

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) (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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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. 2292

Date	5-4-21	Sec.	34	Twp.	6	Range	22	County	Greene	State	KS	On Location		Finish	4:30 AM
Location <i>Boyer 24 Hwy 4W 310RD 8th Emdo</i>															
Lease	<i>Davis</i>			Well No	<i>6</i>			Owner							
Contractor	<i>Discovery #2</i>			To Quality Oilwell Cementing, Inc.											
Type Job	<i>Rotary Plug</i>			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	<i>7 7/8</i>			T.D.	<i>3725</i>			Charge To	<i>Ainsworth Operating</i>						
Csg.				Depth				Street							
Tbg. Size				Depth				City	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	<i>255 60/40 4 1/2 1/4 #10</i>						
Meas Line				Displace											
EQUIPMENT															
Pumptrk	<i>17</i>	No.	Cementer		<i>Chris</i>			Common	<i>153</i>						
			Helper					Poz. Mix	<i>102</i>						
Bulktrk		No.	Driver		<i>Tom</i>			Gel.	<i>9</i>						
Bulktrk	<i>14</i>	No.	Driver		<i>Tom</i>			Calcium							
JOB SERVICES & REMARKS															
Remarks:							Hulls								
Rat Hole	<i>30SK</i>						Salt								
Mouse Hole	<i>15SK</i>						Flowseal	<i>50#</i>							
Centralizers							Kol-Seal								
Baskets							Mud CLR 48								
D/V or Port Collar							CFL-117 or CD110 CAF 38								
	<i>15'</i>	<i>1940</i>	<i>50SK</i>					Sand							
	<i>20'</i>	<i>1190</i>	<i>100SK</i>					Handling	<i>264</i>						
	<i>30'</i>	<i>320</i>	<i>50SK</i>					Mileage							
	<i>40'</i>	<i>40'</i>	<i>10SK</i>					FLOAT EQUIPMENT							
								<i>8 3/8 Dry Hole Plug</i>							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge	<i>plug</i>						
								Mileage	<i>46</i>						
<i>Thanks</i>															
Signature <i>[Signature]</i>															
Tax															
Discount															
Total Charge															

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. 2220

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4/27/21	34	6	22	Graham	Kansas		4:15 pm
Location				K18 & Hwy 24 4 west 7 1/2 North Einto			

Lease	Well No.	Owner
David's	6	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.
Contractor	Type Job	Charge To
Discovery Rig 2	Surface	Ainsworth Operating Co.
Hole Size	T.D.	Street
12 1/4	263	
Csg.	Depth	City
8 5/8	263	
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
15'	15'	200 80 30 3% cc 2% gel

Meas Line	Displace
	15 3/4

EQUIPMENT

Pumptrk	No.	Cementer	Common
16		Helper David	160
Bulktrk	No.	Driver	Poz. Mix
15		Tony	40
Bulktrk	No.	Driver	Gel.
		Tam	4
			Calcium
			7

JOB SERVICES & REMARKS

Remarks:	Hulls
	500# (10)
Rat Hole	Salt
Mouse Hole	Flowseal
	100#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling
	211
	Mileage

Cemented 8 5/8 with 160 SKS

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Cement Did Circulate

Pumptrk Charge	Surface
Mileage	46

Tax
Discount
Total Charge

X Signature

[Handwritten Signature]

Thanks



DRILL STEM TEST REPORT

Prepared For: **Ainsworth Operating Co.**

4676 Commercial St.
SE STE 412
Salem OR 97302

ATTN: Randy Kilian

Davis #6

34-6n-22w Graham,KS

Start Date: 2021.05.01 @ 02:15:00

End Date: 2021.05.01 @ 10:40:39

Job Ticket #: 66697 DST #: 1

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

Printed: 2021.05.06 @ 10:42:39



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Ainsworth Operating Co.

34-6n-22w Graham,KS

4676 Commercial St.
SE STE 412
Salem OR 97302
ATTN: Randy Kilian

Davis #6

Job Ticket: 66697

DST#: 1

Test Start: 2021.05.01 @ 02:15:00

GENERAL INFORMATION:

Formation: **Platts mouth**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:37:30

Time Test Ended: 10:40:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 71

Interval: 3442.00 ft (KB) To 3455.00 ft (KB) (TVD)

Reference Elevations: 2289.00 ft (KB)

Total Depth: 3455.00 ft (KB) (TVD)

2281.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366 Outside

Press@RunDepth: 222.96 psig @ 3443.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.01 End Date: 2021.05.01

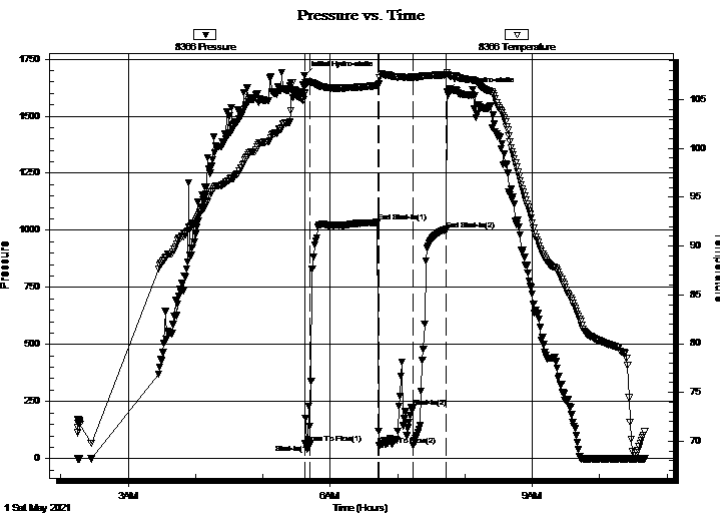
Last Calib.: 2021.05.01

Start Time: 02:15:01 End Time: 10:40:40

Time On Btm: 2021.05.01 @ 05:37:00

Time Off Btm: 2021.05.01 @ 07:44:00

TEST COMMENT: 5 IF - Slide 6', 1" blow built to 1 1/4", plugging through both opens
60 ISI - No return
30 FF - Surface blow
30 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.18	105.75	Initial Hydro-static
1	68.20	105.61	Open To Flow (1)
5	60.50	106.78	Shut-In(1)
66	1035.03	106.44	End Shut-In(1)
67	59.01	106.66	Open To Flow (2)
97	222.96	107.30	Shut-In(2)
127	1004.09	107.55	End Shut-In(2)
127	1605.98	107.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
37.00	Mud 100%M	0.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ainsworth Operating Co.

34-6n-22w Graham,KS

4676 Commercial St.
SE STE 412
Salem OR 97302
ATTN: Randy Kilian

Davis #6

Job Ticket: 66697

DST#: 1

Test Start: 2021.05.01 @ 02:15:00

Tool Information

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.80 inches	Volume: 48.34 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.34 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3442.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	40.00 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			3420.00	
Hydraulic tool	5.00			3425.00	
Em Tool	4.00			3429.00	
Safety Joint	3.00			3432.00	
Packer	5.00			3437.00	27.00 Bottom Of Top Packer
Packer	5.00			3442.00	
Stubb	1.00			3443.00	
Recorder	0.00	8353	Inside	3443.00	
Recorder	0.00	8366	Outside	3443.00	
Perforations	9.00			3452.00	
Bullnose	3.00			3455.00	13.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ainsworth Operating Co.

34-6n-22w Graham,KS

4676 Commercial St.
SE STE 412
Salem OR 97302
ATTN: Randy Kilian

Davis #6

Job Ticket: 66697

DST#: 1

Test Start: 2021.05.01 @ 02:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
37.00	Mud 100%M	0.519

Total Length: 37.00 ft Total Volume: 0.519 bbl

Num Fluid Samples: 0

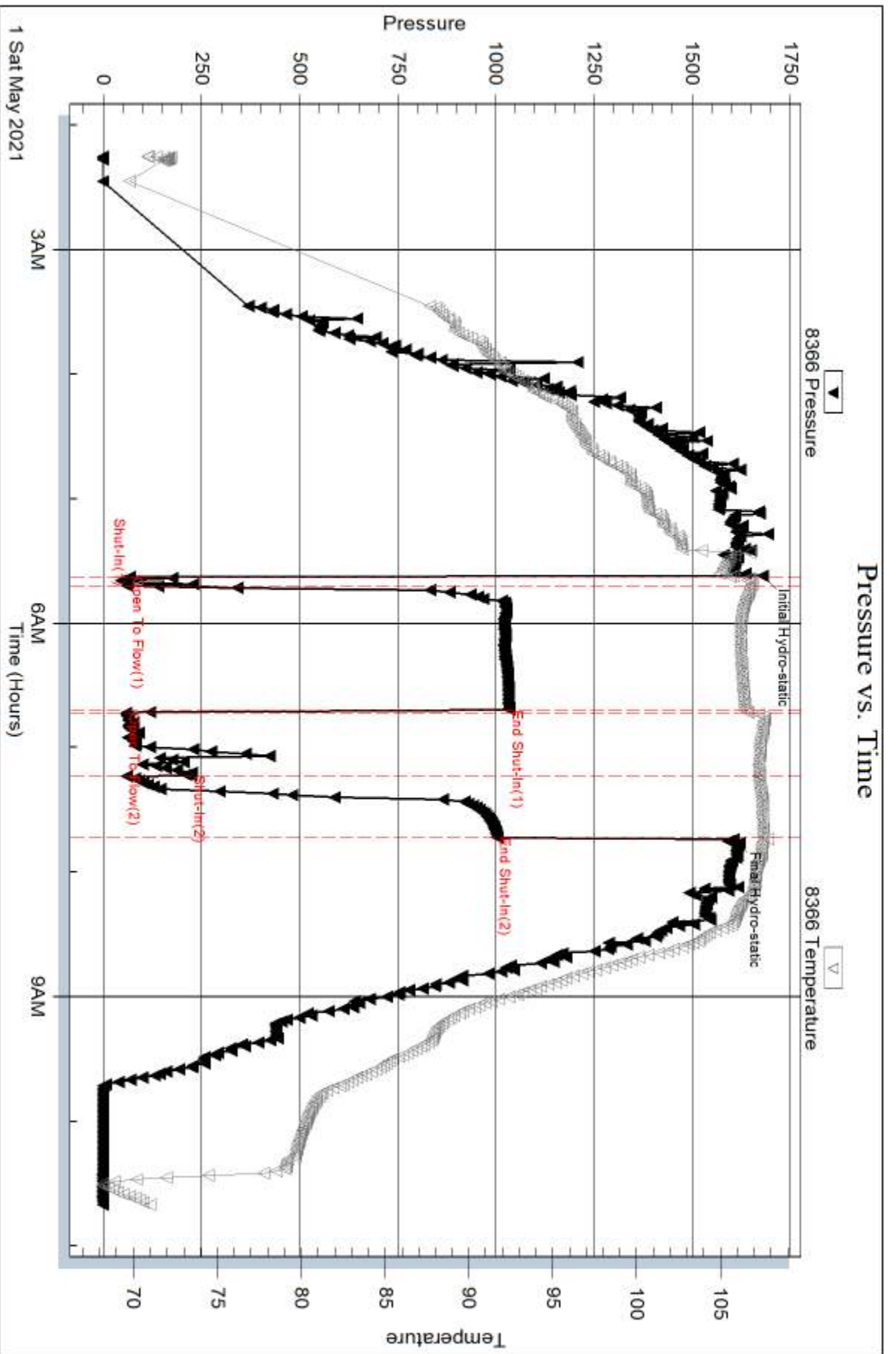
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



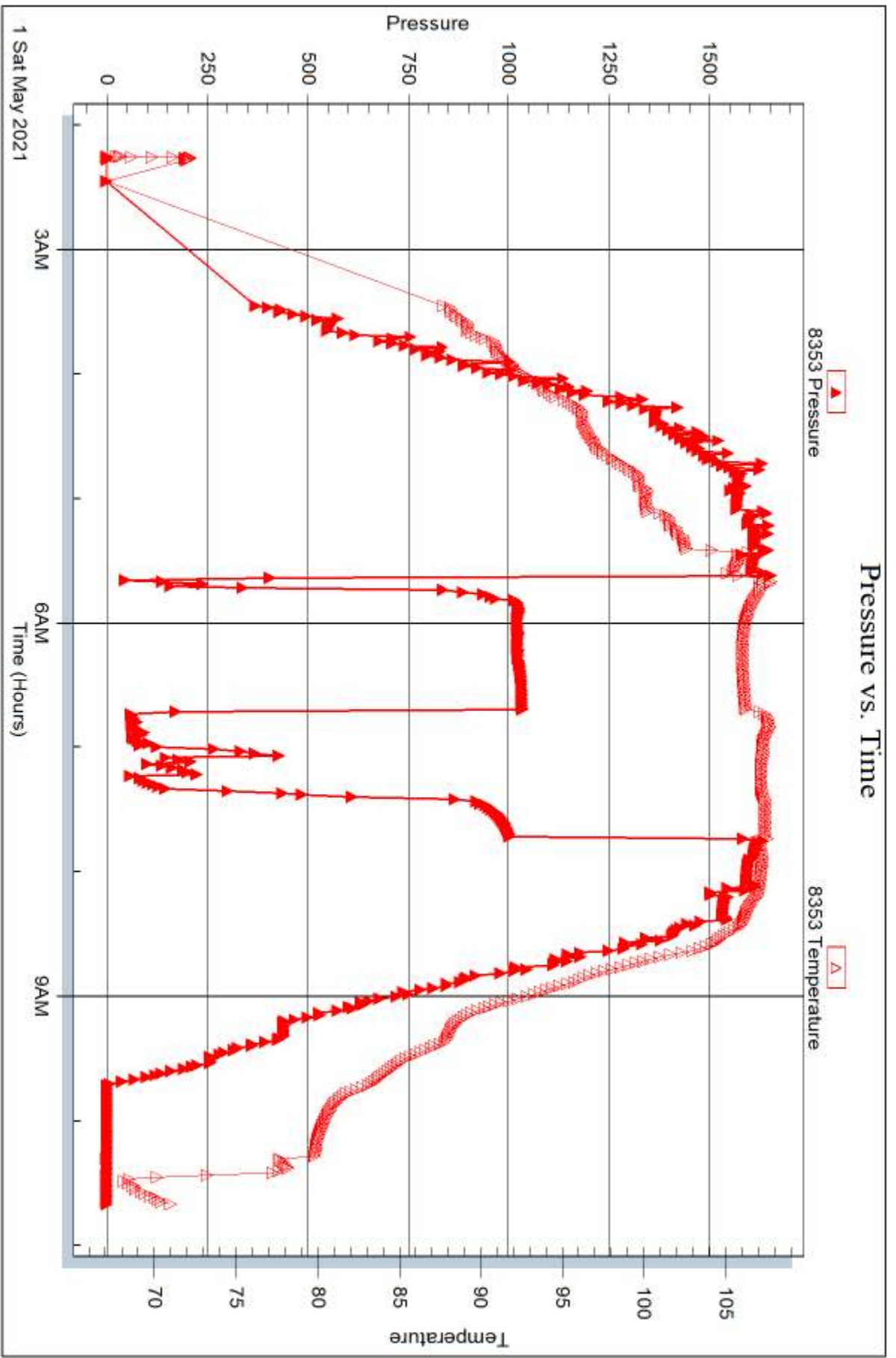
Serial #: 8353

Inside

Airsw orth Operating Co.

Davis #6

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66697

Printed: 2021.05.06 @ 10:42:40



DRILL STEM TEST REPORT

Prepared For: **Ainsworth Operating Co.**

4676 Commercial St.
SE STE 412
Salem OR 97302

ATTN: Randy Kilian

Davis #6

34-6n-22w Graham,KS

Start Date: 2021.05.02 @ 03:32:00

End Date: 2021.05.02 @ 11:59:39

Job Ticket #: 66698 DST #: 2

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

Printed: 2021.05.06 @ 10:40:20

Ainsworth Operating Co. 34-6n-22w Graham,KS Davis #6 DST # 2 LKC " A - C " 2021.05.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ainsworth Operating Co.

34-6n-22w Graham,KS

4676 Commercial St.
SE STE 412
Salem OR 97302
ATTN: Randy Kilian

Davis #6

Job Ticket: 66698

DST#: 2

Test Start: 2021.05.02 @ 03:32:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:07:50

Time Test Ended: 11:59:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 3519.00 ft (KB) To 3567.00 ft (KB) (TVD)

Reference Elevations: 2289.00 ft (KB)

Total Depth: 3567.00 ft (KB) (TVD)

2281.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366 Outside

Press@RunDepth: 273.33 psig @ 3520.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.02 End Date: 2021.05.02

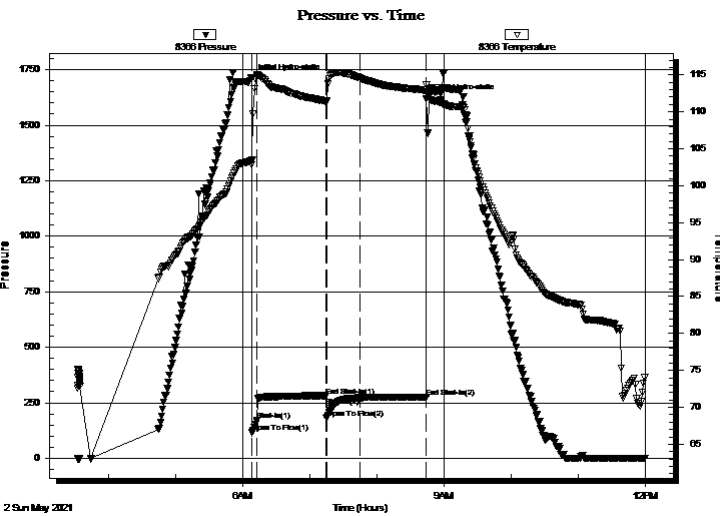
Last Calib.: 2021.05.02

Start Time: 03:32:01 End Time: 11:59:40

Time On Btm: 2021.05.02 @ 06:07:30

Time Off Btm: 2021.05.02 @ 08:44:00

TEST COMMENT: 5 IF - BoB @ 1 mins built to 33" on ipro
60 ISI - No return
30 FF - BoB @ 3 mins built to 33" on ipro
60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.63	103.28	Initial Hydro-static
1	115.75	102.83	Open To Flow (1)
5	170.87	115.00	Shut-In(1)
67	281.79	111.46	End Shut-In(1)
67	180.01	111.41	Open To Flow (2)
97	273.33	114.57	Shut-In(2)
157	275.07	112.95	End Shut-In(2)
157	1618.53	113.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOCMW 1%o - 29%M - 70%W	0.84
390.00	VSOCMW - 1%o - 5%M - 94%W	5.47
100.00	VSOCMW - 1%o - 40%M - 59%W	1.40

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ainsworth Operating Co.

34-6n-22w Graham,KS

4676 Commercial St.
SE STE 412
Salem OR 97302
ATTN: Randy Kilian

Davis #6

Job Ticket: 66698

DST#: 2

Test Start: 2021.05.02 @ 03:32:00

Tool Information

Drill Pipe:	Length: 3507.00 ft	Diameter: 3.80 inches	Volume: 49.19 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.19 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3519.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	75.00 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			3497.00	
Hydraulic tool	5.00			3502.00	
Em Tool	4.00			3506.00	
Safety Joint	3.00			3509.00	
Packer	5.00			3514.00	27.00 Bottom Of Top Packer
Packer	5.00			3519.00	
Stubb	1.00			3520.00	
Recorder	0.00	8353	Inside	3520.00	
Recorder	0.00	8366	Outside	3520.00	
Perforations	9.00			3529.00	
Blank Spacing	33.00			3562.00	
Perforations	2.00			3564.00	
Bullnose	3.00			3567.00	48.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ainsworth Operating Co.

34-6n-22w Graham,KS

4676 Commercial St.
SE STE 412
Salem OR 97302
ATTN: Randy Kilian

Davis #6

Job Ticket: 66698

DST#: 2

Test Start: 2021.05.02 @ 03:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.59 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VSOCMW 1%o - 29%M - 70%W	0.842
390.00	VSOCMW - 1%o - 5%M - 94%W	5.471
100.00	VSOCMW - 1%o - 40%M - 59%W	1.403

Total Length: 550.00 ft Total Volume: 7.716 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

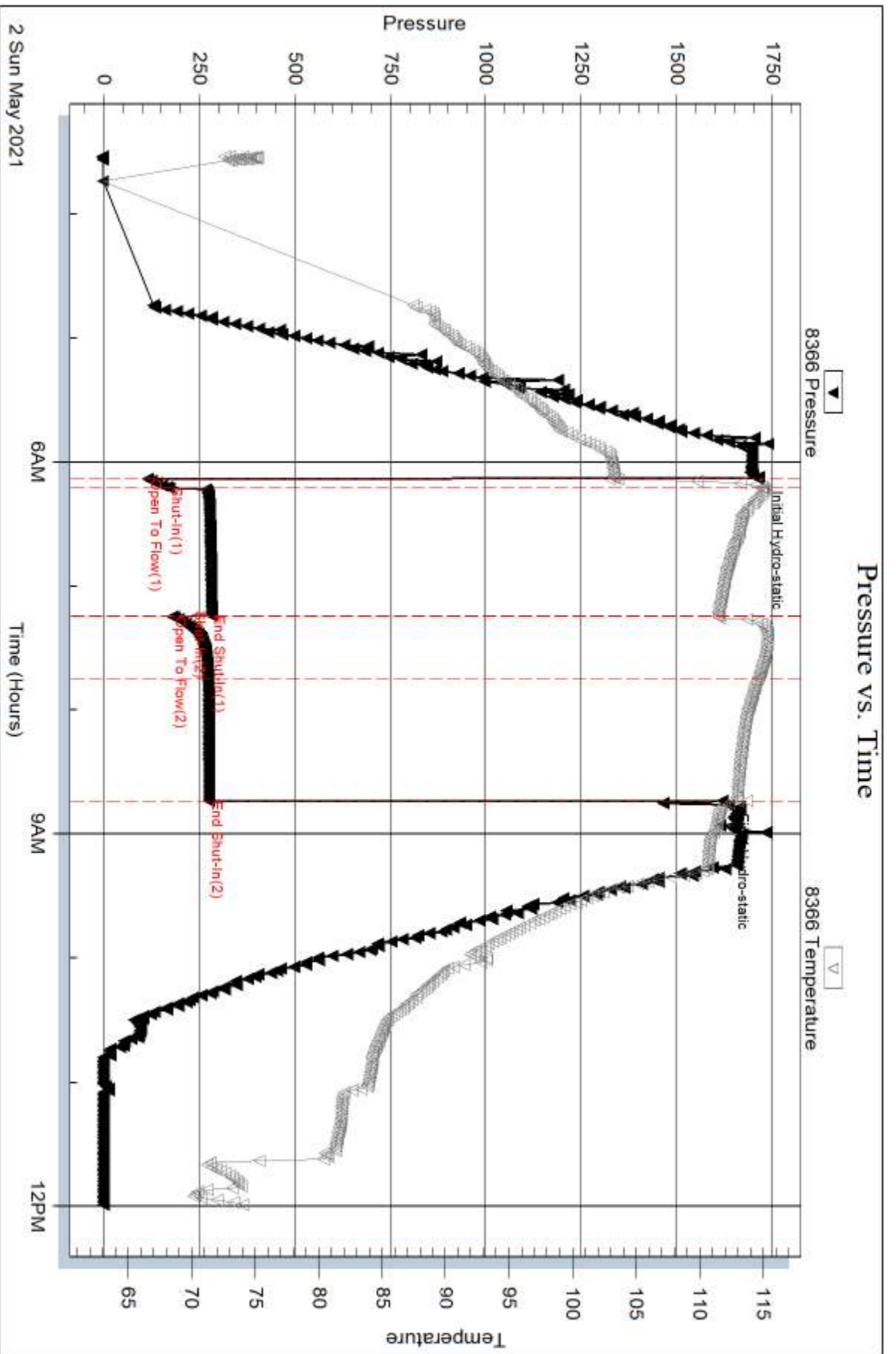
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .124 @ 67 DEG F

Chlorides = 60,000 ppm



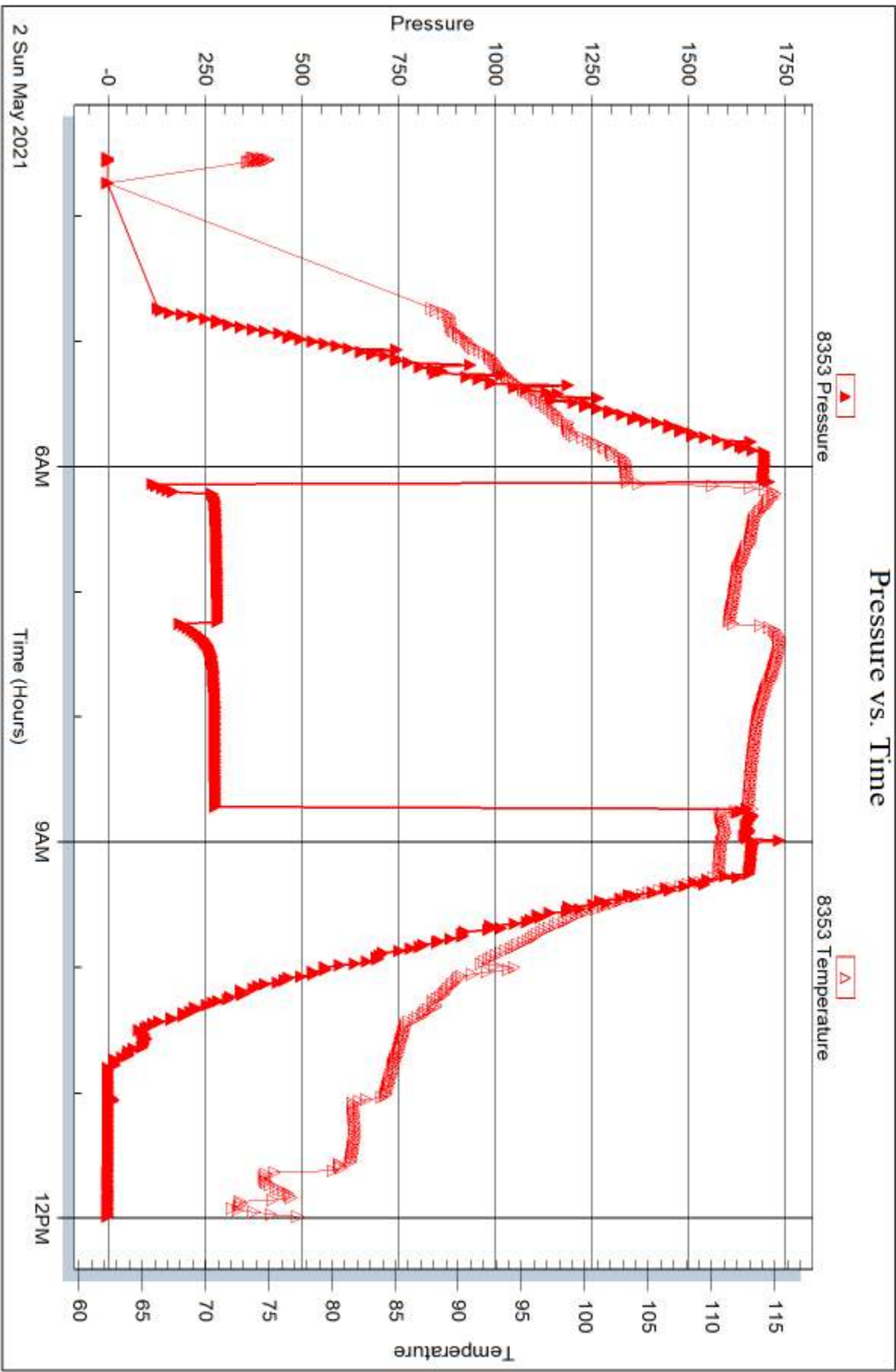
Serial #: 8353

Inside

Airsw orth Operating Co.

Davis #6

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Ainsworth Operating Co.**

4676 Commercial St.
SE STE 412
Salem OR 97302

ATTN: Randy Kilian

Davis #6

34-6n-22w Graham,KS

Start Date: 2021.05.02 @ 21:00:00

End Date: 2021.05.03 @ 05:29:30

Job Ticket #: 66699 DST #: 3

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

Printed: 2021.05.06 @ 10:39:48

Ainsworth Operating Co. 34-6n-22w Graham,KS Davis #6 DST # 3 LKC " E - F " 2021.05.02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Ainsworth Operating Co.

34-6n-22w Graham,KS

4676 Commercial St.
SE STE 412
Salem OR 97302
ATTN: Randy Kilian

Davis #6

Job Ticket: 66699

DST#: 3

Test Start: 2021.05.02 @ 21:00:00

GENERAL INFORMATION:

Formation: **LKC " E - F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:33:30

Time Test Ended: 05:29:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 3581.00 ft (KB) To 3600.00 ft (KB) (TVD)

Reference Elevations: 2289.00 ft (KB)

Total Depth: 3600.00 ft (KB) (TVD)

2281.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366 Outside

Press@RunDepth: 139.91 psig @ 3582.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.02

End Date: 2021.05.03

Last Calib.: 2021.05.03

Start Time: 21:00:01

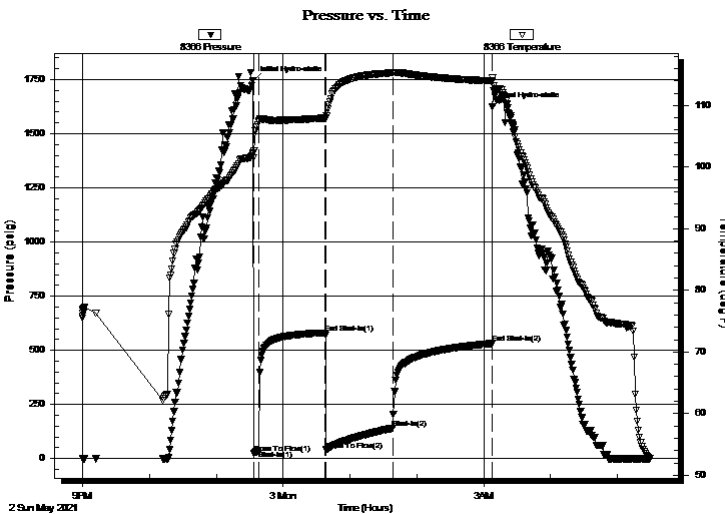
End Time: 05:29:30

Time On Btm: 2021.05.02 @ 23:33:10

Time Off Btm: 2021.05.03 @ 03:08:00

TEST COMMENT: 5 IF - 3/4" blow built to 5"
60 ISI - No return
60 FF - Surface blow built to BoB @ 20 mins, built to 27" on ipro
90 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1744.45	102.32	Initial Hydro-static
1	22.68	101.49	Open To Flow (1)
5	39.08	107.48	Shut-In(1)
65	581.03	107.97	End Shut-In(1)
66	40.85	107.82	Open To Flow (2)
126	139.91	115.32	Shut-In(2)
215	531.59	113.99	End Shut-In(2)
215	1625.98	114.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOCMW - 1%o - 29%M - 70%W	0.84
190.00	VSOCMW - 1%o - 20%M - 79%W	2.67
30.00	FO - 100%o	0.42

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ainsworth Operating Co.

34-6n-22w Graham,KS

4676 Commercial St.
SE STE 412
Salem OR 97302
ATTN: Randy Kilian

Davis #6

Job Ticket: 66699

DST#: 3

Test Start: 2021.05.02 @ 21:00:00

Tool Information

Drill Pipe:	Length: 3570.00 ft	Diameter: 3.80 inches	Volume: 50.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 50.08 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3581.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3559.00	
Hydraulic tool	5.00			3564.00	
Em Tool	4.00			3568.00	
Safety Joint	3.00			3571.00	
Packer	5.00			3576.00	27.00 Bottom Of Top Packer
Packer	5.00			3581.00	
Stubb	1.00			3582.00	
Recorder	0.00	8353	Inside	3582.00	
Recorder	0.00	8366	Outside	3582.00	
Perforations	15.00			3597.00	
Bullnose	3.00			3600.00	19.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ainsworth Operating Co.

34-6n-22w Graham,KS

4676 Commercial St.
SE STE 412
Salem OR 97302
ATTN: Randy Kilian

Davis #6

Job Ticket: 66699

DST#: 3

Test Start: 2021.05.02 @ 21:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.60 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 33 deg API
Water Salinity: 42000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VSOCMW - 1%o - 29%M - 70%W	0.842
190.00	VSOCMW - 1%o - 20%M - 79%W	2.665
30.00	FO - 100%o	0.421

Total Length: 280.00 ft Total Volume: 3.928 bbl

Num Fluid Samples: 0

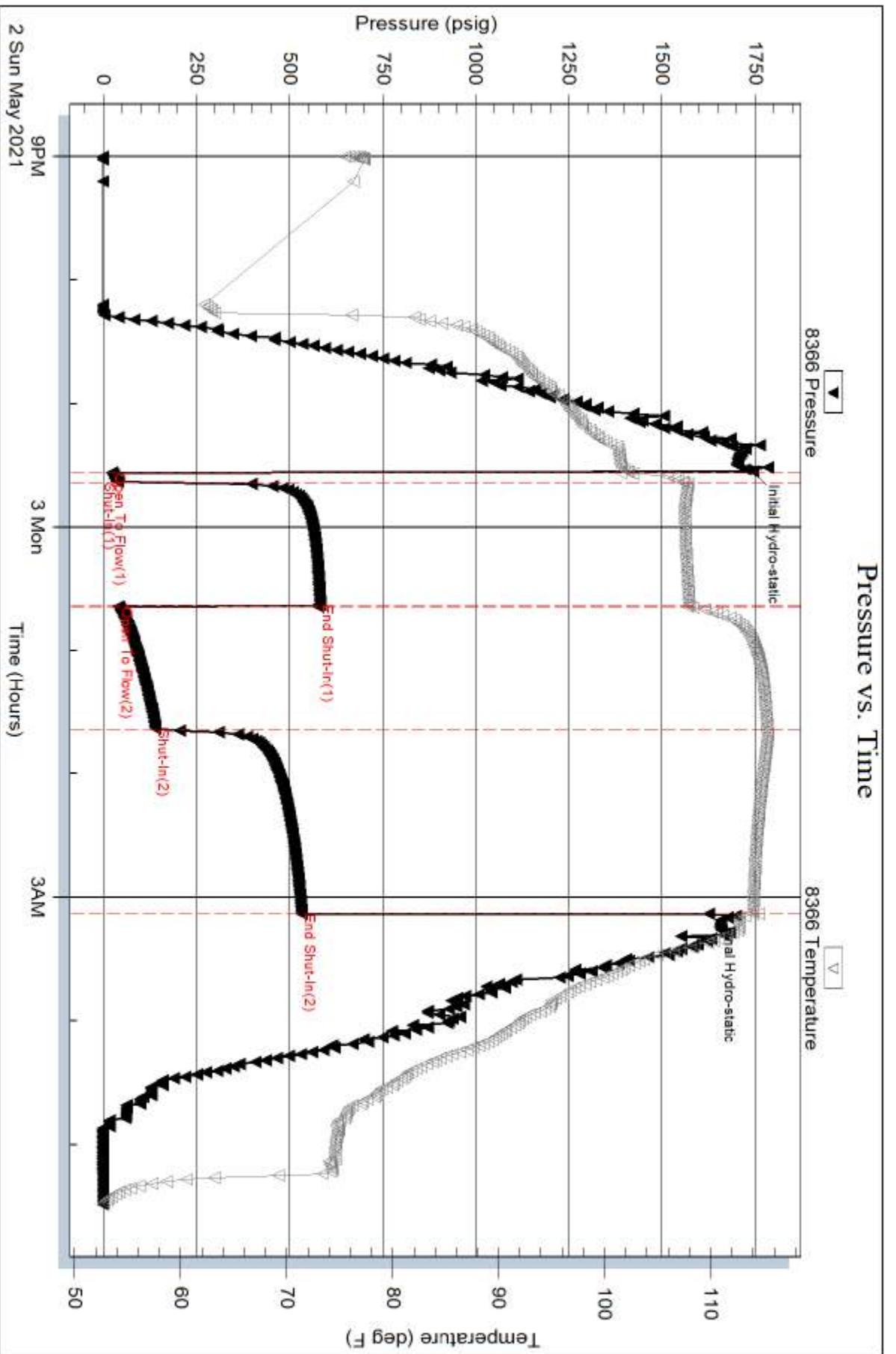
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 32 @ 50 DEG F = 33 COR 60 DEG F
RW = .239 @ 50 DEG F
Chlorides = 42,000 ppm



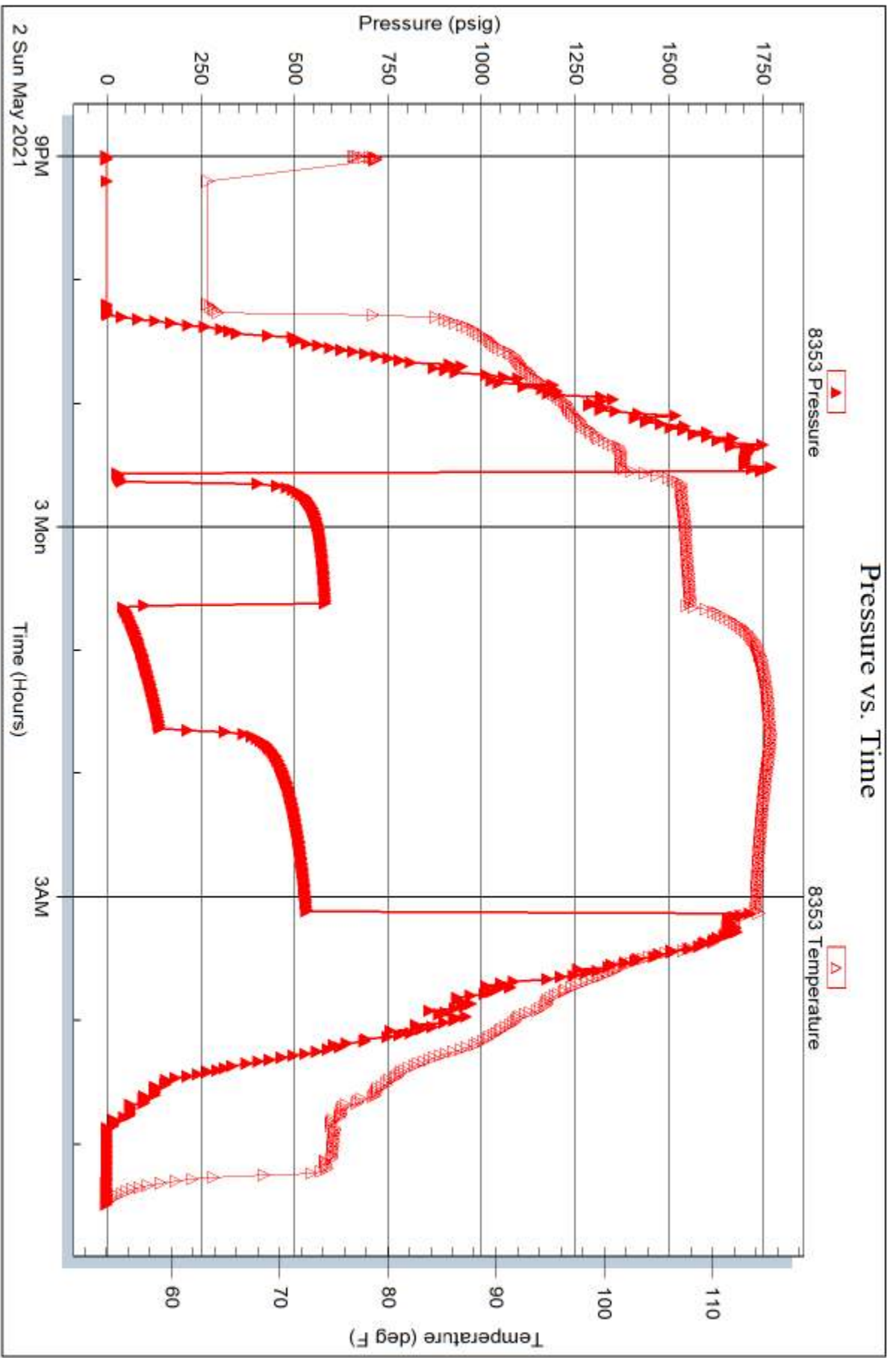
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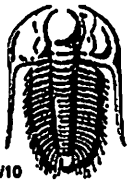
Inside

Airsw orth Operating Co.

Davis #6

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66697

NO.

Well Name & No. Davis #6 Test No. 1 Date 5/1/21
 Company Ainsworth Operating Co. Elevation 2289 KB 2281 GL
 Address 4676 Commercial St. SE STE #412 Salem Oregon 97302
 Co. Rep / Geo. Randy Kilian Rig Discovery #2
 Location: Sec. 34 Twp 6N Rge. 22W Co. Graham State KS

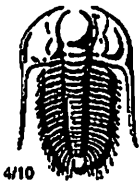
Interval Tested 3442 - 3455 Zone Tested Plattsmouth
 Anchor Length 13' Drill Pipe Run 3446' Mud Wt. 8.6
 Top Packer Depth 3437 Drill Collars Run 0' Vls 62
 Bottom Packer Depth 3442 Wt. Pipe Run 0' WL 7.2
 Total Depth 3455 Chlorides 1000 ppm System LCM 1
 Blow Description 5 IF - 1" blow built to 1 1/4"
BOISI - No return
30 FF - Surface blow
30 FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>37'</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 37' BHT 106° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1679</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>01:00</u>
(B) First Initial Flow <u>68</u>	<input type="checkbox"/> Jars	T-Started <u>02:15</u>
(C) First Final Flow <u>61</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>05:39</u>
(D) Initial Shut-In <u>1035</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>07:43</u>
(E) Second Initial Flow <u>59</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:30</u>
(F) Second Final Flow <u>223</u>	<input checked="" type="checkbox"/> Mileage <u>162.50 130 RT</u>	Comments
(G) Final Shut-In <u>1004</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1606</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350 NS</u>
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1437.50</u>
	Sub Total <u>1437.50</u>	MP/DST Disc't

Approved By _____ Our Representative Randy Kilian
 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 66698

NO.

Well Name & No. Davis #6 Test No. 2 Date 5/2/21
 Company Ainsworth Operating Co. Elevation 2289 KB 2281 GL
 Address 4676 Commercial St. SE STE #412 Salem OR 97302
 Co. Rep / Geo. Kandy Kilian Rig Discovery #2
 Location: Sec. 34 Twp 6N Rge. 22W Co. Graham State KS

Interval Tested 3519 - 3567 Zone Tested LKC "A-C"
 Anchor Length 48' Drill Pipe Run 3507' Mud Wt. 8.9
 Top Packer Depth 3514 Drill Collars Run 0' Vis 55
 Bottom Packer Depth 3519 Wt. Pipe Run 0' WL 7.6
 Total Depth 3567 Chlorides 1000 ppm System LCM 2

Blow Description 5 IF - BoB @ 1 min built to 33" on ipro
80 ISI - No return
30 FF - BoB @ 3 mins built to 33" on ipro
60 FSI - No return

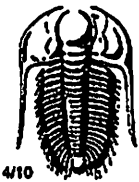
Rec	Feet of	%gas	%oil	%water	%mud
<u>100'</u>	<u>V50M CW</u>	<u>1</u>	<u>1</u>	<u>94</u>	<u>5</u>
<u>390</u>	<u>V50M CW</u>	<u>1</u>	<u>1</u>	<u>70</u>	<u>29</u>
<u>60</u>	<u>V50M CW</u>				

Rec Total 550' BHT 113° Gravity — API RW 124 @ 67° F Chlorides 60,000 ppm

(A) Initial Hydrostatic 1709 Test 1200 T-On Location 03:00
 (B) First Initial Flow 116 Jars T-Started 03:32
 (C) First Final Flow 171 Safety Joint T-Open 06:07
 (D) Initial Shut-In 282 Circ Sub T-Pulled 08:43
 (E) Second Initial Flow 180 Hourly Standby T-Out 12:00
 (F) Second Final Flow 273 Mileage 130 RT 162.50 Comments _____
 (G) Final Shut-In 275 Sampler _____
 (H) Final Hydrostatic 1619 Straddle _____

Initial Open 5 EM Tool 350
 Initial Shut-In 60 Ruined Shale Packer _____
 Final Flow 30 Ruined Packer _____
 Final Shut-In 60 Extra Packer _____
 Sub Total 1362.50 Extra Recorder _____
 Sub Total 1362.50 Day Standby _____
 Sub Total 1362.50 Accessibility _____
 Sub Total 1362.50 MP/DST Disc't _____

Approved By _____ Our Representative Rydz
 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 66699

NO.

Well Name & No. Davis #6 Test No. 3 Date 5/12/21
 Company Ainsworth Operating Co. Elevation 2289 KB 2281 GL
 Address 4676 Commercial St. SE STE #412 Salem OK 97302
 Co. Rep / Geo. Randy Kilian Rig Discovery #2
 Location: Sec. 34 Twp 6N Rge. 22W Co. Graham State KS

Interval Tested 3581 - 3600 Zone Tested LKC "E-F"
 Anchor Length 3576 Drill Pipe Run 3570' Mud Wt. 8.8
 Top Packer Depth 3581 Drill Collars Run 0' Vis 54
 Bottom Packer Depth 3600 Wt. Pipe Run 0' WL 7.6
 Total Depth _____ Chlorides 1000 ppm System LCM 2

Blow Description SIF - 3/4" blow built to 5"
60 ISI - No return
60 FF - Surface blow built to BoB @ 20 mins, 27" on ipro
90 FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>F0</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>190</u>	<u>NSOCMW</u>	<u>1</u>	<u>79</u>	<u>20</u>	<u>0</u>
<u>60</u>	<u>NSOCMW NSOCMW</u>	<u>1</u>	<u>70</u>	<u>27</u>	<u>0</u>
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 280' BHT 114° Gravity 33 CAR 60 API RW 239 @ 50° F Chlorides 212,000 ppm

(A) Initial Hydrostatic 1744 Test 1200 T-On Location 20:15
 (B) First Initial Flow 23 Jars _____ T-Started 21:00
 (C) First Final Flow 39 Safety Joint _____ T-Open 23:33
 (D) Initial Shut-In 581 Circ Sub _____ T-Pulled 03:08
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out 09:00
 (F) Second Final Flow 140 Mileage 325 130 RT X2 Comments loaded tools
 (G) Final Shut-In 532 Sampler _____ @ 21:00 5/12/21
 (H) Final Hydrostatic 1626 Straddle _____ EM Tool 350 NS

Initial Open 5 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder _____ Extra Copies _____
 Final Shut-In 90 Day Standby _____ Sub Total 0
 Sub Total 1525 Accessibility _____ Total 1525
 Sub Total 1525 MP/DST Disc't _____

Approved By _____ Our Representative Randy Kilian

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Randall Kilian Corporation

Geologist



**Certified Petroleum
Geologist #3351
License #224**

3951 Eveningglow Way
Castle Rock, CO 80104

Phone: 720-733-0420

Cell: 785-635-1349

E-mail: rkgeo53@hotmail.com

GEOLOGIST'S WELL REPORT

COMPANY AINSWORTH OPERATING CO (6030)

WELL Davis #6

FIELD Red Sun

LOCATION (legal) SE NE SW NW

(footages) 1885' FNL & 1030' FWL

Section 34 TWP 6S RGE 22W

(Map) 9 mi N & 4 mi E of Hill City

COUNTY Graham STATE Kansas

ELEVATION: 2289' K.B., 2281' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-065-24191

GEOLOGY BY Randall Kilian

PERTINENT WELL DATA

CONTRACTOR Discovery Drilling (31458)

RIG #2 HYDRAULICS D-375 6x14x56
(Terry Whickam TP)

DRILL PIPE 4 1/2" X-H COLLARS 6 1/2" 17 (551')

CASING: SURFACE 8 5/8" @ 260' w/ 200 sx 80/20 Poz

PRODUCTION _____

DRILLING FLUID. COMPANY Andy's Mud & Chemical Co.

TYPE: Chemical-Pac

REMARKS: Full service

DRILL STEM TESTS: COMPANY Trilobite Testin Inc.
(Ryan Nichols)

NUMBER OF TESTS Three (3)

ELECTIC LOGS: COMPANY None

DETAIL (5") 3200' - RTD

TYPE _____

DRILLING TIME FROM 3200' TO RTD

SAMPLE TIME FROM 3200' TO RTD

SUPERVISION FROM 3200' TO RTD

VERTICAL DEVIATION 1/4" @ 260', 3/4" @ 3051', 1 1/4" @

PLUGGING REPORT 50 sx @ 1940', 100 sx @ 1190', 50 sx @
10 sx @ 40', 30 sx Bat, 15 sx Mouse, 255 sx 60/40 Poz 4%

RESERVE PIT 700 bbls, Chl 9K, Cal 1450

DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISIP/TIME	FFP/TIME	FSIP/TIME	IHP/FHP	RECOVERY
1	Plats 3442- 3455'	68# 61# 5"	1035# 60"	59# 223# 30"	1004# 30"	1679# 1606#	37' Mud Slid to bottom, Plugging?
2	LKc A-C 3519- 3567'	116# 171# 5"	282# 60"	180# 273# 30"	275# 60"	1709# 1619#	550' Sl.O,C.M.W
3	LKc B-F 3581- 3600'	23# 41# 5"	581# 60"	41# 140# 60"	532# 90"	1744# 1626#	30' Oil 250' Sl.O,C.M.W
4							
5							
6							
7							
8							

MUD RECORD

CHK	DEPTH	WT	VIS	FIL	CHL	YP
1	3062'					
2	3197'	8.6	62	7.2	1k	23
3	3400'		64			
4	3455'	8.9	55	7.6	1.5k	17
5	3567'	9.0	50	8.0	1k	12
6	3620'	9.1	52	7.6	2k	15
7	3690'	9.1	68			
8						
9						
10						
11						

Displaced

LCM 1#

LCM 2#

LCM 1.5#

LCM 1#

LCM 1#

LCM 4# \$7509

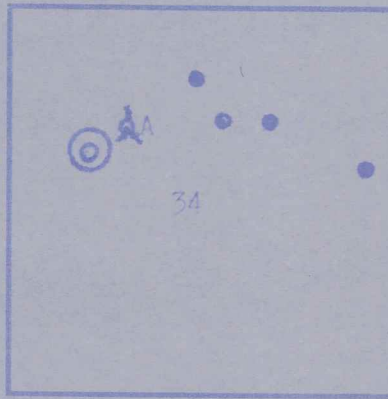
BIT RECORD

NO	SIZE	MAKE	TYPE	DEPTHOUT	FEET	HOURS
1	12 1/4"	JZ	RR	260'	260'	3 1/2
2	7 7/8"	Mear	PDC	3051'	2791'	25
3	7 7/8"	HTCo.	GX20C	3455'	404'	14 1/2
4	7 7/8"	HTCo.	GX20C	3725'	270'	18 1/2
5						

FORMATION TOPS & STRUCTURAL GEO

R 22 W

REFERRED TO:



A: ATNSWORTH OPERATING CO.
Davis #3 NW SE NW

B: _____

C: _____

D: _____

E: _____

STRATIGRAPHIC

SUBJECT WELL

STRUCTURAL POS

<u>MARKERS</u>	<u>SAMPLES</u>	<u>E. LOGS</u>	<u>DATUM</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
Anhydrite	1928'		+ 361	+ 357			
Base	1961'		+ 328	+ 326			
Topeka	3287'		- 998	-1001			
Heeb Sh	3487'		-1198	-1202			
Toronto	3509'		-1220	-1226			
Lansing	3528'		-1239	-1244			
BKe	3713'		-1429	-1437			
Arbuckle							
TD	3725'		-1436	-1559			

Pipe strap 1.19' long.

*Structural position of subject well as compared to refer

LOGY

SUMMARY

The Davis #6 well was drilled with Discovery tools rig #2 beginning April 26, 2021 and drill completed May 4, 2021.

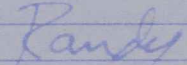
The drill site was located via a 3-D seismic

The well ran high structurally to the nearby and high to several nearby wells.

The primary pay zone, the LKc A & C zones test with low BHP. All quality oil shows were tested DST's. The well TD'ed 7' below the BKc.

Based upon all data, the well was plugged as

Respectfully,



Randall Kilian

TION

E

ed well.

Drilling
log was

Survey.

3 SWDW

ed water
with 3

dry hole.

REMARKS

LITHOLOGY (LAGGED)

ρ & SHOWS

POOR
FAIR
GOOD
DST

DRILLING TIME (min/ft)

1/2 1 2 3 4 5 6 7 8 9 10

1900

10

20

AN.H.

30

40

50

60

70

80

Base 60

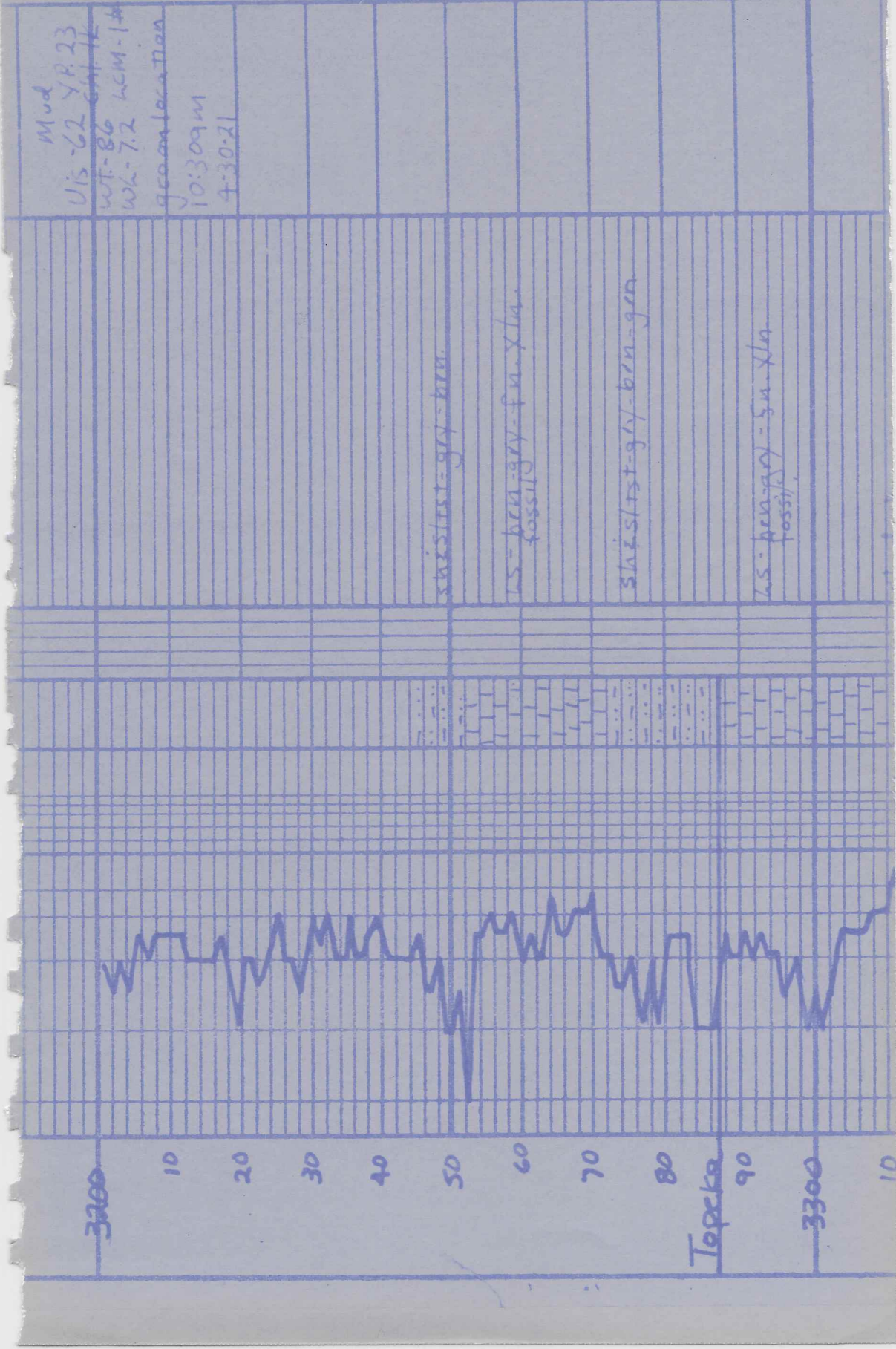
Displayed
3062

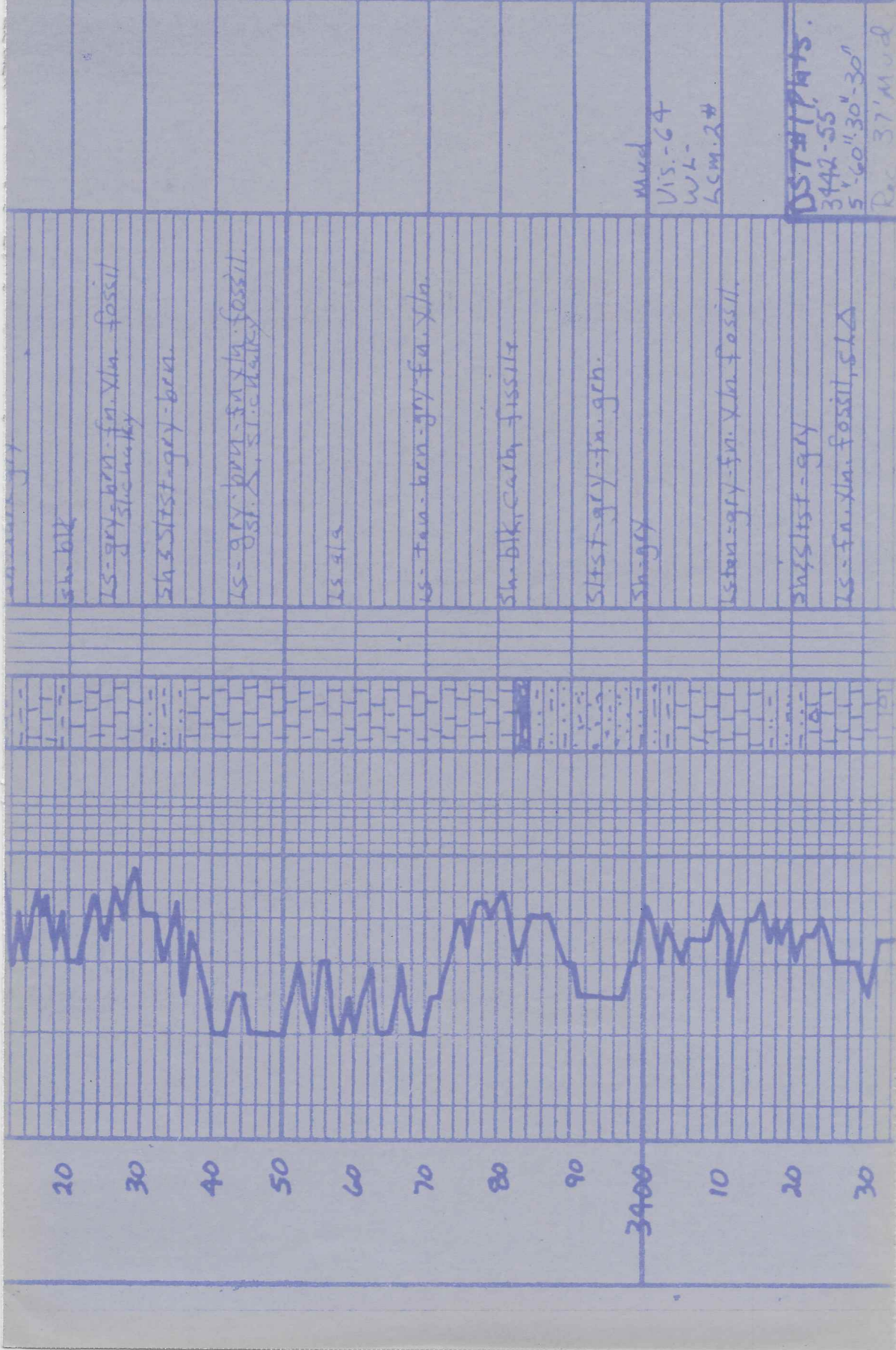
Mud
Uis-62 YR. 23
WT-86 CH. 11
Wk-7.2 LCM-14
geo correlation
10:30 AM
4-30-21

3200 10 20 30 40 50 60 70 80 90 3300 10

Topoka

sh. sst. - gry - brn.
LS - brn - gry - fin. x la.
fossiliferous
sh. sst. - gry - brn - gra.
LS - brn - gry - fin. x la.
fossiliferous





20 30 40 50 60 70 80 90 3400 10 20 30

sh. blk
 LS-gry-ben-fn. Xln. fossil
 sh. siltst-gry-ben.
 LS-gry-ben-fn. Xln. fossil
 LS sls
 LS-fan-ben-gry-fn. Xln.
 sh. blk carb. fissile
 siltst-gry-fn. grh.
 sh-gry
 Lsten-gry-fn. Xln. fossil.
 sh/siltst-gry
 LS-fn. Xln. fossil, sh. Δ

Mud
 Vis.-64
 WL-
 L.C.M. 2#

DST #11, 11A, 11B, 11C, 11D, 11E, 11F, 11G, 11H, 11I, 11J, 11K, 11L, 11M, 11N, 11O, 11P, 11Q, 11R, 11S, 11T, 11U, 11V, 11W, 11X, 11Y, 11Z, 11AA, 11AB, 11AC, 11AD, 11AE, 11AF, 11AG, 11AH, 11AI, 11AJ, 11AK, 11AL, 11AM, 11AN, 11AO, 11AP, 11AQ, 11AR, 11AS, 11AT, 11AU, 11AV, 11AW, 11AX, 11AY, 11AZ, 11BA, 11BB, 11BC, 11BD, 11BE, 11BF, 11BG, 11BH, 11BI, 11BJ, 11BK, 11BL, 11BM, 11BN, 11BO, 11BP, 11BQ, 11BR, 11BS, 11BT, 11BU, 11BV, 11BW, 11BX, 11BY, 11BZ, 11CA, 11CB, 11CC, 11CD, 11CE, 11CF, 11CG, 11CH, 11CI, 11CJ, 11CK, 11CL, 11CM, 11CN, 11CO, 11CP, 11CQ, 11CR, 11CS, 11CT, 11CU, 11CV, 11CW, 11CX, 11CY, 11CZ, 11DA, 11DB, 11DC, 11DD, 11DE, 11DF, 11DG, 11DH, 11DI, 11DJ, 11DK, 11DL, 11DM, 11DN, 11DO, 11DP, 11DQ, 11DR, 11DS, 11DT, 11DU, 11DV, 11DW, 11DX, 11DY, 11DZ, 11EA, 11EB, 11EC, 11ED, 11EE, 11EF, 11EG, 11EH, 11EI, 11EJ, 11EK, 11EL, 11EM, 11EN, 11EO, 11EP, 11EQ, 11ER, 11ES, 11ET, 11EU, 11EV, 11EW, 11EX, 11EY, 11EZ, 11FA, 11FB, 11FC, 11FD, 11FE, 11FF, 11FG, 11FH, 11FI, 11FJ, 11FK, 11FL, 11FM, 11FN, 11FO, 11FP, 11FQ, 11FR, 11FS, 11FT, 11FU, 11FV, 11FW, 11FX, 11FY, 11FZ, 11GA, 11GB, 11GC, 11GD, 11GE, 11GF, 11GG, 11GH, 11GI, 11GJ, 11GK, 11GL, 11GM, 11GN, 11GO, 11GP, 11GQ, 11GR, 11GS, 11GT, 11GU, 11GV, 11GW, 11GX, 11GY, 11GZ, 11HA, 11HB, 11HC, 11HD, 11HE, 11HF, 11HG, 11HH, 11HI, 11HJ, 11HK, 11HL, 11HM, 11HN, 11HO, 11HP, 11HQ, 11HR, 11HS, 11HT, 11HU, 11HV, 11HW, 11HX, 11HY, 11HZ, 11IA, 11IB, 11IC, 11ID, 11IE, 11IF, 11IG, 11IH, 11II, 11IJ, 11IK, 11IL, 11IM, 11IN, 11IO, 11IP, 11IQ, 11IR, 11IS, 11IT, 11IU, 11IV, 11IW, 11IX, 11IY, 11IZ, 11JA, 11JB, 11JC, 11JD, 11JE, 11JF, 11JG, 11JH, 11JI, 11JJ, 11JK, 11JL, 11JM, 11JN, 11JO, 11JP, 11JQ, 11JR, 11JS, 11JT, 11JU, 11JV, 11JW, 11JX, 11JY, 11JZ, 11KA, 11KB, 11KC, 11KD, 11KE, 11KF, 11KG, 11KH, 11KI, 11KJ, 11KL, 11KM, 11KN, 11KO, 11KP, 11KQ, 11KR, 11KS, 11KT, 11KU, 11KV, 11KW, 11KX, 11KY, 11KZ, 11LA, 11LB, 11LC, 11LD, 11LE, 11LF, 11LG, 11LH, 11LI, 11LJ, 11LK, 11LM, 11LN, 11LO, 11LP, 11LQ, 11LR, 11LS, 11LT, 11LU, 11LV, 11LW, 11LX, 11LY, 11LZ, 11MA, 11MB, 11MC, 11MD, 11ME, 11MF, 11MG, 11MH, 11MI, 11MJ, 11MK, 11ML, 11MN, 11MO, 11MP, 11MQ, 11MR, 11MS, 11MT, 11MU, 11MV, 11MW, 11MX, 11MY, 11MZ, 11NA, 11NB, 11NC, 11ND, 11NE, 11NF, 11NG, 11NH, 11NI, 11NJ, 11NK, 11NL, 11NM, 11NN, 11NO, 11NP, 11NQ, 11NR, 11NS, 11NT, 11NU, 11NV, 11NW, 11NX, 11NY, 11NZ, 11OA, 11OB, 11OC, 11OD, 11OE, 11OF, 11OG, 11OH, 11OI, 11OJ, 11OK, 11OL, 11OM, 11ON, 11OO, 11OP, 11OQ, 11OR, 11OS, 11OT, 11OU, 11OV, 11OW, 11OX, 11OY, 11OZ, 11PA, 11PB, 11PC, 11PD, 11PE, 11PF, 11PG, 11PH, 11PI, 11PJ, 11PK, 11PL, 11PM, 11PN, 11PO, 11PP, 11PQ, 11PR, 11PS, 11PT, 11PU, 11PV, 11PW, 11PX, 11PY, 11PZ, 11QA, 11QB, 11QC, 11QD, 11QE, 11QF, 11QG, 11QH, 11QI, 11QJ, 11QK, 11QL, 11QM, 11QN, 11QO, 11QP, 11QQ, 11QR, 11QS, 11QT, 11QU, 11QV, 11QW, 11QX, 11QY, 11QZ, 11RA, 11RB, 11RC, 11RD, 11RE, 11RF, 11RG, 11RH, 11RI, 11RJ, 11RK, 11RL, 11RM, 11RN, 11RO, 11RP, 11RQ, 11RR, 11RS, 11RT, 11RU, 11RV, 11RW, 11RX, 11RY, 11RZ, 11SA, 11SB, 11SC, 11SD, 11SE, 11SF, 11SG, 11SH, 11SI, 11SJ, 11SK, 11SL, 11SM, 11SN, 11SO, 11SP, 11SQ, 11SR, 11SS, 11ST, 11SU, 11SV, 11SW, 11SX, 11SY, 11SZ, 11TA, 11TB, 11TC, 11TD, 11TE, 11TF, 11TG, 11TH, 11TI, 11TJ, 11TK, 11TL, 11TM, 11TN, 11TO, 11TP, 11TQ, 11TR, 11TS, 11TT, 11TU, 11TV, 11TW, 11TX, 11TY, 11TZ, 11UA, 11UB, 11UC, 11UD, 11UE, 11UF, 11UG, 11UH, 11UI, 11UJ, 11UK, 11UL, 11UM, 11UN, 11UO, 11UP, 11UQ, 11UR, 11US, 11UT, 11UU, 11UV, 11UW, 11UX, 11UY, 11UZ, 11VA, 11VB, 11VC, 11VD, 11VE, 11VF, 11VG, 11VH, 11VI, 11VJ, 11VK, 11VL, 11VM, 11VN, 11VO, 11VP, 11VQ, 11VR, 11VS, 11VT, 11VU, 11VV, 11VW, 11VX, 11VY, 11VZ, 11WA, 11WB, 11WC, 11WD, 11WE, 11WF, 11WG, 11WH, 11WI, 11WJ, 11WK, 11WL, 11WM, 11WN, 11WO, 11WP, 11WQ, 11WR, 11WS, 11WT, 11WU, 11WV, 11WW, 11WX, 11WY, 11WZ, 11XA, 11XB, 11XC, 11XD, 11XE, 11XF, 11XG, 11XH, 11XI, 11XJ, 11XK, 11XL, 11XM, 11XN, 11XO, 11XP, 11XQ, 11XR, 11XS, 11XT, 11XU, 11XV, 11XW, 11XZ, 11YA, 11YB, 11YC, 11YD, 11YE, 11YF, 11YG, 11YH, 11YI, 11YJ, 11YK, 11YL, 11YM, 11YN, 11YO, 11YP, 11YQ, 11YR, 11YS, 11YT, 11YU, 11YV, 11YW, 11YZ, 11ZA, 11ZB, 11ZC, 11ZD, 11ZE, 11ZF, 11ZG, 11ZH, 11ZI, 11ZJ, 11ZK, 11ZL, 11ZM, 11ZN, 11ZO, 11ZP, 11ZQ, 11ZR, 11ZS, 11ZT, 11ZU, 11ZV, 11ZW, 11ZX, 11ZY, 11ZZ

Rec 37' Mud

FP 68-61, 57-203*
S.P. R. 1035-1004#

dev 1/2
Mud

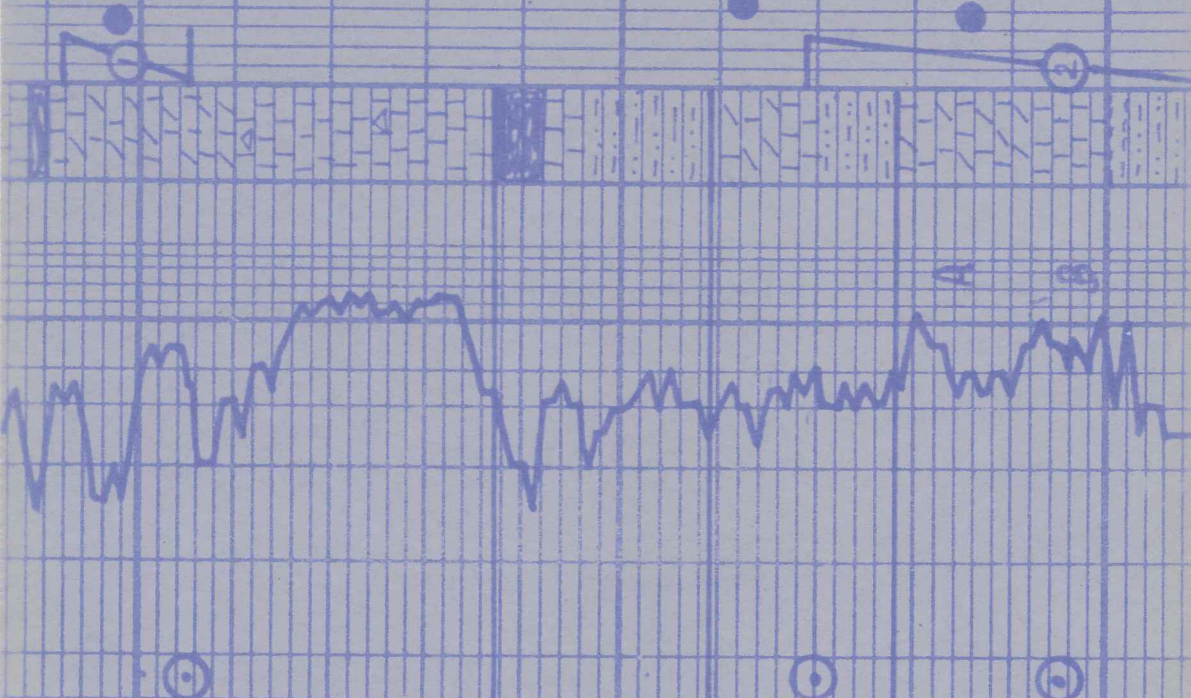
Vis. - 55 V.P. - 17
wt: 8.9 chl. 1.5k
wb: 7.6 LCM. 1.5#

OST # 2 LK A-C

3519-67
5" 60" 30" 60"

550' 51, 0, 5, M, W, M
FP 116-171 180-273#
S.P. 282-275#

Sh. blk. fissile
 LS - sl. dolo, gry - fn. xln.
 ool, fossil w/ fr. interpart
 Oolst. S.F.O. S.F.O. fr. odor
 LS - sl. dolo - tan - tary - ool.
 fossil w/ fr. interpart
 st. A
 LS - tan - tary - fossil, fn. xln.
 sh. blk, carb, fissile
 LS - tan - fn. xln.
 sh. st. st. gry - brn - grn.
 LS - sl. dolo - off wh. - tan - tary
 fn. xln. ool w/ poor - fr.
 interpart. oolst. S.F.O.
 sl. S.F.O. sl. odor
 sh. st. st. gry - brn - grn.
 LS - sl. dolo - tan - fn. xln.
 ool w/ poor - fr. interpart
 oolst. S.F.O. sl. odor
 sh - dark gry
 sh. st. st. gry - grn.



40
50
60
70
80
90
3500
Toronto
20
Lansing
30
40
50

Mud
 Vis. - 50 Y.P. - 12
 WT. - 9.0 CM. - 1K
 Vol. - 8.0 LCM. - 1#

DST #3 LK₅ ET
 3581 - 3600
 51.0' 60" 90"
 30.0' L
 250' S, O, C, M, WTR
 FR. 23.39 41-140"
 S.I.P. 581-532#

Mud
 Vis. - 52 Y.P. - 15
 WT. - 9.1 CM. - 2K
 Vol. - 7.6 LCM. - 1#

LS - 51.0' ool. off wh - lt gry -
 fa. xln. fr. ool. w/ sh. part
 in part of ool. soft SFO
 fractor.

sh. dark gry - gry - grn.

LS - off wh - tan - lt gry - fa xln.
 fossil, s/l

sh - gry

LS - off wh - tan - fa xln. ool. =
 fossil w/ sh. part in top part
 of ool. soft SFO, sh. part

A/A
 sh - gry

LS - off wh - lt gry - fa xln. ool.
 barren, shaly

LS - off wh - lt gry - fa xln.
 fossil, shaly

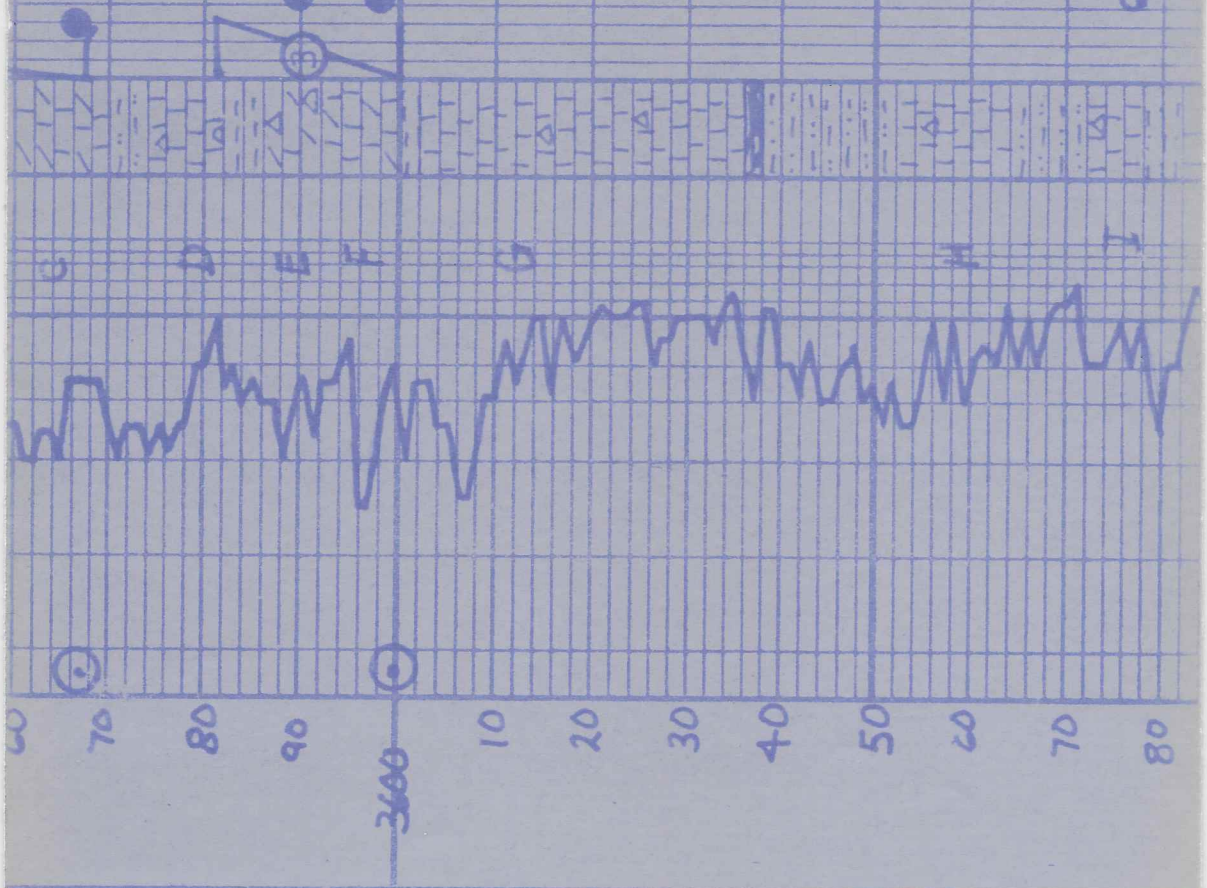
sh - blk, fissile

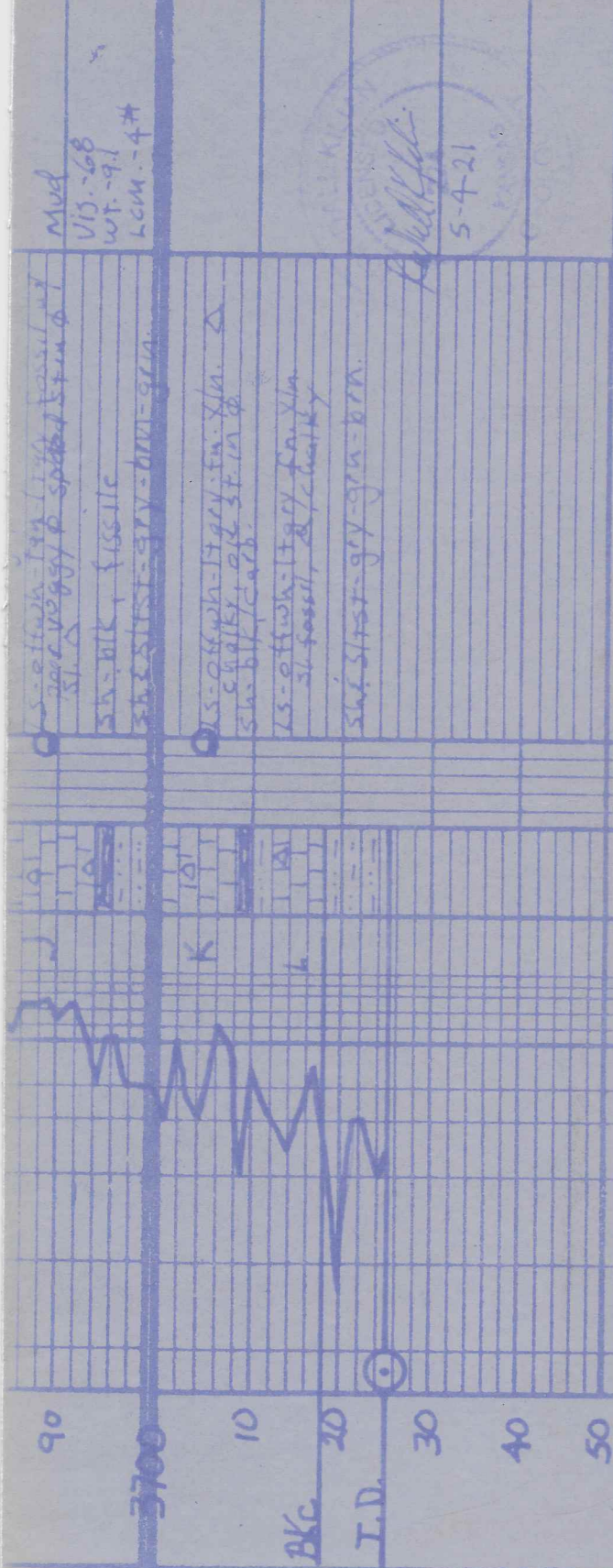
sh - sst - gry - brn - grn.

LS - off wh - tan - lt gry - fa xln.
 fossil, shaly

sh - sst - gry - brn - grn.

LS - off wh - lt gry - fa xln.
 fossil, shaly





LS - off wh - 17 gr. fm. x/ln. Δ
sh. blk / carb.
LS - off wh - 17 gr. fm. x/ln.
sh. blk / carb.
LS - off wh - 17 gr. fm. x/ln.
sh. blk / carb.

sh. blk / carb.
sh. blk / carb.
sh. blk / carb.

PARKVILLE
5-4-21