

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
--	---

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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DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC**

1952 Victoria Rd
Hays KS 67601+9342

ATTN: Ed Glassman

Rankin #2

33-13s-20w Ellis KS

Start Date: 2022.07.04 @ 06:05:00

End Date: 2022.07.04 @ 11:18:11

Job Ticket #: 69062 DST #: 1

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

Printed: 2022.07.07 @ 11:49:24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69062

DST#: 1

ATTN: Ed Glassman

Test Start: 2022.07.04 @ 06:05:00

GENERAL INFORMATION:

Formation: **LKC A-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:17:27

Time Test Ended: 11:18:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 3520.00 ft (KB) To 3614.00 ft (KB) (TVD)

Reference Elevations: 2254.00 ft (KB)

Total Depth: 3614.00 ft (KB) (TVD)

2249.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 3523.00 ft (KB)

Capacity: psig

Start Date: 2022.07.04

End Date:

2022.07.04

Last Calib.:

2022.07.04

Start Time: 06:05:01

End Time:

11:18:11

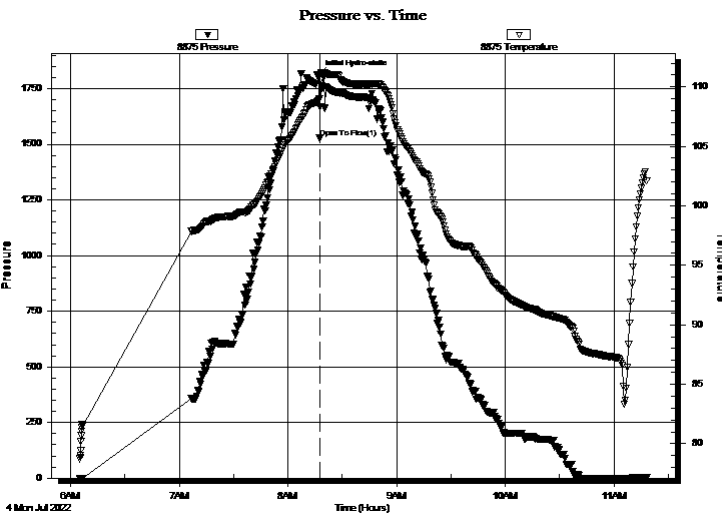
Time On Btm:

2022.07.04 @ 08:17:12

Time Off Btm:

TEST COMMENT: Packer Failure
Hole in Pipe 7 stands above tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1811.30	108.90	Initial Hydro-static
1	1527.78	109.01	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
1000.00	Mud	14.18

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69062

DST#: 1

ATTN: Ed Glassman

Test Start: 2022.07.04 @ 06:05:00

GENERAL INFORMATION:

Formation: **LKC A-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:17:27

Time Test Ended: 11:18:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 3520.00 ft (KB) To 3614.00 ft (KB) (TVD)

Reference Elevations: 2254.00 ft (KB)

Total Depth: 3614.00 ft (KB) (TVD)

2249.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 3523.00 ft (KB)

Capacity: psig

Start Date: 2022.07.04

End Date:

2022.07.04

Last Calib.:

2022.07.04

Start Time: 06:05:01

End Time:

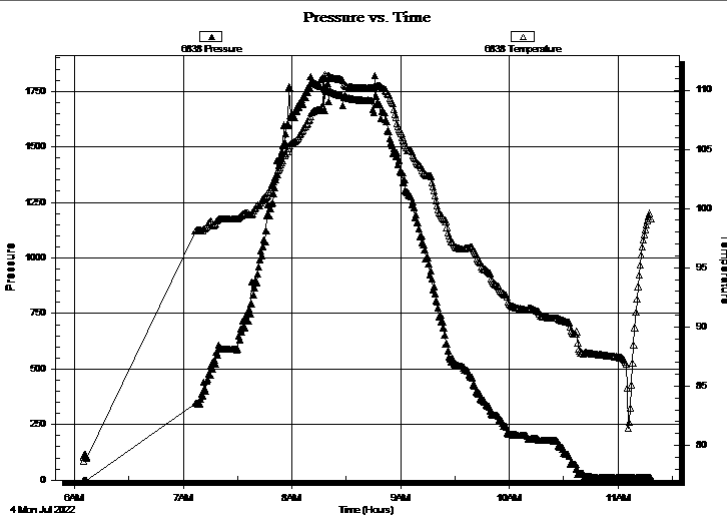
11:18:11

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer Failure
Hole in Pipe 7 stands above tool

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
1000.00	Mud	14.18

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69062

DST#: 1

ATTN: Ed Glassman

Test Start: 2022.07.04 @ 06:05:00

Tool Information

Drill Pipe:	Length: 3518.00 ft	Diameter: 3.82 inches	Volume: 49.87 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	50000.00 daN
Depth to Top Packer:	3520.00 ft			Final	51000.00 daN
Depth to Bottom Packer:	ft				
Interval between Packers:	94.00 ft				
Tool Length:	122.00 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			3493.00	
Shut In Tool	5.00			3498.00	
Hydraulic tool	5.00			3503.00	
Jars	5.00			3508.00	
Safety Joint	3.00			3511.00	
Packer	5.00			3516.00	28.00 Bottom Of Top Packer
Packer	4.00			3520.00	
Stubb	1.00			3521.00	
Perforations	1.00			3522.00	
Change Over Sub	1.00			3523.00	
Recorder	0.00	6838	Inside	3523.00	
Recorder	0.00	8875	Inside	3523.00	
Drill Pipe	63.00			3586.00	
Change Over Sub	1.00			3587.00	
Perforations	24.00			3611.00	
Bullnose	3.00			3614.00	94.00 Bottom Packers & Anchor
Total Tool Length:	122.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69062

DST#: 1

ATTN: Ed Glassman

Test Start: 2022.07.04 @ 06:05:00

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1000.00	Mud	14.175

Total Length: 1000.00 ft Total Volume: 14.175 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Serial #: 8875

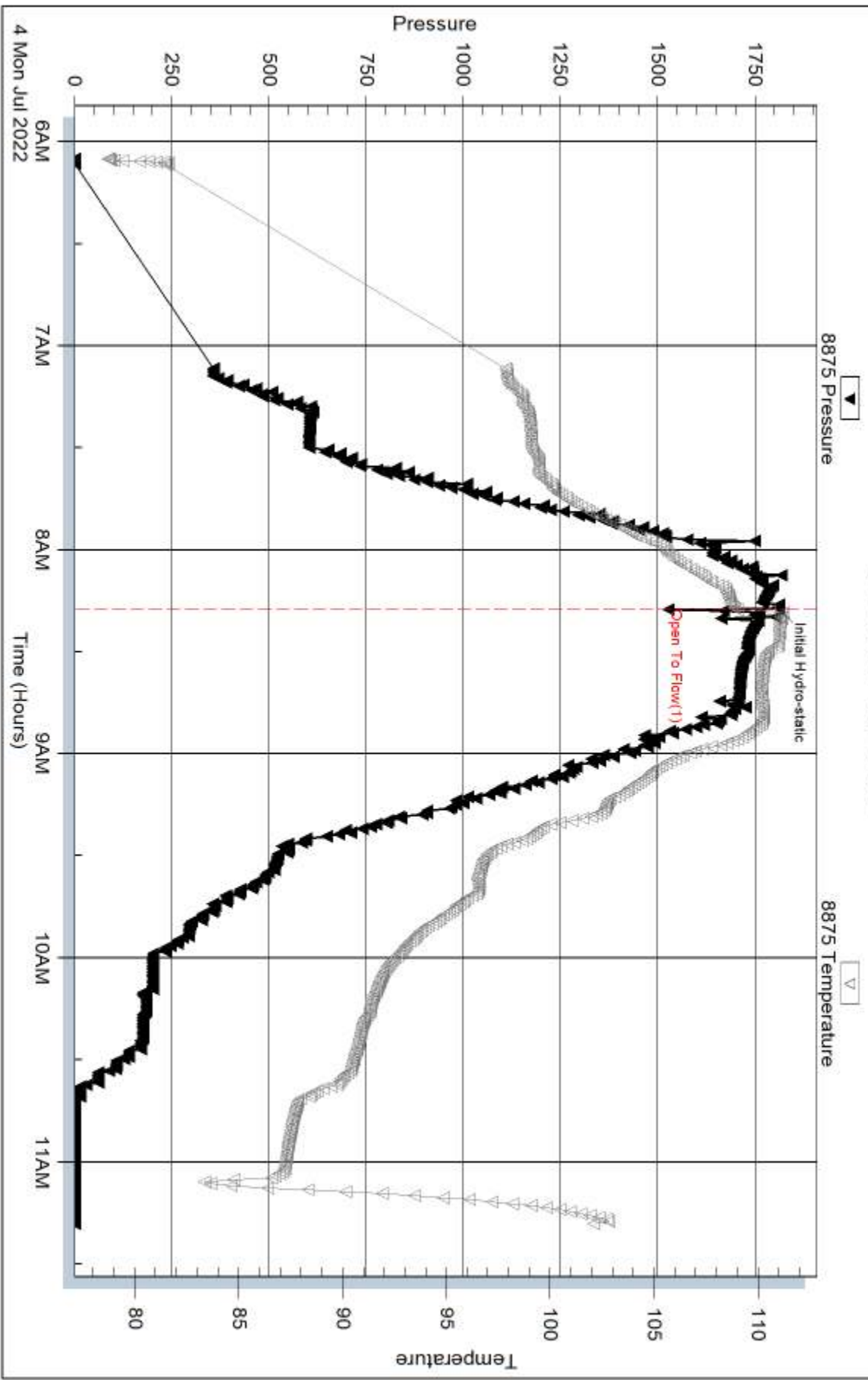
Inside

Anchor Bay Petroleum LLC

Rankin #2

DST Test Number: 1

Pressure vs. Time



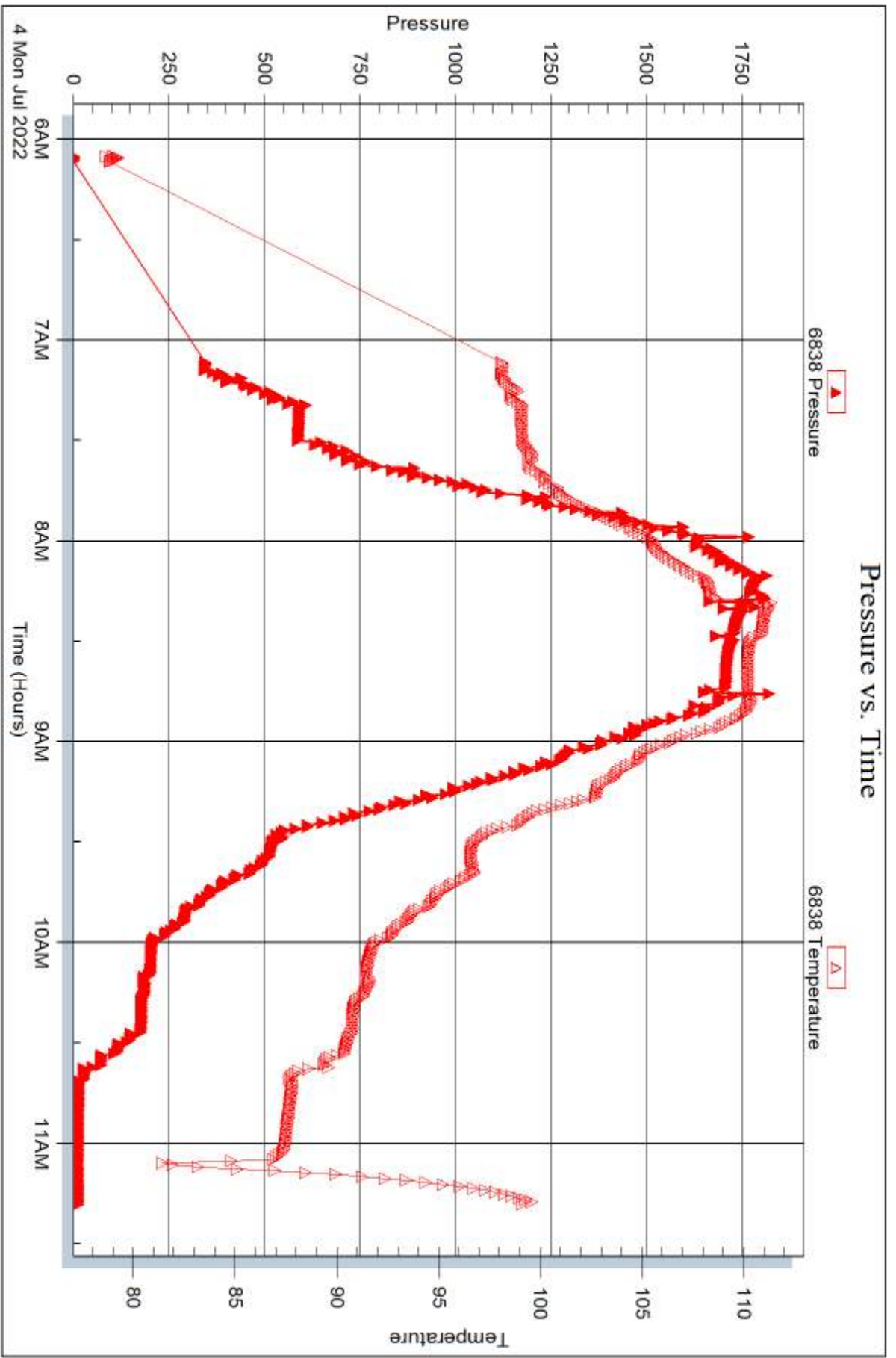
Serial #: 6838

Inside

Anchor Bay Petroleum LLC

Rankin #2

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 69062

Printed: 2022.07.07 @ 11:49:25



DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC**

1952 Victoria Rd
Hays KS 67601+9342

ATTN: Ed Glassman

Rankin #2

33-13s-20w Ellis KS

Start Date: 2022.07.05 @ 06:35:00

End Date: 2022.07.05 @ 13:28:47

Job Ticket #: 69063 DST #: 2

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

Printed: 2022.07.07 @ 11:47:48



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69063

DST#: 2

ATTN: Ed Glassman

Test Start: 2022.07.05 @ 06:35:00

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:31:12

Time Test Ended: 13:28:47

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3666.00 ft (KB) To 3750.00 ft (KB) (TVD)

Reference Elevations: 2254.00 ft (KB)

Total Depth: 3750.00 ft (KB) (TVD)

2249.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8875

Inside

Press@RunDepth: 75.78 psig @ 3669.00 ft (KB)

Capacity: psig

Start Date: 2022.07.05

End Date:

2022.07.05

Last Calib.:

2022.07.05

Start Time: 06:35:01

End Time:

13:28:47

Time On Btm:

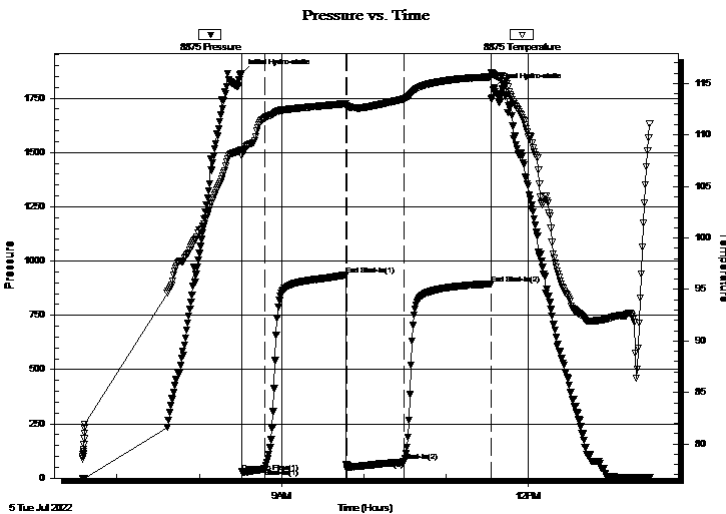
2022.07.05 @ 08:31:02

Time Off Btm:

2022.07.05 @ 11:35:02

TEST COMMENT: 15-IF-BOB 12 mins Built to 18"
60-ISI-No Return
45-FF-BOB 2 mins Built to 70"
60-FSI- Surface to 1/4" Died @ 15 mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1864.63	108.54	Initial Hydro-static
1	28.75	107.96	Open To Flow (1)
17	42.91	111.62	Shut-In(1)
76	935.03	113.01	End Shut-In(1)
77	41.69	112.81	Open To Flow (2)
119	75.78	113.53	Shut-In(2)
182	895.04	115.65	End Shut-In(2)
184	1798.71	115.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	GMCO 60%G 10%M 30%O	1.98
30.00	GO 25%G 75%O	0.43
0.00	900 GIP 100%G	0.00

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

ATTN: Ed Glassman

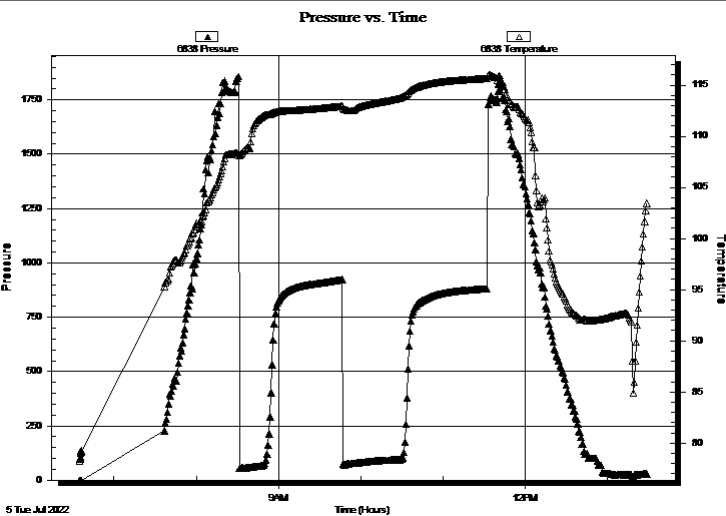
Job Ticket: 69063 **DST#: 2**
Test Start: 2022.07.05 @ 06:35:00

GENERAL INFORMATION:

Formation:	LKC H-K			Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock:	ft (KB)		Tester:	Spencer J Staab
Time Tool Opened:	08:31:12			Unit No:	84
Time Test Ended:	13:28:47				
Interval:	3666.00 ft (KB) To 3750.00 ft (KB) (TVD)			Reference Elevations:	2254.00 ft (KB)
Total Depth:	3750.00 ft (KB) (TVD)				2249.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition:	Fair	KB to GR/CF:	5.00 ft

Serial #: 6838	Inside			Capacity:		psig
Press@RunDepth:		psig @	3669.00 ft (KB)	Last Calib.:	2022.07.05	
Start Date:	2022.07.05	End Date:	2022.07.05	Time On Btm:		
Start Time:	06:35:01	End Time:	13:28:47	Time Off Btm:		

TEST COMMENT: 15-IF-BOB 12 mins Built to 18"
60-ISI-No Return
45-FF-BOB 2 mins Built to 70"
60-FSI- Surface to 1/4" Died @ 15 mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
140.00	GMCO 60%G 10%M 30%O	1.98
30.00	GO 25%G 75%O	0.43
0.00	900 GIP 100%G	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69063

DST#: 2

ATTN: Ed Glassman

Test Start: 2022.07.05 @ 06:35:00

Tool Information

Drill Pipe:	Length: 3642.00 ft	Diameter: 3.82 inches	Volume: 51.63 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	45000.00 daN
Drill Pipe Above KB:	4.00 ft			Final	48000.00 daN
Depth to Top Packer:	3666.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	84.00 ft				
Tool Length:	112.00 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			3639.00	
Shut In Tool	5.00			3644.00	
Hydraulic tool	5.00			3649.00	
Jars	5.00			3654.00	
Safety Joint	3.00			3657.00	
Packer	5.00			3662.00	28.00 Bottom Of Top Packer
Packer	4.00			3666.00	
Stubb	1.00			3667.00	
Perforations	1.00			3668.00	
Change Over Sub	1.00			3669.00	
Recorder	0.00	6838	Inside	3669.00	
Recorder	0.00	8875	Inside	3669.00	
Drill Pipe	63.00			3732.00	
Change Over Sub	1.00			3733.00	
Perforations	14.00			3747.00	
Bullnose	3.00			3750.00	84.00 Bottom Packers & Anchor
Total Tool Length:	112.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69063

DST#: 2

ATTN: Ed Glassman

Test Start: 2022.07.05 @ 06:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	GMCO 60%G 10%M 30%O	1.985
30.00	GO 25%G 75%O	0.425
0.00	900 GIP 100%G	0.000

Total Length: 170.00 ft

Total Volume: 2.410 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

Serial #: 8875

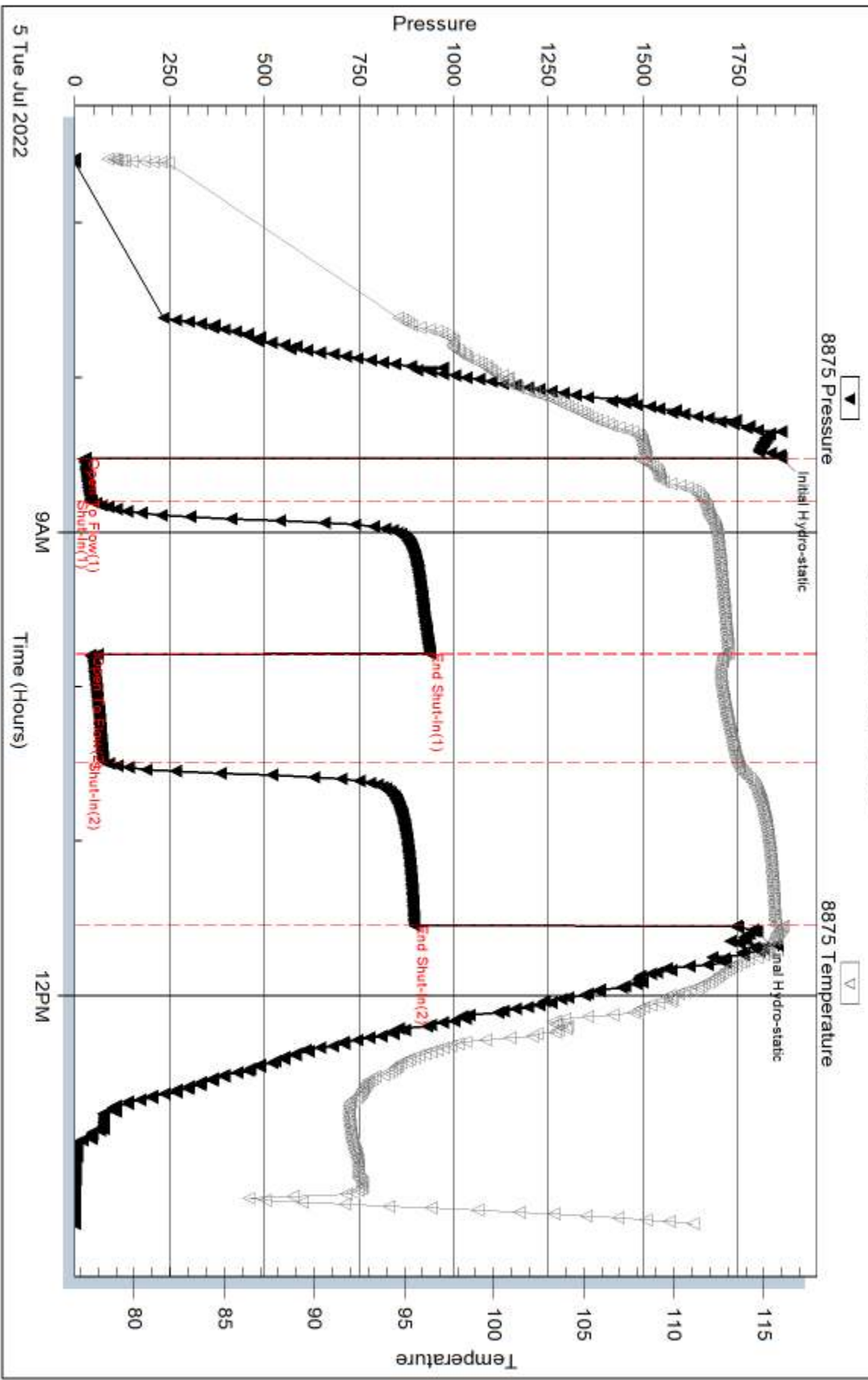
Inside

Anchor Bay Petroleum LLC

Rankin #2

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 69063

Printed: 2022.07.07 @ 11:47:48

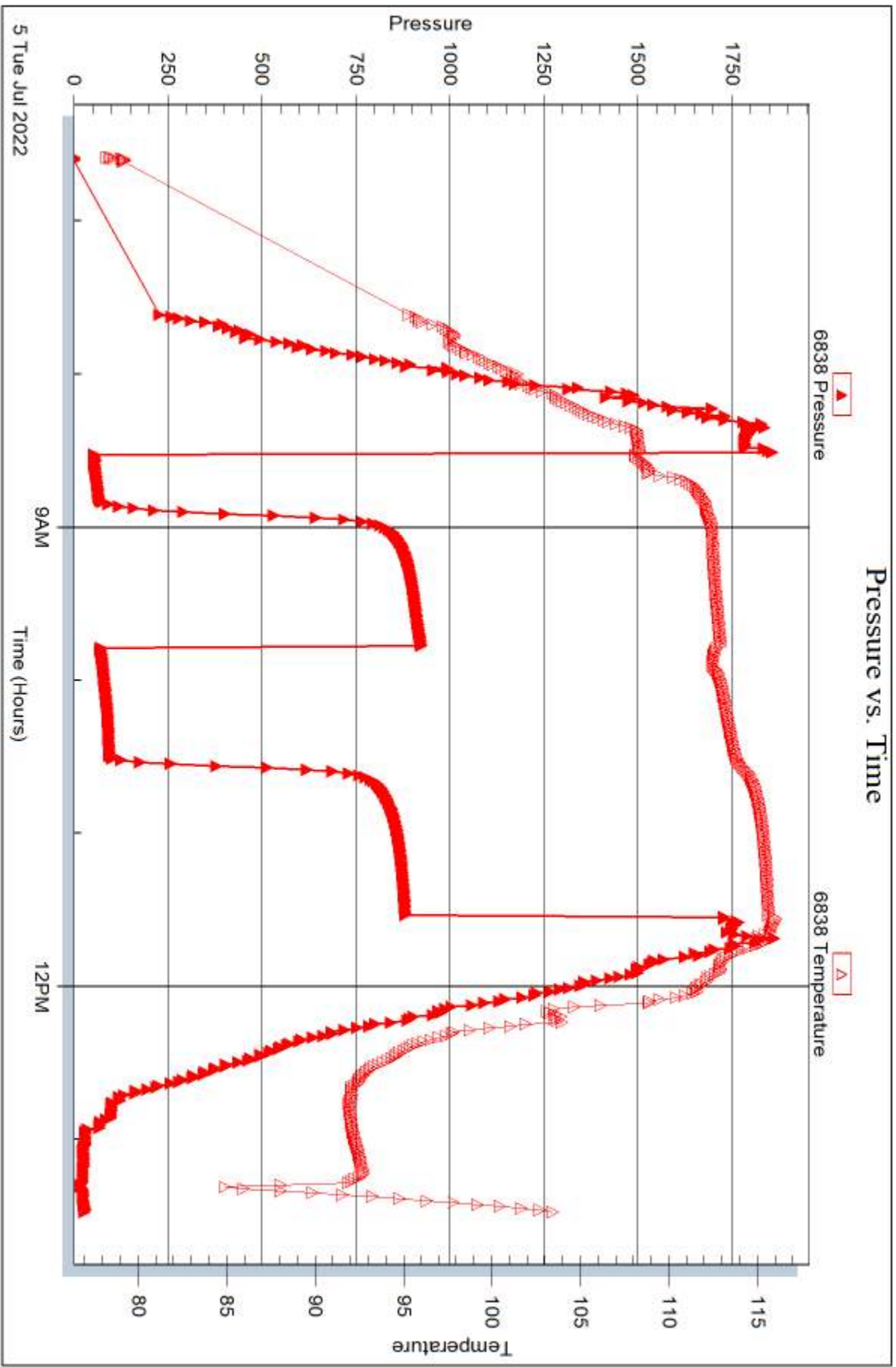
Serial #: 6838

Inside

Anchor Bay Petroleum LLC

Rankin #2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 69063

Printed: 2022.07.07 @ 11:47:48



DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC**

1952 Victoria Rd
Hays KS 67601+9342

ATTN: Ed Glassman

Rankin #2

33-13s-20w Ellis KS

Start Date: 2022.07.06 @ 02:43:00

End Date: 2022.07.06 @ 08:46:12

Job Ticket #: 69064 DST #: 3

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

Printed: 2022.07.07 @ 11:47:03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69064

DST#: 3

ATTN: Ed Glassman

Test Start: 2022.07.06 @ 02:43:00

GENERAL INFORMATION:

Formation: **Marm/Cong/Reag**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:06:02

Time Test Ended: 08:46:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3795.00 ft (KB) To 3865.00 ft (KB) (TVD)

Reference Elevations: 2254.00 ft (KB)

Total Depth: 3865.00 ft (KB) (TVD)

2249.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8875

Inside

Press@RunDepth: 29.28 psig @ 3802.00 ft (KB)

Capacity: psig

Start Date: 2022.07.06

End Date:

2022.07.06

Last Calib.:

2022.07.06

Start Time: 02:43:01

End Time:

08:46:11

Time On Btm:

2022.07.06 @ 05:05:42

Time Off Btm:

2022.07.06 @ 07:08:37

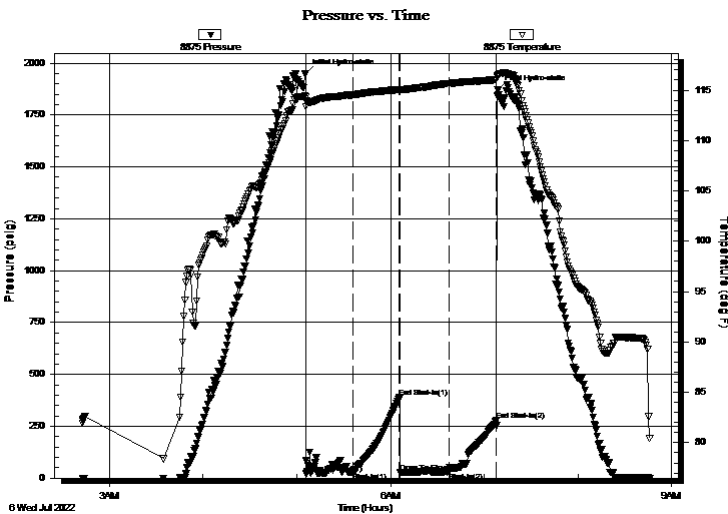
TEST COMMENT: 30-IF-Surface to 1.5" Died back to 1/4"

30-ISI-No Return

30-FF-No Blow

30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.70	114.30	Initial Hydro-static
1	20.77	113.91	Open To Flow (1)
31	27.18	114.53	Shut-In(1)
60	390.85	115.04	End Shut-In(1)
61	27.10	115.02	Open To Flow (2)
92	29.28	115.65	Shut-In(2)
122	278.54	116.04	End Shut-In(2)
123	1870.10	116.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GSOCM 5%G 5%O 90%M	0.43

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69064

DST#: 3

ATTN: Ed Glassman

Test Start: 2022.07.06 @ 02:43:00

GENERAL INFORMATION:

Formation: **Marm/Cong/Reag**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:06:02

Time Test Ended: 08:46:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3795.00 ft (KB) To 3865.00 ft (KB) (TVD)

Reference Elevations: 2254.00 ft (KB)

Total Depth: 3865.00 ft (KB) (TVD)

2249.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 3802.00 ft (KB)

Capacity: psig

Start Date: 2022.07.06

End Date:

2022.07.06

Last Calib.:

2022.07.06

Start Time: 02:43:01

End Time:

08:46:11

Time On Btm:

Time Off Btm:

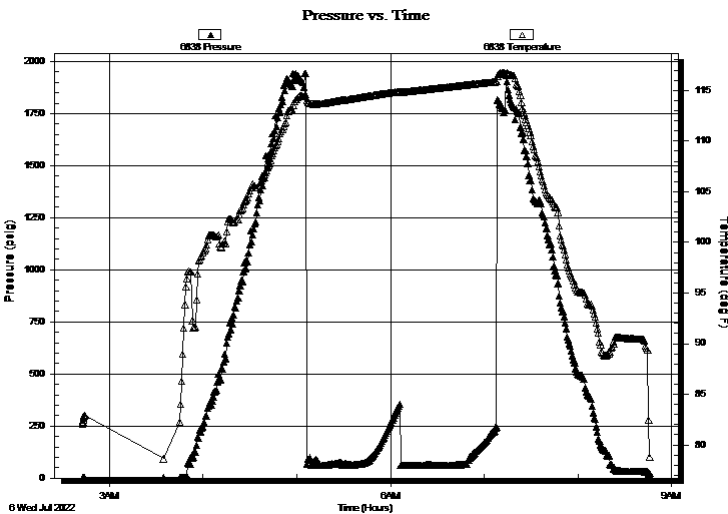
TEST COMMENT: 30-IF-Surface to 1.5" Died back to 1/4"

30-ISI-No Return

30-FF-No Blow

30-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GSOCM 5%G 5%O 90%M	0.43

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69064

DST#: 3

ATTN: Ed Glassman

Test Start: 2022.07.06 @ 02:43:00

Tool Information

Drill Pipe:	Length: 3793.00 ft	Diameter: 3.82 inches	Volume: 53.77 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	56000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	46000.00 daN
Depth to Top Packer:	3795.00 ft			Final	46000.00 daN
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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3768.00	
Shut In Tool	5.00			3773.00	
Hydraulic tool	5.00			3778.00	
Jars	5.00			3783.00	
Safety Joint	3.00			3786.00	
Packer	5.00			3791.00	28.00 Bottom Of Top Packer
Packer	4.00			3795.00	
Stubb	1.00			3796.00	
Perforations	5.00			3801.00	
Change Over Sub	1.00			3802.00	
Recorder	0.00	6838	Inside	3802.00	
Recorder	0.00	8875	Inside	3802.00	
Drill Pipe	63.00			3865.00	70.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Anchor Bay Petroleum LLC

33-13s-20w Ellis KS

1952 Victoria Rd
Hays KS 67601+9342

Rankin #2

Job Ticket: 69064

DST#: 3

ATTN: Ed Glassman

Test Start: 2022.07.06 @ 02:43:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	GSOCM 5%G 5%O 90%M	0.425

Total Length: 30.00 ft Total Volume: 0.425 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

Serial #: 8875

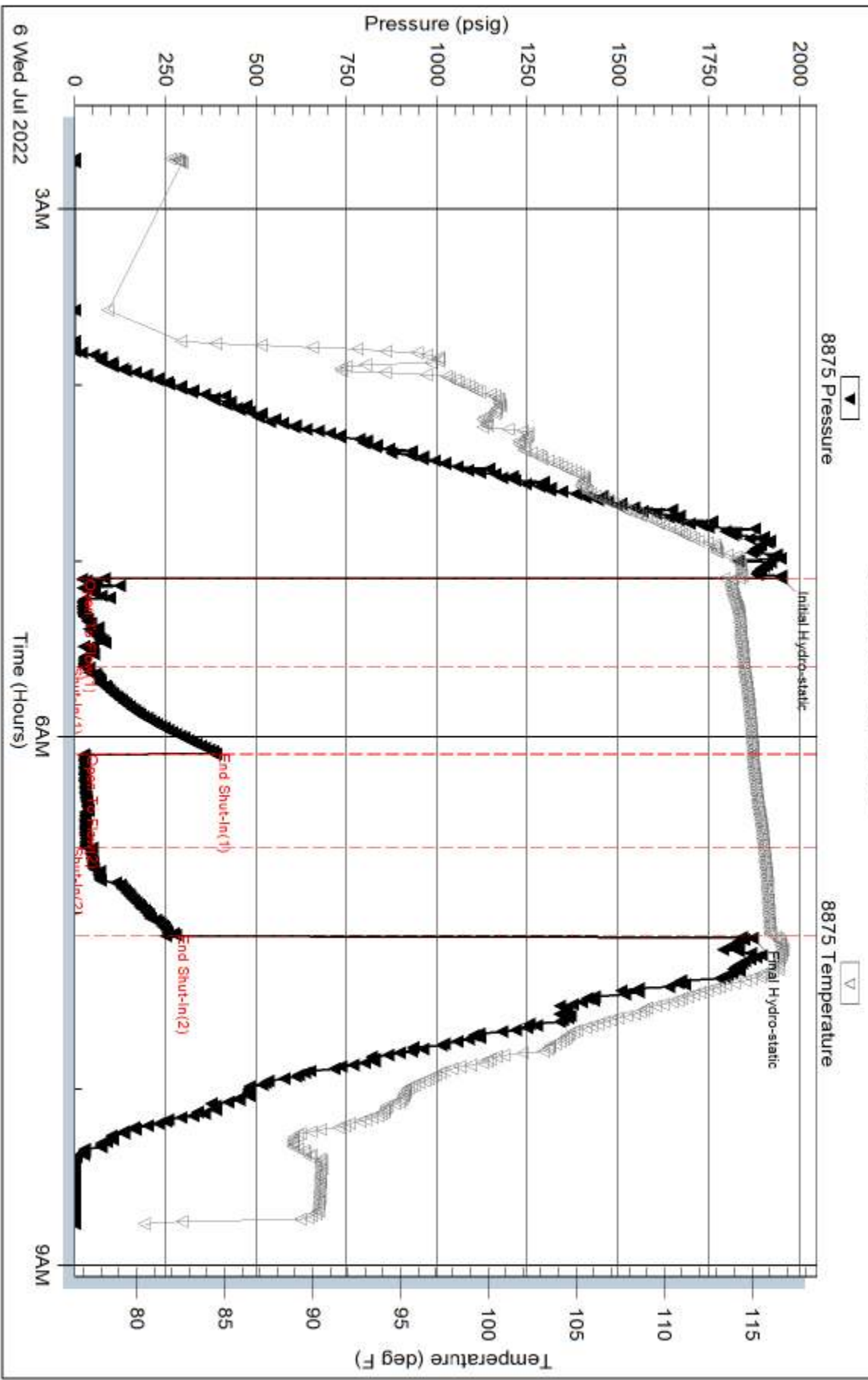
Inside

Anchor Bay Petroleum LLC

Rankin #2

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 69064

Printed: 2022.07.07 @ 11:47:04

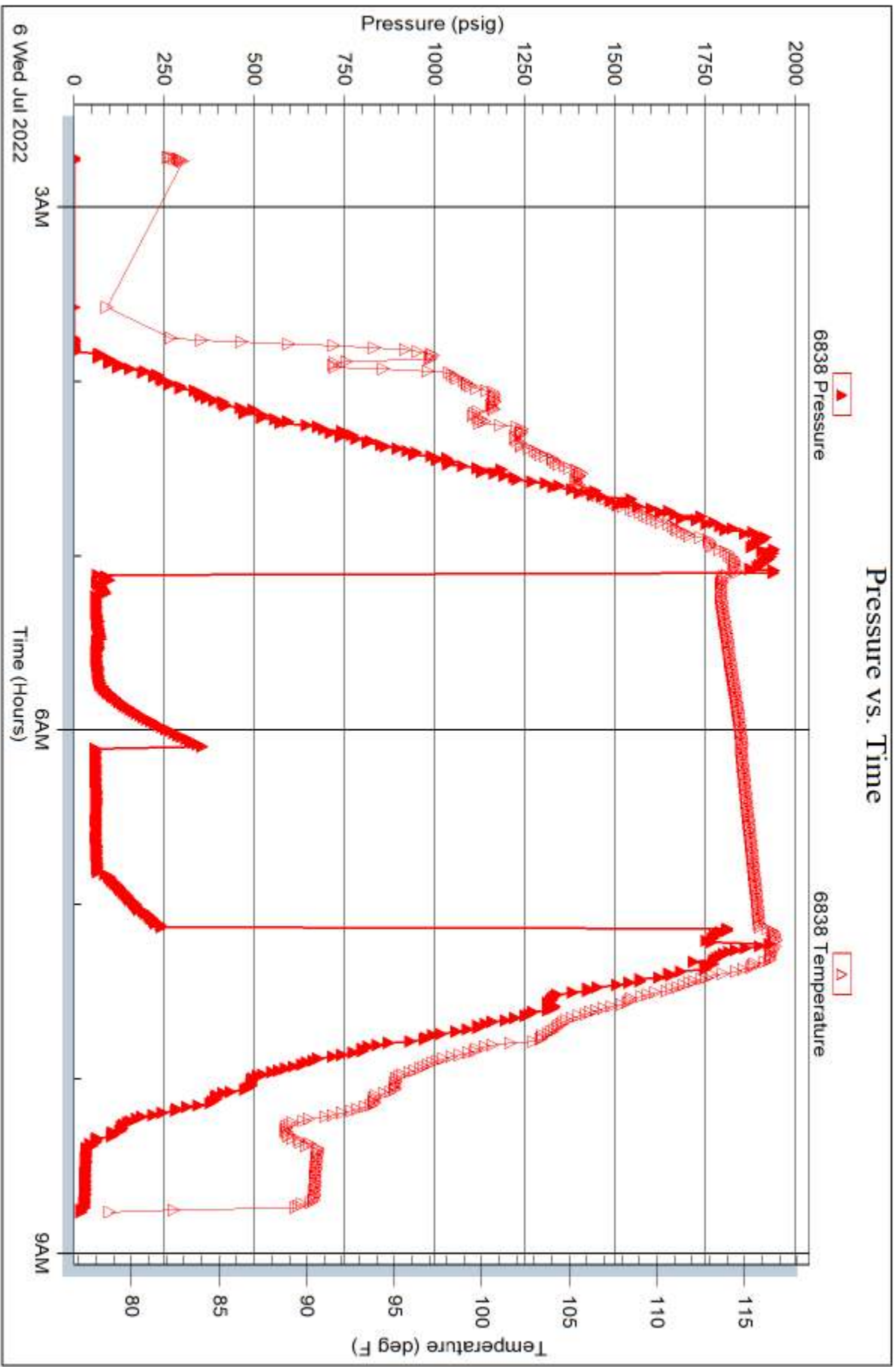
Serial #: 6838

Inside

Anchor Bay Petroleum LLC

Rankin #2

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 69064

Printed: 2022.07.07 @ 11:47:04



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69062

Well Name & No. Rankin #2 Test No. 1 Date 07/04/2022
 Company Anchor Bay Petroleum LLC Elevation _____ KB _____ GL _____
 Address 1952 Victoria Rd Hays KS 67601 + 9342
 Co. Rep / Geo. Ed Glassman Rig White Knight
 Location: Sec. 33 Twp 13s Rge. 20w Co. Ellis State KS

Interval Tested 3520' - 3614' Zone Tested LHC A-D
 Anchor Length 94' Drill Pipe Run _____ Mud Wt. 8.8
 Top Packer Depth 3515' Drill Collars Run - Vis 50
 Bottom Packer Depth 3520' Wt. Pipe Run - WL 5.8
 Total Depth 3614' Chlorides 3100 ppm System LCM 2#

Blow Description 27- Packer Failure
77- hole in pipe @ 7 stands from tool
78-

Rec	Feet of	%gas	%oil	%water	%mud
<u>1000'</u>	<u>Mud</u>			<u>100</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 1000' BHT 109° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic _____	<u>1811</u>	<input checked="" type="checkbox"/> Test _____ 1350	T-On Location <u>04:55</u>
(B) First Initial Flow _____	<u>1527</u>	<input checked="" type="checkbox"/> Jars _____ 300	T-Started <u>06:05</u>
(C) First Final Flow _____		<input checked="" type="checkbox"/> Safety Joint _____	T-Open _____
(D) Initial Shut-In _____		<input type="checkbox"/> Circ Sub _____	T-Pulled _____
(E) Second Initial Flow _____		<input type="checkbox"/> Hourly Standby _____	T-Out <u>11:17</u>
(F) Second Final Flow _____		<input checked="" type="checkbox"/> Mileage <u>46.27</u> 69	Comments <u>no EM per geo request</u>
(G) Final Shut-In _____		<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic _____		<input type="checkbox"/> Straddle _____	<input type="checkbox"/> EM Tool _____

Initial Open _____
 Initial Shut-In _____
 Final Flow _____
 Final Shut-In _____

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1719 MP/DST Disc't _____

Sub Total _____ Total 1719

Approved By _____ Our Representative [Signature] Thanks!
 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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69063**

Well Name & No. Rankin #2 Test No. 2 Date 07/05/2022
 Company Anchor Bay Petroleum LLC Elevation 2254 KB 2249 GL
 Address 1952 Victoria Rd Hays KS 67601
 Co. Rep / Geo. Ed Glassman Rig White Knight
 Location: Sec. 33 Twp 13s Rge. 20w Co. Ellis State KS

Interval Tested 3666' - 3750' Zone Tested JAC
 Anchor Length 84' Drill Pipe Run 3642 Mud Wt. 9.4
 Top Packer Depth 3661' Drill Collars Run - Vis 56
 Bottom Packer Depth 3666' Wt. Pipe Run - WL 7.2
 Total Depth 3750' Chlorides 4600 ppm System LCM 1#

Blow Description 77-BOB in 12 mins; Built to 18"
DSI - No Return
77-BOB 2 mins; Built to 70"
78- Surface to 4"; Died @ 15 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>140'</u>	<u>GMCO</u>	<u>60</u>	<u>30</u>	<u>10</u>	
<u>30'</u>	<u>GD</u>	<u>25</u>	<u>75</u>		
<u>800'</u>	<u>900' GIP</u>	<u>100</u>			

Rec Total 170' BHT 115° Gravity 36° API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1864 Test 1800 T-On Location 03:40
 (B) First Initial Flow 28 Jars _____ T-Started 06:35
 (C) First Final Flow 42 Safety Joint _____ T-Open 08:30
 (D) Initial Shut-In 935 Circ Sub _____ T-Pulled 11:30
 (E) Second Initial Flow 41 Hourly Standby X1 T-Out 13:27
 (F) Second Final Flow 75 Mileage 4627 69 Comments _____
 (G) Final Shut-In 895 Sampler _____
 (H) Final Hydrostatic 1798 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1869
 Sub Total 1869 MP/DST Disc't _____

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69064**

Well Name & No. Hankin #2 Test No. 3 Date 07/06/2022
 Company Anchor Bay Petroleum LLC Elevation 2254 KB 2249 GL
 Address 1952 Victoria Rd Hays KS 67601 +
 Co. Rep / Geo. Ed Glassman Rig White Knight
 Location: Sec. 33 Twp 13s Rge. 20w Co. Ellis State KS

Interval Tested 3795' - 3865' Zone Tested Marmaton / Cong. / Reagen Ss
 Anchor Length 70' Drill Pipe Run 3793' Mud Wt. 9.4
 Top Packer Depth 3790' Drill Collars Run - Vis 60+
 Bottom Packer Depth 3795' Wt. Pipe Run - WL 6.8
 Total Depth 3865' Chlorides 5400 ppm System LCM 1#

Blow Description J7 - Surface to 1.5"; Dried back to 1/4"
JSD - No Return
77 - No Blow
7SD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>6.50CM</u>	<u>5</u>	<u>5</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	Feet of	%gas	%oil	%water	%mud

Rec Total 30' BHT 116° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1950 Test 1800 T-On Location 01:34
 (B) First Initial Flow 20 Jars _____ T-Started 02:43
 (C) First Final Flow 27 Safety Joint _____ T-Open 05:02
 (D) Initial Shut-In 390 Circ Sub _____ T-Pulled 07:02
 (E) Second Initial Flow 27 Hourly Standby _____ T-Out 08:42
 (F) Second Final Flow 29 Mileage 4627 69 Comments _____
 (G) Final Shut-In 278 Sampler _____
 (H) Final Hydrostatic 1870 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1869 MP/DST Disc't _____

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

Approved By _____

Our Representative [Signature] Thanks!

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.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2942

Date	8-15-22	Sec.	33	Twp.	13	Range	20	County	Ellis	State	Ks	On Location		Finish	5:30 PM
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Lease Rankin
Well No. 2
Owner S. Hinto
Location Ellis 3 1/2 S to Air Base Rd, 1/2 E,

Contractor Professional Pulling Service
Type Job Port Collar
To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size
Csg. 5 1/2"
T.D.
Depth
Charge To Anchor Bay
Street

Tbg. Size 2 7/8"
Depth
City
State
Tool Port Collar
Depth 1579'

Cement Left in Csg. Plug
Shoe Joint 2824'
The above was done to satisfaction and supervision of owner agent or contractor.
Cement Amount Ordered 300 80/20 QMDC 1/4#

Meas Line Displace 8 BLS
Flo-seal - 8 sx gel
EQUIPMENT
Common

Pumptrk 16	No.	Cementor		
		Helper	Rick	
Bulktrk 21	No.	Driver	Robert	
		Driver		
Bulktrk p.u.	No.	Driver	Clayton	
		Driver		

JOB SERVICES & REMARKS
Hulls
Salt

Remarks:
Rat Hole
Flowseal

Mouse Hole
Kol-Seal

Centralizers
Mud CLR 48

Baskets
CFL-117 or CD110 CAF 38

D/V or Port Collar test tool 700# held.
Sand
Circulate oil out of the hole
pump gel to tool + open tool
Handling
finish pumping 8 sx gel mix
Mileage
16 Sx Cement. Displaced w/ 8 BLS

~~Run~~ Closed tool test to 700#.
Centralizer

held. Run 6 BLS wash clean.
Baskets

Rigged down.
AFU Inserts

Cement d'it
Float Shoe

Circulate
Latch Down

Pumptrk Charge port collar Job
Mileage 21
Thanks
Tax
Discount
Total Charge

X
Signature

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2877

Date	7-22	Sec. 33	Twp. 13	Range 20	County Ellis	State KS	On Location	Finish 10:00 AM
------	------	---------	---------	----------	--------------	----------	-------------	-----------------

Location Ellis 45 1/2 E

Lease RANKIN Well No. 2 Owner

Contractor White Night To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Lease Charge To ANCHOR BAY Pet

Hole Size 7 7/8 T.D. 3940 Street

Csg. 5 1/2 Depth City State

Tbg. Size Depth The above was done to satisfaction and approval of owner agent or contractor.

Tool Depth Cement Amount Ordered 230

Cement Left in Csg. Shoe Joint 10% salt 5# Gil.

Meas Line Displace 95 50099/ Flush

EQUIPMENT

Pumptrk 16 No. Cementer Bill Common 230

Bulktrk No. Helper Mark Poz. Mix

Bulktrk No. Driver Tim Gel.

JOB SERVICES & REMARKS

Remarks: Hulls

Rat Hole Salt 18

Mouse Hole 30 bbl Flowseal 500 gal

Centralizers Kol-Seal 900 #

Baskets Mud CLR 48

D/V or Port Collar 1567 CFL-117 or CD110 CAF 38

pipe set e 3939 Sand

Shoe JT 41.76 Handling 257

Insert 3897.24 Mileage

FLOAT EQUIPMENT

Pump 50099/ Flush Guide Shoe

Cent w/ 200# Centralizer 6

Pump plug w/ 95 bbls Baskets 2

Land plug e 1300 # AFU Inserts

Float did hold Float Shoe 1

Latch Down 1

Port Collar - 1

Pumptrk Charge Prod String

Mileage 21

Signature [Signature] Tax

Discount

Total Charge

Thanks

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2869

Date	6-28-22	Sec.	33	Twp.	13	Range	20	County	Ellis	State	KS	On Location		Finish	5:30 AM
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Location ELLIS S S & E

Lease	<u>RANKIN</u>		Well No.	<u>2</u>	Owner										
Contractor	<u>WhiteNight</u>				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Type Job	<u>SURFACE</u>				Charge To <u>ANCHOR BAY Pet</u>										
Hole Size	<u>12 1/4</u>		T.D.	<u>223</u>	Street										
Csg.	<u>8 5/8</u>		Depth		City										
Tbg. Size			Depth		State										
Tool			Depth		The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.			Shoe Joint		Cement Amount Ordered <u>150 8/20 3-2</u>										
Meas Line			Displace <u>13 1/4</u>												

EQUIPMENT

Pumptrk	17	No.	Cementer	<u>Bill</u>	Common	<u>120</u>
			Helper		Poz. Mix	<u>30</u>
Bulktrk		No.	Driver	<u>DAVID</u>	Gel.	<u>3</u>
			Driver		Calcium	<u>6</u>
Bulktrk		No.	Driver	<u>Ropax</u>		
			Driver	<u>CLAYTON</u>		

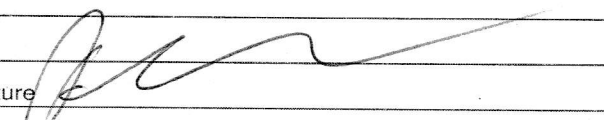
JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>Ran 5 Jts 8 5/8</u>	Sand
<u>cent w/ 150.4</u>	Handling <u>159</u>
<u>pump plug w/ 13 bbls</u>	Mileage
<u>Cent did circ.</u>	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge Surface
Mileage 21

X
Signature 

Thanks

Tax	
Discount	
Total Charge	