packer Depth 4624 Wt. Pipe Run - WL 6.8
 Total Depth 4668 Chlorides 1000 ppm System LCM 3
 Blow Description IF 1/2" Blow @ open built to 1 1/2"
ISI No blow back
FF No blow
FSI No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OSM</u>	<u>2</u>		<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 136 Gravity - API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 2461 Test 1300 T-On Location 19:53 1-19
 (B) First Initial Flow 18 Jars 250 T-Started 20:53 1-19
 (C) First Final Flow 19 Safety Joint 75 T-Open 1:29
 (D) Initial Shut-In 98 Circ Sub _____ T-Pulled 3:59
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 6:06
 (F) Second Final Flow 19 Mileage 103 RT 103 Comments _____
 (G) Final Shut-In 53 Sampler _____
 (H) Final Hydrostatic 2396 Straddle _____
 Initial Open 15 Shale Packer 250 EM Tool _____
 Initial Shut-In 60 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 15 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 60 Day Standby _____ Extra Copies _____
 Sub Total 1978 Accessibility _____ Sub Total 0
 Total 1978 MP/DST Disc't _____

Approved By _____ Our Representative Shawn Wheelbarrow

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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: Frisbie Family 1-14
 Location: 2396 FSL & 2970 FEL
 Sec. 14 - 2s - 36w
 Rawlins Co., KS

Wellsite Geologist: Clayton Camozzi Cell: (303) 968-4999

Elevation: 3315' GL 3320' KB

Field: Wildcat

API No: 15-153-21244-0000

Surface Casing: 8 5/8" set @ 358' KB

Drilling Contractor: Murfin Drilling Co Rig #7. Rig Phone (785-443-5616), Tool Pusher Arturo Cabezas (308-443-5616)

Formation	DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
	Black Oak Exp, Frisbie Family #1-15 2396 FSL & 2970 FEL Sec. 14 - 2s - 36w 3320 KB				Ritchie Exp, Frisbie #1-15 2050 FSL & 1440 FEL Sec. 15 - 2s - 36w 3330 KB				Abercrombie Drlg, Frisbie 1 1650 FNL & 2310 FWL Sec. 13 - 2s - 36w 3305 KB			
					Producer				Structural Relationship			
									Structural Relationship			
Stone Corral	3202	118	3196	124	3216	114	4	10	3177	128	-10	-4
Topeka	4041	-721	4036	-716	4049	-719	-2	3	4024	-719	-2	3
Oread	4155	-835	4154	-834	4169	-839	4	5	4143	-838	3	4
Heebner	4205	-885	4199	-879	4212	-882	-3	3	4189	-884	-1	5
Lansing	4255	-935	4249	-929	4264	-934	-1	5	4241	-936	1	7
Lansing D	4317	-997	4310	-990	4326	-996	-1	6	4302	-997	0	7
Lansing G	4367	-1047	4366	-1046	4381	-1051	4	5	4359	-1054	7	8
Lansing J	4456	-1136	4454	-1134	4468	-1138	2	4	4446	-1141	5	7
BKC	4520	-1200	4517	-1197	4535	-1205	5	8	4507	-1202	2	5
Pawnee	4610	-1290	4609	-1289	4625	-1295	5	6	NDE			
Fort Scott	4642	-1322	4643	-1323	4656	-1326	4	3	NDE			
Cherokee	4701	-1381	4694	-1374	4713	-1383	2	9	NDE			
Total Depth	4885	-1565	4880	-1560	4855	-1525	-40	-35	4535	-1230	-335	-330

6' Uphole Correction
 Drill Time Vs E-logs



CEMENT TREATMENT REPORT

Customer:	Black Oak Exploration	Well:	Frisbie Family 1-14	Ticket:	ICT3102
City, State:		County:	Rawlins KS	Date:	1/10/2020
Field Rep:	Jesus	S-T-R:	14-2-36W	Service:	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	359 ft
Casing Size:	8 5/8 in
Casing Depth:	359 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	21.7 bbbls

Calculated Slurry	
Weight:	14.8 # / sx
Water / Sx:	6.88 gal / sx
Yield:	1.41 ft ³ / sx
Bbls / Ft:	0.0735
Depth:	359 ft
Annular Volume:	26.3865 bbbls
Excess:	200%
Total Slurry:	79.2 bbbls
Total Sacks:	315 sx

Product	% / #	#
Class A	100.00	31169
Poz		
Gel	2.00	623
CaCl	3.00	935
Gypsum		
Metso		
Kol Seal		
Flo Seal	0.25	78
Salt (bww)		
Total		32,805

TIME	RATE	PSI	BBLs	REMARKS
1:10 PM				Arrive on location
1:15 PM				Safety meeting
1:20 PM				Rig up
1:30 PM				Bit trip
4:20 PM				Pulls pipe
5:40 PM				Casing on bottom
5:48 PM				Circulate
5:52 PM				Hook up pump and lines
6:09 PM	2.0	350.0	5.0	Pump 5 bbbls of H2O ahead of cement
6:12 PM	4.5	390.0	79.0	Mix 315 sks of H325
6:30 PM	4.5	210.0	21.5	Displace
6:35 PM		180.0		Plug down Shut in well
6:55 PM				Depart

CREW		UNIT	SUMMARY		
Cementer:	Josh	67	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Cory	231	3.66667 bpm	283 psi	106 bbbls
Bulk #1:	Michael	242			
Bulk #2:					

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Susan K. Duffy, Chair
Shari Feist Albrecht, Commissioner
Dwight D. Keen, Commissioner

Laura Kelly, Governor

June 09, 2020

Clayton Camozzi
Black Oak Exploration
1474 S. ST. PAUL ST.
DENVER, CO 80210-2514

Re: ACO-1
API 15-153-21244-00-00
FRISBIE FAMILY 1-14
SW/4 Sec.14-02S-36W
Rawlins County, Kansas

Dear Clayton Camozzi:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 1/10/2020 and the ACO-1 was received on June 09, 2020 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department