

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, LLC
Well Name	WESSEL 1-26
Doc ID	1661914

All Electric Logs Run

POR
MICRO
DIL
SONIC



CEMENT TREATMENT REPORT

Customer: Black oak	Well: Wessel # 1-26	Ticket: WP 3032
City, State: Oakley KS	County: Decatur KS	Date: 7/1/2022
Field Rep: Arturo	S-T-R: 26-5S-30W	Service: Surface

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	265 ft
Casing Size:	8 5/8 in
Casing Depth:	265 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	15.7 bbls

Calculated Slurry - Lead	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft ³ / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	STAGE	TOTAL BBLs	REMARKS
1130A			-		-	GOT TO LOCATION
133P					-	CIRCULATD HOLE
139P	3.0	200.0	5.0		5.0	PUMPED H2O AHEAD
141P	5.0	200.0	50.2		55.2	PUMPED 200 SKS OF H-325 @ FT
156P	5.0	250.0	15.7		70.9	DISPLACED WITH H2O
203P	2.2				70.9	PLUG DOWN WITH 5BBL TO PIT
215P					70.9	RIGGED DOWN TRUCKS
230P					70.9	OFF LOCATION
					70.9	
					70.9	
					70.9	

CREW		UNIT	SUMMARY		
Cementer:	Josh	230	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Kale	205	3.8 bpm	217 psi	71 bbls
Bulk #1:					
Bulk #2:					



CEMENT TREATMENT REPORT

Customer: Black Oak Exploration	Well: Wessel #1-26	Ticket: WP 3054
City, State:	County: Decature,KS	Date: 7/9/2022
Field Rep: Spencer Savage	S-T-R: 26-5S-30W	Service: PTA

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4250 ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbls

Calculated Slurry - Lead	
Blend:	H-Plug
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	0.0406 bbs / ft.
Depth:	ft
Annular Volume:	bbls
Excess:	
Total Slurry:	64.5 bbls
Total Sacks:	255 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	bbls
Excess:	
Total Slurry:	bbls
Total Sacks:	sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
500am					Arrive on Location
515am					Safety Meeting
530am					Rig up
					Set Pipe at 2625' to pump plug
539am	5.0	50.0	5.0	5.0	Start H2O ahead
543am	4.5	60.0	12.6	17.6	Begin Slurry H-Plug 13.8ppg 50sks
545am	5.0	100.0	34.0	51.6	Start Displace with Mud
					Move up hole to 1600'
621am	5.0	50.0	5.0	56.6	Start H2O ahead
624am	5.0	200.0	25.2	81.8	Begin Slurry H-Plug 13.8ppg 100sks
630am	4.0	100.0	16.0	97.8	Displace
					Move up hole to 300'
713am	4.0	50.0	5.0	102.8	Start H2O ahead
716am	4.3	60.0	12.6	115.4	Begin Slurry H-Plug 13,8ppg 50sks
719am	2.0	50.0	1.0	116.4	Displace
					POOH insert 8 5/8 wooden plug to 40'
810am	2.0	50.0	2.5	118.9	Pump Slurry H-Plug 13.8ppg 10sks
815am	2.0	50.0	3.8	122.7	Pump Slurry H-Plug 13.8ppg 15sks Down Mouse Hole
817am	2.0	50.0	7.5	130.2	Pump Slurry H-Plug 13.8ppg 30sks Down Rat Hole
820am					Wash Up
835am					Rig Down
845am					Leave Location

CREW		UNIT	SUMMARY		
Cementer:	Spencer	26	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Micheal	230	3.7 bpm	73 psi	130 bbls
Bulk #1:	Charlie	180/530			
Bulk #2:					

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: Wessel 1-26
 Location: 2205 FNL / 2255 FEL 26- 5S - 30W
 Decatur Co. KS

Elevation: 2858' GL 2863' KB
 Field: Wildcat
 API No: 15-039-21284-0000
 Surface Casing: 8 5/8" set @ 265' KB

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

Drilling Contractor: Murfin Drilling Co Rig #7. Rig Phone (785-443-5616), Tool Pusher Arturo Cabezas (785-443-0495)

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Wessel 1-26					Koerperich 1				Brothers 1-27			
2205 FNL / 2255 FEL 26- 5S - 30W					Trans-Era: D&A				Murfin Drlg: D&A			
2863 KB					2840 KB		Structural Relationship		2836 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Stone Corral	2590	273	2591	272	2580	260	13	12	2566	270	3	2
Topeka	3704	-841	3708	-845	3682	-842	1	-3	3690	-854	13	9
LeCompton	3820	-957	3822	-959	3799	-959	2	0	3804	-968	11	9
Heebner	3880	-1017	3882	-1019	3857	-1017	0	-2	3864	-1028	11	9
Lansing	3928	-1065	3929	-1066	3904	-1064	-1	-2	3912	-1076	11	10
Lansing C	3952	-1089	3956	-1093	3929	-1089	0	-4	3940	-1104	15	11
Lansing F	3991	-1128	3995	-1132	3969	-1129	1	-3	3976	-1140	12	8
Lansing H	4036	-1173	4037	-1174	4012	-1172	-1	-2	4027	-1191	18	17
Lansing J	4080	-1217	4075	-1212	4048	-1208	-9	-4	4064	-1228	11	16
Lansing K	4103	-1240	4102	-1239	4074	-1234	-6	-5	4088	-1252	12	13
BKC	4138	-1275	4134	-1271	4105	-1265	-10	-6	4123	-1287	12	16
Total Depth	4235	-1372	4230	-1367	4602	-1762			4620	-1784		



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration LLC**

1474 S St. Paul St
Denver, CO 80210

ATTN: Tim Hedrick

Wessel #1-26

26-5S-30W Decatur, KS

Start Date: 2022.07.05 @ 08:49:00

End Date: 2022.07.05 @ 13:53:00

Job Ticket #: 67264 DST #: 1

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

Printed: 2022.07.11 @ 15:10:21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67264

DST#: 1

ATTN: Tim Hedrick

Test Start: 2022.07.05 @ 08:49:00

GENERAL INFORMATION:

Formation: **LKC B - C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:41:45

Time Test Ended: 13:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: 71

Interval: 3938.00 ft (KB) To 3964.00 ft (KB) (TVD)

Total Depth: 3964.00 ft (KB) (TVD)

Hole Diameter: 7.87 inches Hole Condition: Fair

Reference Elevations: 2863.00 ft (KB)

2858.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 20.86 psig @ 3939.00 ft (KB)

Start Date: 2022.07.05

End Date:

2022.07.05

Start Time: 08:49:01

End Time:

13:53:00

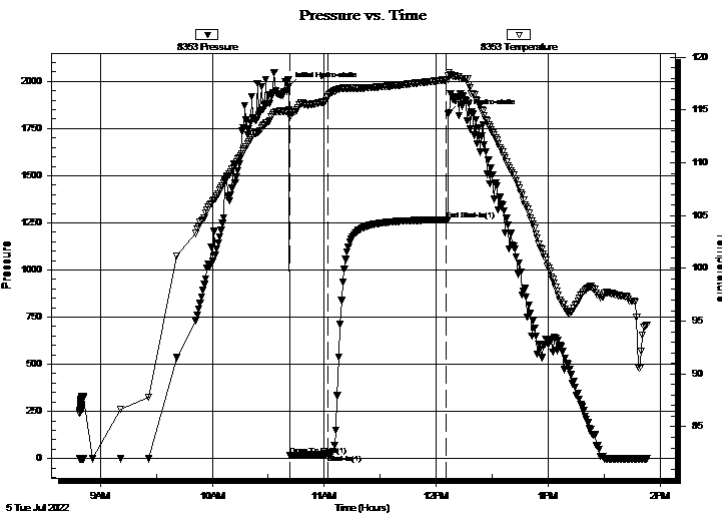
Capacity: 8000.00 psig

Last Calib.: 2022.07.05

Time On Btm: 2022.07.05 @ 10:41:00

Time Off Btm: 2022.07.05 @ 12:06:30

TEST COMMENT: 20:IF- Weak surface blow , stayed w eak surface blow (15.90 PSI)
60:IS- No blow back (1262.10 PSI)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1973.96	114.99	Initial Hydro-static
1	17.41	114.78	Open To Flow (1)
21	20.86	116.21	Shut-In(1)
84	1267.41	117.86	End Shut-In(1)
86	1830.47	118.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

Gas Rates

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



DRILL STEM TEST REPORT

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

ATTN: Tim Hedrick

Job Ticket: 67264

DST#: 1

Test Start: 2022.07.05 @ 08:49:00

GENERAL INFORMATION:

Formation: **LKC B - C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:41:45

Time Test Ended: 13:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: 71

Interval: 3938.00 ft (KB) To 3964.00 ft (KB) (TVD)

Reference Elevations: 2863.00 ft (KB)

Total Depth: 3964.00 ft (KB) (TVD)

2858.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8676 Outside

Press@RunDepth: psig @ 3939.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.05

End Date: 2022.07.05

Last Calib.: 2022.07.05

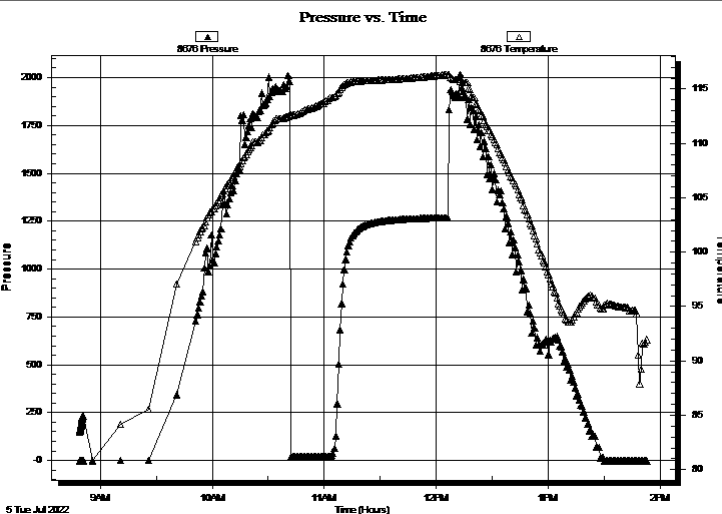
Start Time: 08:49:01

End Time: 13:53:15

Time On Btm:

Time Off Btm:

TEST COMMENT: 20:IF- Weak surface blow , stayed weak surface blow (15.90 PSI)
60:IS- No blow back (1262.10 PSI)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67264

DST#: 1

ATTN: Tim Hedrick

Test Start: 2022.07.05 @ 08:49:00

Tool Information

Drill Pipe:	Length: 3682.00 ft	Diameter: 3.80 inches	Volume: 51.65 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3938.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3911.00	
Hydraulic tool	5.00			3916.00	
Jars	5.00			3921.00	
EM Tool	4.00			3925.00	
Safety Joint	3.00			3928.00	
Packer	5.00			3933.00	32.00 Bottom Of Top Packer
Packer	5.00			3938.00	
Stubb	1.00			3939.00	
Recorder	0.00	8353	Inside	3939.00	
Recorder	0.00	8676	Outside	3939.00	
Perforations	22.00			3961.00	
Bullnose	3.00			3964.00	26.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67264

DST#: 1

ATTN: Tim Hedrick

Test Start: 2022.07.05 @ 08:49:00

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: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

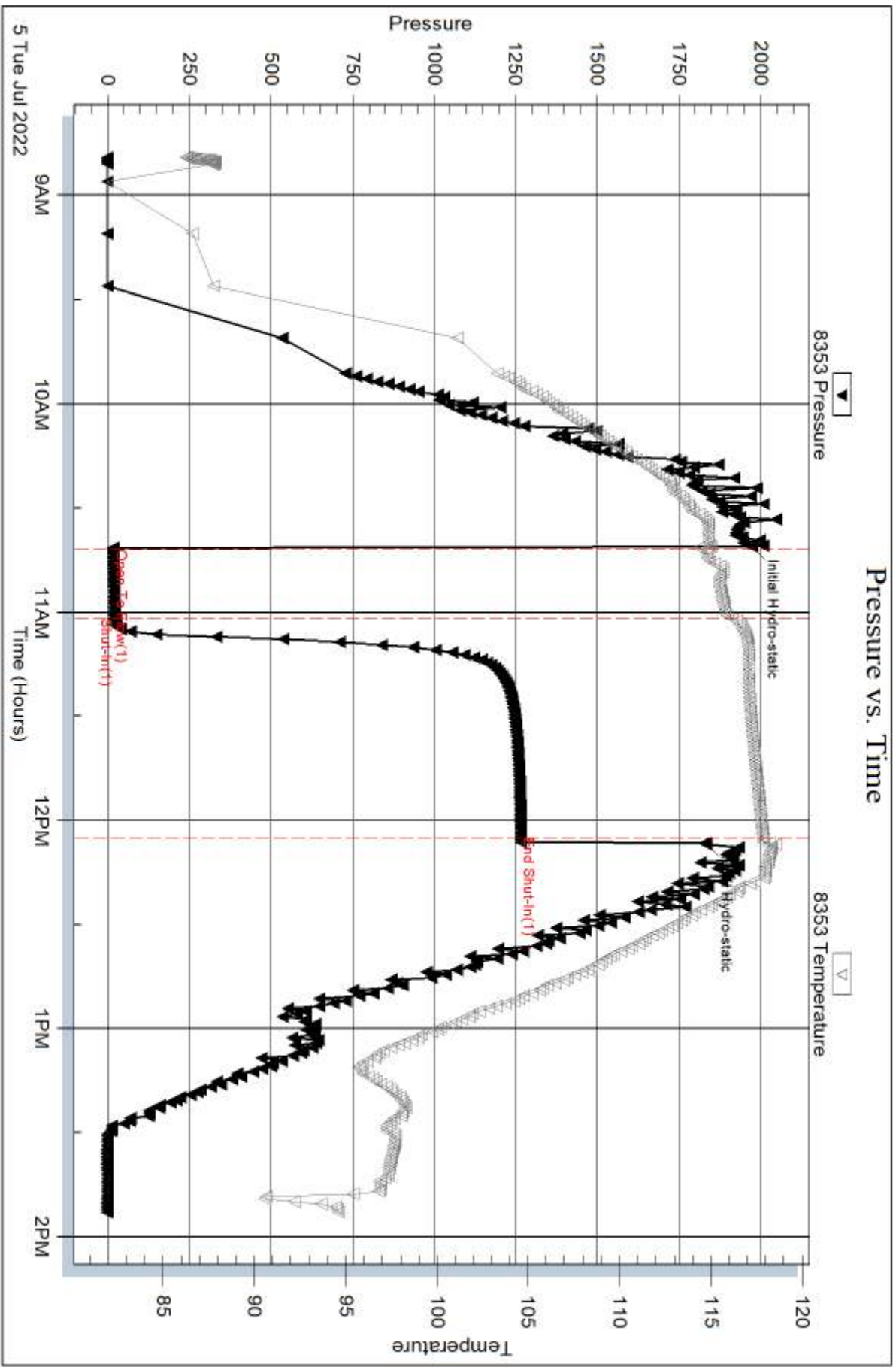
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

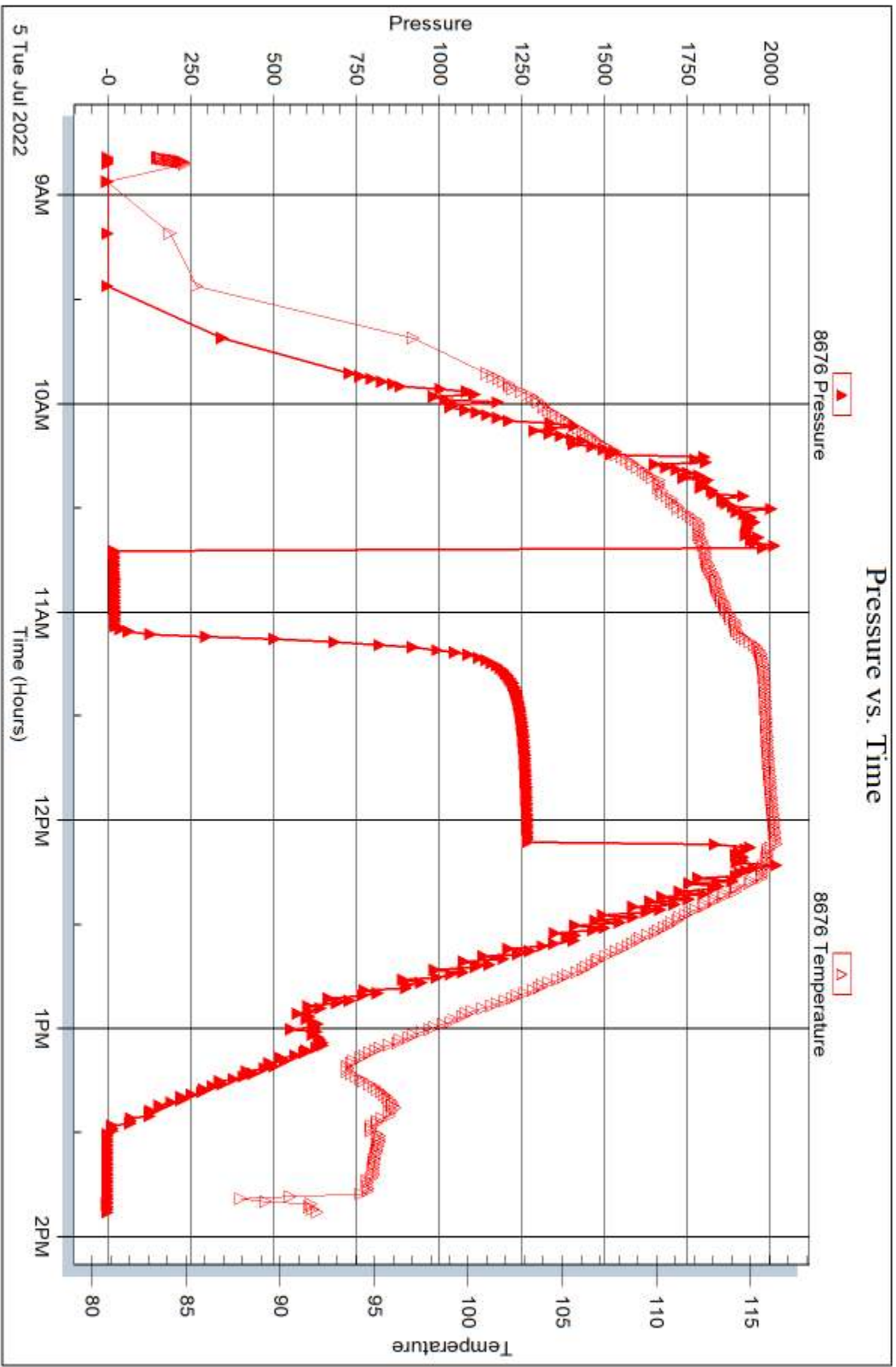


Serial #: 8676

Outside Black Oak Exploration LLC

Wessel #1-26

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 67264

Printed: 2022.07.11 @ 15:10:23



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration LLC**

1474 S St. Paul St
Denver, CO 80210

ATTN: Tim Hedrick

Wessel #1-26

26-5S-30W Decatur, KS

Start Date: 2022.07.05 @ 21:16:00

End Date: 2022.07.06 @ 03:38:15

Job Ticket #: 67265 DST #: 2

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

Printed: 2022.07.11 @ 15:08:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67265

DST#: 2

ATTN: Tim Hedrick

Test Start: 2022.07.05 @ 21:16:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:36:45

Time Test Ended: 03:38:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: 3960.00 ft (KB) To 3982.00 ft (KB) (TVD)

Reference Elevations: 2863.00 ft (KB)

Total Depth: 3982.00 ft (KB) (TVD)

2858.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 179.04 psig @ 3961.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.05

End Date:

2022.07.06

Last Calib.:

2022.07.06

Start Time:

21:16:01

End Time:

03:38:15

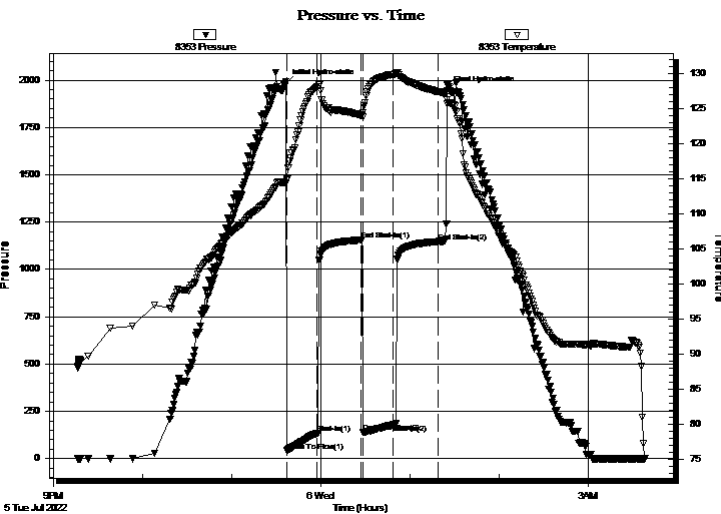
Time On Btm:

2022.07.05 @ 23:36:00

Time Off Btm:

2022.07.06 @ 01:24:45

TEST COMMENT: 20:IF- Fair surface blow , built to 4 inches in 10 min, BOB in 18 min, final blow is 10.90 inches (113.10 psi)
30:IS- No blow back (1150.30 psi)
20:FF- Weak surface blow , built to 2 1/2 inches in 10 min, final blow is 2.92 inches (175.60 psi)
30:FS- No blow back (1144.70 psi)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1980.63	114.43	Initial Hydro-static
1	40.51	114.89	Open To Flow (1)
21	131.31	128.09	Shut-In(1)
51	1155.32	124.08	End Shut-In(1)
53	138.58	124.50	Open To Flow (2)
73	179.04	129.87	Shut-In(2)
103	1146.80	127.43	End Shut-In(2)
109	1942.81	126.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
234.00	MW 80%W 20%M	1.15
126.00	MW 60%W 40%M	1.77

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67265

DST#: 2

ATTN: Tim Hedrick

Test Start: 2022.07.05 @ 21:16:00

GENERAL INFORMATION:

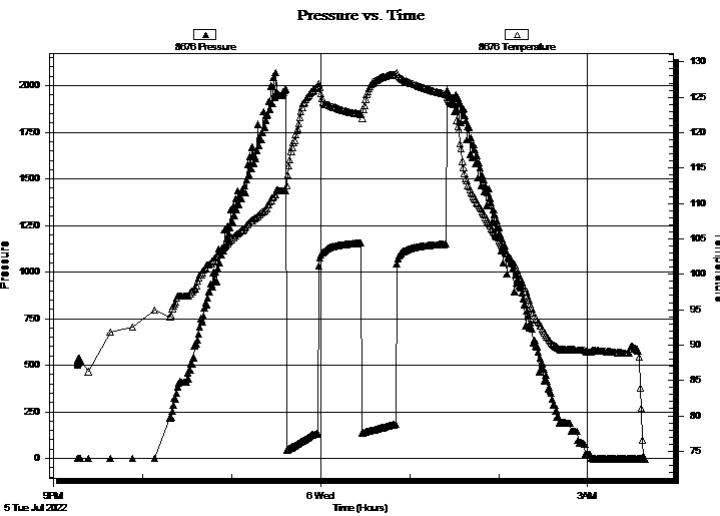
Formation: **LKC D**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 23:36:45
 Tester: Nathan Aneas
 Time Test Ended: 03:38:15
 Unit No: 71
Interval: 3960.00 ft (KB) To 3982.00 ft (KB) (TVD)
 Reference Elevations: 2863.00 ft (KB)
 Total Depth: 3982.00 ft (KB) (TVD)
 2858.00 ft (CF)
 Hole Diameter: 7.87 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8676

Outside

Press@RunDepth: psig @ 3961.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.07.05 End Date: 2022.07.06 Last Calib.: 2022.07.06
 Start Time: 21:16:01 End Time: 03:38:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 20:IF- Fair surface blow , built to 4 inches in 10 min, BOB in 18 min, final blow is 10.90 inches (113.10 psi)
 30:IS- No blow back (1150.30 psi)
 20:FF- Weak surface blow , built to 2 1/2 inches in 10 min, final blow is 2.92 inches (175.60 psi)
 30:FS- No blow back (1144.70 psi)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
234.00	MW 80%W 20%M	1.15
126.00	MW 60%W 40%M	1.77

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67265

DST#: 2

ATTN: Tim Hedrick

Test Start: 2022.07.05 @ 21:16:00

Tool Information

Drill Pipe:	Length: 3710.00 ft	Diameter: 3.80 inches	Volume: 52.04 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3960.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3933.00	
Hydraulic tool	5.00			3938.00	
Jars	5.00			3943.00	
EM Tool	4.00			3947.00	
Safety Joint	3.00			3950.00	
Packer	5.00			3955.00	32.00 Bottom Of Top Packer
Packer	5.00			3960.00	
Stubb	1.00			3961.00	
Recorder	0.00	8353	Inside	3961.00	
Recorder	0.00	8676	Outside	3961.00	
Perforations	18.00			3979.00	
Bullnose	3.00			3982.00	22.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67265

DST#: 2

ATTN: Tim Hedrick

Test Start: 2022.07.05 @ 21:16:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: 0.29 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
234.00	MW 80%W 20%M	1.151
126.00	MW 60%W 40%M	1.767

Total Length: 360.00 ft

Total Volume: 2.918 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

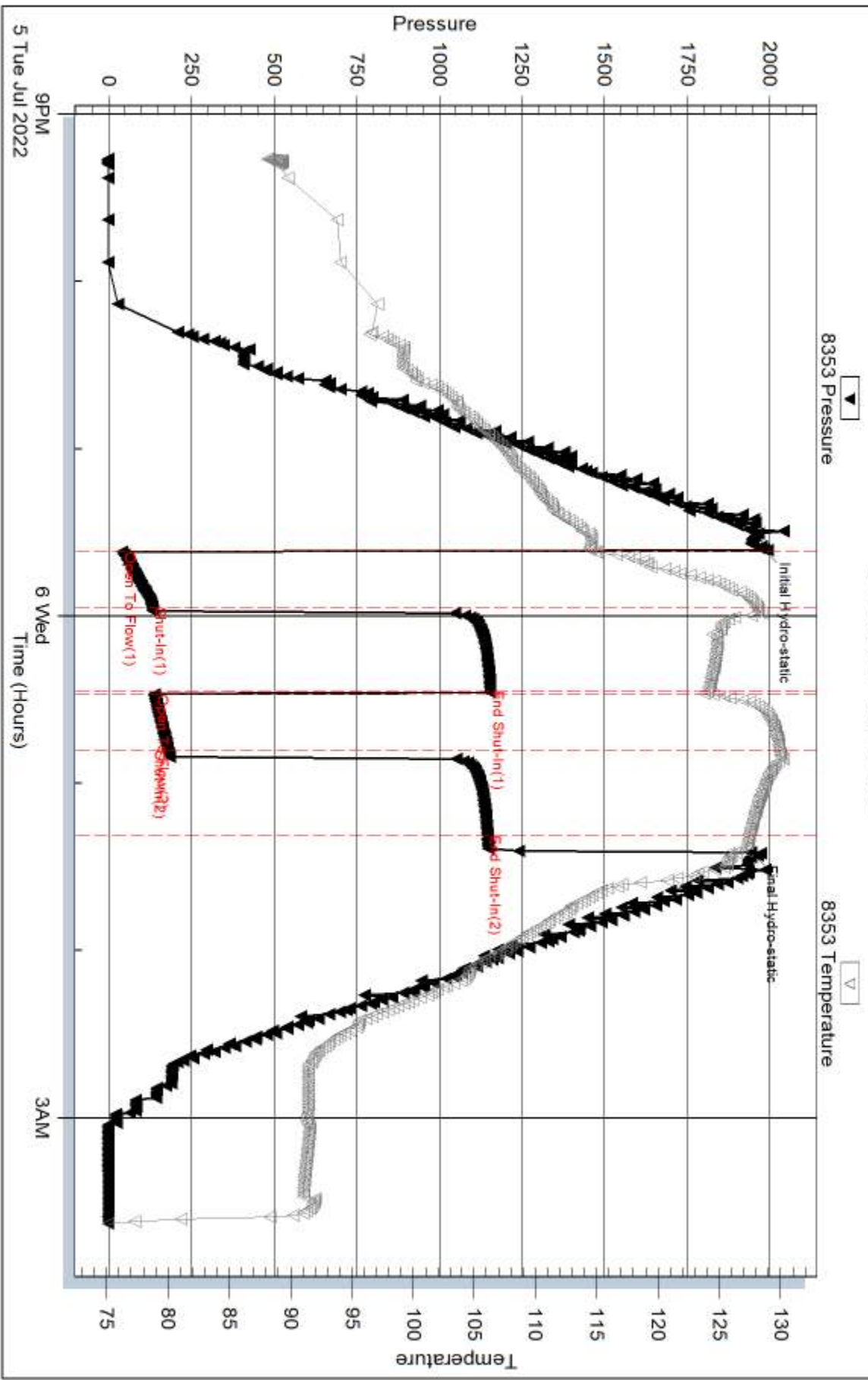
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

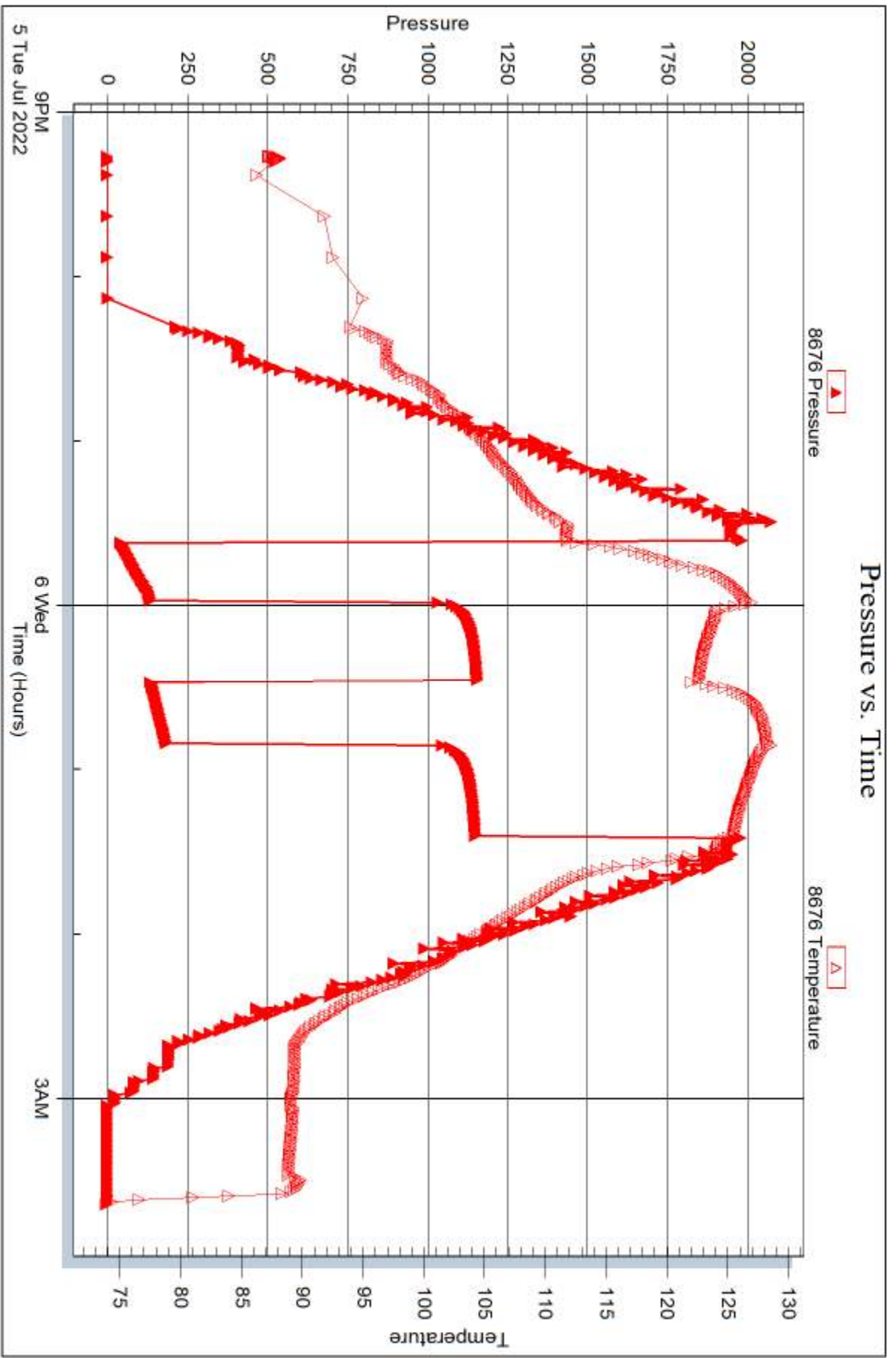


Serial #: 8676

Outside Black Oak Exploration LLC

Wessel #1-26

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 67265

Printed: 2022.07.11 @ 15:08:37



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration LLC**

1474 S St. Paul St
Denver, CO 80210

ATTN: Tim Hedrick

Wessel #1-26

26-5S-30W Decatur, KS

Start Date: 2022.07.06 @ 14:17:00

End Date: 2022.07.06 @ 19:56:15

Job Ticket #: 67266 DST #: 3

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

Printed: 2022.07.11 @ 15:07:44



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67266

DST#: 3

ATTN: Tim Hedrick

Test Start: 2022.07.06 @ 14:17:00

GENERAL INFORMATION:

Formation: **LKC F - G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:38:30

Time Test Ended: 19:56:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: 3981.00 ft (KB) To 4013.00 ft (KB) (TVD)

Reference Elevations: 2863.00 ft (KB)

Total Depth: 4013.00 ft (KB) (TVD)

2858.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 36.22 psig @ 3982.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.06

End Date:

2022.07.06

Last Calib.:

2022.07.06

Start Time:

14:17:01

End Time:

19:56:15

Time On Btm:

2022.07.06 @ 16:38:00

Time Off Btm:

2022.07.06 @ 17:55:00

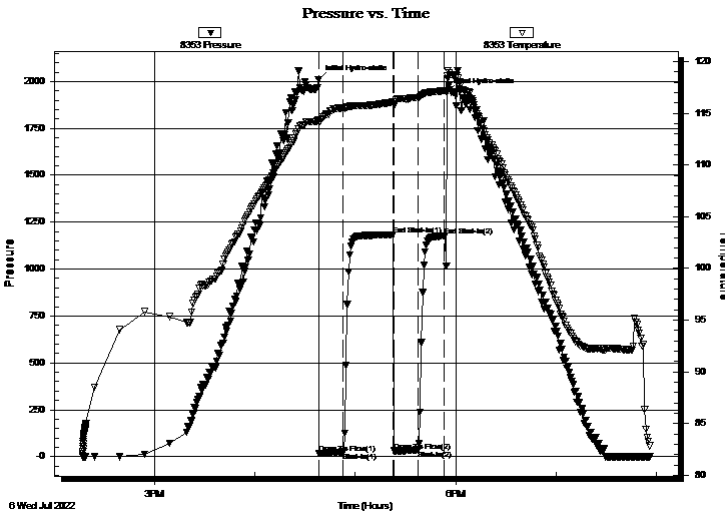
TEST COMMENT: 15:IF- Weak surface blow , built to 1/2 inch in 10 min, final blow is 1/2 inch (20.00 psi)

30:IS- No blow back (1176.60 psi)

15:FF- Weak surface blow in 10 min, final blow is 1/4 inch (41.40 psi)

15:FS- No blow back (1172.00 psi)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.43	114.37	Initial Hydro-static
1	17.68	114.13	Open To Flow (1)
15	24.91	115.51	Shut-In(1)
45	1181.77	116.08	End Shut-In(1)
45	30.30	115.84	Open To Flow (2)
60	36.22	116.54	Shut-In(2)
75	1176.50	117.18	End Shut-In(2)
77	1941.55	118.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%M (Spots of oil)	0.07

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67266

DST#: 3

ATTN: Tim Hedrick

Test Start: 2022.07.06 @ 14:17:00

GENERAL INFORMATION:

Formation: **LKC F - G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:38:30

Time Test Ended: 19:56:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: **3981.00 ft (KB) To 4013.00 ft (KB) (TVD)**

Total Depth: 4013.00 ft (KB) (TVD)

Hole Diameter: 7.87 inches Hole Condition: Fair

Reference Elevations: 2863.00 ft (KB)

2858.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8676**

Outside

Press@RunDepth: psig @ 3982.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.06

End Date:

2022.07.06

Last Calib.:

2022.07.06

Start Time: 14:17:01

End Time:

19:56:00

Time On Btm:

Time Off Btm:

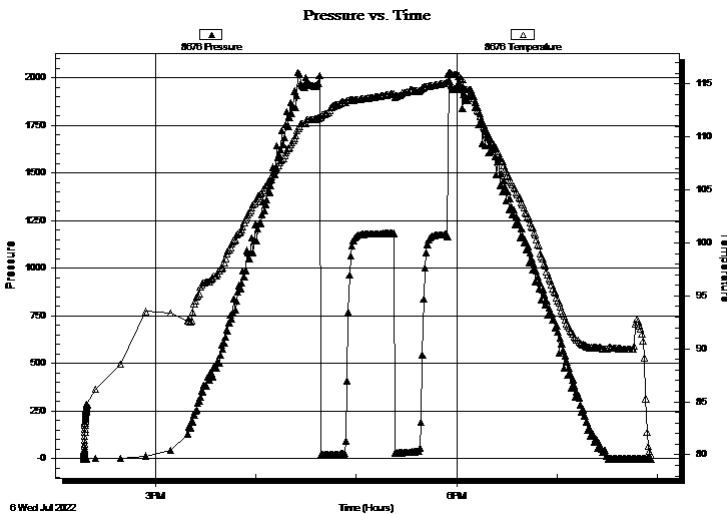
TEST COMMENT: 15:IF- Weak surface blow , built to 1/2 inch in 10 min, final blow is 1/2 inch (20.00 psi)

30:IS- No blow back (1176.60 psi)

15:FF- Weak surface blow in 10 min, final blow is 1/4 inch (41.40 psi)

15:FS- No blow back (1172.00 psi)

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%M (Spots of oil)	0.07

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

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67266

DST#: 3

ATTN: Tim Hedrick

Test Start: 2022.07.06 @ 14:17:00

Tool Information

Drill Pipe:	Length: 3741.00 ft	Diameter: 3.80 inches	Volume: 52.48 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3981.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3954.00	
Hydraulic tool	5.00			3959.00	
Jars	5.00			3964.00	
EM Tool	4.00			3968.00	
Safety Joint	3.00			3971.00	
Packer	5.00			3976.00	32.00 Bottom Of Top Packer
Packer	5.00			3981.00	
Stubb	1.00			3982.00	
Recorder	0.00	8353	Inside	3982.00	
Recorder	0.00	8676	Outside	3982.00	
Perforations	28.00			4010.00	
Bullnose	3.00			4013.00	32.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67266

DST#: 3

ATTN: Tim Hedrick

Test Start: 2022.07.06 @ 14:17:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%M (Spots of oil)	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

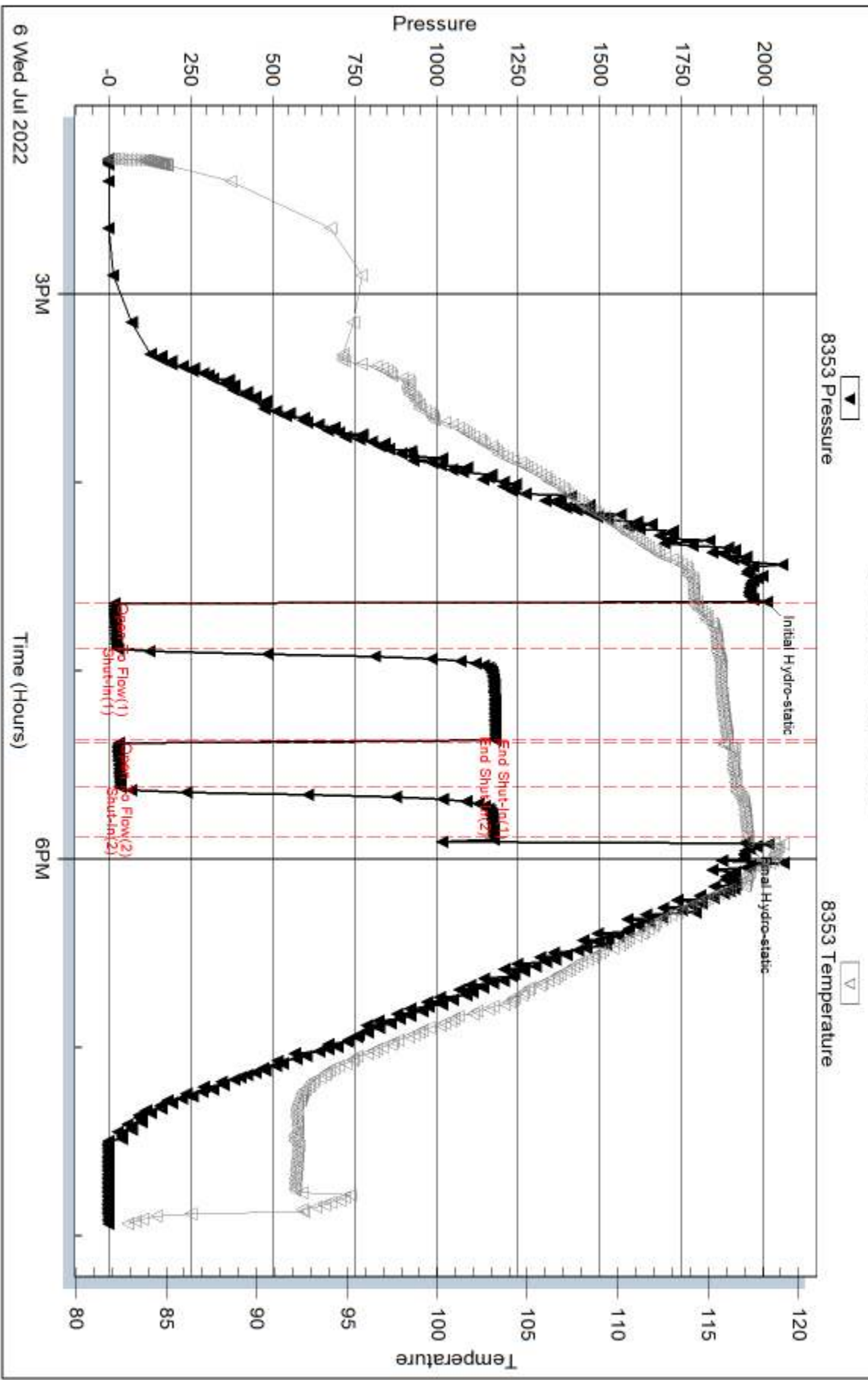
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

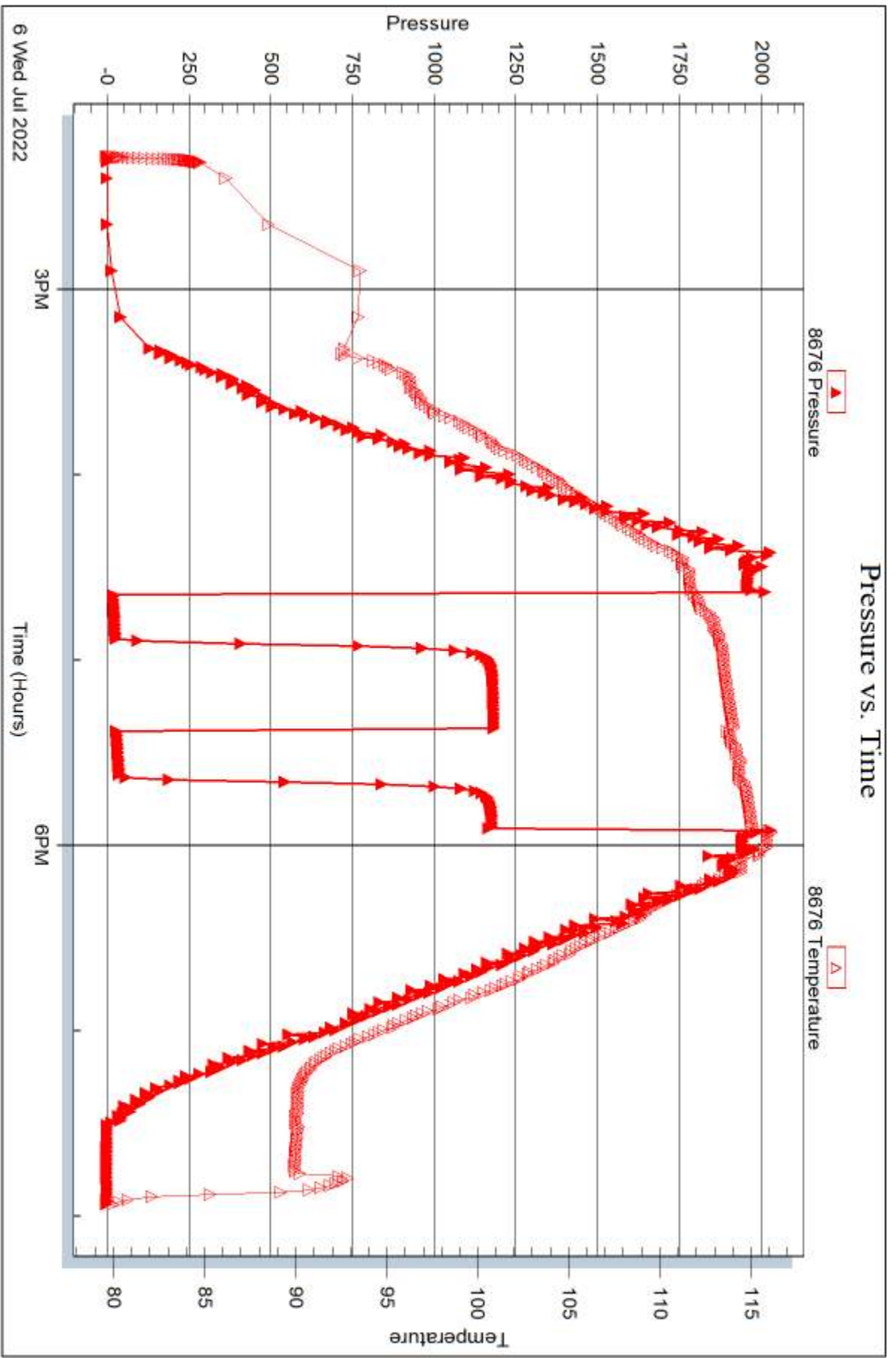


Serial #: 8676

Outside Black Oak Exploration LLC

Wessel #1-26

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 67266

Printed: 2022.07.11 @ 15:07:45



DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration LLC**

1474 S St. Paul St
Denver, CO 80210

ATTN: Tim Hedrick

Wessel #1-26

26-5S-30W Decatur, KS

Start Date: 2022.07.07 @ 04:50:00

End Date: 2022.07.07 @ 10:24:15

Job Ticket #: 67267 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.11 @ 15:04:17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67267

DST#: 4

ATTN: Tim Hedrick

Test Start: 2022.07.07 @ 04:50:00

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:44:30

Time Test Ended: 10:24:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: 4024.00 ft (KB) To 4050.00 ft (KB) (TVD)

Reference Elevations: 2863.00 ft (KB)

Total Depth: 4050.00 ft (KB) (TVD)

2858.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 90.42 psig @ 4025.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.07

End Date:

2022.07.07

Last Calib.:

2022.07.07

Start Time:

04:50:01

End Time:

10:24:15

Time On Btm:

2022.07.07 @ 06:43:30

Time Off Btm:

2022.07.07 @ 08:34:30

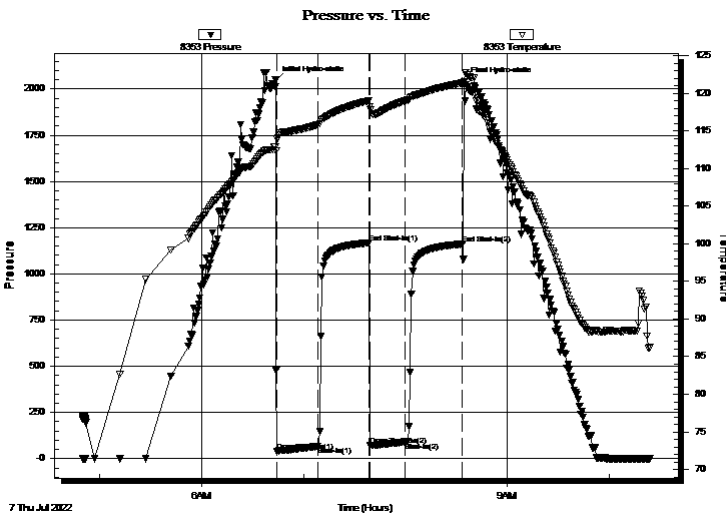
TEST COMMENT: 20:IF- Fair surface blow , built to 2 3/4 inches in 10 min, final blow is 3 1/2 inches (54.80 psi)

30:IS- No blow back (1162.00 psi)

20:FF- Weak surface blow , built to 1/2 inch in 10 min, final blow is 1 1/4 inch (88.40 psi)

30:FS- No blow back (1155.30 psi)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2047.90	112.91	Initial Hydro-static
1	41.13	113.90	Open To Flow (1)
25	66.72	115.85	Shut-In(1)
55	1167.35	119.02	End Shut-In(1)
56	71.69	118.23	Open To Flow (2)
76	90.42	118.97	Shut-In(2)
110	1161.07	121.37	End Shut-In(2)
111	2039.49	121.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
174.00	SOGMCW 50%W 40%M 6%G 4%O	0.86

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67267

DST#: 4

ATTN: Tim Hedrick

Test Start: 2022.07.07 @ 04:50:00

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:44:30

Time Test Ended: 10:24:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: 4024.00 ft (KB) To 4050.00 ft (KB) (TVD)

Reference Elevations: 2863.00 ft (KB)

Total Depth: 4050.00 ft (KB) (TVD)

2858.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8676 Outside

Press@RunDepth: psig @ 4025.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.07 End Date: 2022.07.07

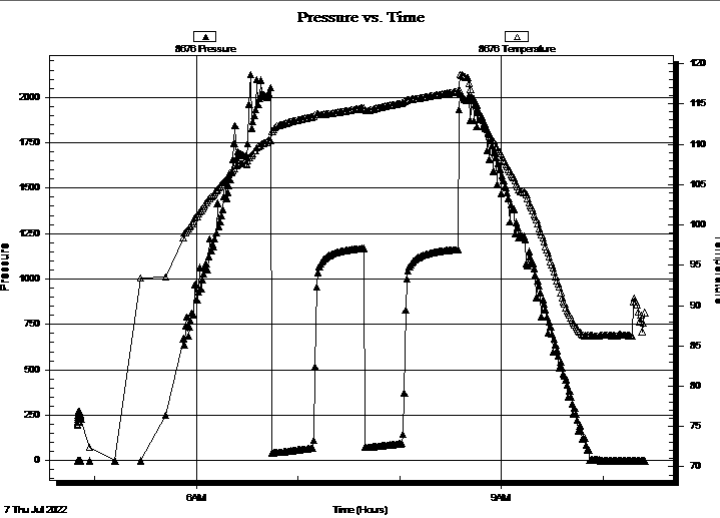
Last Calib.: 2022.07.07

Start Time: 04:50:01 End Time: 10:24:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 20:IF- Fair surface blow , built to 2 3/4 inches in 10 min, final blow is 3 1/2 inches (54.80 psi)
30:IS- No blow back (1162.00 psi)
20:FF- Weak surface blow , built to 1/2 inch in 10 min, final blow is 1 1/4 inch (88.40 psi)
30:FS- No blow back (1155.30 psi)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
174.00	SOGMCW 50%W 40%M 6%G 4%O	0.86

* 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

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67267

DST#: 4

ATTN: Tim Hedrick

Test Start: 2022.07.07 @ 04:50:00

Tool Information

Drill Pipe:	Length: 3772.00 ft	Diameter: 3.80 inches	Volume: 52.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4024.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3997.00	
Hydraulic tool	5.00			4002.00	
Jars	5.00			4007.00	
EM Tool	4.00			4011.00	
Safety Joint	3.00			4014.00	
Packer	5.00			4019.00	32.00 Bottom Of Top Packer
Packer	5.00			4024.00	
Stubb	1.00			4025.00	
Recorder	0.00	8353	Inside	4025.00	
Recorder	0.00	8676	Outside	4025.00	
Perforations	22.00			4047.00	
Bullnose	3.00			4050.00	26.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67267

DST#: 4

ATTN: Tim Hedrick

Test Start: 2022.07.07 @ 04:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 91.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
174.00	SOGMCW 50%W 40%M 6%G 4%O	0.856

Total Length: 174.00 ft Total Volume: 0.856 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

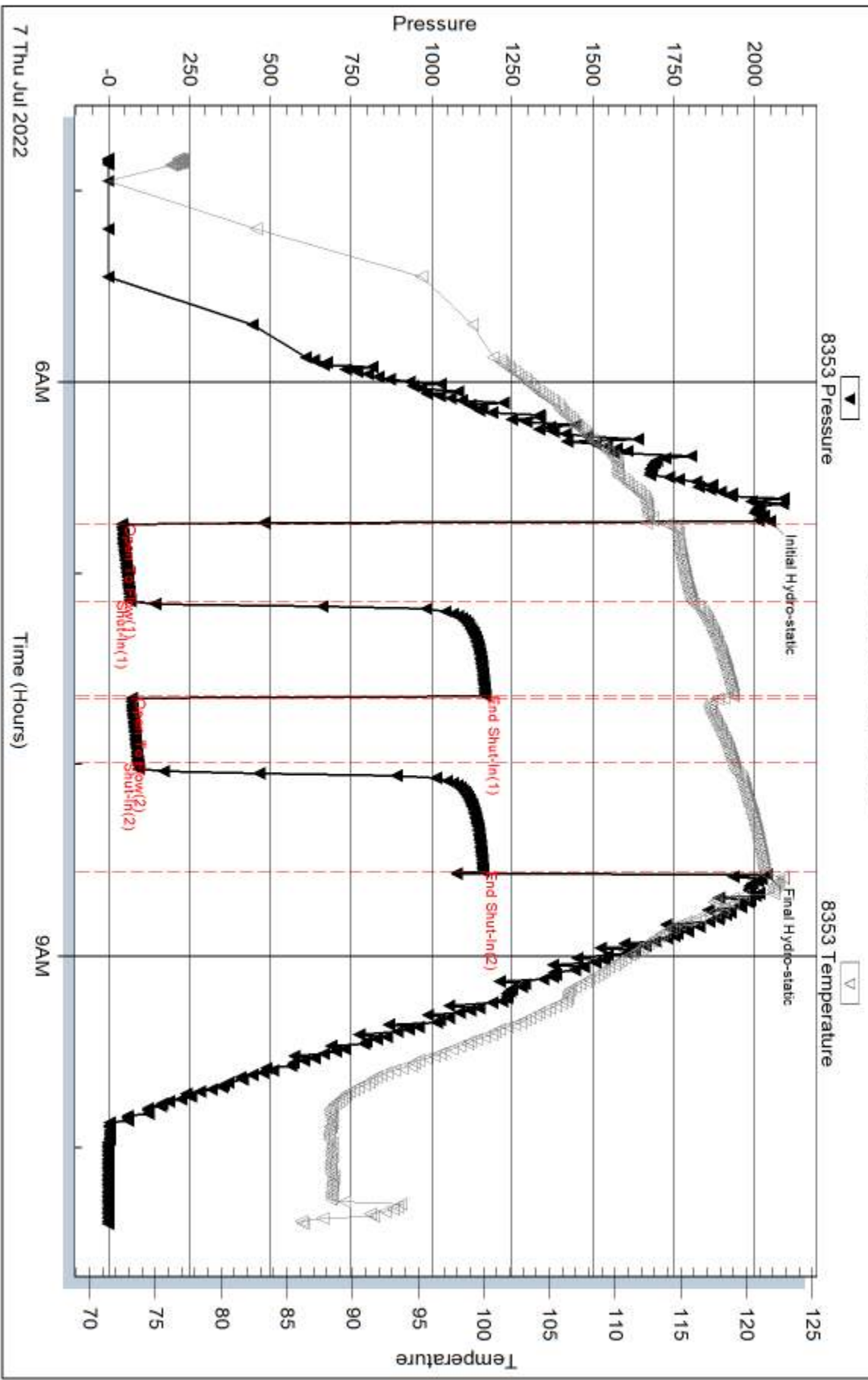
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

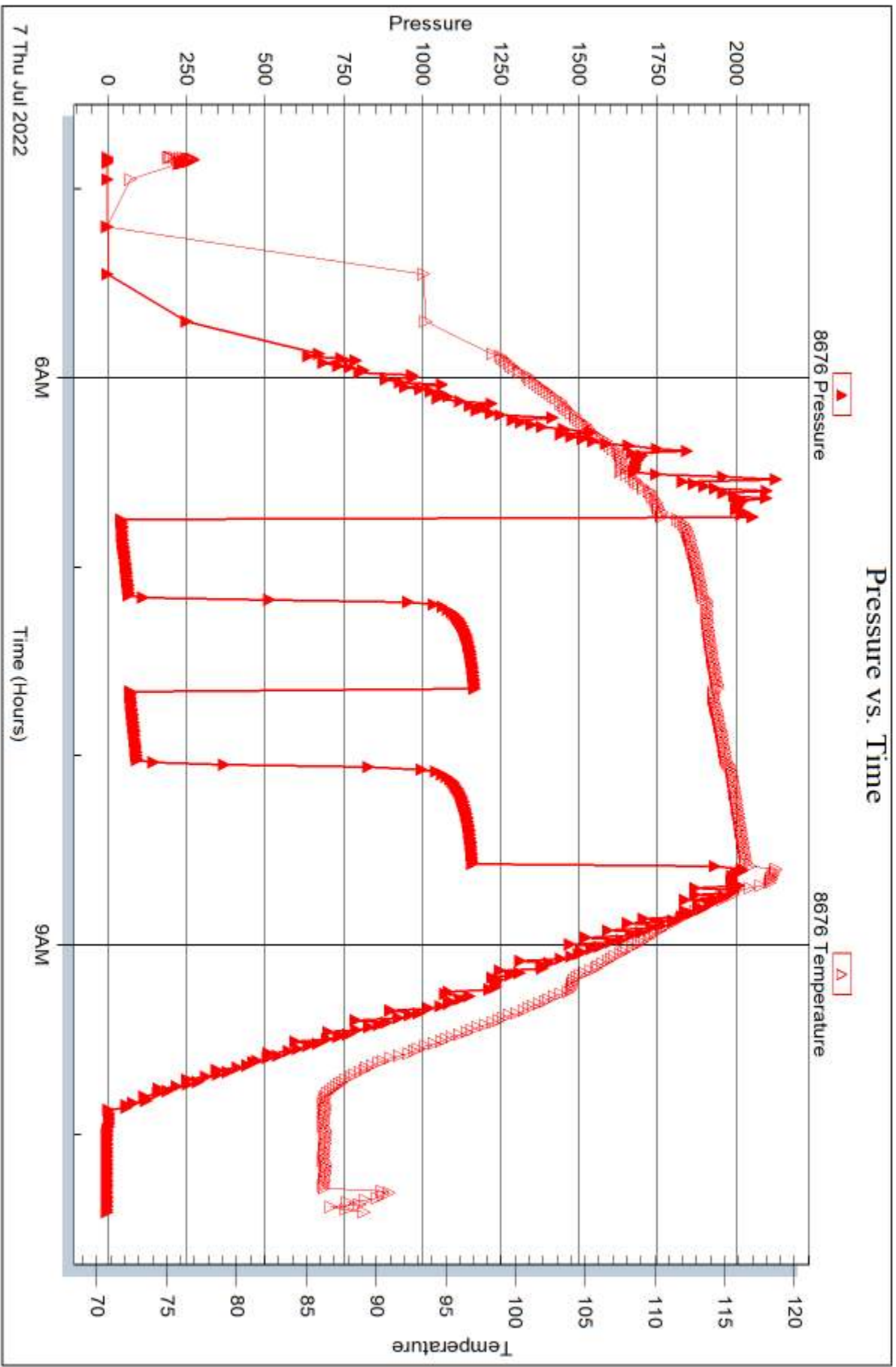


Serial #: 8676

Outside Black Oak Exploration LLC

Wessel #1-26

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Black Oak Exploration LLC**

1474 S St. Paul St
Denver, CO 80210

ATTN: Tim Hedrick

Wessel #1-26

26-5S-30W Decatur, KS

Start Date: 2022.07.07 @ 20:30:00

End Date: 2022.07.08 @ 02:50:15

Job Ticket #: 67268 DST #: 5

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

Printed: 2022.07.11 @ 14:57:48



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67268

DST#: 5

ATTN: Tim Hedrick

Test Start: 2022.07.07 @ 20:30:00

GENERAL INFORMATION:

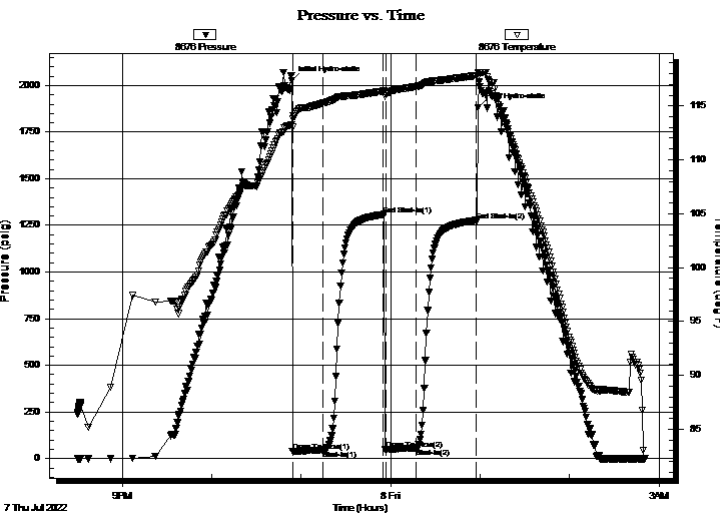
Formation: **LKC J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 22:54:15
 Tester: Nathan Aneas
 Time Test Ended: 02:50:15
 Unit No: 71
 Interval: **4048.00 ft (KB) To 4090.00 ft (KB) (TVD)**
 Reference Elevations: 2863.00 ft (KB)
 Total Depth: 4090.00 ft (KB) (TVD)
 2858.00 ft (CF)
 Hole Diameter: 7.87 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8676

Outside

Press@RunDepth: 57.48 psig @ 4049.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.07.07 End Date: 2022.07.08 Last Calib.: 2022.07.08
 Start Time: 20:30:01 End Time: 02:50:15 Time On Btm: 2022.07.07 @ 22:53:30
 Time Off Btm: 2022.07.08 @ 00:58:30

TEST COMMENT: 20:IF- Fair surface blow , built to 2 1/4 inch in 10 min, final blow is 2 3/4 inches (42.40 psi)
 40:IS- No blow back (1303.40 psi)
 20:FF- Weak surface blow , built to 1/4 inch in 10 min, final blow is 1 inch (54.10 psi)
 40:FS- No blow back (1272.30 psi)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.91	113.28	Initial Hydro-static
1	38.45	113.82	Open To Flow (1)
22	46.27	115.27	Shut-In(1)
62	1307.99	116.38	End Shut-In(1)
63	51.44	116.14	Open To Flow (2)
84	57.48	116.78	Shut-In(2)
124	1276.87	117.82	End Shut-In(2)
125	1881.70	118.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	SOGWCM 65%M 20%W 10%G 5%O	0.39

* 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

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67268

DST#: 5

ATTN: Tim Hedrick

Test Start: 2022.07.07 @ 20:30:00

Tool Information

Drill Pipe:	Length: 3804.00 ft	Diameter: 3.80 inches	Volume: 53.36 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 234.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4048.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4021.00	
Hydraulic tool	5.00			4026.00	
Jars	5.00			4031.00	
EM Tool	4.00			4035.00	
Safety Joint	3.00			4038.00	
Packer	5.00			4043.00	32.00 Bottom Of Top Packer
Packer	5.00			4048.00	
Stubb	1.00			4049.00	
Recorder	0.00	8353	Inside	4049.00	
Recorder	0.00	8676	Outside	4049.00	
Perforations	38.00			4087.00	
Bullnose	3.00			4090.00	42.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Black Oak Exploration LLC

26-5S-30W Decatur, KS

1474 S St. Paul St
Denver, CO 80210

Wessel #1-26

Job Ticket: 67268

DST#: 5

ATTN: Tim Hedrick

Test Start: 2022.07.07 @ 20:30:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
80.00	SOGWCM 65%M 20%W 10%G 5%O	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 0

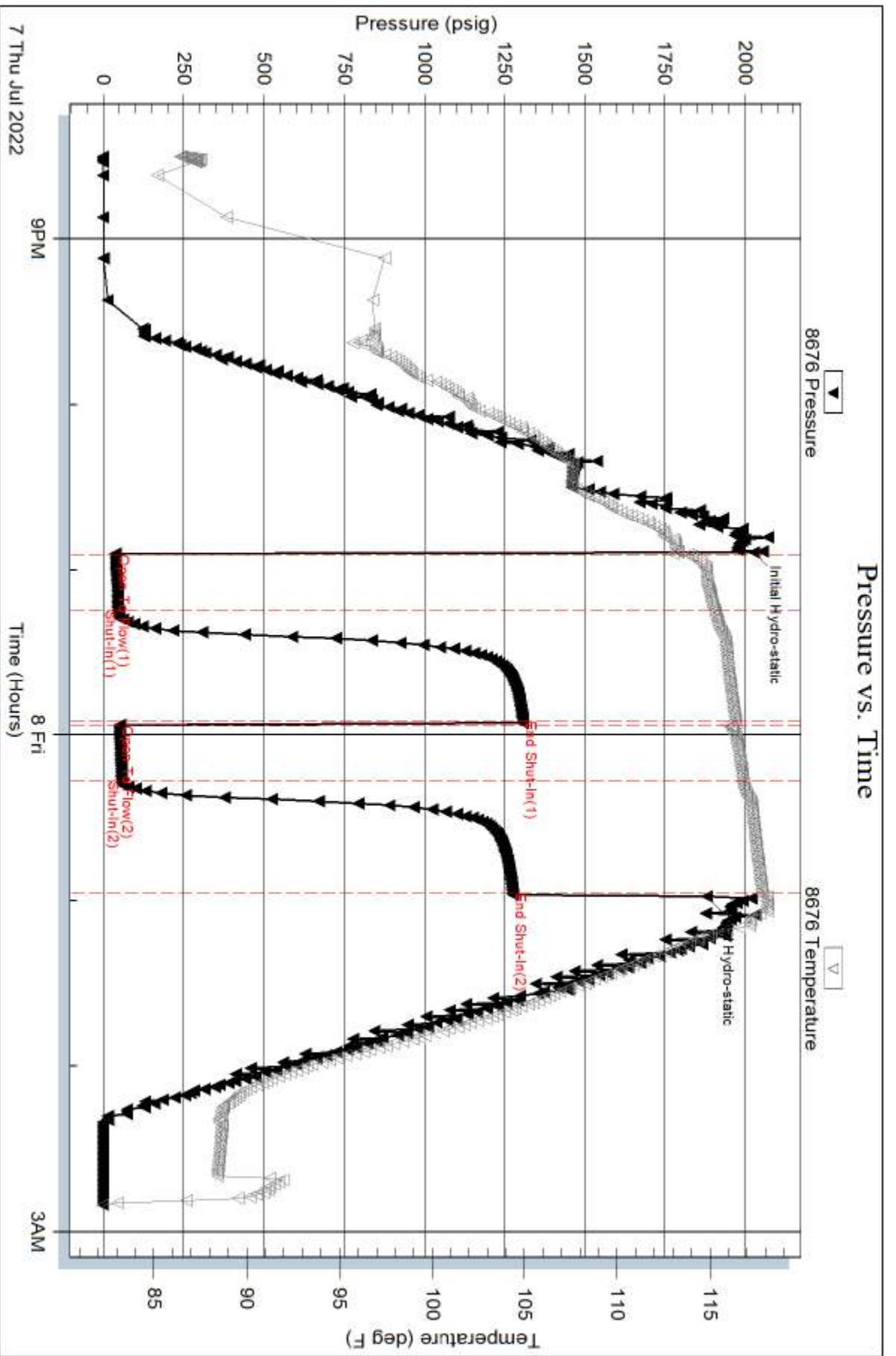
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



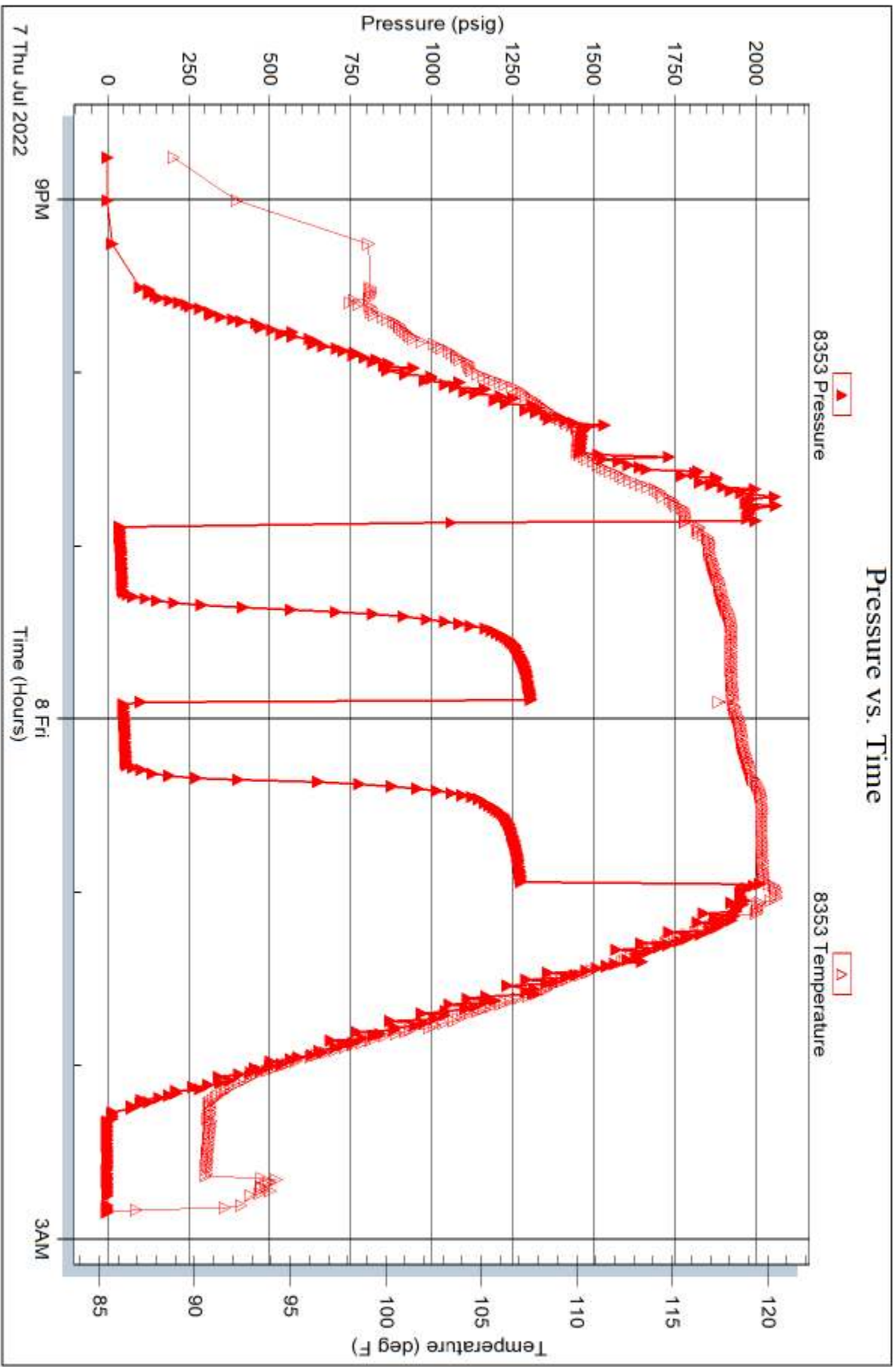
Serial #: 8353

Inside

Black Oak Exploration LLC

Wessel #1-26

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 67268

Printed: 2022.07.11 @ 14:58:03



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **67264**

Well Name & No. Wessel #1-26 Test No. 1 Date 07/05/22
 Company Black Oak Exploration LLC Elevation 2863 KB 2858 GL
 Address 1474 S. St. Paul St Denver, CO 80210
 Co. Rep / Geo. Tim Hedrick Rig Murfin #7
 Location: Sec. 26 Twp 5S Rge. 30W Co. Decatur State KS

Interval Tested 3938-3964 Zone Tested LKC B+C
 Anchor Length 26' Drill Pipe Run 3682 Mud Wt. 8.7
 Top Packer Depth 3933 Drill Collars Run 234 Vis 72
 Bottom Packer Depth 3938 Wt. Pipe Run _____ WL 7.2
 Total Depth 3964 Chlorides 1600 ppm System LCM 5#

Blow Description IF - Weak surface blow, stayed weak surface (15.90 psi)
ISI - No blow back (1262.10 psi)

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

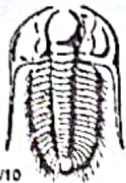
Rec Total 5 BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1974 Test 1800 T-On Location 07:00
 (B) First Initial Flow 17 Jars 300 T-Started 08:49
 (C) First Final Flow 21 Safety Joint _____ T-Open 10:41
 (D) Initial Shut-In 1267 Circ Sub _____ T-Pulled 12:10
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 13:45
 (F) Second Final Flow _____ Mileage 48 RT 72 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1830 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 20 Sub Total 0
 Initial Shut-In 60 Total 2172
 Final Flow _____ MP/DST Disc't _____
 Final Shut-In _____
 Sub Total 2172

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67265

Well Name & No. Wessel #1-26 Test No. 2 Date 07/05/22
 Company Black Oak Exploration LLC Elevation 2863 KB 2858 GL
 Address 1474 S. St. Paul St Denver, CO 80210
 Co. Rep / Geo. Tim Hedrick Rig Murfin #7
 Location: Sec. 26 Twp 5s Rge. 30W Co. Decatur State KS

Interval Tested 3960 - 3982 Zone Tested LKa "D"
 Anchor Length 22 Drill Pipe Run 3710 Mud Wt. 9.0
 Top Packer Depth 3955 Drill Collars Run 234 Vis 67
 Bottom Packer Depth 3960 Wt. Pipe Run _____ WL 6.8
 Total Depth 3982 Chlorides 1300 ppm System LCM 5#

Blow Description IF - Fair surface blow, built to 4 inches in 10 min, BOB in 18 min, Final blow 10.90 in (113.10 PSI)
ISI - No blow back (1150.30 psi)
FK - Weak surface blow, built to 2 1/2 inches in 10 min, Final blow is 2.92 in (175.60 psi)
FSI - No blow back (1144.70 psi)

Rec	Feet of	%gas	%oil	%water	%mud
<u>234</u>	<u>MW</u>		<u>80</u>	<u>20</u>	
<u>126</u>	<u>MW</u>		<u>60</u>	<u>40</u>	
____	____				
____	____				
____	____				

Rec Total 360 BHT 127 Gravity — API RW 290 @ 69 °F Chlorides 25000 ppm

(A) Initial Hydrostatic 1981 Test 1800 T-On Location 20:30
 (B) First Initial Flow 41 Jars 300 T-Started 21:16
 (C) First Final Flow 131 Safety Joint _____ T-Open 23:36
 (D) Initial Shut-In 1155 Circ Sub _____ T-Pulled 01:30
 (E) Second Initial Flow 139 Hourly Standby _____ T-Out 03:35
 (F) Second Final Flow 179 Mileage 48 RT 72
 (G) Final Shut-In 1147 Sampler _____
 (H) Final Hydrostatic 1943 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2172
 Sub Total 2172 MP/BST Disc _____

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67266

Well Name & No. Wessel #1-26 Test No. 3 Date 07/06/22
 Company Black Oak Exploration LLC Elevation 2863 KB 2858 GL
 Address 1474 S. St. Paul St Denver, CO 80210
 Co. Rep / Geo. Jim Hedrick Rig Murfin #7
 Location: Sec. 26 Twp 5s Rge. 30W Co. Decatur State KS

Interval Tested 3981 - 4013 Zone Tested LKC FAG
 Anchor Length 32' Drill Pipe Run 3741 Mud Wt. 9.1
 Top Packer Depth 3976 Drill Collars Run 234 Vls 57
 Bottom Packer Depth 3981 Wt. Pipe Run _____ WL 7.2
 Total Depth 4013 Chlorides 1500 ppm System LCM 5#

Blow Description IF-Weak surface blow, built to 1/2 inch in 10 min, final blow is 1/2 inch
ISI- No blow back (1176.60)psi (20.00 psi)
FF- Weak surface blow, built in 10 min, final blow is 1/4 inch (41.40 psi)
PSI- No blow back (1172.00 psi)

Rec	Feet of	Mud	%gas	%oil	%water	%mud
<u>15</u>	<u>Feet of</u>	<u>(Spots of oil)</u>				<u>100</u>
Rec _____	Feet of _____		%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____		%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____		%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____		%gas _____	%oil _____	%water _____	%mud _____

Rec Total 15' BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2009 Test 1950 T-On Location 13:45
 (B) First Initial Flow 18 Jars 300 T-Started 14:17
 (C) First Final Flow 25 Safety Joint _____ T-Open 16:38
 (D) Initial Shut-In 1182 Circ Sub _____ T-Pulled 17:53
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 19:53
 (F) Second Final Flow 36 Mileage 48RT 72 Comments _____
 (G) Final Shut-In 1177 Sampler _____ EM Tool _____
 (H) Final Hydrostatic 1942 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 2322
 Accessibility _____ Sub Total 2322 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67267

Well Name & No. Wessel #1-26 Test No. 4 Date 07/07/22
 Company Black Oak Exploration LLC Elevation 2863 KB 2858 GL
 Address 1474 S. St. Paul St Denver, CO 80210
 Co. Rep / Geo. Tim Hedrick Rig Murkin #7
 Location: Sec. 26 Twp 53 Rge. 30W Co. Decatur State KS

Interval Tested 4024 - 4050 Zone Tested LKC H
 Anchor Length 26' Drill Pipe Run 3772 Mud Wt. 9.1
 Top Packer Depth 4019 Drill Collars Run 234 Vis 57
 Bottom Packer Depth 4024 Wt. Pipe Run _____ WL 7.2
 Total Depth 4050 Chlorides 1500 ppm System LCM 5#

Blow Description FF - Fair surface blow, built to 2 3/4 inches in 10 min, Final blow is 3 1/2 inches
ISI - No blow back (1162.00 psi) (54.80 psi)
FF - Weak surface blow, built to 1/2 inch in 10 min, Final blow is 1/4 inch (88.40 psi)
FSI - No blow back (1155.30 psi)

Rec	Feet of	%gas	%oil	%water	%mud
<u>174</u>	<u>SOGMCW</u>	<u>6</u>	<u>4</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 _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 174 BHT 121 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2048
- (B) First Initial Flow 41
- (C) First Final Flow 67
- (D) Initial Shut-In 1167
- (E) Second Initial Flow 72
- (F) Second Final Flow 90
- (G) Final Shut-In 1161
- (H) Final Hydrostatic 2039

- Test 1950
- Jars 300
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 48RT 72
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____

- T-On Location 04:30
- T-Started 04:50
- T-Open 06:44
- T-Pulled 08:35
- T-Out 10:20

Initial Open 20
 Initial Shut-In 30
 Final Flow 20
 Final Shut-In 30

Sub Total 2322 MP/DST Disc't _____
 Our Representative [Signature]

Approved By _____
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67268

Well Name & No. Wessel #1-26 Test No. 5 Date 07/07/22
 Company Black Oak Exploration LLC Elevation 2863 KB 2858 GL
 Address 1474 S. St. Paul St Denver, CO 80210
 Co. Rep / Geo. Tim Hedrick Rig Murfin #7
 Location: Sec. 26 Twp 5s Rge. 30W Co. Decatur State KS

Interval Tested 4048-4090 Zone Tested LKC J
 Anchor Length 42' Drill Pipe Run 3804 Mud Wt. 9.2
 Top Packer Depth 4043 Drill Collars Run 234 Vis 51
 Bottom Packer Depth 4048 Wt. Pipe Run _____ WL 7.6
 Total Depth 4090 Chlorides 1500 ppm System LCM 4#

Blow Description IF - Fair surface blow, built to 2 1/4 inches in 10 min, final blow is 2 3/4 inches (42.40 psi)
ISF - No blow back (1303.40 psi)
FF - weak surface blow, built to 1/4 inch in 10 min, final blow is 1 inch (54.10 psi)
PSI - No blow back (1272.30 psi)

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>SOGWCM</u>	<u>10</u>	<u>5</u>	<u>20</u>	<u>65</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 80 BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2028 Test 1950 T-On Location 18:50
 (B) First Initial Flow 38 Jars 300 T-Started 20:30
 (C) First Final Flow 46 Safety Joint _____ T-Open 22:54
 (D) Initial Shut-In 1308 Circ Sub _____ T-Pulled 01:00
 (E) Second Initial Flow 51 Hourly Standby _____ T-Out 02:45
 (F) Second Final Flow 57 Mileage 48 RT 72 Comments Picked up tools @ 14:00 on 7/8/22
 (G) Final Shut-In 1277 Sampler _____
 (H) Final Hydrostatic 1882 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2322
 Sub Total 2322 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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BLACK OAK



EXPLORATION

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

Well Name: WESSELL 1-26
Well Id:
Location: Section 26 - 5S - 30W Decatur Co, Kansas
License Number: API # 15-039-21284
Spud Date: July 1st 2022
Surface Coordinates: 2205' FNL & 2255' FEL
Region: WILDCAT
Drilling Completed: July 8th 2022

Bottom Hole
Coordinates:
Ground Elevation (ft): 2858' K.B. Elevation (ft): 2863'
Logged Interval (ft): 3650' To: 4235' Total Depth (ft): 4235'
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


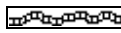
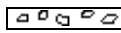
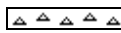
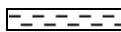


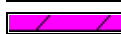

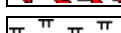

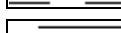
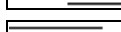






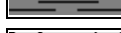



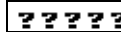
Company: BLACK OAK EXPLORATION, LLC
Address: 1474 S St Paul St
Denver CO 80210

GEOLOGIST

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

ROCK TYPES
















LITHOLOGY

-  Anhy
-  Bent
-  Brec
-  Cht
-  Clyst
-  Coal
-  Congl
-  Dol
-  Gyp
-  Igne
-  Lmst
-  Meta
-  Mrlst
-  Salt
-  Shale
-  Shcol
-  Shgy
-  Slstst
-  Ss
-  Till
-  Slststn
-  Shale
-  Sandylms
-  Lms
-  Gry sh
-  Dtd
-  Dol
-  Carb sh
-  pipesymbol
-  unknown lith
-  Red shale

FOSSIL

-  Oomoldic
-  Fuss
-  Algae

MINERAL


-  Sltly
-  Sand
-  Dol
-  Chlorite
-  Anhy
-  Arggrn
-  Arg
-  Bent
-  Bit
-  Brecfrag
-  Calc
-  Carb
-  Chtdk
-  Chtlt
-  Dol

STRINGER












-  Sh
-  Sandylms
-  Lms
-  Gryslt
-  Grysh
-  Dol
-  Clystn
-  Carbsh
-  Anhy
-  Arg
-  Bent
-  Coal
-  Dol
-  Gyp
-  Ls
-  Mrst
-  Slststrg

- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom






- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymn
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

-  Ssstrg





TEXTURE

-  Boundst
-  Chalky
-  Cryxln
-  Earthy
-  Finexln
-  Grainst
-  Lithogr
-  Microxln
-  Mudst
-  Packst
-  Wackest






OIL SHOW

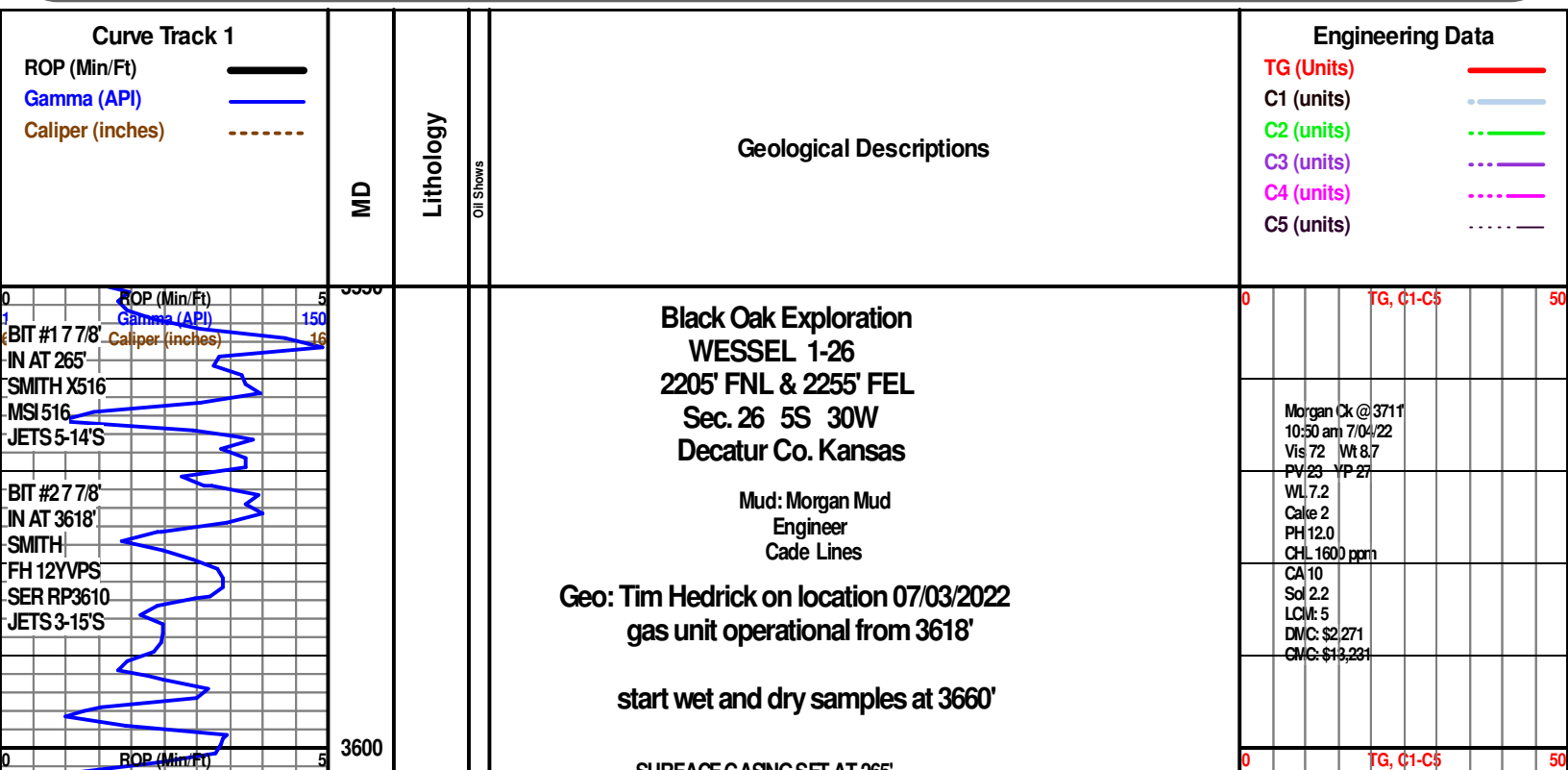
-  Gas show
-  Even
-  Spotted
-  Ques
-  Dead

INTERVAL

-  Dst
-  Core
-  Dst
-  Straddle test tail pip

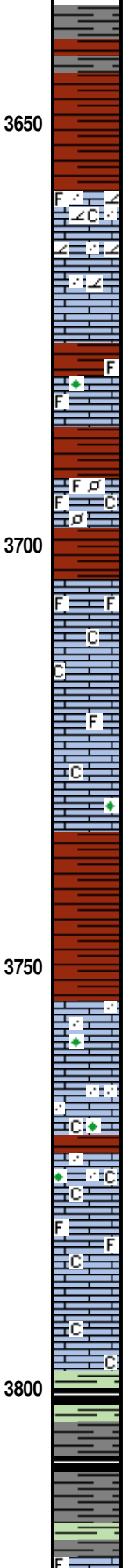
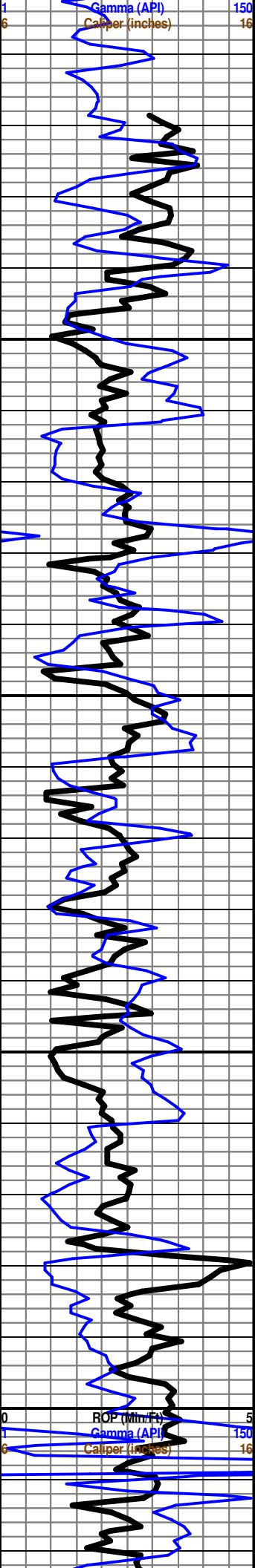
EVENT

-  Rft
-  Sidewall
-  Dst
-  Open hole
-  Perforations



PIPE STRAP aborted due to wind

Survey@3618' = 1 deg.



Shale - red to reddish brown to gray in part, very soft gummy to firm blocky in part

Limestone - cream light tan hard to brittle sucro matrix to re-crystalline in part traces fossil fragments with embed glauconite or chlorite in part with heavy traces of soft white chalk in part, traces of free soft white chalk in part, dull yellow mineral fluorescence in part. no visible porosity, no visible show or cut

Limestone - cream light tan, hard dense in part to brittle, very sucrosic matrix, very dolomitic in part, very arenaceous in part with abundant very fine quartz grains thruout, dull yellow fluorescence, no visible porosity, no visible show or cut

Limestone- off white cream buff- hard brittle, fine crystalline to re-crystalline in part, traces of embed fossil fragments, traces of embed possibl chlorite or glauconite, light yellow mineral fluorescence, no visible porosity, no visible show or cut

Limestone- cream light tan off white- hard to brittle, coarse sucro matrix, re-crystalline thruout, embed fossil fragments, small ooids embed thruout, small calcite crystals embed in part, scattered embed soft chalk, light yellow mineral fluorescence, trace of very poor inter-crystalline porosity, no show or cut

Topeka 3704' (- 841)

Limestone- cream light tan off white hard dense to brittle fine crystalline re-crystalline matrix, embed fossil fragments in part small calcite crystals embed thruout, scattered embed and free soft white chalk, dull yellow mineral fluorescence thruout, no visible porosity, no visible show or cut

Limestone- cream light tan off white hard to brittle fine crystalline re-crystalline matrix, embed fossil fragments in part small calcite crystals embed thruout, embed chlorite or glauconite, scattered embed and free soft white chalk, dull yellow mineral fluorescence thruout, no visible porosity, no visible show or cut

Shale- red dark red very firm in part blocky to abundant soft gummy texture

Deer Creek 3755' (- 892')

limestone-cream off white, hard to brittle in part, very sucrosic matrix, re-crystalline in part, scattered embed small fossil fragments thruout, small calcite crystals embed in part, heavy trace of free soft white chalk, dull yellow mineral fluorescence, no visible porosity, no show or cut

Limestone - cream light tan hard to brittle very sucro matrix to re-crystalline in part with abundant embed very fine grain quartz with embed glauconite or chlorite in scattered thruout with heavy traces of soft white chalk in part, dull yellow mineral fluorescence in part. no visible porosity, no visible show or cut

Limestone- cream light tan light gray- hard to brittle tight sucrosic matrix to fine crystalline, traces embed fossil fragments in part, traces of abundant free soft white chalk, light yellow mineral fluorescence, no visible porosity, no visible show or cut

limestone-Off white cream buff- hard in part to soft, very tight sucrosic to sucrosic s-chlky to chalky, heavy traces of abundant free soft white chalk, Very dull yellow fluorescence in part, no visible porosity, no visible show

Shale- green dark gray firm blocky to black soft carbonaceous looking

LeCompton 3820' (- 957')

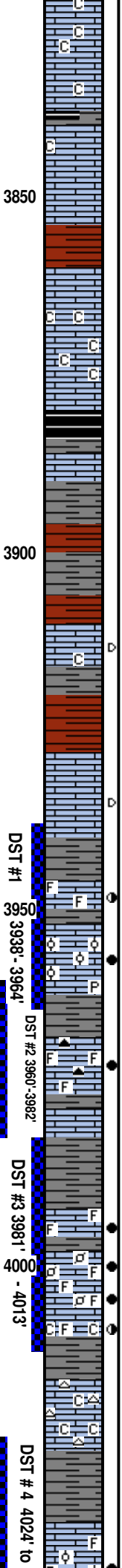
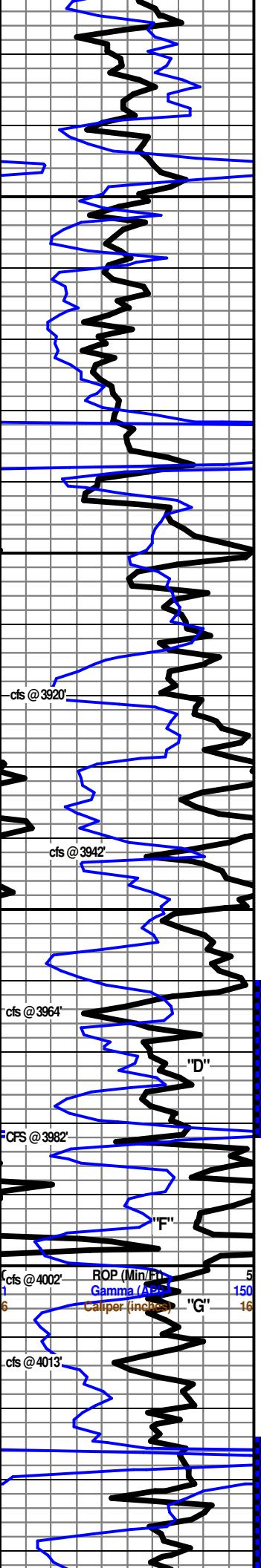
7 u. bg

7 u. bg

8 u. bg

9 u. bg

0 TG, C1-C5 50



Limestone, cream tan - hard dense to brittle , tight sucrosic matrix to sucrosic sub chalky in part, trace fossil fragments in part, heavy trace of abundant soft white free chalk, no fluorescence, no visible porosity, no visible show

Limestone, cream, hard to very brittle, sucrosic to sub-sucrosic sub chalky throughout, heavy traces abundant white free soft chalk, dull yellow fluorescence, no porosity in part, no visible show or cut

Shale red to dark red very soft gummy texture to traces of black carbonaceous looking shale in part

Heebner 3880' (- 1017')

shale- black soft carbonaceous

Shales- gray to redd firm blocky in part to very soft gummy texture, very sandy texture

Toronto 3910' (- 1047')

Limestone - cream tan dark tan black- hard brittle sucrosic to slightly sub chalky, abundant dead oil stain and asphaltic stain scattered thruout, no fluorescence, very poor micro pin point porosity in part to no porosity, good flush cut to very good slow stream cut thruout, no live oil, no odor

Lansing 3928' - (-1065)

Limestone- off white cream tan in part, hard dense very fine to crypto-crystalline, slight trace sub chalky in part with sparsely scattered asphaltic stain in 10%, no fluorescence to very dull yellow fluorescence, no visible porosity, fair flush cut in 10%- 20%, good slow stream cut in 20%, no odor , no live oil

Limestone- cream tan brown due to tar stain in part, hard dense crypto-crystalline to micro crystalline traces fossil fragments, traces of calcite crystals in part, dull yellow gold fluorescence in 60%, poor scattered micro vug to poor inter-xln porosity in 2%, no odor, very good flush cut to very good slow stream cut in 50%, no live oil

Lansing C 3952' (- 1089')

Limestone- cream tan brown due to oil stain thruout with live oil skim covering dish, hard very brittle, coarse sucrosic matrix, very re-crystalline, abundant small oolites in 10-15%, scattered individual lime grains in 50-60%, slight trace disseminated pyrite, dull yellow gold fluorescence thruout, poor fair to good visible interoolitic and inter granular porosity in 40-50%, good oil odor, excellent flush cut to excellent slow stream cut in 70%, abundant light in tray

Limestone- cream tan brown due to oil and live stain in 70-80% very brittle to hard in part, very sucrosic matrix to fine crystalline in part, embed fossil fragments and large free crinoid stems with stain, small to med calcite crystals embed in part, traces gray chert, dull yellow gold fluorescence thruout, poor fair to good visible inter-crystalline porosity, scattered fair to traces good inter-fossiliferous porosity, scattered microvug to vugular porosity in part

Excellent flush cut and excellent slow stream cut thruout, very good oil odor, skim oil in cup and live oil drops in tray

3991 - 3996 Limestone- light tan to dark tan due to live oil stain thruout, hard dense to brittle in part micro crystalline to sucrosic in part to re-crystalline, embed fossil fragments in part, dull yellow gold fluorescence thruout, poor to fair scattered microvug porosity to fair inter-crystalline porosity in 10-12%, good oil odor, excellent flush and excellent slow stream cut thruout, skim oil on dish

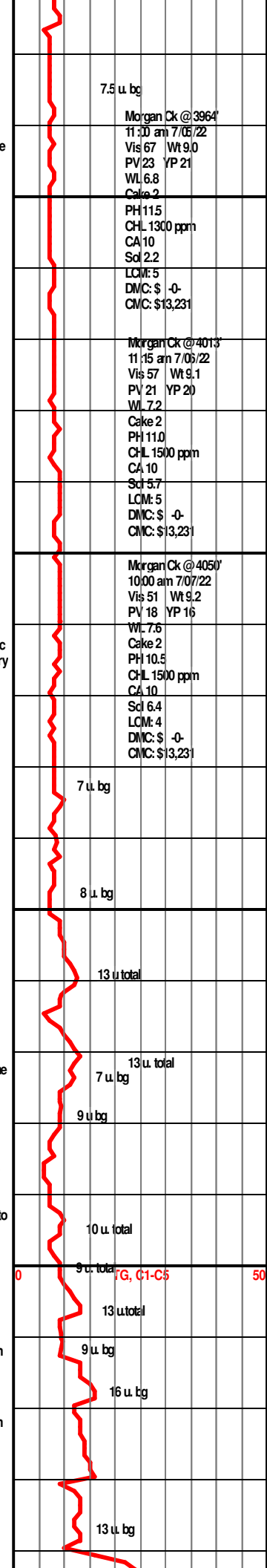
3998-4007 Limestone- cream light tan tan with oil stain thruout, hard to very brittle very sucrosic matrix to fine crystalline in part re-crystalline with abundant small embed ooids in part, fossil fragments in part, dull yellow gold fluorescence thruout, poor to fair visible inter-crystalline porosity in 20%, poor to fair scattered microvug porosity in 20%, excellent flush and excellent slow stream cut thruout, good oil odor abundant free oil in samples and droplets in cup.

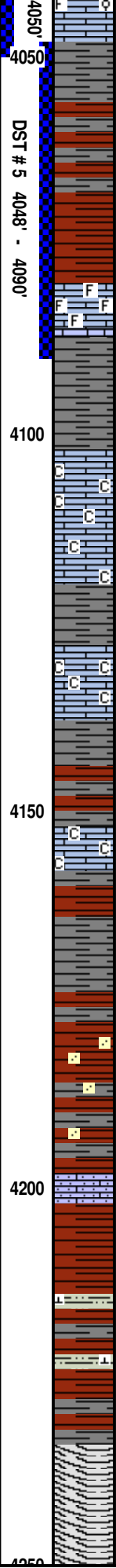
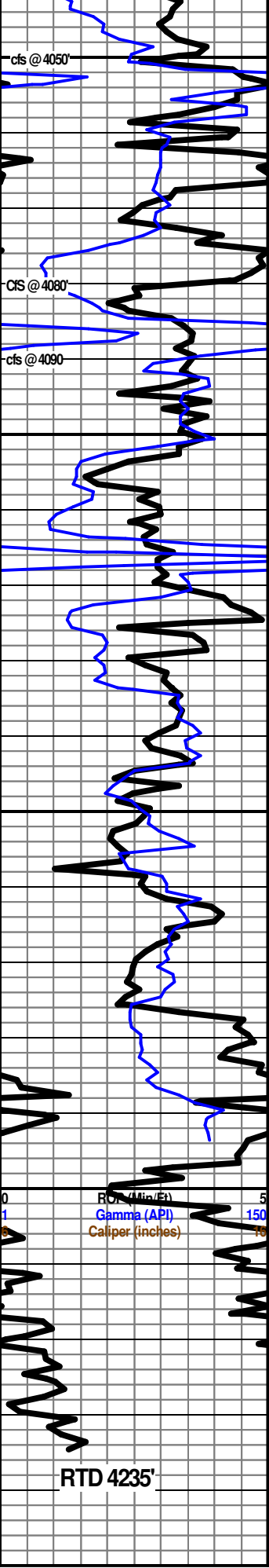
4008-4010- Limestone white to cream black due to asphaltic stain scattered in part, hard dense tight sucrosic sub chalky matrix, embed chalky fossil fragments, free firm white chalk in part, very dull yellow fluorescence, poor flush cut to good to stream cut in part, no visible porosity,

4010-4013- Shale- green purple firm blocky to splinty smooth texture

4016-4026' Limestone- white off white hard to soft in part very sucrosic to sucrosic sub chalky matrix, with abundant translucent gray chert, no fluorescence no visible porosity, no visible show

Lansing "H" 4036' (-1173')





Lansing "J" 4080' (-1217')
 Limestone- tan to dark tan thruout due to oil stain, hard to very brittle, sucrosic matrix to fine crystalline in part small oolites embed in part, traces of fossil fragments in part, Dull yellow gold fluorescence thruout, poor to fair visible inter-crystalline porosity scattered thruout, scattered micro vugular porosity in 60%, trace of poor inter-oolitic porosity, live oil in tray good oil odor, excellent flush hard slow stream cut thruout

Shale- red dark red- very soft gummy texture smooth

Lansing "K" 4103' (-1240)
 Limestone- tan dark tan brown thruout due to oil stain, very sucrosic to coarse sucrosic matrix, re-crystalline, embed fossil fragments in 60% trace free fossils, small calcite crystals embed in part, dull yellow gold fluorescence thruout, poor fair to good visible inter-crystalline porosity in 40%, scattered good micro vugular porosity in 10-15%, traces of good inter-fossiliferous porosity in part, excellent flush Excellent slow stream cut thruout, live oil in dish good oil odor in cup and pits

Shale- red green firm smooth blocky texture

Limestone- cream off white white- hard dense in part to sucrosic sub chalky to chalky in part, with abundant free firm to soft white chalk, no fluorescence, no visible porosity, no visible show or cut

BKC 4138' (-1275')
 Shale gray reddish in part very soft gummy texture

limestone-Off white cream buff- hard in part to soft, very sucrosic to sucrosic sub chiky to chalky, heavy traces of abundant free soft white chalk, Very dull yellow fluorescence in part, no visible porosity, no visible show

Shales - red green gray- mottled very soft gummy texture to firm blocky in part

Shales- brownish red red to grayish green, firm blocky smooth texture to silty in part gray very grainy to silty texture with small quartz grains embed

Limestone - off white cream gray - hard in part to soft very chalky matrix, sucrosic in part with very fine quartz grains embed in part, no fluorescence, no visible porosity, no visible show

Shale- red dark red- firm in part to very soft gummy to very silty in part, very calcareous in part

RTD @ 4235' at 4:08 PM July 8th 2022

CFS 30 MIN.

SHORT TRIP UNTIL PIPE FREE

DROP SURVEY/ TO FL

